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I. GENERAL INFORMATION
MESSAGE OF THE RECTOR

The TEDU Academic Catalogue is your guide to a successful and enjoyable education at our university. The catalogue gives you a complete list of the many courses we offer at TED University, as well as an explanation of the academic rules and processes that we follow. You will find the catalogue to be informative and useful throughout your intellectual journey here.

The courses that you choose will prepare you for your career, enrich your life and help you to become a well-rounded individual. But the courses alone do not constitute your education in its entirety. There is a vibrant life within and around the TEDU campus that will keep you engaged here, and over 4200 students with whom you can interact and build relationships. Our hope is that these courses along with all of the other offerings here at our elite university will expand your intellectual world and change your life for the better.

All of us within the TEDU academic family will be supporting you as you pursue your studies and shape your future. Do take advantage of these resources and make the most out of your university experience. Read the course descriptions carefully, communicate with the instructors, consult with your advisors, check with your peers about the courses and use this information to make your decisions wisely.

Personally and on behalf of my colleagues at the University, I wish you a safe, productive and enjoyable year at TEDU.

Prof. H. Belgin AYVAŞIK
Rector
A BRIEF HISTORY

TED University was established by an act of the Parliament dated July 07, 2009 (legislation # 5913). The founder is the Turkish Education Association - Higher Education Foundation (TEDYÜV) which in turn was founded by the Turkish Education Association (TED).

Turkish Education Association (TED) was founded on October 31, 1928 to introduce the private enterprises drive in the modern education system of the young Turkish Republic. As stated in the second clause of its charter, the President of the Republic is the Guardian of the Turkish Education Association. TED has been a long-established civil society organization that provides scholarships to successful students with limited income, opens primary and secondary schools with foreign language as the medium of instruction, builds scientific platforms to further the efforts to bring the level of education in Turkey on a par with the contemporary world standards, creates awareness about the problems of the education system in Turkey and its possible solutions, and contributes to the formulation of Turkish educational policies.

The academic units of TED University (TEDU) are:

- Faculty of Architecture
- Faculty of Arts and Sciences
- Faculty of Economics and Administrative Sciences
- Faculty of Education
- Faculty of Engineering
- English Language School
- Graduate School

The University accepted its first students for the academic year of 2012-2013. The medium of instruction is English, so students are expected to demonstrate an acceptable level of proficiency in English or they study at the English Language School for at least one semester.

TED University will be expanding in size and sophistication to become a learning, exploring institution of 4000-4500 students, bringing to Turkish higher education area a new scope through its educational profile, quality culture, international links and top quality academic staff.

THE CAMPUS

TEDU campus is located in the heart of the city; equidistant to every neighborhood of Ankara and next to the arterial public transportation including the metro line. TEDU offers a serene and comfortable education environment with a specially designed architecture that motivates students in every aspect. Equipped with the highest technological infrastructure, TEDU assures students with the most efficient and effective technology.

The three blocks of buildings where the University started in 2012 contain 15,000 square-meters of classrooms, offices, laboratories and conference halls. By 2018, total campus area has 9 blocks on an area of 38,000 square-meters.
UNIVERSITY ADMINISTRATION AND OFFICERS

BOARD OF TRUSTEES

S. Selçuk PEHLİVANOĞLU, Chairman
M. Ertuğrul DOKUZOĞLU, Deputy Chairman
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Aclan ACAR, Member
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Ahmet Hakan ÖZMAN, Member
Ahmet Z. ÇÖRTOĞLU, Member
Filiz AKIN KÖKSAL, Member
Fırat ÇEÇEN, Member
Hakan ATEŞ, Member
Sunullah SALIRLI, Member

RECTOR

Prof. H. Belgin AYVAŞIK

VICE RECTORS

Prof. Oya GÜNERİ, Vice Rector for the Education
Prof. Kemal Levend PARNAS, Vice Rector for the Research
UNIVERSITY SENATE

Prof. H. Belgin AYVAŞIK Rector
Prof. Kemal Levend PARNAS Vice Rector
Prof. Oya GÜNERİ Vice Rector
Prof. Ali CENGİZKAN Dean, Faculty of Architecture
Prof. Kezban ÇELİK Deputy Dean, Faculty of Arts and Sciences
Prof. Aslıhan SALIH Dean, Faculty of Economics and Administrative Sciences
Prof. Yüksel KAVAK Dean, Faculty of Education
Prof. Güney ÖZCEBE Dean, Faculty of Engineering
Assoc. Prof. Mehmet Rüştü TANER Director, Graduate School
Prof. Şinasi ELLİALTIOĞLU Member, Faculty of Arts and Sciences
Prof. Berin F. GÜR Member, Faculty of Architecture
Prof. Sibel BALCI Member, Faculty of Education
Prof. Selin ARADAĞ ÇELEBİOĞLU Member, Faculty of Engineering
Asst. Prof. Işıl Sevilay YILMAZ Member, Faculty of Economics and Administrative Sciences
Levent KÜPELİ General Secretary/Rapporteur

UNIVERSITY EXECUTIVE BOARD

Prof. H. Belgin AYVAŞIK Rector
Prof. Ali CENGİZKAN Dean, Faculty of Architecture
Prof. Kezban ÇELİK Deputy Dean, Faculty of Arts and Sciences
Prof. Aslıhan SALIH Dean, Faculty of Economics and Administrative Sciences
Prof. Yüksel KAVAK Dean, Faculty of Education
Prof. Güney ÖZCEBE Dean, Faculty of Engineering
Prof. Şinasi ELLİALTIOĞLU Member
Prof. Şebnem AKİPEK ÖCAL Member
Prof. Tolga Kurtuluş ÇAPIN Member
Levent KÜPELİ General Secretary/Rapporteur

DEANS

Prof. Ali CENGİZKAN Faculty of Architecture
Prof. Kezban ÇELİK (Deputy Dean) Faculty of Arts and Sciences
Prof. Aslıhan SALIH Faculty of Economics and Administrative Sciences
Prof. Yüksel KAVAK Faculty of Education
Prof. Güney ÖZCEBE Faculty of Engineering

DIRECTORS OF ACADEMIC SERVICE DEPARTMENTS

Basic Sciences Unit Prof. Şinasi ELLİALTIOĞLU
English Language School Suzan KOTAN

DIRECTOR OF GRADUATE SCHOOL

Graduate School Assoc. Prof. Mehmet Rüştü TANER
# Chairs of Departments

## Faculty of Architecture

<table>
<thead>
<tr>
<th>Department</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>Prof. Namık Günay ERKAL</td>
</tr>
<tr>
<td>City and Regional Planning</td>
<td>Prof. Baykan GÜNAY</td>
</tr>
<tr>
<td>Industrial Design</td>
<td>Asst. Prof. Sedef SÜNER PLA CERDA</td>
</tr>
<tr>
<td>Interior Architecture and Environmental Design</td>
<td>Prof. Nur AYALP</td>
</tr>
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</table>

## Faculty of Arts and Sciences

<table>
<thead>
<tr>
<th>Department</th>
<th>Chair</th>
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<tbody>
<tr>
<td>English Language and Literature</td>
<td>Prof. Yusuf ERADAM</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Assoc. Prof. Mehmet Onur FEN</td>
</tr>
<tr>
<td>Psychology</td>
<td>Assoc. Prof. Ilgın GÖKLER DANİŞMAN</td>
</tr>
<tr>
<td>Sociology</td>
<td>Prof. Kezban ÇELİK</td>
</tr>
</tbody>
</table>

## Faculty of Economics and Administrative Sciences

<table>
<thead>
<tr>
<th>Department</th>
<th>Chair</th>
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<tbody>
<tr>
<td>Business Administration</td>
<td>Assoc. Prof. İbrahim ÜNALMIŞ</td>
</tr>
<tr>
<td>Economics</td>
<td>Prof. Jülide YILDIRIM ÖCAL</td>
</tr>
<tr>
<td>Political Science and International Relations</td>
<td>Prof. Aylin ÖZMAN ERKMAN</td>
</tr>
</tbody>
</table>

## Faculty of Education

<table>
<thead>
<tr>
<th>Department</th>
<th>Chair</th>
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<tbody>
<tr>
<td>Educational Sciences</td>
<td>Prof. Nilüfer Havva VOLTAN ACAR</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Assoc. Prof. Sühendan ER</td>
</tr>
<tr>
<td>Foreign Language Education</td>
<td>Prof. Belgin AYDIN</td>
</tr>
<tr>
<td>Mathematics and Science Education</td>
<td>Asst. Prof. Zerrin TOKER</td>
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## Faculty of Engineering

<table>
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<tr>
<th>Department</th>
<th>Chair</th>
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<tbody>
<tr>
<td>Civil Engineering</td>
<td>Assoc. Prof. Rıza Secer Orkun KESKİN</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>Prof. Tolga Kurtuluş ÇAPIN</td>
</tr>
<tr>
<td>Electrical-Electronics Engineering</td>
<td>Prof. Erdem YAZGAN</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>Assoc. Prof. Mehmet Rüştü TANER</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Prof. Selin ARADAĞ ÇELEBİOĞLU</td>
</tr>
<tr>
<td>Software Engineering</td>
<td>Assoc. Prof. Tansel DÖKEROĞLU</td>
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</table>
### DIRECTORS OF ADMINISTRATIVE DEPARTMENTS

<table>
<thead>
<tr>
<th>Department</th>
<th>Director</th>
</tr>
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<tbody>
<tr>
<td>Administrative Affairs</td>
<td>Ahmet Zeki HOCAĞLOLU</td>
</tr>
<tr>
<td>Continuing Education Center</td>
<td>Elçin CENGİZ</td>
</tr>
<tr>
<td>Corporate Communications</td>
<td>Can GÖKÇORA</td>
</tr>
<tr>
<td>Financial Affairs</td>
<td>Zekeriya YORULAĞIZ</td>
</tr>
<tr>
<td>Human Resources</td>
<td>Berna ŞERAN</td>
</tr>
<tr>
<td>Information Technology</td>
<td>Umut RODOPLU</td>
</tr>
<tr>
<td>Medical Center</td>
<td>Füsun ŞENER</td>
</tr>
<tr>
<td>Sports Center</td>
<td>Gamze AKDOĞAN BULUT</td>
</tr>
<tr>
<td>Student Affairs</td>
<td>Ayşegül ÖDEN</td>
</tr>
<tr>
<td>Student Counseling Center</td>
<td>Hamdiye Sevgin EŞEMENLI</td>
</tr>
</tbody>
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### DIRECTORS OF OFFICES OF THE RECTORATE

<table>
<thead>
<tr>
<th>Office</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectorate Counselor (Human Resources)</td>
<td>Jülide Esra AYKEN</td>
</tr>
<tr>
<td>Career Center</td>
<td>Pelin KALKANOĞLU</td>
</tr>
<tr>
<td>Center for Applied Data Sciences (CADS TEDU)</td>
<td>Asst. Prof. İnan Utku TÜRKMEN</td>
</tr>
<tr>
<td>Center for Gender Studies</td>
<td>Prof. Zuhal YEŞİLYURT GÜNDÜZ</td>
</tr>
<tr>
<td>Center for Social Innovation</td>
<td>Berivan ELİŞ</td>
</tr>
<tr>
<td>Center for Teaching and Learning</td>
<td>Prof. Belgin AYDIN</td>
</tr>
<tr>
<td>Directorate of Research, Technology and Innovation</td>
<td>Sanem YALÇINTAŞ GÜLBAŞ</td>
</tr>
<tr>
<td>Directorate of Social and Cultural Affairs</td>
<td>Peyman JAFARI</td>
</tr>
<tr>
<td>Documentation and Registry</td>
<td>Çiğdem ATAKAN OBUZ</td>
</tr>
<tr>
<td>International Programs Office</td>
<td>Dr. Elçin KARANA SURUCÜ</td>
</tr>
<tr>
<td>Library</td>
<td>Merve ERYİLMAZ</td>
</tr>
<tr>
<td>Trade Research Center</td>
<td>Prof. Nazire Nergiz DINÇER</td>
</tr>
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</table>
GOVERNANCE

The Rector, as chief officer of the University, presides over the Senate and the University Executive Board. The Rector reports to the Board of Trustees. The members of the Board of Trustees are appointed by the Board of the TED Higher Education Foundation.

The Senate is the principal academic body, comprised of the deans and three representatives elected by the three faculties. The chief executive body of the University is the University Executive Board, which consists of deans and three professors elected by the University Senate. Invited internal stakeholders attend these meetings without the power to vote.

THE UNIVERSITY VISION

TED University aims to be inspiring and unique in providing a transforming and liberating educational experience; and produce knowledge and create solutions through interaction with the town and the society.

THE UNIVERSITY MISSION

TED University carries the mission of fostering graduates that are creative, critical-minded, self-confident, well-rounded lifelong learners by using innovative teaching methods and curricula that have a proper depth-to-breadth balance required by global knowledge economies. TED University, which holds pride in being transparent, accountable and trustworthy, is and will always be a learning institution aiming at continuity and sustainable development and at contributing to the world of science by generating new knowledge through a wide range of scholarly research and creative efforts in focus areas of institutional priority.

OUR CORE VALUES

Respect for ethical values
Integrity, solidarity and mutual respect
Progressive and secular institutional position
Excellence in teaching and research
Robust and integrated quality culture
Partnership and cooperation spirit
Stakeholder participation
TED tradition
**FULL-TIME ACADEMIC STAFF**

Acar, Melis. Research Assistant. (FA)
BArch: 2016 TEDU; March: 2019 METU

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Bor, Emre. Research Assistant. (ENGIN)
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Boynueğri, Ebru. Research Assistant. (EDUC)
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BA: 2004 Hacettepe University; MA: 2014 Hacettepe University; PhD: 2017 Hacettepe University

Cengizkan, Ali. Prof. (FA)
BArch: 1978 METU; MArch: 1981 METU; PhD: 2000 METU

Cherilus, Nancy. Instructor. (ELS)
BS: 2001 Seton Hall University; MA: 2010 Seton Hall University

Con Wright, Gülçin, Asst. Prof. (FAS)
BS: 2007 Boğaziçi University; MS: 2013 METU; PhD: 2018 Purdue University
Craig Beihler, Zachary Charles. Instructor. (ELS)
BA: 2009 Humboldt State University

Coşkuner, Utku. Research Assistant. (FA)
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Çetinkaya, Bedrettin. Research Assistant. (ENGIN)
BS: 2016 METU

Dalkılıç, Nazlı Fidan. Instructor. (ELS)
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Kuşçu, Emin. Asst. Prof. (ENGIN)
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Küçükyılmaz, Tayfun. Asst. Prof. (ENGIN)
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Özcebe, Güney. Prof. (ENGIN)
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Özman, Aylin. Prof. (FEAS)
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Özmen, Onur. Asst. Prof. (EDUC)
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II. ADMISSIONS
UNDERGRADUATE ADMISSION

Admissions to undergraduate programs for Turkish students are limited to those who have been centrally placed by ÖSYM following the two stage central examination. After the completion of the pre-registration process, students are expected to take an Proficiency Exam of TEDU to determine whether they become Preparatory Class or Freshman Class students. A student may be exempted from the Prep Program offered by the English Language School without taking the English Proficiency Exam only if he/she is able to submit a national or international language exam scores. Equivalent exam types, minimum scores and additional requirements are announced each year by the English Language School.

Students of Faculty of Engineering, and Faculty of Economics and Administrative Sciences are admitted to faculties rather than specific programs. They need to declare their majors at registration time after completing 30 credit-hours which normally coincides with the sophomore year.

TRANSFER STUDENTS

Students who wish to transfer to TEDU should comply with the regulations concerning transfer between Equivalent Degree Programs and Undergraduate Programs in Higher Education Institutions, Regulations on Inter-Institutional Credit Transfer via Double Major and Minor Programs; and other requirements identified by the Senate.

INTERNATIONAL STUDENTS

International applicants seeking admission to TEDU apply through an online application program by submitting the required documents announced on the University web pages. Acceptable examinations featuring of a university entrance exam (such as SAT) and diplomas that are to be taken into consideration in the application process, and the relevant minimum eligibility scores (such as GCE-A Levels, IB Diploma, and Baccalaureate) are determined by the Senate, notified to the Higher Education Council, and announced in the University website each year together with the international student quotas for every specific department.

SPECIAL STUDENTS

The graduates or students of higher education institutions, who wish to develop their skills in a specific field are accepted to undergraduate/graduate program courses as special students. The candidates who register to take courses as special students are obliged to provide the requirements concerning English language proficiency. The applications of the special students, the courses they can follow and their total credit hours, are determined by the respective executive committee under the consultancy of the respective head of department.
GRADUATE ADMISSION

Calls for application and application deadlines are announced on the Web before the beginning of each semester.

Candidates for graduate degree programs must have completed an undergraduate degree or be registered as a fourth year student in a recognized institution of higher learning. Students who do not yet have an undergraduate degree may be accepted conditionally to a graduate program (The student’s official acceptance to a graduate program is contingent on the submission of a graduation document or diploma and original transcripts to the Registrar’s Office by the application deadline).

Students applying to graduate programs in English must demonstrate proficiency in English. The minimum acceptable scores for English proficiency are: 80 for YDS, 79 for TOEFL. Students without these proficiency documents must successfully pass the TED University English Proficiency Exam (min75).

Admission to the Academic Deficiency Program

Students who have degrees in an area of study different from the graduate area to which they are applying can enroll in the Academic Preparatory Program. The required courses in the Academic Preparatory Program cannot replace any of the courses of the graduate program involved. Students spend a maximum of one calendar year in the Academic Preparatory Program. Continuation of graduate studies after completion of the Academic Preparatory Program is contingent on a minimum GPA of 3.00/4.00.

Admission of Special Students

Graduates or students of an institution of higher education who wish to expand their knowledge of a given subject can, with the approval of the relevant department, be admitted as special students. Special students do not enjoy the rights and privileges granted to regular students. Like regular students, special students are required to demonstrate English language proficiency but are not permitted to register in thesis classes.

Transfer Students

A student who has successfully completed at least one semester in any graduate program at TED University or at another institution of higher learning may be admitted as a transfer student. Transfer students must demonstrate proficiency in English. Transferred credits may not exceed half of the total credits of a graduate program in TED University.
TUITION AND FEES

The Board of Trustees determines the tuition fees at the beginning of each academic year. Tuition fees can be paid in two installments during registration of fall and spring semesters. The tuition fee for undergraduate programs in 2020/2021 is TRY 44,420 (including %1 VAT) for Turkish students; USD 8,416 (including %1 VAT) for international students at the Faculty of Architecture, Faculty of Arts and Sciences and Faculty of Engineering; and USD 6,548 (including %1 VAT) for international students at the Faculty of Economics and Administrative Sciences, and Faculty of Education. Tuition fees do not cover expenditures for food, books or accommodation. Tuition fee of graduate studies may vary depending on the program. Further information is available on TEDU website.

SCHOLARSHIPS

National Students:

Scholarship programs are available for undergraduate students according to the Scholarship Regulation.

International Students:

(1) Full Tuition Waiver Scholarship which is designed to provide students with full exemption from the tuition fee,

(2) 75%, 50%, 25% Tuition Waiver Scholarships which are designed to provide students with 75%, 50%, 25% tuition fee discount. These scholarships are offered at the time of admission to applicants depending on exam/diploma scores (National or International Curriculum) submitted for the application. These scholarships are valid for 6 years for the students who study one year prep class or for 5 years for the students who start their education directly from the first year.

(3) Annual Achievement Awards to top ranking students in each program.
ACADEMIC POLICIES

Absence from Class

Students are expected to attend all classes and to complete all assignments and examinations for courses in which they are enrolled. If a student misses any of the mid-term quizzes it is the instructor’s decision to provide, or not to provide, make-up work related to the absence; the course syllabus clearly describes the policy. Failure to attend the final exam may be balanced by taking the make-up exam given to F students.

Academic Honesty

Academic honesty is one of the most important qualities adopted at TED University. Violations of academic honesty will be subject to disciplinary action. Students are particularly warned against cheating and plagiarism as disciplinary penalty will lead to loss of their scholarship.

Cheating includes, but is not limited to, those activities where a student:

1. Has someone else take an exam or takes the exam for someone else
2. Uses unauthorized reference material during an exam.
3. Obtains or attempts to obtain contents of an exam prior to the time of that exam.
4. Copies another student’s work or allows others to copy exams, assignments, projects, computer codes.

Plagiarism is the act of presenting someone else’s work as one’s own without acknowledging it. Exact words of a source may be quoted only within quotation marks and with full reference; similarly, tables, figures, facts, ideas, computer codes may not be taken from a source unless full credit is given.

Academic Standing

Undergraduate students are expected to keep their cumulative grade point average (GPA) above 2.00. When a student’s GPA is below 2.00, the student may be placed on academic probation and may be expected to repeat F, DD / DC courses to regain successful standing depending on the combination of credits completed and his/her GPA. Students with a credit of:

- 50 or less and GPA of 1.60 or less,
- 51 to 100 and GPA of 1.70 or less,
- 101 or more and GPA of 1.80 or less

are not allowed to take new courses unless they repeat all F, FX,DD and DC courses.

Graduate students are expected to keep their cumulative grade point average (GPA) above 3.00.
Advising

Each student is assigned an academic advisor. It is the department’s responsibility to assign the advisors and announce their names and contact information on the web page of TEDU. The academic advisors are to guide the students in making their study plans, choosing their courses and they are expected to mentor them through their academic as well as their social development. Advisors are evaluated annually by their advisees through a questionnaire.

Departments keep track of the less successful students to give them further, face-to-face guidance. Undergraduate students are advised;

- To have close contact with their advisors at all times.
- To complete their registration on time; late registration is subject to a fine announced on the web each year. Registration is absolutely not allowed after the late registration period ends.
- To keep track of the list of prerequisite courses so as not to lose one or more semesters.
- To keep the proper sequence of courses; unless there is an exceptional condition a lower numbered course may not be skipped to take a higher numbered one.
III. STUDENT SERVICES
UNIVERSITY LIBRARY

The TEDU Library is placed in the basement of Block B (B49, B51) & D (3&4. Floor) and covers an area of 1535 m². Additional study rooms, lounges and meeting rooms are scattered throughout the university adding up to 1300 m². The Library supports teaching, learning, and research at the university by providing a collection of national and international resources including print books, e-books, periodicals, e-magazines, multimedia collections, and academic online databases. Additionally, information literacy trainings, general library introductions, and research techniques seminars offered by the library staff.

The Library at B Block is open from 09:00 am to 06:00 pm on weekdays and The Library at D Block from 9:00 am to 11:00 pm on weekdays and weekends.

REGISTRAR’S OFFICE

TED University students, receive information and consultancy service about academic and administrative affairs from the Registrar’s Office during their undergraduate and graduate studies. The Registrar’s Office also guide the students about issues concerning the course selection system administered at our university, current regulations, registration procedures and/or other administrative issues. The Office is responsible for student admission transcriptions, administration of student certificates and graduation operations.

IT SERVICES

Starting from University registration, academic and administrative services are offered to students via a single point of access, integrated student portal called MyTEDU (https://my.tedu.edu.tr).

Through MyTEDU Portal students can:

- Register courses and send to advisor approval
- Track personalised weekly course schedules
- Track academic status and previous courses
- View exams results
- Provide feedback for courses and instructors
- Choose major program
- Choose secondary field program
- Request academic documents
- Track financial status and pay semester fees online
- View academic course catalog and semester offered courses
- Reserve study rooms
TED University students are provided e-mails not only valid for their period of study at the university but also valid even after graduation.

Students can work on their academic research activities and courses through 293 computers provided in study rooms, library and computer labs located within the University.

Students can also access campus network and internet through 245 wi-fi access points covering all locations within the campus. TED University is also a member of “eduroam (EDUcation ROAMing)” network providing its students access to internet during mobility within the member universities both located in Turkey and abroad.

A campus card called TEDUCard is provided to students as an ID. This campus card has both debit card and e-wallet capabilities providing easy access to campus services at cafeteria, canteen, bookstore and library.

A list and description of all IT services provided to students can be reached via https://it.tedu.edu.tr/tr/it/ogrenciler website. Support for IT services are provided via Help Desk available within MyTEDU Portal or by sending e-mail to help@tedu.edu.tr.

INTERNATIONAL PROGRAMS OFFICE

International Programs Office (IPO) is in charge of following and improving the internationalization and promotion strategies of TED University. In this framework, it provides services and assistance for incoming and outgoing exchange students, academic/administrative staff, and full-time international degree-seeking students.

The main activity fields of the Office are as follow:

- Going into partnerships with Universities and institutions abroad
- Conducting Erasmus+ Exchange Program
- Recruiting full-time international degree-seeking students
- Providing a smooth orientation process for international students
- Following Mentoring Program with the Center for Teaching and Learning for freshmen students.

HEALTH CENTER

The Health Center is located in rooms B06 and B04 in E Block which also contains the office of the University doctor. TEDU Health Center serves for all TEDU students, faculty and administrative staff. It offers appointment-based and/or walk in medical services at no cost.

The goal of Health Center is to provide the students and TEDU employees with physical, social and psychological support and maintain their well-being. Medical examinations, initial treatment or first aid of TEDU students and employees would be carried out at the Health Center; if necessary the patient will be referred to hospital.
FOOD SERVICES

Regular lunch is served in the cafeteria located on the ground floor; Block B to all TEDU personnel and students.

Coffee Break a spacious and fashionable coffee house and food house is located also on the ground floor (B051) and (B053) and serves snacks and drinks throughout the day. Also open buffet is provided in here. Chill-in Cafe is also spacious coffee and food house, is located Blok C. In addition, a café was built in Block D. There are also vending machines located all around the campus offering drinks and snacks.

DIRECTORATE OF SOCIAL AND CULTURAL AFFAIRS

The Directorate of Social and Cultural Affairs is concerned with the overall quality of student life at TEDU for all undergraduate and graduate students. The Directorate is also responsible to answer questions regarding the policies and procedures of the University and to guide the students by adding value to their academic life. The Director is permanently invited to University Executive Board and Senate meetings to build the bridge between the management and the students and to develop, articulate, disseminate and enforce University rules, regulations, and policies concerning students. The Directorate of Social and Cultural Affairs office is located in room B024.

CO-CURRICULAR ACTIVITIES

Student activities as part of the regular Student Clubs or organized by others are strongly encouraged at TEDU. The Directorate of Social and Cultural Affairs play an important role in managing these activities.

Students can pursue their interests while developing leadership and teamwork skills by taking part in student organizations. As of 2019, twenty four student clubs and societies are established and carry on activities in their specialized areas. These clubs are; Animal Friends, Architecture & Design, Ataturkist Thought, Cinema, Culture & Arts, Dance & Musical, Economy & Finance, EduAction, Enterpreneurship & Innovation, Equality of Opportunity for Children, Esports, Gastronomy, History, International Students, Kaizen, Logos, Maths-Up, Media, Music, Outdoor Sports, Photography, Platform of Politics, Psychology, Science & Technology, Science-Fiction and Fantasy, Sustainable Environment, Theatre and UNITED. In addition, students can join the local committees of international associations that has been established in TEDU; Erasmus Student Network (ESN), International Association of Civil Engineering Students (IACES), Institute of Electrical and Electronics Engineers (IEEE), International Association for the Exchange of Students for Technical Experience (IAESTE), Model United Nations (MUN), Needs Map and Sustainable Development Solutions Network (SDSN). Otherwise, there are two science project teams that has been established in TEDU; AlecTED and Aviation. Besides, students can participate into selection of sports teams that take place in interuniversity tournaments. As of 2019, twenty four sports teams are established in order to represent TED University in competitions held by Turkish University Sports Federantion's.
STUDENT ACTIVITIES AND SPORTS

The sports activities and facilities of the University are expanding constantly to keep pace with the growing needs of the student body. TEDU Sports Center facilities include one half olympic size indoor swimming pool, indoor volleyball and basketball courts, several aerobic/step studios, fitness/conditioning room and multi-purpose rooms.

Students can join the sports teams of TED university and take part in interuniversity competitions.

STUDENT COUNSELING CENTER

The Student Counseling Center’s main aim is to support the social, psychological and vocational development of students. The Center also aims to help students to become self-aware individuals who know their strengths and weaknesses and who are skilled at interpersonal communication.

Confidentiality is the fundamental issue for all counseling services offered in the Student Counseling Center. The use of the services offered in the center is completely voluntary. The counselor and the student work in rapport like a team to find the best counseling service that the student will benefit from. In addition to individual counseling, group counseling also exists. Some of the groups are population and/ or issue specific, while other groups consist of skill building and experiential learning.

CENTER FOR TEACHING AND LEARNING

TED University is determined to change the focus from teaching to learning and to replace lecturing with interactive, problem-based, practice-oriented instruction, and to enrich the learning environment in order to incorporate higher order thinking skills into undergraduate education. Regarding the institutional policy of the University, the mission of the CTL is to provide multifaceted resources to support faculty and students in their integration of innovative educational practices by promoting methods that encourage a rich learning environment that engages students in their own learning.

In order to achieve this, the Center provides workshop sessions, seminars, programs, educational technology and webinar support for the faculty and the students.

CONTINUING EDUCATION CENTER

TED University which carried the high-quality university education to the heart of the city with the “We Create The Difference in Higher Education” motto, believes that education is a life-long activity that paves the way for self-realization. To this end we have established the TED University Continuing Education Center (TEDÜSEM).

Relying on the experience of the Turkish Education Association and the academic expertise of TEDU, TEDÜSEM carries its activities with the objective of educating the inquired human resources of the country, supporting and developing the capacity of the educated human resources and adding quality, knowledge and skills to the workforce for the public institutions and organizations.
TEDÜSEM aims to organize original and high-quality training and certificate programs for participants from all backgrounds who wish to develop themselves in different areas and who believe in the importance of self-development in the ever changing and growing professional life. We are determined to support the individuals in discovering themselves outside stressful business life.

TEDÜSEM also organizes original training programs aimed for civil servants and private sector employees which will contribute to the personal and institutional development, promote the relations between the business world and the academy and provides consultancy services for improving the general development of the country.

**CAREER CENTER**

TEDU Career Center is established in an aim to assist our students in familiarizing themselves with, and in being in contact with the business environments before graduation and easily adapting to the professional life upon graduation.

Our goal is, to assist the students by providing them information and leadership in selecting a career and/or knowledge that would direct them to the correct career path. We will help them in making career plans and consciously selecting higher education opportunities that come along, by taking their personal talents, abilities and interests into consideration.

**In this aim we will;**

- Develop opportunities for full-time, part-time, short term or compulsory internship programs for our students and graduates.

- Provide counselling and training in preparing CV’s, developing interview techniques, and correct self expressions.

- Introduce sectoral firms by organizing career days and conversation sessions.

- Organizes Career Fairs, bringing employers, students and graduates together and providing communication opportunities for internships and employment through interview simulations.

- Evaluate job offers, prepare employment agreements and provide support in periods of adaptation to new jobs and employment companies.

**DIRECTORATE OF RESEARCH, TECHNOLOGY AND INNOVATION (ATİD)**

Directorate of Research Technology and Innovation (ATID) is founded in September 2017 as a unit reporting directly to TEDU Vice Rector, responsible from research. ATID’s main mission is to maximise the social and economic impact of research activities of TEDU. In order to achieve this, ATID contributes directly to strategic research agenda of the university, prepares policies related to research and innovation, mobilises the necessary resources to support and advance research
within TEDU, defines and implements the strategic roadmap and support services for Intellectual Property Rights management, fosters and supports entrepreneurship activities of TEDU faculty and students, conducts research development activities between university and industry and coordinates contracted research via TEDUTECH. Internal research funds that can be utilised both by TEDU researchers and students are also coordinated by ATID as essential tools to support research with TEDU’s own financial resources and significant media to attract additional national and international funds to TEDU research area. ATID also acts as an umbrella structure within TEDU which embodies IstasyonTEDÜ and TEDUTECH.

**CENTER FOR SOCIAL INNOVATION (İstasyonTEDÜ)**

İstasyonTEDÜ, TED University Center for Social Innovation is founded in April 2016. It is a not-for-profit social incubator and an open collaborative space aiming to develop social innovation and social entrepreneurship ecosystems in Turkey. İstasyonTEDÜ supports social entrepreneurs through its incubation and support programs providing access to co-working space, meeting facilities, mentors, network and training opportunities. İstasyonTEDÜ also contributes to research and network projects in the fields of social innovation, social entrepreneurship and social finance, provides bespoke training programs, hosts/organizes community building events, and coordinates policy dialogue meetings in collaboration with other ecosystem actors in Ankara. İstasyon is open to different types of actors including students, academics, practitioners, researchers, representatives/employees or volunteers from the public sector, municipalities, private sector and civil society believing that innovative solutions are only possible by working in multidisciplinary and collective settings.
IV. ACADEMIC UNITS
TRADE RESEARCH CENTER (TEDUTRC)

TEDUTRC conducts high quality research in the field of economics, particularly in its areas of expertise: Turkish Economy and International Economics. Among TEDUTRC’s main objectives are to provide policy recommendations on trade issues to policymakers, to collaborate with other centers of research excellence and to provide opportunities for young scholars working in its research areas. TEDUTRC people engage in interdisciplinary research and utilize their network to provide state of the art output.

Affiliation of TEDUTRC signals high-quality research as well as strong ties with policy-making. TEDUTRC aims to employ diverse affiliates from other universities, centers of research excellence, public, private and civil society organizations. The faculty are carrying on their research with well-known academicians from the US and the EU.

CENTER FOR GENDER STUDIES

The Center for Gender Studies aims at carrying out the necessary academic, administrative, theoretical and practical studies for a university environment, which is based on gender equality and equality in representation and has a high level of awareness and sensitivity about gender. As to achieve this, the Center conducts and supports national and international scientific research on gender, takes an interdisciplinary approach, keeps the gender issue on the agenda by incorporating all faculties, departments and administrative units, realises activities, panels, projects which combine academia and society and aims to prevent discrimination and sexual harassment based on gender and sexual orientation. Besides, TED University aims to open a Gender and/or Women's Studies Graduate Program in the near future.

TECHNOLOGY TRANSFER OFFICE (TEDUTECH)

Being a separate legal entity established under law, TEDUTECH is the technology transfer interface of TED University. It is fully owned by TED University and is responsible for the coordination of contracted research activities between university and industry and Intellectual Assets commercialization activities. TEDUTECH is also one of the grantees of TUBITAK 1514 Tech-InvesTR Venture Capital Support Programme and one of the Limited Partners of 500 Startups – Istanbul Annex VC Fund. CADS@TEDU, Center for Applied Data Sciences of TEDU, is also acting legally as a division under TEDUTECH.
CENTER FOR APPLIED DATA SCIENCES (CADS@TEDU)

Center for Applied Data Science (CADS@TEDU) is founded under TEDUTECH, the technology transfer interface of TED University, aiming to develop and carry out both research and application projects and provide training and consultancy in the field of data science. CADS@TEDU collaborates with different types of actors including students, academics, practitioners, researchers, public and private sector and civil society to provide data driven solutions to complex problems of its stakeholders.

The Center specializes at four main areas; data governance strategy, impact assessment, advanced business analytics and artificial learning applications. CADS@TEDU also provides specialised training programmes for institutions in a wide range of fields including machine learning, advanced data analytics, data visualisation and data driven decision making. In collaboration with NGO’s, civic initiatives and data science practitioners, the Center hosts and delivers bootcamps, workshops and webinars.
V. DEGREE REQUIREMENTS
TED University grants Bachelor of Arts, Bachelor of Science and Bachelor of Architecture degrees upon completion of an eight semester program offered by its Faculties. Further information concerning the programs of study required by each department can be found in Chapter V on Academic Programs. Double major programs ending with double degrees or minor programs are made available to successful students. All students are required to choose a secondary field next to their major program. TEDU students can substitute courses from other universities if desired courses are taught in English. Master of Arts and Master of Science degrees are granted upon completion of three semesters, in accordance with the requirements of the Graduate Schools offering the degrees.

Degrees Offered

Bachelor’s Degrees

**Faculty of Architecture**
- B.Arch. in Architecture
- B.S. in City and Regional Planning
- B.I.D. in Industrial Design
- B.F.A. in Interior Architecture and Environmental Design

**Faculty of Arts and Sciences**
- B.A. in English Language and Literature
- B.S. in Mathematics
- B.S. in Psychology
- B.S. in Sociology

**Faculty of Economics and Administrative Sciences**
- B.S. in Business Administration
- B.S. in Economics
- B.A. in Political Science and International Relations

**Faculty of Education**
- B.A. in Early Childhood Education
- B.A. in Primary Education
- B.A. in Guidance and Psychological Counseling
- B.A. in English Language Education
- B.S. in Elementary Mathematics Education

**Faculty of Engineering**
- B.S. in Civil Engineering
- B.S. in Computer Engineering
- B.S. in Electrical - Electronics Engineering
- B.S. in Industrial Engineering
- B.S. in Mechanical Engineering
- B.S. in Software Engineering
Graduate Degrees
Graduate School

- M.S. in Architecture and Urban Studies (with thesis)
- M.S. in Applied Data Science (with thesis/without thesis)
- M.S. in Civil Engineering (with thesis)
  M.E. in Civil Engineering
- M.S. in Developmental Focused Clinical Child and Adolescent Psychology (with thesis)
- M.S. in Economics and Finance (with thesis/without thesis)
- M.S. in Engineering Management (with thesis)
  M.E. in Engineering Management
- M.A. in English Language Education (with thesis/without thesis)
- M.S. in Interactive Computing and Information Systems (with thesis)
  M.E. in Interactive Computing and Information Systems
- M.A. in Management in Educational Institutions (without thesis)
- M.S. in Mechanical Engineering (with thesis)
  M.E. in Mechanical Engineering
- M.S. in Mechatronics Engineering (with thesis)
  M.E. in Mechatronics Engineering
- M.S. in Migration Studies (with thesis/without thesis)
- PhD. in Clinical Psychology

* B.A: Bachelor of Arts, B.F.A: Bachelor of Fine Arts, B.S: Bachelor of Science, B.Arch: Bachelor of Architecture, B.ID: Bachelor of Industrial Design, M.A: Master of Arts, M.S: Master of Science, M.E: Master of Engineering, PhD: Doctor of Philosophy

CURRICULUM STRUCTURE

(A) General Structure

All undergraduate academic programs at TED University are limited to 138 credit hours. Departments are advised to keep their total credits between 130 and 138. Most of the courses are 3 or 4 credit hours; all elective courses must be 3 credit hours to enhance the ability of students to fit them into their programs. One semester typically carries a teaching load of 16-17 credit hours. Successful students may overload, i.e. take extra credits above the regular semester load. Courses without corresponding slots in the curriculum are taken non-credit (NC).

Courses are divided into various categories: common-core (CC.R), departmental, faculty-common (F.C), university- common (U.C), and elective courses into free (F), minor (M), common-core electives (CC.E). Department courses are mainly offered to give the essentials of the discipline; some may be required (R), others elective (E).

(B) Credits of the Courses

Face-to-face credit-hours (CRF) are used in this catalog. The credit hour of a course is determined through the lectures, labs/studios or required problem sessions, all per week. The total classroom load per week associated with a course is indicated by three digits in parenthesis (a+b+c); the first shows
Credit Distributions of Faculty of Education Programs, Using Face-to-Face Credit-Hours (CR)

<table>
<thead>
<tr>
<th>Common Core</th>
<th>Program Required R</th>
<th>Program Elective E</th>
<th>Secondary Field SF</th>
<th>Free Elective F</th>
<th>Number of Courses</th>
<th>Electives CR %</th>
<th>Total CR</th>
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<td>Min15</td>
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Credit Distributions of Faculty of Education Programs, Using Face-to-Face Credit Hours (2018-2019 and After)

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* except Faculty of Education and Architecture programs; ** prog. req’d + elective not to exceed 65

### Credit Distributions of Faculty of Education Programs, Based on European Credit Transfer System (CR\textsubscript{E}) (2018-2019 and After)

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**SUMMER SCHOOL**

Students have the opportunity to attend Summer School. By doing so they may accelerate their degree programs and receive their degrees in three and a half years, or spread their academic work across a longer period of time. This also offers students the option of taking courses of personal interest, or overcoming the danger of academic probation or repeating F courses.
VI. ACADEMIC PROGRAMS
FACULTY OF ARCHITECTURE
Dean's Statement

The interest fields of architecture, design and planning as disciplines were already diversified through the achievements and reforms in technological and philosophical spheres, together with social progress and culture in the 20th century, but these have evolved, multiplied and have become still highly diversified to a large extent in the 21st century to follow. The question that constantly keeps architecture I design I planning on their toes: “What is Architecture; What is Design; What is Planning?” and the list of answers this question evokes, never gets consumed, even in this global age.

TEDU Faculty of Architecture, following the acceptance of its first students into the Department of Architecture in 2012, is progressing in calm and steady steps. In September 2016, we will be enjoying to welcome of our first City and Regional Planning Department students join their classes. Our faculty welcomes all young members, who have an interest towards a wide range of subjects in the fields of design practice, design culture, design policies; concerning, creating, and thinking together with and for the future geographies, cities, rural settlements, urban spaces, dwellings, objects and artefacts. Only getting closely acquainted with the precedents of designed objects, deciphering the potential behind problems, interpreting and researching the history and culture as context, can the focus on design artefacts become a developing and life-long critical position in every aspect of design. We invite you to be students of the faculty, where you can assemble to become individuals of a society with the courage in shaping a design object with competence in deep understanding of the future, through the eyes of a designer + planner + creator + critic + intellectual + educator.

TEDU Faculty of Architecture gets distinguished from other architectural institutions for its; significant emphasis on bringing out individual endowments and traits; obligations for intra-disciplinary and inter-disciplinary (cross-disciplinary) collective work; the working environment encouraging comprehensive approaches where design thinking and ethics blend together with intellectual clarity; guidance offered for motivating management and leadership not only in problem solving but also for openly discussing the definitions, conceptions and the axioms, thus the problem itself; a journey offered for acquiring a universal critical position directed especially through local problems, local resources, ideas, expressions and theoretical approaches.

TEDU Faculty of Architecture, being a city university, triggers possible integrations between its students and their target audiences, whether be it, individuals, communities or the society; accommodating a position with a priceless value, especially for accomplishing the goals set for professional education and intellectual progression.

Join us to be part of an intellectual and creative progress that will shape the future and the limits of architectural, design and planning practice!

Prof. Ali CENGİZKAN, Dean
DEPARTMENT OF ARCHITECTURE

Chair
Prof. Namık Günay Erkal

Academic Staff

* Research Assistant

Undergraduate Program in Architecture

The basic goal of TED University Department of Architecture is to provide an architectural education which aims to train students to become architects who are able to meet the contemporary world’s increasing demand for flexible thinking and production; and who can follow technological, social and practical developments day to day. The Department of Architecture incorporates the student oriented education policy of TED University and the practice of learning by doing, which is an essential requirement of architectural education and aims to define an education environment that facilitates interdisciplinary information exchange.

With the purpose of nurturing a critical culture on the built environment and the mutual relation of architectural education with social and cultural context, the program focuses on developing skills for inquisitive research, analytical thinking, innovative problem solving, intellectual productivity and sensitivity to professional ethics. An additional aim of the program is to create awareness of sustainability and sustainable environments. Accordingly, the students are encouraged to develop innovative methods for the design and construction of a sustainable physical environment.

In this context TED University Department of Architecture, provides its students with a practice based, research-oriented experience, within an independent and unique learning and research atmosphere. The program ensures that its students intensively engage with professional practices besides following the contemporary academic and technological advancements on their way to completing their education. For this aim, it plans to establish an environment, in light of technological advancements, which allows the students to question and experience new environments and tools. Additionally, students and researchers are encouraged to monitor contemporary academic research closely and are expected to direct studies in these fields.

Program Outcomes

By the end of this degree program, students should be able to do the following to show their understanding and creativity:

1. Interpret architectural knowledge from the perspectives of its history, theories, paradigms and conceptual frameworks, in the context of related arts within an interdisciplinary approach.
2. Integrate knowledge on planning and urban design, from the perspective of their historical background and strategies and current urban discourses.
3. Demonstrate competence in written and verbal expression of ideas and thoughts both in Turkish and English.
4. Use up-to-date information and communication technologies in thinking, producing and presentation processes.
5. Apply theoretical and practical knowledge to praxis.
6. Develop self-discipline for lifelong learning, time management, methodological study and research habits.
7. Identify and criticize the relationship between people and built environment by relating ethical issues, social factors, human behaviors and cultural diversities.
8. Develop skills for abstract, analytical and relational thinking in internalizing notions of design and design processes.
9. Generate designs and proposals employing basic architectural, environmental and universal design principles.
10. Develop an architectural project, individually and within a team integrating phases from formulation to completion, in a professional and collaborative context.
11. Evaluate current knowledge and praxis, using appropriate research methods, skilled questioning, critical thinking and ethical perspectives.
12. Develop personal creativity and skills to communicate creative ideas, perspectives and solutions.

**Undergraduate Curriculum**

**Semester 1**

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Totals expected for graduation  

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### Undergraduate Course Descriptions

**ARCH 101 (2+8+0) 6 Credits / 9 ECTS**

Basics of Design
(Tasarımın Temelleri)

Introduction to basic concepts and general trait of design. Abstraction and conceptualization. Relations and design operations. Development of mental, perceptual and manual skills to study and present design ideas.

**ARCH 102 (2+8+0) 6 Credits / 10 ECTS**

Introduction to Architectural Design
(Mimari Tasarına Giriş)

Design and structuring of spatial relations. Scale, formal properties, structured and experiential aspects of architectural space.

Pre-requisite: ARCH 101

**ARCH 111 (2+2+0) 3 Credits / 5 ECTS**

Architectural Communication Techniques I
(Mimari İletişim Teknikleri I)

Visualization and representation techniques in different mediums. Orthographic projection, free-hand drawing, architectural photography, communication with digital mediums.

**ARCH 112 (2+2+0) 3 Credits / 5 ECTS**

Architectural Communication Techniques II
(Mimari İletişim Teknikleri II)

Visualization and representation techniques in different mediums. Expression and communication of design ideas, architectural elements and formal attributes. Perspective drawing, modelling techniques, communication with digital mediums.

Pre-requisite: ARCH 111

### Courses with Pre-requisites

<table>
<thead>
<tr>
<th>Course Name</th>
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<td>ARCH 112 Architectural Communication Techniques II</td>
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<tr>
<td>ARCH 499 Summer Practice II_Architectural Office</td>
<td>ARCH 399</td>
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ARCH 121  (3+0+0)  3 Credits / 5 ECTS
Introduction to Architecture  
(Mimarlığa Giriş)  
Introduction to the vocabulary of design thought and design concepts in the context of arts, architecture and the built environment.

ARCH 201  (2+8+0)  6 Credits / 11 ECTS
Architectural Design I  
(Mimari Tasarım I)  
Architectural design process as complex structuring of spatial experiences in relation to the concept of human scale and the physical properties of the place.  
Pre-requisite: ARCH 102

ARCH 202  (2+8+0)  6 Credits / 11 ECTS
Architectural Design II  
(Mimari Tasarım II)  
Development of design strategies based on fundamental architectural design components such as scenario/program, site and tectonics in a relatively small scale building.  
Pre-requisite: ARCH 201

ARCH 221  (3+0+0)  3 Credits / 5 ECTS
History of Architecture I  
(Mimarlık Tarihi I)  
A global history of architecture survey from prehistory up to the modern age. Prominent examples of architectural edifices and cities.

ARCH 222  (2+1+0)  2 Credits / 5 ECTS
History of Architecture II  
(Mimarlık Tarihi II)  
Fundamental knowledge on the development of architectural thought and practices throughout the modern age. Historical process through the enlightenment, industrial age and the 20th century.

ARCH 241  (3+0+0)  3 Credits / 5 ECTS
Structure and Architecture  
(Yapisal Sistemler ve Mimarlık)  
Basic knowledge of structures, fundamental principles of structural behaviors, relationship between structure and architecture, analysis of simple structural systems.

ARCH 301  (2+8+0)  6 Credits / 11 ECTS
Architectural Design III  
(Mimari Tasarım III)  
Multi-dimensional design problems and spatial solutions in an urban context. Emphasis on the relationship between tectonic, structural and programmatic organization and the urban context.  
Pre-requisite: ARCH 202
ARCH 302  
Architectural Design IV  
(Mimari Tasarım IV)  
Holistic approach to cultural, ecological, and social sustainability. Development of architectural program and integration of advanced structural and technological systems into design process. Universal Design Principles.  
Pre-requisite: ARCH 301

ARCH 312  
Techniques of Architectural Photography  
(MimariFotoğraflama Teknikleri)  

ARCH 322  
Issues in Contemporary Architecture  
(Cağdaş Mimarlık Söylemleri)  
Contemporary architectural theories and practices in the world and Turkey. Significant concepts in the discursive formations of contemporary architecture and their reflections to the practice.  
Pre-requisite: ARCH 121

ARCH 326  
Modern Architecture in Turkey  
(Modern Türkiye Mimarlığı)  
Significant movements in the 20th century Turkish architecture within the social and political context. Important developments in the theory and practice of the early and late Republican Architecture in Turkey.

ARCH 345  
Studies on Structural Systems  
(Yapısal Sistemler Üzerine Çalışmalar)  
The relationship of structural systems and architectural solutions in the historical context. Structural solutions in contemporary applications.

ARCH 351  
Landscape Design  
(Peyzaj Tasarımı)  
Basic principles, elements, means and techniques of landscape design, visualization and representation methods.

ARCH 366  
Contemporary Building Materials and Architectural Structures  
(Çağdaş Yapı Malzemeleri ve Mimari Yapılar)  
Contemporary building materials. Methods of application. The effects of contemporary building materials on the design and construction of architectural products.
ARCH 372 (3+0+0) 3 Credits / 5 ECTS
Building Technologies in Architecture (Mimarlıkta Yapı Teknolojileri)
Pre-requisite: ARCH 301

ARCH 381 (2+2+0) 3 Credits / 6 ECTS
Urban Design (Kentsel Tasarım)
History of planning theories and approaches. Significant concepts and examples in the contemporary urban practice. Practice of a design problem in an urban scale in the studio environment.

ARCH 382 (3+0+0) 3 Credits / 5 ECTS
History of City Planning and Urban Design (Planlama Tarihi ve Kentsel Tasarım)
Historical development of planning and urban design, urban structures and related theories. Solutions and applications specific to varying scales and methods of analysis.

ARCH 383 (3+0+0) 3 Credits / 5 ECTS
Spatial Utopias and Urban Design (Mekansal Ütopyalar ve Kentsel Tasarım)
This course deals with cities, spatial entities and architecture through spatial Utopias, which are the product of hyperactive brains and developed for spaces and societies in order to establish the absolute happiness and social order to the mankind.

ARCH 399 (0+0+0) 0 Credit / 2 ECTS
Summer Practice I - Construction Site (Yaz Stajı I - Şantiye Stajı)
Building construction methods and techniques. Active participation in and/or observation of construction processes. The minimum duration of the summer practice is 30 working days.

ARCH 401 (2+8+0) 6 Credits / 12 ECTS
Architectural Design V (Mimari Tasarım V)
Multi-dimensional architectural and urban design problem/s. Integrative analysis of context, program, and building technologies. Advanced use of modes of representation.
Pre-requisite: ARCH 302

ARCH 402 (2+8+0) 6 Credits / 12 ECTS
Architectural Design VI (Mimari Tasarım VI)
Multi-dimensional architectural design problem. Integrative analysis of context, program, structure, and building technologies in corporation with design methodologies and architectural theories. Advanced use of modes of representation.
Pre-requisite: ARCH 401
ARCH 420  
**Reading and Writing About Architecture**  
(Mimarlık Üzerine Okumak ve Yazmak)  
Introduction to architectural criticism. Architecture and approaching to architectural products, definitions. The context of architecture: the City, the Street, the Block, Neighbouring architectural objects, the urban as context. Reading the works of architectural critiques; reading and writing exercises with focus on local (Ankara)/national/international cases.

ARCH 421  
**History and Theory of Architecture**  
(Mimarlık Tarihi ve Kuramları)  
Introduction to architectural history. Theory, texts by authors who have an important role in the creation of conceptualization and interpretation of basic concepts and perspectives in architecture.

ARCH 423  
**Sustainability and the Built Environment**  
(Sürdürülebilirlik ve Yapılı Çevre)  

ARCH 424  
**Modernism Studies**  
(Modernizm Araştırmaları)  
Modernist theories. The relation of modernism to social and urban developments since the 18th century. The effect of modernist theories on art and architecture.

ARCH 425  
**Form and Media**  
(Form ve Ortamları)  
Each different media, such as photography, painting, architecture, urban environment, sculpture, film, music, etc, has its specific way of representing space and time, which make its own form language. By viewing historic and contemporary examples from various media, a comparative analysis of media forms will be aimed, to help students of architecture and other media understand the creative potential of various arts and their design possibilities. Active participation in discussions, reading and research, besides lectures by the professor will constitute the program.

ARCH 426  
**Environmental Aesthetics**  
(Çevresel Estetik)  
Concepts of ‘aesthetics’ and perception. Values of ecology and environmental consciousness. Somatic relations and conducts related to culture. Comprehension of environmental values as primary issues of urban and architectural practice and design.
ARCH 427 (3+0+0) 3 Credits / 5 ECTS
Dwelling and Culture
(Barınma ve Kültür)
This course will aim to familiarize students with architectural culture in its various forms in history and today. Through readings from architectural history and theory, as well as from philosophy and literature, values related to our forms of life and how humanity creates its habitat will be investigated. Besides class discussions, short trips to neighboring towns or settlements, to different environments will cover a portion of semester time. Active and creative participation is expected of students; these can take place as photography, drawing, projects, documentary video and writings.

ARCH 428 (3+0+0) 3 Credits / 5 ECTS
Dwelling and Culture II
(Barınma ve Kültür II)
Problematics of dwelling. Conceptions related to the environment and the city. How buildings are related to their context. Creative/textual capacities of the greater environment, society, politics and art.

ARCH 430 (3+0+0) 3 Credits / 5 ECTS
Aesthetics and Criticism
(Estetik ve Eleştiri)
Through readings and discussions of ancient and modern texts on aesthetics and form analyses the course aims to make students conscious of interpretations of art, design and formal qualities. Readings will involve texts from Plato and Aristotle up to modern writers as Heidegger. The discussions and student work will also partly involve critical analyses of art and architectural examples in the light of different interpretations of the readings.

ARCH 431 (3+0+0) 3 Credits / 5 ECTS
Digital Culture and Architecture
(Dijital Kültür ve Mimarlık)
Definition and evolution of digital culture, understanding the relation between digital technologies, theories and culture, introduction to the key concepts in digital design research and practice, mapping the developments in digital culture and their impacts on the theoretical discourse and design processes in architecture.

ARCH 432 (3+0+0) 3 Credits / 5 ECTS
MediaScapes: Communication Models in Digital Design
(MediaScapes: Dijital Tasarmda İletişim Modelleri)
Communication models in architecture. Theoretical and historical aspects of digital design. Rethinking architectural representation and communication models in relation to digital design theories and practices. Different modes and techniques of communication in digital design.

ARCH 434 (3+0+0) 3 Credits / 5 ECTS
Parametric Design Thinking
(Parametrik Tasarım Düşüncesi)
An introduction to parametric design. Understanding computer-aided design’s theoretical background through its applicable models. Gaining familiarity to concepts like algorithm, parameter, topology and
form. Descriptive exploration of architectural examples through parametric design tools. Generating variations of architectural examples via innovative techniques.

ARCH 451 
Fundamentals of Cultural Heritage Conservation
(Tarihi Alan ve Binaların Restorasyonu ve Korumasi)
Introduction to the principles of conservation of cultural heritage. Examples of conservation implementations both national and international. Problems and developments in the field of conservation in the world and Turkey.

ARCH 462
Profession and Practice
(Meslek ve Uygulama)
Processes for project and construction. Technical, theoretical and ethical considerations in architectural practice. Project and construction management and cooperation of various parties.
Pre-requisite: ARCH 302

ARCH 470
Books of Architecture / Architecture of Books
(Mimarlığın Kitapları / Kitapların Mimarlığı)
Overview of history of architectural books. Architectural materialization in the form of books. Production and reception of architectural books and spatialization of these practices. Architects as writers, designers, readers and collectors of books. Case studies of public and private libraries in the past and present.

ARCH 471
Visual Culture
(Görsel Kültür)
A critical survey on the development of contemporary visual culture and its historical background that includes the practices of visual representations, mappings and information graphics. Analysis on the operations of certain concepts, approaches, practices and ideas constituting this culture and how they engage with social, cultural and political issues.

ARCH 480
Urban Design Practice
(Kentsel Tasarımın Pratiği)
The links between city or urban design theory and practice. The place of property relations in the evolution of urban space. The difference between city design and urban design. Design processes. Appraisal of real projects by developing algorithmic analysis; implemented and not implemented. Principles of urban design briefing.

ARCH 481
Reading Architectural Precedents
(Mimari Öncülleri Okumak)
Formal analysis of exemplary buildings. Critical reading of an architectural form. Examination of formal and spatial principles of a selected building. Exploration of formal elements and relations between these elements, and transformational operations on form.
Pre-requisite: ARCH 102
ARCH 484  (3+0+0) 3 Credits / 5 ECTS
Architecture of Urban Form Through History
(Tarih Boyunca Kent Formunun Mimarisi)
Introducing key elements of urban form. Focusing on certain historical building typologies. Description and analysis of urban elements -such as streets, city squares, gardens and fortifications. Surveying the related building types through history of architecture.

ARCH 499  (0+0+0) 0 Credit / 2 ECTS
Summer Practice II - Architectural Office
(Yaz Staji II - Mimari Ofis)
Participation to the processes of design, development and representation of a project in a professional architectural office. The minimum duration of the summer practice is 30 work days.
Pre-requisite: ARCH 399

Graduate Course Descriptions

ARCH 525  (3+0+0) 3 Credits / 7,5 ECTS
Visual Culture
(Görsel Kültür)
A critical survey on the development of contemporary visual culture and its historical background. Analysis on the operations of certain concepts, approaches, practices and ideas constituting this culture and how they engage with social, cultural and political issues.

ARCH 527  (3+0+0) 3 Credits / 7,5 ECTS
Urban Representations and Scalar Engagements
(Kent Ölçekleri ve Temsiliyetleri)
Analysis of relations between urban space and how it is inhabited, understood, imagined and encoded through different mediums of representations. Remodelling our understandings of the city by the utilization of different media as an agent for testing or representing different scales of urban engagement(s).

ARCH 528  (3+0+0) 3 Credits / 7,5 ECTS
Communication Models in Digital and Computational Media
(Sayısal ve Hesaplamalı Ortamda İletişim Modelleri)
A foundational understanding of the digital and computational media through an investigation of theoretical sources on communication models. Surveying the intersection of art and technology and new conceptions of representation. Potential topics include; digital and computational media-communication models- representation techniques-cybernetics- artificial intelligence- human-computer interfaces- mediated human experience, interaction, and perception- emergence-information aesthetics.

ARCH 529  (3+0+0) 3 Credits / 7,5 ECTS
Local Histories of Urban Culture
(Kent Kültürü ve Yerel Tarihler)
A hands-on research and historiography course where local/specific/minute cases of socio-spatial practices of urban culture(s) are studied throughout the semester with the aim of developing
suggestive narratives through interpretative data. The course aims to introduce critical discussions on the methodologies of historio-graphy, as well as contributing to the knowledge on the variety and diversity of everyday practices of the city within the recent past. The cases to be studied each semester can be selected among small scale institutions, events-practices, or people, as well as locations, places or buildings/sites (e.g. “Süleyman Bağcioğlu as a case of the working musician within the live music and entertainment scene in Ankara”; “İnek Bayramı in Mülkiye; as a case of festivity within the academic environment”; “Tavukçu Lokantasi”, etc.)

ARCH 531 (3+0+0) 3 Credits / 7.5 ECTS
Digital Culture and Architecture (Dijital Kültür ve Mimarlık)
Definition and evolution of digital culture, understanding the relation between digital technologies, theories and culture, introduction to the key concepts in digital design research and practice, mapping the developments in digital culture and their impacts on the theoretical discourse and design processes in architecture, modeling hybrid research frameworks.

ARCH 532 (3+0+0) 3 Credits / 7.5 ECTS
Mediascapes: Communication Models in Digital Design (Mediascapes: Dijital Tasarında İletişim Modelleri)
Communication models in architecture. Theoretical and historical aspects of digital design. Rethinking architectural representation and communication models in relation to digital design theories and practices. Different modes and techniques of communication in digital design. Transformation of vision, imaging and cognition.

ARCH 533 (3+0+0) 3 Credits / 7,5 ECTS
Dwelling and Discourse I (Barınma ve Söylemsellik I)
The function of discursive formations and analysis on diverse spaces of ‘dwelling’ from urban to object scale; discourse as practice; discursive practice in architecture and planning; continuities and rupture in history and historiography of housing; ‘panopticism’, surveillance and power; utopia, heterotopia and spatial politics; architecture as power and the power of architecture; the importance of the ‘site’ and that of archival material. Approaches in defining and posing problems; scientific research and surveying methods and the role of discursive analysis.

ARCH 534 (3+0+0) 3 Credits / 7,5 ECTS
Dwelling and Discourse II (Barınma ve Söylemsellik II)
Student’s personal production of a new and vibrant issue, to be tackled with as a personal project, within Foucauldian approach of ‘discursive formations and analysis’ on the specific construct of ‘dwelling’, to be elaborated from urban to object scale. Final product is a presentation, paper, article, essay, exhibition, or a script, publicized in professional, distinguished scholarly media.
ARCH 542 (3+0+0) 3 Credits / 7,5 ECTS
Mediascapes: Communication Models in Digital Design
(Mediascapes: Dijital Tasarında İletişim Modelleri)
Communication models in architecture. Theoretical and historical aspects of digital design. Rethinking architectural representation and communication models in relation to digital design theories and practices. Different modes and techniques of communication in digital design. Transformation of vision, imaging and cognition.

ARCH 544 (3+0+0) 3 Credits / 7,5 ECTS
Parametric Design Thinking
(Parametrik Tasarım Düşüncesi)
An introduction to parametric design. Understanding computer-aided design’s theoretical background through its applicable models. Gaining familiarity to concepts like algorithm, parameter, topology and form. Descriptive exploration of architectural examples through parametric design tools. Generating variations of architectural examples via innovative techniques.

ARCH 551 (3+0+0) 3 Credits / 7,5 ECTS
Fundamentals of Cultural Heritage Conservation
(Kültürel Mirası Korumanın Temelleri)
Introduction to the principles of conservation of cultural heritage. Examples of conservation implementations both national and international. Problems and developments in the field of conservation in the world and Turkey. The impact of political, social and economic inputs on cultural heritage conservation.

ARCH 571 (3+0+0) 3 Credits / 7,5 ECTS
Visual Culture
(Görsel Kültür)
A critical survey on the development of contemporary visual culture and its historical background. Analysis on the operations of certain concepts, approaches, practices and ideas constituting this culture and how they engage with social, cultural and political issues.

ARCH 581 (3+0+0) 3 Credits / 7,5 ECTS
Spatial Products, Practices and Politics [in Ankara]
(Mekânsal Ürünler, Mekânsal Pratikler ve Siyaset - Ankara Örneği)
Spatial Products, Practices and Politics are three species of spaces that are distinct yet intimately entwined. Spatial Products refers to manufactured entities, such as buildings, public spaces, monuments, gardens and transport infrastructures as well as the vehicles set upon them. Spatial Practices describes an unwieldy cohort of professionals and amateurs whose work involves the imagining, configuring or destruction of spaces. Spatial Politics underlines the ways in which spaces (often referred to as ‘terriotories’ – occupied, contested, or otherwise) are an embedded instrument of political imagination or discourse. The course focuses on the Capital city Ankara.
ARCH 582  
Rethinking Technologies  
(Teknolojileri Yeniden Düşünmek)
As electronic communication and accelerated modes of transportation shrink our planet more and more, technologies are often assumed to be the science of either salvation or human damnation. On the one hand, postmodern celebrations of contemporary technology and iDES related cultural sensibilities can be viewed. On the other hand, elegies on the death of nature and the dangers of automation and dehumanization can be portrayed. By avoiding one or the other extreme, the course intends to rethink technologies in an advanced technological age. With variety of approaches raised by the writings of Heidegger, Benjamin, Virilio, Guattari, Jean Luc Nancy, this course tries to show how the necessity to rethink technologies is at the heart of our present and future existence.

ARCH 584  
Architecture of Urban Form Through History  
(Tarih Boyunca Kentsel Biçimin Mimarisi)
Key elements of urban form and related historical building typologies. Topics on urban elements -such as streets, city squares, gardens and fortifications- through history of architecture. Continuity and change in urban form.
DEPARTMENT OF CITY AND REGIONAL PLANNING

Chair
Prof. Baykan Günay

Academic Staff

* Research Assistant

Undergraduate Program in City and Regional Planning

The Department of City and Regional Planning at TEDU considers planning as the art of intervening with the spatial structures of both the cities and regions. To accomplish this task, the understanding of economic, social, political and administrative evolutions is vital. City and region cover a wide variety of topics. City and regional, in short, spatial planners should have the capacity to command and cope with immense problems. A Pioneering Planning education, in this regard, which will redefine the planning practice and effectively perform it in controlling and shaping the urban environment, is one of the main aims of the department. From this perspective, it is essential to manage an education for city planners working in either public or private sector, to be able to break the blocked framework of construction plan and to design & develop engineering, problem definition and solution proposals beyond.

The Education Program of TEDU Department of City and Regional Planning aims its students to complete their education with a condensed relationship of contemporary academic and technological developments as well as of professional practices. According to this aim, it is essential to serve a technologically evolving instruction which allows students to criticize new concepts and tools. Nevertheless, it’s also expected students and researchers to follow contemporary academic agendas and guide them.

Mutual education projects and consultancies with several sectors will have an important role to establish the dialogue and cooperation between the society - university and sector – university as well as to contribute the technological developments. It is also a priority to integrate contemporary important subjects of "sustainable product", "sustainable natural environment and material", "sustainable creative performance" as the attitudes of design to the educational process and to educate sensible planners.

Perceiving these facts, TEDU Department of City and Regional Planning, in the long run:

- Aims to educate students in the more specific fields of social, engineering and design fields,
- Transfer knowledge to the students not so much for its intrinsic value, but mostly in order to solve problems arising in practical and theoretical activities,
- Develop students’ capacities of reasoning procedures so that they not only acquire knowledge, but also learn to think will constitute the basis education.
The aim of TEDU Department of City and Regional Planning is:

- Encouraging personal abilities and skills through lifelong learning praxis, which enhances methodological research, analytical and critical thinking, alternative problem solving and intellectual generativity.

- In addition to design thinking in the field of planning and projecting the future, developing policies in cooperation with stakeholders and partners, developing flexible thinking abilities in the process of developing creativity.

- Creating social, environmental and social awareness, internalizing these values in the professional field, gaining sensitivity in terms of occupational ethics and social service.

- Encouraging interdisciplinary co-operations as well as collaborations with various fields, and formulating mutual domains within these fields.

- Building skills in terms of following contemporary movements through the utilization of current communication techniques and integrating latest technologies in the process as well as developing it further.

Program Outcomes

Within this scope the students of TEDU, Department of City and Regional Planning are expected to realize:

1. Identifying the problem in the context of planning, integrating disciplinary knowledge, interdisciplinary approach, and the knowledge related to associative fields in the process of problem solving.

2. Designing different scales related to the program of planning systematically, and developing know-how in terms of material and production methods within the scope of urbanism.

3. Utilizing current knowledge and information technologies in the processes of thinking, producing, and representing.

4. Proficiency in English and in Turkish in terms of expressing oneself literally and verbally.

5. Utilizing theoretical and empirical knowledge in practice.

6. Developing self-discipline for life-long learning, time management, methodological work and research habits.

7. Developing abstract, analytical and relational thinking skills in internalizing design and planning concepts and processes.

8. Generating plans and proposals through the guidance of basic and universal principles of planning field.

9. Developing personal creativity and skills in order to convey creative thinking, perspectives and solutions.

10. Evaluating available information and applications through appropriate research methods, qualified examination, and ethical point of views.

11. Developing a planning approach or a project in a professional and participative manner individually or as a part of a group.

Having social responsibility and ethical consciousness in the planning discipline, as well as identifying and evaluating the relationship between people and built environment through social factors, human behavior, and cultural diversity.
### Undergraduate Curriculum

#### Semester 1

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<th>Code</th>
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**Totals expected for graduation**

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* Students are required to take MATH 202 Linear Algebra from the Mathematics pool and they are expected to take 4 courses (each from a different CC group) among the 5 Common Core groups (Natural Sciences/Social Sciences/ Humanities/Art/Literature).
Courses with Pre-requisites

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<td>CITY 102 Basic Design in Planning</td>
<td>CITY 101</td>
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<td>CITY 112 Graphic Communication Techniques in Architecture and Planning</td>
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Undergraduate Course Descriptions

CITY 101 Basic Design in Planning I (Planlamada Temel Tasarım I)
Abstract thinking and the ability of representing it in the second and third dimensions. Development of design skills in the concepts of order, frame of reference, balance, positive and negative values, three dimensional representation and composition. Encouraging creativity, and the perception of part-whole relations.

CITY 102 Basic Design in Planning II (Planlamada Temel Tasarım II)
Using abstract basic design thinking and principles and in the frame of topographical data, practicing mass-space relations of human settlements, space organization and hierarchy, location, and circulation. Drawings and models. Problem definition, analysis and producing design options.
Pre-requisite: CITY 101

CITY 111 Graphic Communication Techniques in Architecture and Planning I (Planlama ve Mimarlıkta Grafik İletişim Teknikleri I)
Visualization and representation techniques in different mediums. Orthographic projection, free-hand drawing, photography, communication with digital mediums.
CITY 112  
Graphic Communication Techniques in Architecture and Planning II  
(Planlama ve Mimarlıkta Grafik İletişim Teknikleri II)  
Field surveying and analysis techniques, master plan development, activities and circulation, creation of form, site sections, housing, center, redevelopment, design of streets and ways, utility systems, landscaping, problems of pollution, climate and orientation.  
Pre-requisite: CITY 111

CITY 121  
Introduction to the City and City Planning  
(Kent Olgusuna ve Kent Planlamasına Giriş)  
City Planning with its major relations with other disciplines; factors that create and continuously shape human settlements, urban and rural; the shaping of urban macroform handled with relation to urban sociology and economy. Urban structure with land use and land supply, in the light of activity systems. Processes and procedures of planning, its types, plan hierarchies and land-use patterns; introductory information about urban CBD, housing settlements, recreation zones investigated in relation to accessibility. Relations-tensions between design and planning.

CITY 201  
Planning Studio I  
(Planlama İşliği I)  
Comprehensive planning of urban/regional areas of a city, analysis of its population, inner structure, demographic profile, work-force and land-use, producing future master plan, to comply with future projections to conclude the future land-use and infra-structure with the new access network.  
Pre-requisite: CITY 102

CITY 202  
Planning Studio II  
(Planlama İşliği II)  
Production of application plans, relying on the “master plan” produced before. Urban center, housing zones, neighborhoods, recreation areas or their complementary wholes as entities in parallel to methods and tools already covered in the first year.  
Pre-requisite: CITY 201

CITY 211  
Urban Economics  
(Kent Ekonomisi)  
Introduction to principles of economics and urban economics. Market structures and urban economic actors. Agents and processes of urban supply and demand. Urban land as capital. Urban production and consumption and waste. Nature of urban spatial market(s) and their relation to local, national, international and global counterparts.
CITY 213 (2+0+0) 2 Credits / 5 ECTS
Regional and Urban Geography
(Kentsel ve Bölgesel Coğrafya)
Settlement systems and their hierarchy, site-decision theories, historic and modern urban forms and their corresponding urban bodies with their theoretical conceptions. Land-use and activity patterns for cities in comparison with density patterns. Connections between activity patterns and physical structure with descriptive analysis of statistical and demographical methods and surveys.

CITY 232 (3+0+0) 3 Credits / 5 ECTS
The City in History
(Tarih İçinde Kent)
Diversity in historiography of urban history, pre-industrial and post-industrial cities, their impact on urban form. 20th century urban developments in the West, modern architecture, modern planning policies and new urban forms, with their local adaptations in Turkey. The current trends of global city, post-modern city and the ‘limitless-city’.

CITY 301 (2+8+0) 6 Credits / 12 ECTS
Planning Studio III
(Planlama İşliği III)
Basic principles of structural planning. Urban form, infrastructure and accessibility (pedestrian and vehicular transport); CBDs and sub or secondary city-centers; public space allocations, open spaces and activity. Problems pertaining to each of these in current settlements, future policies and strategies.
Pre-requisite: CITY 202

CITY 302 (2+8+0) 6 Credits / 11 ECTS
Planning Studio IV
(Planlama İşliği IV)
Urban components defined and investigated in CRP 301; CBD, neighborhoods, urban public space, or areas instigating problems like urban transformation, urban transport nodes, design, planning strategies and alternative solutions. The alternatives, implementation strategies and their corresponding circumstances.
Pre-requisite: CITY 301

CITY 322 (3+0+0) 3 Credits / 4 ECTS
Urban Circulation and Transport Planning
(Kentsel Dolaşım ve Ulaşım Planlaması)
Urban circulation and transportation concepts are interrelated with corresponding activities, with regard to the material road. Historic accessibility and road systems are handled with respect their contribution to the development of circulation and transportation systems. Rural and urban transport systems, the nature and agents of urban transport, the supply-demand analysis for urban transport is maintained. Urban land use, allocation of functions in urban land and corresponding activity patterns, are correlated with circulation-access patterns to convey transportation economics and its future roles and trends.
CITY 330  
Economics of Urban and Regional Development  
(Kentsel ve Bölgesel Kalkınmanın Ekonomisi)

Concepts, theories, and analytical tools of urban and regional economic growth and development. Macroeconomic approaches to the issues in urban and regional development. Microeconomic methodologies in analyzing the role of the factors of production such as labor, physical capital, human capital, social capital, natural resources, and entrepreneurship in urban and regional economic development. Importance of institutions and governance in urban and regional development. Economic and social improvements as measures of urban and regional development—better quality infrastructures, improved community services, diverse goods and services, lower unemployment, rising average wealth, and improved quality of life. Emerging issues in urban and regional economic development.

CITY 331  
Regional and Urban Economics  
(Bölgesel ve Kentsel Ekonomi)

Market economy and state enterprise are investigated with their reflection on production, consumption and urban management activities, with regard to capital development and the rent value of urban property as commodity. The city, its economic activities and the physical structure with its rent value that both instigate constitute the limits of the course. Economics of size and scale, economic ground, theory of centrality, theory of size and hierarchy, the theory of mega-cities to be considered as reflections of economies of urban accumulation and comparative superlatives. Revenues of urban land; absolute, relative and monopoloid urban rent theories will be under focus.

CITY 351  
Topics of Planning Survey  
(Planlamada Araştırma Konuları)


CITY 352  
Planning Theory and Techniques  
(Planlama Kuramı ve Teknikleri)

The development of planning theory and ideas (physical, comprehensive, structural, systems approach, advocative, participatory, market-sensitive and social-sensitive, etc.), the dichotomy of planning and design, regional and urban agents of research-analysis-alternative approaches, population and work-force prediction methods, development of algorithms. Decision-making, choice-making, game theory, strategic choice-making methods.
CITY 362  (3+0+0) 3 Credits / 5 ECTS
Sociology of Planning and Design
(Planlama Ve Tasarım Sosyolojisi)
Social, spatial and physical approaches to the city. Core concepts and set of core writings on city planning, design, sociology and urbanization. Theoretical perspectives and empirical practices. The role of built environment in shaping social interactions. Planning and urbanization theories, urban social theories, ecological models of urban form, social space, main types of people activity in public spaces, urban way of life, place and identity, urban inequalities, community and neighborhood relations, urban renewal and redevelopment, globalization in social perspective and future cities. Collaborative and multiple ways of learning: Oral presentation, class work, reading, writing, discussions, exams and active class participation.

CITY 399  (0+0+0) 0 Credit / 2 ECTS
Summer Practise I: Research and Analysis Practise
(Yaz Stajı I: Araştırma ve Analiz Stajı)
Research and analysis stages of field/area/site works, planning and design studies. Fundamentals of geographic information systems and computer aided design programs at diverse scales (ArchGIS, AutoCAD, Autodesk Revit, Sketchup, Adobe Photoshop, Illustrator etc). Students can realize their summer practice in planning, architecture, urban design, geographic and spatial information systems offices, worksites, or public institutions either in domestic or foreign institutions according to their professional interests. The minimum duration of the summer practice is 30 work days.

CITY 401  (2+8+0) 6 Credits / 12 ECTS
Planning Studio V
(Planlama İşliği V)
The principles of foundational environmental planning, sustainability, infrastructure, energy and environment. The challenges of urban-rural, energy production-consumption, and its very relation with the urban-rural, optimizations of infrastructure, the transformation of the urban and its infrastructure, sustainable urban development, the participation of social groups to planning and environmental management, with their corresponding problem definitions and future strategies and policies to overcome the problems.
Pre-requisite: CITY 302

CITY 402  (2+8+0) 6 Credits / 10 ECTS
Planning Studio VI
(Planlama İşliği VI)
Relying on the first semester’s problem area and problem definitions, working on environmental problems (like urban-environmental form; energy production-urban form; urban development-rural preservation; infrastructure and cities; sustainable urban form) to derive design strategies and alternatives. Developing participatory governance models, using mathematical models.
Pre-requisite: CITY 401
CITY 411  (3+0+0) 3 Credits / 5 ECTS
Construct of the City
(Kentin Kurgusu)
Layouts, patterns, texts, stories and other narratives and constructions that give way to the making of cities; the making of urban landscape; diversity of urban spatial textures; importance of perception and cognition in the design and planning of urban space; developing scenarios pertaining to the making and sustenance of urban space.

CITY 412  (2+1+0) 2 Credits / 5 ECTS
Urban Morphology
(Kentsel Morfoloji)
Approaches and theories regarding the making and understanding of the physical dimensions of the urban form, urban tissues. Diverse schools of morphogenesis and morphology; the syntax of space, Spacesyntax; use of GIS in urban spatial analysis; techniques regarding the formation of the built-up and textural qualities of the city; understanding the CBD, city-centre and the fringe developments of the city.

CITY 421  (3+0+0) 3 Credits / 5 ECTS
Natural Environment and the City
(Doğal Çevre ve Kent)
Natural environment and design; allocation of functions and planning of the rural land; discussions regarding the tension between town-and-country, rural landscape; energy dependent-energy efficient design; ecology in environmental design; sustainable design are issues that are comprehended.

CITY 422  (3+0+0) 3 Credits / 5 ECTS
Social Environment and the City
(Toplumsal Çevre ve Kent)
Men-Environment Relations; the individual and the group behavior; possession and sense of belonging; territory and place as concepts; the definition of environment as micro-meso-macro scales; urban image; urban aesthetics; individual reception of the urban; participation in planning; with case studies.

CITY 430  (3+0+0) 3 Credits / 5 ECTS
City Planning Law and Implementations
(Şehir Planlama Hukuku ve Uygulamaları)
Basic knowledge about legal issues of city planning and those related to public administration. The language of planning law is the core intent of the course. Legislations of zoning control, zoning tools, building procedures, urban regeneration, urban design and public services. The implementational aspects of spatial planning, local case studies as well as precedents in other countries. The emergent issues and practices of judicial cases.
CITY 462 (3+0+0) 3 Credits / 5 ECTS

Models in Urban Planning
(Kent Planlamasında Modeller)

Systems Approach and its relations with models; model formation models; urban model types; concept; prediction-making of spatial interference; model calibration; problem definition making; planning and attraction modelling comprehended.

CITY 499 (0+0+0) 0 Credit / 2 ECTS

Summer Practice II: Planning and Design Practice
(Yaz Staji II: Planlama ve Tasarım Staji)

Yurt içi/yurt dışı planlama, mimarlık, kentsel tasarım ofisinde /şantiyesinde ya da bir kamu kurumunda planlama, tasarım, proje geliştirme, temsil ve sunum süreçlerine aktif olarak katılsın. Bu staj kapsamında öğrencilerin, çalıştığı kurumun düzen ve organizasyonunu, proje gelişim aşamalarını, uygulama ilişkilerini izlemeleri ve bu süreçte aktif olarak katılmaları beklenmektedir. Asgari staj süresi 30 iş gündür.

Pre-requisite: CITY 399
DEPARTMENT OF INDUSTRIAL DESIGN

Chair
Asst. Prof. Sedef Süner Pla Cerda

Academic Staff

* Research Assistant

Undergraduate Program in Industrial Design

The undergraduate program in Industrial Design (ID) at TEDU embraces user-centred design approach for the betterment of life, and puts emphasis on developing creative and practical problem-solving skills of students. Moreover, TEDU ID aims to improve capacity for collaboration, teamwork and co-creation processes which are essential for designers in professional life, and to develop basic skills of design process such as user-centred research, conceptual product development for defined needs, modelling, prototyping, and evaluating the end product.

TEDU ID’s vision is to provide education which is interactive, research-oriented and compliant with international standards. It aims to educate industrial designers who are innovative and competitive at national and international levels, creative and entrepreneurial, sensitive to ethics and sustainability issues, and have social awareness. TEDU ID’s goal is to deliver a unique, independent and research-centered environment to students.

Graduates of TEDU ID undergraduate program correspond to the necessities of various industries and collaborate dexterously within interdisciplinary teams; have knowledge and skills about contemporary issues of design such as design for sustainability, open design, user-centered design and social innovation; have the awareness of environmental, ethical, social and professional responsibilities; develop abstract, analytical and relational thinking skills; are competent in presentation techniques and have excellent visual, verbal and literary communication skills; keep abreast of social, economic and technological developments, and have prescience of future products and novel use contexts; are eager for independent and continuous learning; have motivation for observation, research, questioning and initiative, and have flexible thinking skills; have the expertise in conventional and contemporary production technologies and materials, and construct these into useful and suitable products for users with creative and planned processes.

Program Outcomes

By the end of this degree, students should be able to do the following:

1. Interpret architectural knowledge in problem definition and design processes in the context of related arts within an interdisciplinary approach, develop critical evaluation of theoretical and conceptual theories, define the design problem and propose solutions.

2. Demonstrate compatibility in product, system and process design in industrial design discipline, have appropriate knowledge of material and production methods and be able to apply knowledge.

3. Use up to date information and communication technologies in thinking, producing and presentation processes.
4. Demonstrate competence in written and verbal expression of ideas and thoughts both in Turkish and English.

5. Apply theoretical and practical knowledge to praxis.

6. Develop self-discipline for lifelong learning, time management, methodological study, and research habits.

7. Develop skills for abstract, analytical and relational thinking in internalizing notions of design and design processes.

8. Generate designs and proposals employing basic, environmental and universal design principles.

9. Develop personal creativity and skills to communicate creative ideas, perspectives and solutions.

10. Evaluate current knowledge and praxis, using appropriate research methods, skilled questioning, critical thinking and ethical perspectives.

11. Develop a product, individually and within a team integrating phases from formulation to completion, in a professional and collaborative context.

12. Identify and criticize the relationship between people and built environment by relating ethical issues, social factors, human behaviors and cultural diversities.

Undergraduate Curriculum

Semester 1

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Undergraduate Course Descriptions

ID 101 (2+8+0) 6 Credits / 9 ECTS

Basics of Design (Tasarımın Temelleri)

Basic rules and principles of design. Knowledge and skills in basic design concepts, design elements, visual thinking, presentation of thought in two dimension, organization, composition, abstraction. Elements of Design: Point, Line, Shape, Dimension, Texture, Value, Color. Principles of Design: Direction, Repetition, Harmony, Balance, Unity, Dominance, Contrast, Rating, Permeability, Movement, Rhythm, Diversity, Change,....

ID 102 (2+8+0) 6 Credits / 10 ECTS

Basics of Three Dimensional Design (Üç Boyutlu Tasarımın Temelleri)

The basic design elements and principles studied in the prerequisite course (ID101 Design Principles) are applied in three-dimensional compositions with advanced exercises. Additionally, with these exercises, students work with various materials and develop their hand skills. During this semester, students begin to design functional objects that require simple form studies.

Pre-requisite: ID 101

ID 111 (2+2+0) 3 Credits / 5 ECTS

Visual Communication Techniques I (Görsel İletişim Teknikleri I)

Visualization and graphic representation techniques in different media. Conventions and universal standards of technical drawing, orthographic projection, isometric drawing, free-hand sketching.
ID 112 (2+2+0) 3 Credits / 5 ECTS
Visual Communication Techniques II
(Görsel İletişim Teknikleri II)
Visualization and graphic representation techniques in different media. Expression and communication of design ideas, design elements and formal attributes. Free-hand sketching, Perspective drawing, Introduction to 3 Dimensional modeling techniques, Introduction to communication with digital media.
Pre-requisite: ID 111

ID 121 (3+0+0) 3 Credits / 5 ECTS
Introduction to Industrial Design
(Endüstriyel Tasarına Giriş)
Fundamental design terminology. Design process and design thinking. Historical and organisational context of industrial design as a profession. Relationship of industrial design to other design disciplines. Career paths and emerging issues in industrial design.

ID 201 (2+8+0) 6 Credits / 11 ECTS
Industrial Design I
(Endüstriyel Tasarım I)
Introduction to formal, structural and functional components of design. Efficiency in manufacture and use of resources. Basics of human-product interaction. Knowledge and skills in user-centred design process.
Pre-requisite: ID 102

ID 202 (2+8+0) 6 Credits / 11 ECTS
Industrial Design II
(Endüstriyel Tasarım II)
Pre-requisite: ID 201

ID 221 (3+0+0) 3 Credits / 5 ECTS
History and Theory of Design I
(Tasarım Tarihi ve Kuramı I)
Introduction to design history. Analysis of the social, economic, political and technological climate of the last three centuries in which design has taken shape. In-depth examination of the impact of design and designed products upon the social experiences, daily lives and material culture of different regions and geographies.

ID 241 (3+0+0) 3 Credits / 5 ECTS
Structure and Design
(Yapısal Sistem ve Tasarım)
Basic knowledge of structures, fundamental principles of structural behaviors. Relationship between structure, geometry and form. States of stress and deformation. Analysis of simple structural systems,
force characteristics, internal and external forces, loads, moment, equilibrium, support conditions and reactions, shear and axial forces, bending moments.

**ID 272**
Manufacturing: Materials and Technologies  
(Üretim: Malzeme ve Teknolojiler)
Industrial manufacturing technologies and processes. Forming, finishing and joining methods. Materials and their physical, mechanical and experiential properties in relation to product design.

**ID 301**
Industrial Design III  
(Endüstriyel Tasarım III)
Multi-dimensional design problems, service design and systems thinking. Social and ecological sustainability within the context of design practice. Advanced design communication techniques. Pre-requisite: ID 202

**ID 302**
Industrial Design IV  
(Endüstriyel Tasarım IV)
Design for user experience, interactive product design and product-user interfaces. Future projections in design and speculative design. Multi-dimensional design problems, service design and systems thinking. Advanced design communication techniques. Pre-requisite: ID 301

**ID 311**
Model Making  
(Model Yapımı)
Model making processes; industrial standards in model making; models as a decision making and presentation tool in design; equipment, tools and materials for model making.

**ID 312**
Computer Graphics and Presentation Techniques I  
(Bilgisayar Grafik ve Sunum Teknikleri I)
Introduction to multi-media presentation techniques to deliver design ideas. Contemporary digital tools for 2D and 3D visualization in design.

**ID 313**
Computer Graphics and Presentation Techniques II  
(Bilgisayar Grafik ve Sunum Teknikleri II)
Advanced multi-media presentation techniques to deliver dynamic design interfaces. Contemporary digital tools for 2D, 3D and 4D representation in design.

**ID 314**
Color in Design  
(Tasarımda Renk)
Introduction to color theories; introduction to color systems; language of color; color terminology; subjective use of color; color character; psychology of color; exercises: practical applications of theoretical color knowledge.
ID 320 Sustainable Living and Design (Sürdürülebilir Yaşam ve Tasarım)
Introduction to basic concepts in sustainability field and contemporary sustainable design endeavors. Critical thinking necessary for serving to sustainable living practices. Design and system solutions for sustainable living.

ID 322 Contemporary Issues in Design (Tasarımda Çağdaş Söylemler)
Contemporary design theories and practices in the world and Turkey. Overview of current issues in art and design with reference to their social, economic, ideological, cultural and historical underpinnings. Significant and emerging concepts within the discursive formation of the discipline and their reflections on everyday global practices of designers. Experimenting with critical notions by putting current issues into short, conceptual project works.

ID 331 Introduction to Interior Design (İç Mekan Tasarımına Giriş)
Overview of the discipline of interior design; Historical background of the profession; Fundamental concepts and current issues in interior design; The notion of space in relation to its users; Space and place; Types of spaces, Gender and space; Principles, elements and processes involved in designing interiors; Color and light.

ID 332 Form in Arts and Design (Sanatta ve Tasarında Biçim)
History of form from the aesthetics point of view. Form in different mediums; music, literature, plastic arts, and architecture. Role of form in design activity. Meaning of form in the industrial design field. Trends and tendencies of product forms throughout the industrial design history with justifications. Form-analysis and form-giving exercises.

ID 342 History and Theory of Design II (Tasarım Tarihi ve Kuramı II)

ID 381 Ergonomics and Human Factors in Design (Tasarımda Ergonomi ve İnsan Faktörleri)
Processes and methods of user-centred design. User-product relationships in terms of safety, usability and pleasure in use. Product and interface design in terms of human physics, human psyche and culture.
ID 399 (0+0+0) 0 Credit / 2 ECTS
Summer Practice I: Manufacturing
(Yaz Stajı I: Üretim)
Introduction to the field of practical applications in industrial design; Observation of collaboration between different professionals in teamwork; First-hand experience of the sphere of production and related code of conduct in workshop; Thorough engagement with materials and processes in manufacturing; The role of design and designers in industrial division of labour.

ID 401 (2+8+0) 6 Credits / 12 ECTS
Industrial Design V
(Endüstriyel Tasarım V)
Real solutions with a creative approach to current design problems of industrial companies in any size. All the projects held during the course have a complete design process from start to finish with all the components of real situations.
Pre-requisite: ID 302

ID 402 (2+8+0) 6 Credits / 12 ECTS
Industrial Design VI
(Endüstriyel Tasarım VI)
In line with the knowledge and skills gained over the past 7 semesters of industrial design education, combination of contemporary design theories and individual design methods -with a critical and professional approach- for innovative design solutions for real-life design problems.
Pre-requisite: ID 401

ID 421 (3+0+0) 3 Credits / 5 ECTS
Theory of Design
(Tasarım Teorisi)
The definition of theory; the meaning and significance of theory within the history of science and philosophy; the function of theory; epistemology and ontology; the foundations of design thinking; the emergence of design theory and design methods; overview of theories and theoretical frameworks imported from different disciplines; designerly ways of knowing; ethics in design; contemporary theoretical work produced within the disciplinary boundaries of design.

ID 430 (2+2+0) 3 Credits / 5 ECTS
Design For User Experience
(Kullanıcı Deneyimi İçin Tasarım)
Introduction to user experience (UX) definitions and models. Exploration of major concepts in designing for user experience and specific user needs. Review of user-centred design and user research methods. Application of UX methodology both for insight generation and evaluation. Concept generation and low fidelity prototyping for identified needs of specific user groups.
ID 462
Profession and Practice in Design
(Tasarımda Meslek ve Uygulama)
Introduction to the general concept of “business” and its features; communication skills for professional
world; professional practice and conduct; trademarks, plagiarism, copyright, royalties; design and the
law; associations and institutions concerned with the professional practice of industrial design.

ID 464
Creativity and Innovation in Design
(Tasarımda Yaratıcılık ve Yenilikçilik)
Creativity, types of innovation, semantic innovation, social innovation, concept generation, branding,
product differentiation and positioning, crossover, redesign, problem solving, consumer behavior and
preferences, strategies for new product development (NPD), design as a strategic tool, case studies
from Turkey and the world, consumer and market research techniques, design methods, information
gathering.

ID 466
Contemporary Materials and Innovative Technologies
(Yeni Malzemeler ve Yenilikçi Teknolojiler)
New materials and innovative technologies for contemporary design, production and use. Smart
materials and technologies. Additive manufacturing and rapid prototyping methods. Biomaterials,
biomanufacturing and circular economy.

ID 499
Summer Practice II: Design Office
(Yaz Stajı II: Tasarım Ofisi)
Practical learning experience in a professional design office on the processes of product development,
production and marketing; technical, theoretical and ethical considerations in design practice;
design management, and cooperation with various parties. Application areas of the industrial design
profession. (minimum duration of the summer practice - 30 work days).
Pre-requisite: ID 399
DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN

Chair
Assoc. Prof. Nur Ayalp

Academic Staff
* Research Assistant

Undergraduate Program in Interior Architecture and Environmental Design

TED University Department of Interior Architecture and Environmental Design mainly focuses on to educate students’ perspective in a global context. In developing global perspective students encourage to discuss the recent developments and problems in their field such as sustainability, innovative/creative design solutions for the psychology of users in different environments. Especially, new technological developments in the field of interior design are in the focus of education policy. In doing so, the Department of Interior Architecture and Environmental Design Department aims to be productive in using techniques of learning by doing.

The program focuses on the profession of interior architecture with its all dimensions. Lighting, material, acoustic, color and formal expressions of these elements in space are one of the focal points of the programme. Whereas the conceptual development in designing spaces by using these design elements is the major concern in educating students. On the other hand, psychological behaviours’ of the users in an environment are another essential concern of the program. In this context, students encouraged to deal with the social and cultural dimensions of interiors architecture.

Another important concern of the program is to encourage students to work and communicate with different disciplines that are influential in designing environments. In order to gain a wider perspective in their field, the other disciplines act an essential role in developing their communicational skills. Additionally programme aims to encourage students to develop academics researches within their fields and with the other disciplines.

Generally, the programme assures that students engaged with professional practice in their field and be aware of technological developments on their way to become an expert in interior architecture. Moreover, the programme offers an intensive global perspective in the field of Interior Architecture and Environmental Design.

Program Outcomes

Interior Architecture and Environmental Design Program Outcomes;

1. Develop a three-dimensional abstract perception of spaces, create knowledge in the light of theoretical, and conceptual theories about the profession and to transfer this knowledge to interior design.
2. In order to meet the functional requirements in the context of interior design and to produce solutions to the problems, to have knowledge about the material and production methods covered by the field and to have ability to use this knowledge.

3. To be able to use up-to-date information and communication technologies to present their projects.

4. Competence in expressing their ideas both in Turkish and in English.

5. To be able to put into practice the theoretical and abstract knowledge.


7. Develop the ability to work and communicate with different disciplines that are effective in space design processes.

8. To be able to produce design and suggestions by using basic, environmental and universal principles of design discipline.

9. Developing personal creativity and skills to convey creative thinking, perspectives and solutions.

10. To be able to perceive the relationship between environment and people with a multi-dimensional perspective and evaluate these relationships both in the dimension of physical and psychologic.

11. To be able to develop the projects as a part of an individual or a team by integrating each stage in a professional and participatory context.

12. Identify and criticize the relationship between human and built environment, social factors and ethical consciousness in interior design, and associate it with social factors, human behavior and cultural diversity.

Undergraduate Curriculum

Semester 1

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### Undergraduate Course Descriptions

**TINT 101**

*Studio I (Stüdyo I)*

The course includes two and three dimensional form-work exercises with the help of deductive and inductive methods in parallel with design principles and perception theories.

**TINT 102**

*Studio II (Stüdyo II)*

The course includes two and three dimensional form-work exercises with the help of deductive and inductive methods in parallel with design principles, colour and perception theories.

Pre-requisite: TINT 101

**TINT 111**

*Visual Communication Techniques I (Görsel İletişim Teknikleri I)*

The course includes, use of technical drawing tools and equipments, letter, line and drawing standarts according to their use, dimension, measure, scale types, geometry, basic geometric drawings, design.
TINT 112 (2+2+0) 3 Credits / 5 ECTS
Visual Communication Techniques II
(Görsel İletişim Teknikleri II)
The course includes, single and double escape perspective drawing, interior space perpective lectures/studies and practice, single furniture perpective lectures/studies and practice.
Pre-requisite: TINT 111

TINT 201 (2+8+0) 6 Credits / 11 ECTS
Studio III
(Stüdyo III)
Interior architecture design process as complex structuring of spatial experiences in relation to the concept of human scale and the physical properties of interior divisions.
Pre-requisite: TINT 102

TINT 202 (2+8+0) 6 Credits / 11 ECTS
Studio IV
(Stüdyo IV)
Development of design strategies based on fundamental interior architecture design components such as scenario/ program setting and materiality in a relatively small space.
Pre-requisite: TINT 201

TINT 212 (1+0+0) 1 Credit / 2 ECTS
Environmental Systems and Comfort
(Çevresel Sistemler ve Konfor)
Technical codes in building systems. Research and project implementation of building systems in project scale. Relations between building systems; electricity, air ventilation and water systems, design solutions with the understanding building systems. Comfort conditions in interior environments. Integrated systems and sustainability.

TINT 221 (2+0+0) 3 Credits / 5 ECTS
Culture and Theory I
(Kültür ve Kuram I)
Fundamental knowledge on the development of interior design thought and practices throughout the history up to the 21st century. Global examples of prominent interior architecture, environmental design and theories.

TINT 222 (2+1+0) 2 Credits / 5 ECTS
Culture and Theory II
(Kültür ve Kuram II)
Fundamental knowledge on the development of interior design thought and practices throughout the history up to the 21st century. Global examples of prominent interior architecture, environmental design and theories.
TINT 251 (3+0+0) 3 Credits / 5 ECTS
Construction and Materials
(Yapısal Sistem ve Malzeme)
Basic knowledge on the elements and components of buildings and structures. Fundamental principles of structural behaviors. Production of construction and material drawings like staircases and reflected ceiling.

TINT 301 (2+8+0) 6 Credits / 11 ECTS
Studio V
(Stüdyo V)
Multi-dimensional design problems concerning public and semi public interiors. Cultural, ecological, and social sustainability. Universal design principals.
Pre-requisite: TINT 202

TINT 302 (2+8+0) 6 Credits / 11 ECTS
Studio VI
(Stüdyo VI)
Pre-requisite: TINT 301

TINT 311 (3+0+0) 3 Credits / 5 ECTS
Model Making
(Model Yapımı)
Model making processes, industrial standards in model making, equipment, tools, materials.

TINT 312 (3+0+0) 3 Credits / 5 ECTS
Computer Graphics and Presentation Techniques I
(Bilgisayar Grafik ve Sunum Teknikleri I)
3D modeling and advanced multi-media presentation techniques.

TINT 313 (3+0+0) 3 Credits / 5 ECTS
Computer Graphics and Presentation Techniques II
(Bilgisayar Grafik ve Sunum Teknikleri II)
Advanced 3D modeling and advanced multi-media presentation techniques.

TINT 314 (3+0+0) 3 Credits / 5 ECTS
Color and Light
(Renk ve Işık)
Color theory, application of color and light in design in psychological, physiological, visual, aesthetic and technical aspects.
TINT 321 (3+0+0) 3 Credits / 5 ECTS
Culture and Theory III (Kültür ve Kuram III)
Post Modern era in interior design. Cultural changes and reflection on styles in interiors between Post Modern period and recent trends. The effects of today’s new technology culture on interior, furniture and materials.

TINT 322 (3+0+0) 3 Credits / 5 ECTS
Contemporary Issues in Interior Architecture (İç Mimarlıkta Çağdaş Söylemler)
Contemporary design theories and practices in the world and Turkey. Significant concepts in the discursive formations of the discipline and their reflections to the global practice.

TINT 331 (3+0+0) 3 Credits / 5 ECTS
Introduction to Industrial Design (İç Mekan Tasarımına Giriş)
Introductory concepts of object design with a strong emphasis on the form, material and production. Common applications of spatial design and object design.

TINT 332 (3+0+0) 3 Credits / 5 ECTS
Form in Arts, Architecture and Design (Sanat, Mimarlık ve Tasarında Biçim)
Compositional, visual and cultural aspects of form in arts, architecture and design throughout history.

TINT 372 (3+0+0) 3 Credits / 5 ECTS
Advanced Detailing (Üst Düzeyde Detaylandırma)
Building systems and materials. Modular interior systems. User-product relationships for safe and usable designs. Product and interface design in terms of human physics, human psyche and culture.

TINT 399 (0+0+0) 0 Credit / 2 ECTS
Summer Practice I: Construction Site (Yaz Stajı I: Üretim)
Summer training on an interior architecture construction site concerning production techniques of different scales. Minimum 30 work days.

TINT 401 (2+8+0) 6 Credits / 12 ECTS
Studio VII (Stüdyo VII)
Pre-requisite: TINT 302
TINT 402  
(Stüdyo VIII)  
Pre-requisite: TINT 401

TINT 421  
Theory of Design  
Introduction to interior design historiography. Theory, texts by scholars who have an important role in the creation of conceptualization and interpretation of basic concepts and perspectives in interior design.

TINT 464  
Interior Design, Environment and Sustainability  
Advanced issues in product design in relation to performance criteria. Performance analysis concerning processes of manufacturing and use.

TINT 466  
Contemporary Materials and Innovative Technologies  
New materials and innovative technologies for contemporary production, use and recycling processes.

TINT 499  
Summer Practice II: Design Office  
Summer training in a professional interior architecture/ architecture/ design office. The minimum duration of the summer practice is 30 work days.  
Pre-requisite: TINT 399
FACULTY OF ARTS AND SCIENCES
Dean’s Statement

Our faculty consists of four departments including 25 very qualified full time faculty members having a variety of research interests. They are all active scientists in their laboratories and in their fields. In addition to being efficient researchers, they also use innovative and active teaching methods with the aim of educating graduates attuned to the core values of the university.

Aside from being a traditional Faculty of Arts and Sciences, we provide a wide range of courses to all students of the university in an attempt to help them increase their intellectual flexibility, gain different perspectives, develop creative, critical and analytical thinking skills, express themselves competently in their verbal and written work, engage in team work and become skilled problem-solvers.

The English Language and Literature Department provides a curriculum for their students that will help them understand various literatures written in English and comparatively investigate current cultures. The program aims to train students for the next century who are able to understand both today’s and future’s world, to adjust themselves to the rapidly changing and complex conditions of the current system and to ultimately change and transform the world.

Graduates of the Mathematics Department gain a strong theoretical knowledge of mathematics as well as the necessary skills for its applications into other disciplines. Students educated under the high standards of TEDU can easily pursue their graduate studies and also can work in various public and private sectors with these skills.

Psychology students learn to ask complex and detailed questions with their acquired mental dexterity, to identify where and how to find answers to those questions, and to analyze their research results without losing sight of the big picture. These skills are consistent with the dynamic and interdisciplinary nature of the field of Psychology.

Sociology students will be able to enrich their education combining the theories and fieldwork of Sociological Sciences in a natural learning environment, due to the advantage of being in a city university located in the heart of Ankara. Sociology graduates will have sociological vision and be sensitive to social problems, and be able to think creatively and critically.

To be a student in one of our programs means to take part in a vivid and gratifying adventure including continuous learning, searching, discussing and spreading the knowledge via different mediums.

If you wish to experience this adventure and are considering one of our programs, we highly recommend familiarizing yourself with our departments, faculty members and programs by browsing our web pages.

Prof. Kezban Çelik, Deputy Dean
DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

Chair
Prof. Yusuf Eradam

Academic Staff
Prof. Yusuf Eradam, Asst. Prof. Ayşegül Kuglin, Asst. Prof. Taner Can, Melike İrem Şimşek*.  
* Research Assistant

Undergraduate Program in English Language and Literature

The aim of the department is to provide students with the knowledge, skills and competencies necessary to conduct interdisciplinary academic studies and research in the field of English literature and culture and to share their findings on national and international professional and social platforms.

In this context, the TED University English Language and Literature program aims to educate individuals who can follow the changing global dynamics with an ecological consciousness that is achieved from the literary and cultural texts they study and develop their research and studies by focusing on solving environmental and social problems.

Program Outcomes

Graduates of the English Language and Literature Department:

1. Are sufficiently knowledgeable about the English language, literature and culture.
2. Are sufficiently knowledgeable about literary genres, theories, concepts and terms.
3. Have the theoretical knowledge necessary to examine the canon and contemporary texts of English literature in the context of historical, social, cultural, economic, political and ecological backgrounds.
4. Have theoretical and practical knowledge about the systematic structure, functioning and transformations of the English language.
5. Are able to use analytical strategies in the process of independent thinking and evaluate the information they receive in order to produce new ideas and projects in critical and creative processes.
6. Can collect information and data through individual and / or group work on topics related to English language, literature and culture by using current information technology and research methods and techniques and share this information and data in national and international education and training environments and other professional settings.
7. Can examine literary and cultural texts in an interdisciplinary approach within the framework of contemporary theories.
8. Have the knowledge and skills necessary to teach subjects in English language, literature and culture in national and international settings.
9. Can competently translate texts from English to Turkish and Turkish to English by developing translation strategies for different types of texts.
10. Can perform independent research using problematical, creative and analytical thinking skills, solve problems, and express results using effective methods in national and international professional and social settings.
11. Adopt basic universal values and develop a non-prejudiced, respectful and open-minded attitude towards different languages, religions, gender and cultural identities.

12. Can impart the knowledge, communication skills, critical standpoint and flexibility acquired through the study of culture and literature to their professional and social lives.

13. Gain the ability to conduct scientific research, evaluate resources and write academic articles at the undergraduate level.

Undergraduate Curriculum

Semester 1

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Totals expected for graduation | 126 | 4 | 2 | 130 | 240 |
## Courses with Pre-requisites

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Undergraduate Course Descriptions

ELL 102 (3+0+0) 3 Credits / 7 ECTS
Introduction to Literature (Edebiyata Giriş)
Introduction to the main forms, principles and terms of literature. The main literary forms: poetry, drama, the short story and the novel, and concepts necessary for the study and evaluation of literary works throughout the undergraduate programme.
Pre-requisites: None

ELL 201 (3+0+0) 3 Credits / 7 ECTS
Survey of English Literature I (İngiliz Edebiyatına Giriş I)
Introduction to the main forms, principles and terms of literature. The main literary forms: poetry, drama, the short story and the novel, and concepts necessary for the study and evaluation of literary works throughout the undergraduate programme.
Pre-requisites: None

ELL 202 (3+0+0) 3 Credits / 8 ECTS
Survey of English Literature II (İngiliz Edebiyatına Giriş II)
The chronological study of English literature from the 19th century until the present. The English literary tradition in the context of various periods of history.
Pre-requisites: None

ELL 203 (3+0+0) 3 Credits / 8 ECTS
Mythology (Mitoloji)
The main characteristics and concepts of Greek and Roman as well as Christian and Norse mythology. Interpretations and transformations of these concepts in Western, especially English literature.
Pre-requisites: None

ELL 204 (3+0+0) 3 Credits / 7 ECTS
Introduction to Fiction (Roman ve Öyküye Giriş)
Close reading, interpretation and evaluation of selected works of fiction, with attention to their historical contexts, narrative elements, and critical theory.
Pre-requisites: None

ELL 205 (3+0+0) 3 Credits / 8 ECTS
Translation I (Çeviri I)
Close reading, interpretation and evaluation of selected works of fiction, with attention to their historical contexts, narrative elements, and critical theory.
Pre-requisites: None
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<td>Development of students' translation skills through various in-class activities.</td>
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<td>Methods and resources used for research in literary studies. Bibliographical and electronic resources. Central methodological issues within the field of literature studies. Diversity of methods and theories that characterizes literary criticism. Developing research questions and assessing the applicability and relevance of different research methods.</td>
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<td>A groundwork in the epic genre and an in-depth study of the literary hero in different literary forms and through the ages, beginning with the heroes of the epic tales of antiquity.</td>
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<td>Critical approaches in the field of cultural studies and their use in the analysis of selected literary texts and cultural products.</td>
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<td>The study of works of the most important English novelists of the 19th century with a critical eye within the context of the social and cultural values and changes of the period.</td>
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<td>Pre-requisite: ELL 204</td>
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ELL 302
Shakespeare I
(Shakespeare I)
A selection of Shakespeare's histories and comedies, the study of his dramatic and characterization techniques.
Pre-requisites: None

ELL 303
19th Century English and American Poetry
(19. Yüzyıl İngiliz ve Amerikan Şiiri)
Introduction of the basic themes and issues of the British romantics and the American transcendentalists. Their ideas, form and style. The characteristic features of the period of their productions and other facts forming the poems. Readings of the poems with ecological, environmental consciousness.
Pre-requisites: None

ELL 304
Modern and Contemporary English Poetry
(Modern ve Çağdaş İngiliz Şiiri)
Outstanding examples of poetry written in English from Britain, the USA and other English-speaking countries. Mainly modernist and post-modernist movements. Influence of world wars. Post-war movements. Symbolism, Confessional poetry etc.
Pre-requisites: None
Co-requisites: None

ELL 305
Science Fiction and Fantasy Literature
(Bilim Kurgu ve Fantastik Edebiyat)
Analysis of selected works of science fiction and fantasy literature in the framework of related genre theories.
Pre-requisites: None
Co-requisites: None

ELL 306
Violence and War Literature
(Şiddet ve Savaş Edebiyatı)
Study of experiences and effects of war through close reading and theories of memory and trauma in a historical context.
Pre-requisites: None
Co-requisites: None
ELL 307  
The Outsider in Literature  
(Edebiyatta Ayrıksı Kişiler)  
Sample readings from world literature in English. Character centered literary works and readers' reflections on everyday life. Analysis of people labelled as “outsiders, strangers, misfits, outcasts etc.” Discourse of hatred. Narrative techniques of awareness-raising against othering and antagonism.  
Pre-requisites: None  
Co-requisites: None

ELL 308  
Comparative Literature  
(Karşılaştırmalı Edebiyat)  
New literary and cultural approaches and ideas. Comparative analyses of English literary works and works from Western and Turkish literature in the framework of specific literary concepts, characters, styles and techniques.  
Pre-requisites: None  
Co-requisites: None

ELL 309  
Utopias/Dystopias  
(Ütopyalar/Distopyalar)  
Positive and negative fictional portrayals of societies. Study of examples of utopias and dystopias within the framework of their historical context and modern viewpoints, from the social and philosophical point of view.  
Pre-requisites: None  
Co-requisites: None

ELL 310  
Journey in Literature and Film  
(Edebiyatta ve Sinemada Yolculuk)  
The mythical journey of the hero. The road as a metaphor for life. Archetypal pattern in examples of literature and film. Change, metamorphosis and the formation of identity, culture and memory.  
Pre-requisites: None  
Co-requisites: None

ELL 311  
Gender Studies  
(Cinsiyet Araştırmaları)  
The concept of gender, the main ideas regarding this concept in history, literature and philosophy. Analysis of texts questioning the relationships of women with culture and society as well as examples of social gender inequality in areas like the media and law.  
Pre-requisites: None  
Co-requisites: None
ELL 312 (3+0+0) 3 Credits / 5 ECTS
Gothic (Gotik)
The Gothic in Western and English literature. Basic characteristics and examples of the Gothic, from
the beginnings in the 18th and 19th centuries to the various forms visible in different genres and
periods to the present.
Pre-requisites: None
Co-requisites: None

ELL 313 (3+0+0) 3 Credits / 5 ECTS
Green Literature (Yeşil Edebiyat)
Introduction to the literary theory known as green literature or ecocriticism. Analysis of selected
works of fiction from an ecocritical perspective.
Pre-requisites: None
Co-requisites: None

ELL 401 (3+0+0) 3 Credits / 5 ECTS
Contemporary Drama (Çağdaş Tiyatro)
Comparative study and analysis of the innovations brought to the stage by the 20th and the 21st
century examples of the British and American theatre. Expressionistic drama, realistic examples,
absurd, in yer face movement, fantastic drama and dark comedy.
Pre-requisites: None
Co-requisites: None

ELL 402 (3+0+0) 3 Credits / 6 ECTS
Shakespeare II (Shakespeare II)
The study of Shakespeare's most important tragedies. In-depth analyses of his dramatic technique.
Pre-requisites: ELL 201 and ELL 202
Co-requisites: None

ELL 403 (3+0+0) 3 Credits / 6 ECTS
Literary Theory (Yazınsal Eleştiri Kuramları)
A survey of contemporary literary theories and their application to literary texts. Awareness of literary
theory and its role in the interpretation of literary texts.
Pre-requisites: None
Co-requisites: None
ELL 404  (3+0+0) 3 Credits / 6 ECTS
Adaptations from the Page to the Screen
(Sayfadan Beyazperdeye Uyarlamalar)
Analysis and comparison of the narrative techniques of novels and stories and their film versions. Comparative and contrastive analysis of both works. Reasons behind the differences. Verbal and visual approaches and narrative techniques in both mediums.
Pre-requisites: None
Co-requisites: None

ELL 405  (3+0+0) 3 Credits / 7 ECTS
Literary Translation
(Yazınsal Çeviri)
Source language English translated into target language Turkish, and vice versa. Learners’ awareness raised to the form and style, to the semantic and linguistic subtleties of the source and target languages. In-class discussions of translations of poems, from short-stories, novels and examples of non-fiction. Students’ decision-making and alternative translations.
Pre-requisites: ELL 205 and ELL 206
Co-requisites: None

ELL 406  (3+0+0) 3 Credits / 8 ECTS
Graduation Project
(Mezuniyet Projesi)
A list of topics for the students. Topic selected. Every step monitored by the supervising professor. Research completed. Results and outcomes of research discussed by the student and professor. Student’s argumentation of his/her idea. Writing of a well-organized academic essay completed.
Pre-requisites: ENG 111 and ENG 112
Co-requisites: None

ELL 407  (3+0+0) 3 Credits / 6 ECTS
Modern and Contemporary Novel
(Modern ve Çağdaş Roman)
In-depth analyses of the works of the most important English novelists of the 20th within the context of the literary genres and traditions as well as the social and cultural changes of the period.
Pre-requisite: ELL 204
Co-requisites: None
DEPARTMENT OF MATHEMATICS

Chair
Assoc. Prof. Mehmet Onur Fen

Academic Staff

* Research Assistant
** Part Time

Undergraduate Program in Mathematics

Today, mathematics plays an important role in understanding and developing various fields of science. It is almost impossible to deliver solutions in many disciplines, particularly in engineering sciences, without using mathematical models and approaches. Mathematics is an indispensable part of the theoretical and practical backgrounds of various fields that will come into prominence in the near future, such as computational sciences, artificial intelligence, system analysis and data science. Our graduates will have the potential of contributing to academic and hypothetic studies in the light of theoretical knowledge acquired during undergraduate studies. In addition to this, they will have knowledge about different disciplines in which mathematics is utilised thanks to application skills that they will acquire.

The aim of the TED University Department of Mathematics is to provide an innovative interdisciplinary program in parallel with the developments in the modern world, without compromising the quality of mathematics education. Student-centered approach to teaching, modern teaching methods that encourage participation, secondary field that broadens students’ perspectives are only some of the distinctive qualities of our department.

Program Outcomes

Students graduating from TEDU Department of Mathematics will:

1. Have basic knowledge of mathematics.
2. Have the ability of mathematical thinking and causal reasoning.
3. Be able to follow scientific and popular publications on mathematics.
4. Have the ability to apply theoretical knowledge on mathematics into practice.
5. Be able to follow recent developments on mathematics at least in one foreign language.
6. Have the skills necessary to use computer software as required by mathematics.
7. Have the understanding of relationship of mathematics with other fields.
8. Have the ability to suggest mathematical approaches for individual or social issues.
9. Aim to improve their professional competence continuously and engage in life-long learning.
10. Have the ability to express their suggestions in written form or verbally for the problems in their field.
12. Be sensitive to social and environmental matters with social responsibility.
13. Have the ability to cooperate with colleagues and other related people on research projects and studies in their field.

**Undergraduate Curriculum**

### Semester 1

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Undergraduate Course Descriptions

MATH 100 (2+1+0) 0 Credit / 0 ECTS
Pre-Calculus
(Ön-Analiz)
This course is designed primarily for students who intend to take MATH 111 for EGE and GPC. Topics include fundamentals. Functions. Graphs of functions. Polynomial functions and their graphs. Complex numbers. Rational functions. Exponential functions. Trigonometric functions of real numbers.

MATH 101 (3+2+0) 4 Credits / 7 ECTS
Calculus of one variable
(Tek Değişkenli Analiz)

MATH 102 (3+2+0) 4 Credits / 7 ECTS
Multivariable Calculus
(Çok Değişkenli Analiz)

MATH 103 (3+0+0) 3 Credits / 5 ECTS
Mathematics for Education Majors
(Eğitim Bölümü için Matematik)

MATH 104 (3+0+0) 3 Credits / 5 ECTS
Mathematics II
(Matematik II)

MATH 105 (3+0+0) 3 Credits / 5 ECTS
Fundementals of Mathematics
(Matematiğin Temelleri)
MATH 106  
Discrete Mathematics  
(Ayrık Matematik)

Set Theory, Fundamentals of logic, Introduction to mathematical proof techniques, Fundamental principles of counting, Discrete probability, The Pigeonhole principle, Relations and Functions, Introduction to graph theory.

MATH 108  
Discrete Mathematics  
(Ayrık Matematik)


MATH 109  
Basic Calculus  
(Temel Analiz)


MATH 111  
Introduction to Calculus of One Variable  
(Tek Değişkenli Analize Giriş)


MATH 112  
Introduction to Multivariable Calculus  
(Çok Değişkenli Analize Giriş)

Techniques of Integration, Infinite Sums, Vectors in Plane and 3-Space, Lines and Planes in Space, Functions of Several Variables and Their Limits and Continuity, Partial Derivatives, Max-Mix Problems, Lagrange Multipliers, Double Integrals over Rectangular and More General Regions.

MATH 113  
Calculus I  
(Analiz I)

MATH 114 (3+1+1) 4 Credits / 7 ECTS
Calculus II
(Analiz II)

MATH 202 (3+0+0) 3 Credits / 5 ECTS
Linear Algebra
(Lineer Cebir)
Systems of Linear Equations, Matrices, Determinants, Euclidean and General Vector Spaces, Eigenvalues and Eigenvectors, Inner Product Spaces.

MATH 203 (3+0+0) 3 Credits / 5 ECTS
Linear Algebra and Differential Equations
(Lineer Cebir ve Türevsel Denklemler)

MATH 204 (3+0+0) 3 Credits / 5 ECTS
Vector and Complex Calculus
(Vektör ve Kompleks Analiz)

MATH 207 (3+0+0) 3 Credits / 6 ECTS
Analytic Geometry
(Analitik Geometri)

MATH 210 (0+0+4) 2 Credits / 4 ECTS
Numerical Methods in Engineering
(Mühendislikte Sayısal Yöntemler)
MATH 211 (4+0+0) 4 Credits / 7 ECTS
Advanced Calculus I
(İleri Analiz I)

MATH 212 (4+0+0) 4 Credits / 7 ECTS
Advanced Calculus II
(İleri Analiz II)

MATH 221 (3+0+0) 3 Credits / 6 ECTS
Linear Algebra I
(Lineer Cebir I)
Matrices and Linear Equations, Determinants, Vector Spaces, Linear Transformations.

MATH 222 (3+0+0) 3 Credits / 6 ECTS
Linear Algebra II
(Lineer Cebir II)
Eigenvalues and Eigenvectors, Elementary Canonical Forms, The Rational and Jordan Forms, Inner Product Spaces, Operators on Inner Product Spaces, Bilinear Forms.

MATH 230 (3+0+0) 3 Credits / 6 ECTS
Introduction to Probability Theory
(Olasılık Teorisine Giriş)

MATH 232 (3+0+0) 3 Credits / 6 ECTS
Introduction to Statistics
(İstatistik'e Giriş)

MATH 233 (3+1+0) 3 Credits / 5 ECTS
Statistics for Social Sciences
(Sosyal Bilimler için İstatistik)
MATH 240 (3+0+0) 3 Credits / 6 ECTS
Introduction to Probability and Statistics for Engineering
(Mühendislik için Olasılık ve İstatistğe Giriş)
Basic concepts of probability, Discrete and continuous random variables, their probability distributions, expected value, variance. Discrete probability distributions, Jointly distributed and independent Random Variables. Covariance and correlation. Sampling, estimation. Hypothesis Testing, Regression and ANOVA.

MATH 242 (3+0+0) 3 Credits / 6 ECTS
Differential Equations
(Diferansiyel Denklemler)

MATH 313 (4+0+0) 4 Credits / 7 ECTS
Real Analysis
(Reel Analiz)
Cauchy sequences, metric spaces, open and closed sets, completeness, continuity, compactness, uniform convergence, connectedness, Banach Fixed Point Theorem, Baire’s Theorem.

MATH 314 (4+0+0) 4 Credits / 7 ECTS
Complex Analysis
(Kompleks Analiz)
Algebra of Complex numbers; Polar and spherical representations; Functions of Complex variable: Limits, continuity, analyticity; Caucy- Riemann equations; Elementary complex functions: mapping by elementary functions; linear fractional transformations; Line integral; Cauchy’s theorem: Cauchy integral formula; Laurent series; Residue Theorem; Improper integrals.

MATH 321 (3+1+0) 3 Credits / 7 ECTS
Abstract Algebra I
(Soyut Cebir I)

MATH 322 (3+1+0) 3 Credits / 7 ECTS
Abstract Algebra II
(Soyut Cebir II)
MATH 331 (3+0+0) 3 Credits / 6 ECTS
Data Analytics (Veri Analizi)

MATH 352 (3+0+0) 3 Credits / 6 ECTS
Numerical Methods (Sayısal Yöntemler)
Introduction: conditioning, stability; Systems of Linear Equations; Linear Least Squares; Eigenvalue Problems; Nonlinear Equations; Interpolation; Numerical Integration and Differentiation.

MATH 401 (3+0+0) 3 Credits / 6 ECTS
Graph Theory (Çizge Teorisi)

MATH 402 (3+0+0) 3 Credits / 6 ECTS
Number Theory (Sayılar Teorisi)
The division algorithm, The greatest common divisor, The Euclidean algorithm, The fundamental theorem of arithmetic, Primes and their distribution. Basic properties of congruences, Divisibility tests, Linear congruence, Chinese remainder theorem, Fermat’s and Wilson’s Theorem, The greatest integer function, Euler’s phi-function, Euler’s Theorem, Applications to cryptography, Primitive roots, Reciprocity law.

MATH 408 (3+0+0) 3 Credits / 6 ECTS
Game Theory (Oyun Teorisi)

MATH 409 (3+0+0) 3 Credits / 6 ECTS
History of Mathematics (Matematik Tarihi)

MATH 411 (3+0+0) 3 Credits / 6 ECTS
Introduction to Functional Analysis (Fonksiyonel Analize Giriş)
MATH 435  
(3+0+0) 3 Credits / 6 ECTS
Probability Theory
(Olasılık Teorisi)

MATH 441  
(3+0+0) 3 Credits / 6 ECTS
Partial Differential Equations
(Kısmi Türevli Denklemler)
First order partial differential equations; Cauchy problem; Charpit’s method; Second order partial differential equations; Normal forms; Laplace, Poisson, Wave, and Heat equations; Separation Variables; Fourier series.

MATH 448  
(3+0+0) 3 Credits / 6 ECTS
Dynamical Systems
(Dinamik Sistemler)

MATH 450  
(3+0+0) 3 Credits / 6 ECTS
Numerical Solutions of Differential Equations
(Diferansiyel Denklemlerin Sayısal Çözümleri)
Numerical Solutions of ODEs: Initial Value Problems (linear multistep methods, Runge-Kutta methods); Boundary Value Problems for ODEs; Numerical Solutions of PDEs (hyperbolic, parabolic, elliptic PDEs): the shooting method, finite difference methods, finite element method (optional).

MATH 462  
(3+0+0) 3 Credits / 6 ECTS
Differential Geometry
(Diferansiyel Geometri)
Euclidean spaces and differential forms, frames, calculus on surfaces. Shape operators. Geodesics. Gaussian and mean curvatures.

MATH 464  
(3+0+0) 3 Credits / 6 ECTS
Introduction to Algebraic Geometry
(Cebirsel Geometriye Giriş)
MATH 471  (3+0+0) 3 Credits / 6 ECTS
Topology  
(Topoloji)

MATH 491  (3+0+0) 3 Credits / 6 ECTS
Senior Project  
(Bitirme Projesi)
Design and development of a project for a mathematics problem under the supervision of an academic advisor; submission of the results in the form of a project report and oral presentation.
DEPARTMENT OF PSYCHOLOGY

Chair

Assoc. Prof. Ilgın Gökler Danışman

Academic Staff


* Research Assistant

Undergraduate Program in Psychology

Psychology, as a science, has been changed dramatically in the past few decades evolving into a complex discipline with a broad range of sub disciplines and specialties. However, understanding of psychology and psychologist has not changed so much in public mostly referring and restricted to clinical psychologist whose specialization is on mental health problems and psychotherapy. Therefore the definition of psychology is now more important than ever. “Psychology is the study of the mental states and processes in order to understand the basic mechanisms and functions of perception, cognition, emotion, and behavior both at individual and social levels.” Since psychology covers a broad set of subjects that overlap with a number of disciplines from biological to social it is an interdisciplinary and integrated science.

Our program incorporates this new integrated and interdisciplinary science vision of psychology that enhance our research and instructional potential as well as opportunities that we offer to our students. In our curriculum, psychology students gain an advance understanding of subfields and also a strong scientific and research basis and related skills that prepare them both for practicing their knowledge and skills in a variety of professional contexts and for their graduate work in psychology and other related disciplines.

Program Outcomes

Students graduating from TEDU Department of Psychology will:

1. Have basic knowledge of psychological concepts, theories and methods in a comparative way and use this knowledge at different levels
2. Compare and contrast the psychology with other disciplines including identifying the potential contribution and limitation of psychology to interdisciplinary collaboration
3. Demonstrate psychological literacy in interpersonal and social problems
4. Be able to use analytical, critical and innovative thinking both to generate and interpret questions and hypothesis from psychological knowledge base
5. Achieve the knowledge in line with his/her purpose using the printed and electronic sources and evaluate both reliability of sources and suitability of information.
6. Take responsibility and initiative to create improvements and to generate solutions to the problems in professional domain.
7. Have basic measurement, assessment and interview skills to function in professional domain
8. Design and conduct basic psychology research in its all steps (data collection, data analysis, reporting etc.)
9. Keep curiosity and interest in his/her professional development and engage in life-long learning
10. Follow psychology literature and be able to share it using written and verbal communication skills both in Turkish and in English
11. Treat others with civility respecting for differences of individual (age, gender, ethnic identity, religion and sexual orientation) and cultural.
12. Be able to use required softwares, techniques and instruments in education, measurement, assessment and data analysis.
13. Be attentive to social and scientific values and professional codes of ethical conduct in all of his/her academic and professional activities.

**Undergraduate Curriculum**

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### Undergraduate Course Descriptions

**PSY 102**  
**General Psychology**  
(Genel Psikoloji)  
An overview of human behavior and mind including the nervous system, consciousness, learning, memory, development, emotion, psychopathology, society, and culture.  
Pre-requisites: None

**PSY 104**  
**Psychology**  
(Psikoloji)  
Definition of psychology and major areas of psychology (social, clinical, educational psychology, etc.); biological foundations of psychology; sensation and perception; growth and development; learning; memory; intelligence; personality and personality theories; abnormal behaviors; motivation; emotions; social influences on individuals.  
Pre-requisites: None  
(This course is offered as non-departmental elective)

**PSY 200**  
**Selected Topics in Psychology**  
(Psikolojide Seçme Konular)  
To introduce the students contemporary study or application fields of Psychology.  
Pre-requisite: PSY 102 or PSY 104

**PSY 202**  
**History of Psychology**  
(Psikoloji Tarihi)  
Philosophical roots of psychology as a scientific discipline. Social and economic factors influencing paradigm shifts in psychology. General aspects of psychophysics, structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, cognitive psychology, and biological psychology. Minorities in psychology. Future prospects of psychology as a scientific discipline.  
Pre-requisite: PSY 102

**PSY 203**  
**Research Methods I**  
(Araştırma Yöntemleri I)  
Theoretical knowledge of research methods and techniques in psychology, hypothesizing and sampling.  
Pre-requisite: PSY 102 or PSY 104
PSY 204  (2+2+0) 3 Credits / 7 ECTS
Research Methods II
(Araştırma Yöntemleri II)
Correlational and experimental designs. Issues related to control, reliability and validity in designing research. Basic issues in analyzing research results. Writing a research report.
Pre-requisite: PSY 203

PSY 206  (2+2+0) 3 Credits / 6 ECTS
Applied Research and Data Analysis
(Uygulamalı Araştırma ve Veri Analizi)
Describing and exploring data with R, multiple comparisons tests (factorial, multivariate, and repeated-measures ANOVA), correlation and linear regression, multiple linear regression, logistic regression.
Pre-requisite: MATH 233

PSY 207  (3+0+0) 3 Credits / 6 ECTS
Effective Writing in Psychology
(Piskolojide Etkili Yazım)
Pre-requisite: ENG 102

PSY 217  (3+0+0) 3 Credits / 6 ECTS
Experimental Psychology
(Deneysel Psikoloji)
An introduction to theoretical and experimental issues associated with sensory and perceptual experience. Theories and research, including behavioral and cognitive perspectives, and such topics as classical conditioning, operant conditioning, and social learning.
Pre-requisite: PSY 102 or PSY 104

PSY 221  (3+0+0) 3 Credits / 6 ECTS
Life-Span Development I
(Yaşam Boyu Gelişim I)
Principals and theories of life-span development. Physical, cognitive and socio-emotional development from prenatal period to adolescence with current research findings.
Pre-requisite: PSY 102 or PSY 104

PSY 222  (3+0+0) 3 Credits / 6 ECTS
Life-Span Development II
(Yaşam Boyu Gelişim II)
Physical, cognitive and socio-emotional development from adolescence to death based on life-span perspective.
Pre-requisite: PSY 221
PSY 232  
Social Psychology  
(Sosyal Psikoloji)  
The major topics and theoretical approaches of social psychology; persuasion and influence, attraction, friendship and helping others, aggression, attitude, motivation and prejudice.  
Pre-requisite: PSY 102 or PSY 104

PSY 240  
Traumatic Stress  
(Travmatik Stres)  
Introduction to the field of “trauma psychology”. Causes and consequences of traumatic stress. Psychosocial impacts of traumatic incidents such as natural or human-caused disasters, violence and abuse and life-threatening illnesses. Psychosocial interventions following disasters.  
Pre-requisite: PSY 102 or PSY 104

PSY 300  
Qualitative Research  
(Nitel Araştırma)  
Introduction to qualitative research. Ten fundamentals of qualitative research. Planning and designing qualitative research. Interactive data collection with interviews and focus groups. Textual data collection with surveys, stories, diaries, and secondary sources. Preparing audio data for analysis. Different analytic methods for qualitative analysis. Familiarisation and data coding as first analytic steps. Identifying, analyzing, and interpreting patterns across data. Quality criteria and techniques for qualitative research. Writing and communicating qualitative research.  
Pre-requisite: PSY 204

PSY 303  
Health Psychology  
(Sağlık Psikolojisi)  
Examine how biological, psychological, and social factors interact with and affect promoting good health and preventing illness, how effectively people cope with and reduce stress and pain, and recovery, rehabilitation, and psychosocial adjustment of patients with serious health problems.  
Pre-requisite: PSY 102 or PSY 104

PSY 308  
Testing and Measurement in Psychology  
(Psiikolojide Test ve Ölçme)  
The basic concepts related with measurement and testing and applications with certain measurement tools.  
Pre-requisite: PSY 102 or PSY 104

PSY 310  
Cognitive Psychology  
(Bilişsel Psikolojisi)  
Pre-requisite: PSY 102 or PSY 104
PSY 312
Biopsychology  
(Biyopsikoloji)
Pre-requisite: PSY 102

PSY 313
Evolutionary Psychology  
(Evrimsel Psikoloji)
Historical foundations, principals and research approaches of evolutionary psychology. Evolutionary psychological explanations for key psychological concepts such as cognition, emotion, bonding, parenting, group behavior, abnormal behaviors and culture from a comparative perspective. Proximate and ultimate causes underlying behaviors and cognitive skills.
Pre-requisite: PSY 102

PSY 314
Human Memory  
(İnsan Belleği)
Basic processes in human memory. Topics include interference theory, the short-term/long term memory distinction, semantic memory, working memory, sensory memory, autobiographical memory, amnesia, and implicit memory.
Pre-requisite: PSY 102 or PSY 104

PSY 315
Psychopharmacology  
(Psikofarmakoloji)
Principles of pharmacology. Endogenous neuroactive substances produced in the body and in the brain. Chemicals that are used in a therapeutic context to treat psychological disorders. Chemicals with psychotropic effects. Abused chemicals.
Pre-requisite: PSY 102 and PSY 312

PSY 316
Learning and Behavior  
(Öğrenme ve Davranış)
Pre-requisite: PSY 102

PSY 317
Sensation and Perception  
(Duyum ve Algı)
Pre-requisite: PSY 102
PSY 331 (3+0+0) 3 Credits / 6 ECTS
Industrial and Organizational Psychology
(Endüstri ve Örgüt Psikolojisi)
Definition and history of I/O Psychology, job analysis, job performance, job satisfaction and personnel selection.
Pre-requisite: PSY 102 or PSY 104

PSY 333 (3+0+0) 3 Credits / 6 ECTS
Intergroup Relations
(Gruplar Arası İlişkiler)
Providing an overview of the extant literature on intergroup relations; identifying broad range of topics, including various approaches on stereotyping, prejudice, discrimination, inequality, collective action, and intergroup conflict; applying intergroup concepts on social problems.
Pre-requisite: PSY 232 or PSY 104

PSY 334 (3+0+0) 3 Credits / 6 ECTS
Motivation and Emotion
(Motivasyon ve Duygu)
An overview of modern motivational theories and how they explain human cognition, affect, and behavior. Pre-requisites: PSY 102, PSY 104

PSY 337 (3+0+0) 3 Credits / 6 ECTS
Psychological, Social & Cultural Aspects of Disabilities
(Engelin Psikolojik Sosyal ve Kültürel Yönleri)
Psychological, sociological, and cultural perspectives in relation to the disability issue. Topics are theories and models related to disability, attitudes, adjustment, gender or sexuality with real life examples and case studies.
Pre-requisite: PSY 102 or PSY 104

PSY 338 (3+0+0) 3 Credits / 6 ECTS
Close Relationships
(Yakın İlişkiler)
Culture and relationships. Evolution and relationships. Neuroscience and relationships. Prosocial behavior, social support, child maltreatment, relational mobility, relational models, grief, perceived partner responsiveness, attachment. Core relationship principles.
Pre-requisite: PSY 232

PSY 340 (3+0+0) 3 Credits / 6 ECTS
Family Systems
(Aile Sistemleri)
Understanding of the family systems from a psychological framework with a particular focus on Systems Approach and Family Development Theory. Basic concepts and assumptions of Family Systems Theory. Stages of the family life cycle and patterns, processes and dynamics in each of these stages.
Pre-requisite: PSY 102 or PSY 104
PSY 341 (3+0+0) 3 Credits / 7 ECTS
Theories of Personality (Kişilik Kuramları)
Major personality theories, including psychoanalytic and learning theorists, trait theorists, social-learning theorists and humanists. Measurement and assessment of personality.
Pre-requisite: PSY 102 or PSY 104

PSY 342 (3+0+0) 3 Credits / 6 ECTS
Psychopathology (Psikopatoloji)
Distinguishes between normal behavior and psychological disorders such as stress disorders, anxiety problems and depression, schizophrenia, and addictive behaviors. Causes and treatments of psychological problems and disorders.
Pre-requisite: PSY 102

PSY 343 (3+0+0) 3 Credits / 6 ECTS
Clinical Psychology (Klinik Psikoloji)
Assessment of psychopathology, and approaches to the treatment of abnormal behavior. Emphasis is on current theory, research, issues in, and the role of clinical psychology in contemporary society.
Pre-requisite: PSY 102

PSY 400 (3+0+0) 3 Credits / 6 ECTS
Independent Study (Bireysel Çalışma)
Conducting a research project by applying following steps: literature review, forming hypothesis, designing the proposed study, analyzing its results and writing a formal paper.
Pre-requisite: PSY 102 or 104, Consent of the Course Instructor.

PSY 401 (3+0+0) 3 Credits / 6 ECTS
Introduction to Traffic Psychology (Trafik Psikolojisine Giriş)
Cognitive processes such as perception, attention, learning, memory, decision making and action control which are drawn upon when driving and how these processes are used and influenced in driving skill.
Pre-requisite: PSY 102 or PSY 104

PSY 402 (3+2+0) 4 Credits / 8 ECTS
Graduation Paper and Seminar (Mezuniyet Projesi ve Seminer)
Undertake an independent research. Gain and demonstrate proficiency in a strand of literature chosen by the student in collaboration with an advisor. Writing an analytical research paper. Presentation in written and oral form.
Pre-requisites: PSY 204 and MATH 232
PSY 404  
Forensic Psychology  
(Adli Psikoloji)
Understanding of the roles and responsibilities of mental health professionals within the justice system. Potential ethical challenges, as well as limits of privilege and confidentiality, police psychology and interrogation, decision making; and eyewitness testimony and false memories.
Pre-requisite: PSY 102 or PSY 104

PSY 412  
Special Topics in Autobiographical Memory  
(Otobiyografik Bellekte Özel Konular)
A detailed study of major theories in the area of autobiographical memory. Topics covered include functions of autobiographical memory, retrieval processes in autobiographical memory, memory and trauma, culture and autobiographical memory.
Pre-requisite: PSY 102 or PSY 104

PSY 413  
Current Topics in Cognitive Psychology  
(Bilişsel Psikolojide Çağdaş Konular)
A topical course which focuses on issues in cognitive psychology such as memory, judgment and decision making.
Pre-requisite: PSY 102

PSY 421  
Cognitive Development  
(Bilişsel Gelişim)
Basic concepts, theories, and experimental methods of cognitive development; critical experiments on developmental changes in perception, representation and memory.
Pre-requisites: PSY 102 and PSY 221

PSY 424  
Parenting and Child Development  
(Ana Babalık ve Çocuk Gelişimi)
Theoretical approaches to parenting, parent-child relations and the effects of parental behaviors in different developmental stages and cultural contexts.
Pre-requisite: PSY 102 or PSY 104

PSY 431  
Self and Culture  
(Benlik ve Kültür)
Influential theories of self-formation and functioning especially with respect to how the theories handle social interaction, culture and communication.
Pre-requisite: PSY 102 or PSY 104
PSY 432  
**Applied Social Psychology**  
(Uygulamalı Sosyal Psikoloji)  
Pre-requisite: PSY 232

PSY 434  
**Human Motivation**  
(İnsanda Motivasyon)  
Social-personality approaches to motivation with particular focus on goal-based and need-based theories.  
Pre-requisite: PSY 102 or PSY104

PSY 442  
**Developmental Psychopathology**  
(Gelişimsel Psikopatoloji)  
Examination of emotional and behavioral problems during the life span with an emphasize on childhood and adolescence using a developmentally orientated perspective as a theoretical framework.  
Pre-requisite: PSY 102

PSY 445  
**Selected Topics in Clinical Psychology**  
(Klinik Psikolojide Seçme Konular)  
A topical course which focuses on issues in clinical psychology.  
Pre-requisite: PSY 102

PSY 446  
**Interview Techniques**  
(Görüşme Teknikleri)  
The basic elements of interview process used in psychology, especially in clinical psychology.  
Pre-requisite: PSY 102

PSY 447  
**Clinical Testing and Assessment**  
(Klinik Testler ve Değerlendirme)  
A basic understanding of test instrument utilization in psychology practice and ethical testing standards. Designed to help familiarize students with the types of tests used, their usefulness and how to interpret the test results.  
Pre-requisite: PSY 102
PSY 448  
**Trauma Psychology**  
*(Travma Psikolojisi)*

Introduction to “trauma psychology” as a rapidly developing field. Causes and consequences of traumatic stress following various types of traumatic incidents such as natural or human-caused disasters, violence and abuse and life-threatening illnesses.

Pre-requisite: PSY 102 or PSY 104

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PSY 460  
**Ethics in Psychology**  
*(Psikolojide Etik)*

Examination and discussion the value of empirical evidence, tolerance of ambiguity, ethical behaviors and standards. Principles and regulations in the fields of psychology and acquisition of ethical behavior in clinical and research settings.

Pre-requisite: PSY 102 or PSY 104
DEPARTMENT OF SOCIOLOGY

Chair
Prof. Kezban Çelik

Academic Staff
Prof. Kezban Çelik, Asst. Prof. Aylin Çakıroğlu Çevik, Asst. Prof. Gülçin Con Wright, Özge Kızıl*.
* Research Assistant
** Part Time

Undergraduate Program in Sociology

Sociology, in its most classical terms, is the science of society. It takes group behaviours, social structures (like gender, race and ethnicity), social institutions (such as education, religion and economics) as its object of study. Apart from these macro structures, seemingly the most mundane, personal or unimportant issues can also be sociology’s objects of study, as they cannot be exempted from the social. Sociology always asks the “how” and “why” questions about these research topics. It shows that the most simple, basic and natural phenomena are actually socially constructed. Perhaps, these are times that we need sociology the most; because, everyday people witness in their everyday life increasing global conflicts, economic inequalities and environmental degradation. Sociology is an important discipline to understand and explain these macro changes, and possible changes that they create on individuals, groups and societies that experience them.

21st century labour market is changing very quickly in terms of being increasingly competitive, global and technologically driven. In this sense, expectations of the market from individuals has been expanding and varying. In this environment, the skills expected from individuals include creativity, innovative thinking, team-work and cooperation, communication skills, critical thinking, analytical problem solving, and advanced writing-presentation skills. TEDU Sociology, with English as its language of instruction and the equal importance it lays on theory and method, its liberal arts approach which offers students a wide range of courses from different disciplines, opportunity to pursue a secondary field and/or participate in the Erasmus Programme, is very capable of helping you acquire and develop skills in these areas.

Program Outcomes

Students graduating from TEDU Department of Sociology will:
1. Have basic knowledge of sociological concepts, theories and methods in a comparative way and use this knowledge at different levels.
2. Have knowledge and applications of sociological methods and applications.
3. Identify the sociology of science among other branches of science and its relations with other disciplines, and recognize mutual contributions and limitations.
4. Provides interdisciplinary knowledge of national and global issues that concern different societies.
5. From sociology knowledge accumulation can produce questions and hypotheses through analytical, critical and creative thinking, evaluate research findings.
6. Achieve the knowledge in line with his/her purpose using the printed and electronic sources and evaluate both reliability of sources and suitability of information.

7. Take responsibility and initiative to create improvements and to generate solutions to the problems in professional domain.

8. Have basic measurement, assessment and interview skills to function in professional domain.

9. Learn, analyze and explain the bases of qualitative and quantitative data collection methods.

10. Keep curiosity and interest in his/her professional development and engage in lifelong learning.

11. Follow sociology literature and be able to share it using written and verbal communication skills both in Turkish and in English.

12. Treat others with civility respecting for differences of individual (age, gender, ethnic identity, religion and sexual orientation) and cultural.

13. Be able to use required software, techniques and instruments in educational, measurement, assessment and data analysis.

14. Be attentive to social and scientific values and professional codes of ethical conduct in all of his/her academic and professional activities.

### Undergraduate Curriculum

#### Semester 1

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Undergraduate Course Descriptions

SOC 101  
Introduction to Sociology I  
(Sosyolojiye Giriş I)  
An introduction to the organizing themes and ideas, empirical concerns, and analytical approaches of the discipline of sociology.  
Pre-requisites: None

SOC 104  
Introduction to Sociology II  
(Sosyolojiye Giriş II)  
The course focuses on both classical and contemporary views of modern society, on the nature of community, and on inequality, with special attention to class, race, and gender.  
Pre-requisite: SOC 101

SOC 201  
Research Methods I  
(Araştırma Yöntemleri I)  
This course aims at providing the student with the basic tools of conducting research and writing papers in sociology. Throughout this course, students will gain experience by carrying out their own quantitative and qualitative research project.  
Pre-requisites: SOC 101, SOC 103

SOC 202  
Research Methods II  
(Araştırma Yöntemleri II)  
This course aims at providing the student with the basic tools of conducting research and writing papers in sociology. Throughout this course, students will gain experience by carrying out their own quantitative and qualitative research project.  
Pre-requisite: SOC 201

SOC 203  
Sociological Theories I: Classics  
(Sosyoloji Teorileri: Klasik I)  
An introduction to the study of the development of sociology as a discipline in the 19th and early 20th centuries.  
Pre-requisites: SOC 101, SOC 103

SOC 204  
Sociological Theories II: Classics  
(Sosyoloji Teorileri: Klasik II)  
A survey of the ideas of the major sociological theories of the 20th century, including Functionalism, Conflict Theory, Symbolic Interactionism, Ethnomethodology, Neo Marxism, Structuralism and Postmodernism.  
Pre-requisites: SOC 101, SOC 103
SOC 207 (3+0+0) 3 Credits / 6 ECTS
Qualitative Data Analysis
(Niceliksel Veri Analizi)
Hypothesis testing. Simple and multiple linear regressions. Correlation analysis. Elementary design of experiments.
Pre-requisites: SOC 101, SOC 104

SOC 210 (3+0+0) 3 Credits / 6 ECTS
Sociology of Family
(Aile Sosyolojisi)
This course examines the family as a social institution: the structure and types of family; economic, social and reproductive functions of the family; changing role of the family and social change; sexual division of labor within family; domestic labor; reproduction; patriarchy; child labor; kinship.
Pre-requisites: SOC 101, SOC 104 or SOC 103

SOC 211 (3+0+0) 3 Credits / 6 ECTS
Sociology of Education
(Eğitim Sosyolojisi)
This course introduces students to the sociology of education: the role of education in reinforcing or challenging social inequality, the effects of class, race/ethnicity and gender on educational experiences, the organization of educational institutions.
Pre-requisites: SOC 101, SOC 104 or SOC 103

SOC 212 (3+0+0) 3 Credits / 6 ECTS
Religion and Society
(Din ve Toplum)
This course introduces students to the sociology of religion: the different conceptualizations and definitions of religion, theoretical approaches to the role and function of religion in society, the relationship between religion and belief, secularization, ritual and modernity.
Pre-requisite: SOC 101 or SOC 103

SOC 220 (3+0+0) 3 Credits / 6 ECTS
New Media and Communication Studies
(Yeni Medya ve İletişim Çalışmaları)
This course provides an examination of mass communication theories with an emphasis on new social media. It includes discussions on the mass media of communication and their role as social institutions; content, audience and the effect of mass media, the functions of communications and new media in the formation of public opinion, social and cultural values.
Pre-requisite: SOC 101 or SOC 103

SOC 221 (3+0+0) 3 Credits / 6 ECTS
Economics and Society
(Iktisat ve Toplum)
This course provides an introduction to economic sociology. It examines economy as a social process and provides an analysis of how the interplay of economy and society can help us to understand questions of efficiency, questions of fairness, and questions of democracy.
Pre-requisite: SOC 101 or SOC 103
SOC 222 (3+0+0) 3 Credits / 6 ECTS
Migration in a Globalized World
(Küreselleşen Dünyada Göç)
This course covers the different forms, causes and consequences of international migration, with a particular attention to the impact of globalization including, the regulation of international migration by authorities at different levels, immigrant incorporation, assimilation in various social fields, including the labour market, education, politics and religion.
Pre-requisite: SOC 101 or SOC 103

SOC 223 (3+0+0) 3 Credits / 6 ECTS
New Social Movements
(Yeni Toplumsal Hareketler)
This course provides an examination of social movements and collective actions; theoretical perspectives in the analysis of social movements and collective actions, collective behaviour; resource mobilization; political process; and new social movements; feminist, environmental, anti-nuclear, anti-globalization movements.
Pre-requisite: SOC 101 or SOC 103

SOC 224 (2+2+0) 3 Credits / 6 ECTS
Social Anthropology
(Sosyal Antropoloji)
This course examines some of the central conceptual and methodological issues in social anthropology. Theories of culture and social structure; examination of major human institutions (kinship, economic, political and religious) in cross-cultural perspective.
Pre-requisites: SOC 101, SOC 104

SOC 301 (3+0+0) 3 Credits / 6 ECTS
Sociological Theories: Contemporary Sociology
(Sosyoloji Teorileri: Çağdaş)
This course aims to acquaint students with the main schools of modern sociological theory. Students will scrutinize salient concepts and key thinkers. They will learn how sociological theory is relevant to understanding modern life.
Pre-requisite: SOC 203

SOC 302 (2+2+0) 3 Credits / 6 ECTS
Development of Sociology in Turkey
(Türkiye'de Sosyolojinin Gelişimi)
A survey of the development of sociological thinking in Turkey from the late19th to the early 21st centuries: Major figures and texts; main theoretical perspectives, topics, themes, and problems; major traditions, orientations, and politics in the development of sociological thought in Turkey.
Pre-requisites: SOC 101, SOC 104
SOC 303 (3+0+0) 3 Credits / 6 ECTS
Urban Sociology
(Kent Sosyolojisi)
This course offers an introduction to a wide range of topics associated with urban sociology. Sociologists study social organization and culture of cities and their surrounding regions.
Prerequisites: SOC 101, SOC 104

SOC 304 (3+0+0) 3 Credits / 6 ECTS
Demography and Society
(Demografi ve Toplum)
This course focuses on the examination of major studies on the social causes and consequences of demographic processes.
Pre-requisite: SOC 104

SOC 310 (3+0+0) 3 Credits / 6 ECTS
Welfare and Social Policy
(Refah ve Sosyal Politika)
This course surveys the history, theory and application of welfare services and social policy services. Social policy and its effect on welfare and equality is examined with respect to ethnicity, gender, religion and education.
Pre-requisites: SOC 101, SOC 104 or SOC 103

SOC 311 (3+0+0) 3 Credits / 6 ECTS
Youth Sociology
(Gençlik Sosyolojisi)
This course will explore the social and cultural construction of youth in contemporary societies. Major themes will include: cultural and legal socialization of youth, crime and deviance, health and sexuality, employment and educational outcomes, and political behavior/civic engagement.
Pre-requisites: SOC 101, SOC 104 or SOC 103

SOC 312 (3+0+0) 3 Credits / 6 ECTS
Sociology of Secularity
(Sekülerlik Sosyolojisi)
This course examines secularity, different manifestations of secularity; secular social and political movements, secularization, the meaning of secularity, everyday life and secularity, gender, ethnicity and secularity.
Pre-requisite: SOC 212

SOC 320 (3+0+0) 3 Credits / 6 ECTS
Cultural Turn and Consumption
(Kültürel Dönüş ve Tüketim)
An examination of sociology of consumption in light of the cultural turn, with emphasis on the micro- interactions of everyday life and larger-scale social patterns and trends. Consumption and economic and political systems, social categorization, group membership, identity, stratification and social status. Pre-requisites: SOC 101, SOC 104 or SOC 103
SOC 321 (3+0+0) 3 Credits / 6 ECTS
Sociology of Old Age
(Yaşlılık Sosyolojisi)
This course examines aging from a sociological perspective covering the prominent sociological
theories in the field of aging. The social construction of old age and experiences of ageing,
discrimination against the old, old age and gender.
Pre-requisites: SOC 101, SOC 104, or SOC 103

SOC 322 (3+0+0) 3 Credits / 6 ECTS
Globalization and Multiculturalism
(Küreselleşme ve Çok Kültürlülük)
This course examines the main concepts and issues regarding globalization and multiculturalism,
including culture, ethnic identity, national grouping, multicultural civic society, nation state and
globalization, citizenship and multiculturalism, essentialism and multiculturalism, gender and
multiculturalism.
Pre-requisites: SOC 101, SOC 104 or SOC 103

SOC 323 (3+0+0) 3 Credits / 6 ECTS
Social Change
(Toplumsal Değişme)
Examination of the content and context of major theories of social change and development.
Evaluation of the relevance of these theories to historical experience in different world regions.
Pre-requisites: SOC 304, SOC 301

SOC 401 (3+2+0) 4 Credits / 8 ECTS
Graduation Project and Seminar I
(Araştırma Projesi ve Seminer I)
The project will be based in a research context chosen by the student within which the project is
developed, executed and evaluated. Students will become familiar with current trends in qualitative
research methodologies.
Pre-requisites: SOC 201, SOC 203

SOC 402 (3+2+0) 3 Credits / 8 ECTS
Graduation Project and Seminar II
(Araştırma Projesi ve Seminer II)
The project will be based in a research context chosen by the student within which the project is
developed, executed and evaluated. Students will become familiar with current trends in qualitative
research methodologies.
Pre-requisites: SOC 201, SOC 203

SOC 403 (3+0+0) 3 Credits / 6 ECTS
Social Inequality and Mobility
(Toplumsal Eşitsizlikler ve Hareketlilik)
This course reviews contemporary approaches to understanding social inequality and mobility and
the processes by which it comes to be seen as legitimate, natural, or desirable.
Pre-requisites: SOC 203, SOC 204
SOC 404  
Sociology of Work  
(Çalışma Sosyolojisi)  
A social structural approach to the study of organizations emphasizing such issues as the role of technology in determining organizational structure; interrelations between size, complexity and formalization in organizational networks; impact of large-scale organizations on the structure of modern societies.  
Pre-requisites: SOC 104, SOC 203

SOC 405  
Advanced Qualitative Data Analysis  
(İleri Niteliksel Veri Analizi)  
The course provides an introduction to the use of qualitative data analysis, an overview of the basic functions of qualitative (such as Maxqda) technique and program and how it can be utilized in qualitative social research.  
Pre-requisites: SOC 201, SOC 207, SOC 202

SOC 410  
Poverty, New Poverty and The Precariat  
(Yoksulluk, Yeni Yoksulluk ve Prekarya)  
This course examines poverty from a sociological perspective in light of the recent developments in the field; the emergence of the precariat and conceptualizations of new poverty.  
Pre-requisites: SOC 101, SOC 104, or SOC 103

SOC 411  
Labour, Employment and Gender  
(Emek, Çalışma ve Toplumsal Cinsiyet)  
This course provides sociological perspectives on the effects of gender on labour, work and employment. With an emphasis on gender, it introduces theoretical perspectives on inequality; social class at work; women in the labour market; gender and its relation to race and ethnicity, occupational segregation; immigrant employment; trade unions.  
Pre-requisites: SOC 101, SOC 104, or SOC 103

SOC 413  
Medicalisation and Health Sociology  
(Medikalizasyon ve Sağlık Sosyolojisi)  
An examination of the sociology of health and medicalization. Key thematic areas of inquiry include: medicine as an institution; power; the social, political and cultural parameters that shape health and illness experiences and health inequalities; mental health/illness, disability, gender and reproductive technologies, pharmaceuticals.  
Pre-requisites: SOC 103, SOC 104
SOC 414 (3+0+0) 3 Credits / 6 ECTS
The Social Structure of Turkey
(Türkiye’nin Toplumsal Yapısı)
This course provides an analysis of Turkey’s social structure with an emphasis on current issues related to social and cultural change in Turkey, and their relationship to world-wide phenomena.
Pre-requisites: SOC 103, SOC 104

SOC 415 (3+0+0) 3 Credits / 6 ECTS
Urban Ethnography
(Kent Etnografisi)
The course considers the role of ethnography on how we understand cities. We will look in detail at different types of ethnography and compare with other means of representing the city. Specific themes will cover the urban flâneur and ethnographer, street ethnography, culture of poverty and marginality; infrastructure and mobility; violence and slums.
Pre-requisites: SOC 304

SOC 420 (3+0+0) 3 Credits / 6 ECTS
Current Issues and Problems in Sociology
(Sosyolojide Güncel Konular ve Sorunlar)
This course examines some of the most prominent issues and problems in sociology.
Pre-requisite: SOC 301

SOC 421 (3+0+0) 3 Credits / 6 ECTS
Power, Inequality and Social Classes
(Güç, Eşitsizlik ve Toplumsal Sınıflar)
This course focuses on power, inequality and their relation to social classes. The goals of the course are to understand how inequality is conceptualized and measured in the social sciences, to understand the structure of inequality and to understand the forces that both produce and inhibit intergenerational social mobility.
Pre-requisites: SOC 103, SOC 104

SOC 422 (3+0+0) 3 Credits / 6 ECTS
Race and Ethnicity
(Irk ve Etnisite)
The course examines major topics, theoretical definitions/debates and approaches in the field of race and ethnicity, including the formation and dynamics of ethnic groups, the social construction of race in the contemporary World, the relationship of race and ethnicity with nations, state, class, minority groups, gender, power, and politics.
Pre-requisite: SOC 103

SOC 423 (2+2+0) 3 Credits / 6 ECTS
Gender and Sexuality
(Toplumsal Cinsiyet ve Cinsellik)
This course examines gender and sexuality in relation to modern societies, including our rapidly changing attitudes towards sex and our understanding of masculine, feminine and intersex identities, by relating the study of gender and sexuality to religion, class, ethnicity and family.
Pre-requisite: SOC 104
FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES
Dean’s Statement

At Faculty of Economics and Administrative Sciences (FEAS), you’ll gain deep knowledge about individuals, organizations, societies, and cultures to help solve the most pressing issues of the day. The Faculty houses three undergraduate programs, Business Administration, Economics, Political Science and International Relations to help you focus on your interests. Whatever program you choose, you’ll become a critical thinker, with a holistic perspective challenging the status quo.

The medium of instruction in all degree programs at FEAS is English. In line with the pedagogical goals of TED University, all programs incorporate interactive learning methods into their educational strategy. The employment of active learning techniques will bring about a significant shift in the learning process through enhanced student participation.

We invite you to passionate debates with your classmates and professors; unconventional classes that change the way you think; variety of multidisciplinary secondary fields you can choose and opportunities to encounter real-world issues and develop and propose cutting-edge solutions. This is what it means to study as an undergraduate at FEAS in TED University. You’ll receive a dynamic, well-rounded education that will prepare you for a career and for life.

This catalog will help you to explore our programs, courses through which you will get a better idea about our teaching philosophy.

Prof. Aslihan SALIH, Dean
DEPARTMENT OF BUSINESS ADMINISTRATION

Chair
Assoc. Prof. İbrahim Ünalmış

Academic Staff

* Research Assistant

Undergraduate Program in Business Administration

TED University Business Administration Department provides students with skills necessary to evaluate and respond to economic, political, ethical, legal and regulatory aspects of an increasingly changing global business climate together with a sound business education built on strong theoretical foundations.

Students of the department develop a deep understanding of the complexity and multiplicity of management processes in competitive environments through their education based on a strong social sciences foundation and practical applications of management discipline.

Our graduates are expected to demonstrate competency in business knowledge, communication skills, innovative and critical thinking, personal and social responsibility and differentiate themselves in competitive business environments.

Program Outcomes

TED University Business Administration Program graduates are expected to achieve the following learning outcomes:

1. Demonstrate knowledge of major concepts, theories and applications in the area of business administration.
2. Manage business decision-making processes by using quantitative and qualitative tools and information technology.
3. Evaluate how economic, legal, political, social, technical and competitive forces (local, regional, global) impact business practice.
4. Use the English language proficiently in knowledge sharing and professional communication.
5. Develop quality documents and make presentations that exhibit competence in content, organization and clarity.
6. Articulate ways to turn situations and problems into business or personal opportunities.
7. Formulate solutions to complex problems individually and in interdisciplinary teams using creative thinking, team building and leadership skills.
8. Identify ethical issues in business administration and implement social, scientific and professional codes of ethical conduct.
9. Recognize and appreciate different cultures and respect individual and cultural differences.
10. Engage in lifelong learning and enrich personal, social, professional development by exploring interests in diverse disciplines.
11. Practice good working habits, time management, and self-discipline.
## Undergraduate Curriculum

### Semester 1

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Totals expected for graduation: 127 10 2 134 240
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<td>BA 304 Corporate Finance</td>
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<td>BA 400 Summer Practice II</td>
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<td>BA 406 Market Data Analysis</td>
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<td>BA 410 Independent Research</td>
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<td>BA 411 Auditing and Financial Statement Analysis</td>
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<td>BA 414 Financial Statements of Banking Sector</td>
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<td>BA 420 Business Simulation and Strategic Decisions</td>
<td>BA 301 and BA 304 and BA 305</td>
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<td>BA 421 Strategic Management</td>
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<td>BA 422 Creativity and Entrepreneurship Experience</td>
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<td>BA 424 Investment Analysis</td>
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<td>BA 428 Marketing of Financial Product and Service</td>
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<td>BA 432 Risk Management</td>
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<td>BA 434 Financial Econometrics</td>
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<td>BA 441 International Finance</td>
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<td>BA 442 International Marketing</td>
<td>BA 301</td>
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<td>BA 454 Mergers and Acquisitions</td>
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<td>BA 462 New Product Development</td>
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<td>BA 463 Marketing Research</td>
<td>MATH 232 &amp; BA 301</td>
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<td>BA 464 Brand Management</td>
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<td>BA 466 Advertising</td>
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<td>BA 467 Retailing</td>
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<td>BA 471 Cost Benefit Analysis</td>
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<td>BA 474 Facilities Planning and Design</td>
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<td>BA 482 Corporate Governance</td>
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Undergraduate Course Descriptions

BA 110 (3+0+0) 3 Credits / 5 ECTS
Introduction to Business and Entrepreneurship
(İşletmeye ve Girişimciliğe Giriş)

BA 201 (3+0+0) 3 Credits / 6 ECTS
Fundamentals of Business
(İşletmeciliğin Temelleri)

BA 202 (3+0+0) 3 Credits / 6 ECTS
Management Science
(Yönetim Bilimi)
Mathematical modeling techniques of managerial problems. Linear programming. Integer programming. Sensitivity analysis. Project management. Multi-criteria decision making techniques. Pre-requisite: MATH 102 or MATH 112

BA 203 (3+0+0) 3 Credits / 6 ECTS
Financial Accounting
(Finansal Muhasebe)

BA 204 (3+0+0) 3 Credits / 6 ECTS
Organizational Behavior
(Örgütsel Davranış)

BA 220 (3+0+0) 3 Credits / 6 ECTS
Fundamentals of Entrepreneurship
(Girişimciliğin Temelleri)
Principles of entrepreneurship, ecosystems, mentorship, networking, business ideation. Access to funding, business modeling.

BA 281 (3+0+0) 3 Credits / 6 ECTS
Turkish Tax System
(Türk Vergi Sistemi)
BA 282 (3+0+0) 3 Credits / 6 ECTS
Business Ethics
(İşletme Etiği)
Concept of business ethics at individual and organizational level. Ethical awareness. Business ethics' impact on decision making processes and global economy. Conflict resolution models.

BA 300 (1+0+0) 1 Credits / 2 ECTS
Summer Practice I
(Yaz Stajı I)
Minimum 20 business days of summer internship that students are required to complete in order to gain work experience in economics.

BA 301 (3+0+0) 3 Credits / 6 ECTS
Principles of Marketing
(Pazarlama İlkeleri)

BA 302 (3+0+0) 3 Credits / 6 ECTS
Business Law
(Ticaret Hukuku)

BA 303 (3+0+0) 3 Credits / 6 ECTS
Managerial Accounting
(Yönetim Muhasebesi)
Pre-requisite: BA 203

BA 304 (3+0+0) 3 Credits / 6 ECTS
Corporate Finance
(Şirketler Finansmanı)
Pre-requisite: BA 202 or IE 222

BA 305 (3+0+0) 3 Credits / 6 ECTS
Production and Operations Management
(Uretim ve Operasyonlar Yönetimi)
Pre-requisite: BA 202
BA 322 (3+0+0) 3 Credits / 6 ECTS
New Enterprises (Yeni Girişimler)

BA 342 (3+0+0) 3 Credits / 6 ECTS
International Business (Uluslararası İşletme)

BA 400 (1+0+0) 1 Credits / 2 ECTS
Summer Practice II (Yaz Stajı II)
Minimum 20 business days of internship at a company or institution during which students gain work experience in business administration. Preparing a report that compares the internship with previous internship(s).
Pre-requisite: BA 300

BA 401 (3+0+0) 3 Credits / 7 ECTS
Research Methods (Araştırma Yöntemleri)
Pre-requisites: Minimum senior standing

BA 402 (3+0+0) 3 Credits / 7 ECTS
Graduation Paper and Seminar (Mezuniyet Projesi ve Seminer)
Undertake an independent research. Gain and demonstrate proficiency in a strand of literature chosen by the student in collaboration with an advisor. Writing an analytical research paper. Presentation in written and oral form.
Pre-requisite: BA 401

BA 406 (3+0+0) 3 Credits / 6 ECTS
Market Data Analysis (Piyasa Veri Analizi)
Building fundamental understanding and monitoring skills for economic and financial market data. Use of major domestic and international economic and financial market data sources. Assessing international financial structure by analysing sovereign, FX, equity, commodity, and industry market data. Data handling and analysis in MS Excel.
Pre-requisite: BA 304
BA 407  
Management Information Systems  
(Yönetim Bilişim Sistemleri)  

BA 410  
Independent Research  
(Bağımsız Araştırma)  
Independent research. Literature review. Data Analysis. Writing an analytical research paper. Presentation in written and oral form.  
Pre-requisite: BA 401

BA 411  
Auditing and Financial Statement Analysis  
(Denetim ve Finansal Tablolar Analizi)  
Pre-requisite: BA 304

BA 413  
Valuation and Financial Statement Analysis  
(Değerleme ve Finansal Tablolar Analizi)  
Pre-requisite: BA 304

BA 414  
Financial Statements of Banking Sector  
(Bankacılık Sektörü ve Temel Finansal Tablolar)  
Pre-requisite: BA 203

BA 415  
Technology Development and Entrepreneurship  
(Teknoloji Geliştirme ve Girişimcilik)  
BA 420 (3+0+0) 3 Credits / 6 ECTS
Business Simulation and Strategic Decisions
( Yönetim Simulasyonu ve Stratejik Kararlar)
Decision making using knowledge of management, marketing, operations, finance, production, internal and external analysis, business simulation, strategy development, business scenarios, competition, team-work. Pre-requisites: BA 301 and BA 304 and BA 305

BA 421 (3+0+0) 3 Credits / 6 ECTS
Strategic Management
( Yönetim Stratejileri)
Pre-requisite: BA 201

BA 422 (3+0+0) 3 Credits / 6 ECTS
Creativity and Entrepreneurship Experience
( Yaratıcılık ve Girişimcilik Deneyimi)
Pre-requisite: BA 201

BA 423 (3+0+0) 3 Credits / 6 ECTS
Women and Entrepreneurship
( Kadın ve Girişimcilik)

BA 424 (3+0+0) 3 Credits / 6 ECTS
Investment Analysis
( Yatırım Analizi)
Pre-requisite: BA 304

BA 425 (3+0+0) 3 Credits / 6 ECTS
Entrepreneurship in Turkey
( Türkiye’de Girişimcilik)
BA 427 (3+0+0) 3 Credits / 6 ECTS
Global Economic and Financial Analysis (Küresel Ekonomik ve Finansal Analiz)
The theory and policy of the contemporary global economics. Theories of international economics (i.e. on international trade, finance and growth). Latest empirical research and trends of economic development.

BA 428 (3+0+0) 3 Credits / 6 ECTS
Marketing of Financial Product and Service (Finansal Ürün ve Hizmetlerin Pazarlaması)
Pre-requisites: BA 301 and BA 305 and BA 304

BA 430 (3+0+0) 3 Credits / 6 ECTS
Customer Development and Prototyping for Entrepreneurs (Girişimciler için Müşteri Geliştirme ve Prototiplendirme)

BA 431 (3+0+0) 3 Credits / 6 ECTS
Financial Markets and Institutions (Finansal Piyasalar ve Kurumlar)
Structure of financial markets and financial intermediaries. Central banking system. Monetary policy. Securities markets. Institutional investors such as investment banks, insurance companies and mutual funds.

BA 432 (3+0+0) 3 Credits / 6 ECTS
Risk Management (Risk Yönetimi)
Pre-requisite: BA 304

BA 434 (3+0+0) 3 Credits / 6 ECTS
Financial Econometrics (Finansal Ekonometri)
Pre-requisites: BA 304 and ECON 332
BA 441 (3+0+0) 3 Credits / 6 ECTS
International Finance
(Küresel Finans)
Pre-requisite: BA 304

BA 442 (3+0+0) 3 Credits / 6 ECTS
International Marketing
(Uluslararası Pazarlama)
Pre-requisite: BA 301

BA 443 (3+0+0) 3 Credits / 6 ECTS
Global Entrepreneurship
(Küresel Girişimcilik)

BA 444 (3+0+0) 3 Credits / 6 ECTS
Doing Business in EU
(AB’de İş Yapma)
European Union as a place to do business. Competition policy. Common external trade policies. Shared responsibilities of the EU and national governments for policies concerning financial services and investment.

BA 451 (3+0+0) 3 Credits / 6 ECTS
Human Resource Management
(İnsan Kaynakları Yönetimi)

BA 452 (3+0+0) 3 Credits / 6 ECTS
Managing and Leading
(Yönetim ve Liderlik)
Basic concepts of leadership. Motivation from the management perspective. Basic leadership and motivation theories. Applicability of these theories to management practices.

BA 453 (3+0+0) 3 Credits / 6 ECTS
Organization Theory
(Örgüt Teorisi)
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<td>BA 457</td>
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<td>Capital market institutions, instruments, and rules, and their real time applications globally/locally. Industry-specific trends in capital markets. Theoretical/empirical fundamentals of pricing in capital markets</td>
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<td>Brand and brand management. Brand management process. Factors affecting the brand management process. Sample brand management cases. Brand management plan. Pre-requisite: BA 301</td>
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<td>BA 465</td>
<td>Social Media Marketing</td>
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<td>(Sosyal Medya Pazarlama)</td>
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<td></td>
<td>Social media marketing techniques. Consumer behavior in social media. Social media applications: Social networking sites, blogs, online communities, rapid sharing systems and podcasts. Pre-requisite: BA 301</td>
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BA 466 (3+0+0) 3 Credits / 6 ECTS
Advertising (Reklamcılık)
Pre-requisite: BA 301

BA 467 (3+0+0) 3 Credits / 6 ECTS
Retailing (Perakendecilik)
Pre-requisite: BA 301

BA 471 (3+0+0) 3 Credits / 6 ECTS
Cost Benefit Analysis (Fayda Maliyet Analizi)
Pre-requisite: BA 303

BA 472 (3+0+0) 3 Credits / 6 ECTS
Supply Chain Management (Tedarik Zinciri Yönetimi)
Pre-requisite: BA 305

BA 473 (3+0+0) 3 Credits / 6 ECTS
Project Management (Proje Yönetimi)

BA 474 (3+0+0) 3 Credits / 6 ECTS
Facilities Planning and Design (Tesis Planlama ve Tasarımı)
Pre-requisites: BA 202 and IE 232
BA 475 (3+0+0) 3 Credits / 6 ECTS
Innovation Management
(Yenilik Yönetimi)

BA 476 (3+0+0) 3 Credits / 6 ECTS
Quality Management
(Kalite Yönetimi)
Pre-requisite: BA 305

BA 477 (3+0+0) 3 Credits / 6 ECTS
Inventory Management
(Envanter Yönetimi)
Pre-requisite: BA 305

BA 478 (3+0+0) 3 Credits / 6 ECTS
Operations Research
(Yöneylem Araştırması)
Pre-requisite: BA 202

BA 479 (3+0+0) 3 Credits / 6 ECTS
Decision Analysis
(Karar Analizi)
Pre-requisite: BA 202

BA 480 (3+0+0) 3 Credits / 6 ECTS
Contemporary Commercial Banking
(Çağdaş Ticari Bankacılık)
BA 482  
Corporate Governance  
(Kurumsal Yönetişim)  
Internal and external control systems within an organization. Managerial duties and responsibilities. The role of boards. Aligning management and stakeholder interests. Corporate social responsibility.  
Pre-requisite: BA 204

BA 490  
Blockchain Applications for Financial Markets  
(Finansal Piyasalar için Blockchain Uygulamaları)  

Graduate Course Descriptions

BA 501  
Game Theory  
(Oyun Kuramı)  

BA 502  
Business Law and Ethics  
(Ticaret Hukuku ve Etik)  

BA 503  
Financial and Managerial Accounting  
(Finans ve Yönetim Muhasebesi)  

BA 504  
Financial Management  
(Finans Yönetimi)  
BA 506 (3+0+0) 3 Credits / 7.5 ECTS
Market Data Analysis (Piyasa Veri Analizi)
Building fundamental understanding and monitoring skills for economic and financial market data. Use of major domestic and international economic and financial market data sources. Assessing international financial structure by analysing sovereign, FX, equity, commodity, and industry market data. Data handling and analysis in MS Excel.

BA 507 (3+0+0) 3 Credits / 7.5 ECTS
Management Information Systems (Yönetim Bilşim Sistemleri)

BA 515 (2+2+0) 3 Credits / 7.5 ECTS
Technology Development and Entrepreneurship (Teknoloji Geliştirme ve Girişimcilik)

BA 518 (3+0+0) 3 Credits / 7.5 ECTS
Managerial Accounting (Yönetim Muhasebesi)

BA 520 (3+0+0) 3 Credits / 7.5 ECTS
Business Simulation and Strategic Decisions (Yönetim Simülasyonu ve Stratejik Kararlar)
Decision making using knowledge of management, marketing, operations, finance, production, internal and external analysis, business simulation, strategy development, business scenarios, competition, team-work.

BA 521 (3+0+0) 3 Credits / 7.5 ECTS
Strategic Management (Yönetim Stratejileri)
BA 522 (3+0+0) 3 Credits / 7.5 ECTS
Business Plan (İş Planı)
Process of creating a business plan. Inter-dependency of marketing, finance, management and leadership, and systems and operations. Preparation of financial and supporting documents. Case studies.

BA 524 (3+0+0) 3 Credits / 7.5 ECTS
Investment and Feasibility Analysis (Yatırım ve Fizibilite Analizi)

BA 526 (3+0+0) 3 Credits / 7.5 ECTS
New Enterprises (Yeni Girişimler)

BA 527 (3+0+0) 3 Credits / 7.5 ECTS
Global Economic and Financial Analysis (Küresel Ekonomik ve Finansal Analiz)
The theory and policy of the contemporary global economics. Theories of international economics (i.e. on international trade, finance and growth). Latest empirical research and trends of economic development. Case studies.

BA 528 (3+0+0) 3 Credits / 7.5 ECTS
Marketing of Financial Product and Service (Finansal Ürün ve Hizmetlerin Pazarlaması)

BA 530 (3+0+0) 3 Credits / 7.5 ECTS
Customer Development and Prototyping for Entrepreneurs (Girişimciler için Müşteri Geliştirme ve Prototiplendirme)
BA 531 (3+0+0) 3 Credits / 7.5 ECTS
Financial Markets and Institutions
(Finansal Piyasalar ve Kurumlar)

BA 532 (3+0+0) 3 Credits / 7.5 ECTS
Risk Management
(Risk Yönetimi)
Pre-requisites: BA 504

BA 539 (3+0+0) 3 Credits / 7.5 ECTS
Finance and Investment Management
(Finans ve Yatırım Yönetimi)

BA 557 (3+0+0) 3 Credits / 7.5 ECTS
Capital Markets: Theory and Practice
(Sermaye Piyasaları: Kuram ve Uygulama)

BA 558 (3+0+0) 3 Credits / 7.5 ECTS
Human Resource Management in Educational Institutions
(Eğitim Kurumlarında İnsan Kaynakları Yönetimi)

BA 559 (3+0+0) 3 Credits / 7.5 ECTS
Management and Leadership in Educational Institutions
(Eğitim Sektöründe Pazarlama Teknikleri)
Basic concepts of leadership. Motivation, decision making processes, group dynamics, conflict resolution, leadership and motivation theories from the management perspective. Application of these theories in educational institutions.
BA 568 (3+0+0) 3 Credits / 7.5 ECTS
Marketing Techniques in Educational Institutions
(Eğitim Sektöründe Pazarlama Teknikleri)

BA 573 (3+0+0) 3 Credits / 7.5 ECTS
Project Management
(Proje Yönetimi)

BA 575 (3+0+0) 3 Credits / 7.5 ECTS
Innovation Management
(Yenilik Yönetimi)

BA 580 (3+0+0) 3 Credits / 7.5 ECTS
Contemporary Commercial Banking
(Çağdaş Ticari Bankacılık)

BA 588 (3+0+0) 3 Credits / 7.5 ECTS
Ethics in Educational Institutions
(Eğitim Kurumlarında Etik)
Concept of business ethics at individual and organizational level. Ethical awareness. Business ethics’ impact on decision making processes. Conflict resolution models.
DEPARTMENT OF ECONOMICS

Chair
Prof. Jülide Yıldırım Öcal

Academic Staff
Prof. Jülide Yıldırım Öcal, Prof. Ayça Tekin Koru, Prof. Nazire Nergiz Dönçer, Prof. Semih Tümen, Assoc. Prof. Tekin Köse, Asst. Prof. Sezer Yaşar, Ataman İçer*, Erdener Emin Eker*, Elizabett Sert*.
* Research Assistant

Undergraduate Program in Economics

The world has become a global village with the expansion of international trade and investment. However, the most important development has been the technology revolution, which has accelerated globalization for the last three decades. Majoring in economics not only enables students to have a good grasp of economic theories, but also equips them with the knowledge to understand how the economic units function under technological revolution and the challenge of global competitiveness. In a global economic order where competitiveness means a matter of economic sustainability for countries and companies, how regional and national economies function has become an important part of economics teaching. The objective of the Department of Economics at TED University is to provide its undergraduate students with a multifaceted approach that integrates contemporary theoretical perspectives with applications so that they develop the necessary professional credentials to become eligible for any career development.

Program Outcomes

Students graduating from TEDU Department of Economics will:

1. Be able to apply their economic knowledge to a variety of problems and issues in a range of economic contexts.
2. Achieve the knowledge of testing and expressing economic cases and problems through quantitative and qualitative methods.
3. Be competent in informatics and communication technologies and to perform economic analysis through one of the softwares used in economics.
4. Acquire basic knowledge in economic related sciences and be able to participate in interdisciplinary studies.
5. Be able to evaluate, interpret and analyze developments in economics in terms of causality by using statistical and econometric tools and report the outcomes.
6. Develop a sense of responsibility in team work; self-discipline; good work habits and time management practices.
7. Prepare outputs such as reports, projects, presentation and articles in line with ethical rules and to implement social, scientific, and professional codes of ethical conduct.
8. Follow and evaluate the economics literature and to be able to contact his/her colleagues both in Turkish and in English.
9. Engage in life-long learning and enrich personal, social, professional development by exploring interests in diverse disciplines.
10. Understand the roles of institutions and organizations in the society and their effects on economic structure.

11. Acquire critical and analytical thinking ability.

12. Appreciate the plurality of and respect for differences of opinion, lifestyles, cultural practices and identities, use his expertise concerning social responsibility.

### Undergraduate Curriculum

#### Semester 1

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|                | Totals expected for graduation | 127 | 12 | 6  | 136 | 240 |

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**Semester 5**

**Semester 6**

**Semester 7**

**Semester 8**
### Courses with Pre-requisites

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<td>ECON 417 Economic Institutions in Historical Perspective</td>
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<td>ECON 495 Economics of Education and Human Capital</td>
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Undergraduate Course Descriptions

ECON 101 (3+1+0) 4 Credits / 6 ECTS
Economics I
(Ekonomi I)

ECON 102 (3+1+0) 4 Credits / 6 ECTS
Economics II
(Ekonomi II)

ECON 110 (3+0+0) 3 Credits / 5 ECTS
Principles of Economics
(Ekonominin İlkeleri)

ECON 211 (3+1+0) 3 Credits / 6 ECTS
Microeconomics I
(Mikroekonomi I)
Formal tools of microeconomic theory. Preferences and choice. Analysis of expenditure decisions of consumers. Production and costs. Cost minimization and profit maximization. Functioning of competitive markets. Application of the theoretical principles of microeconomics in various contexts in everyday life. Pre-requisites: ECON 110 or ECON 101 and MATH 101 or MATH 111

ECON 212 (3+1+0) 3 Credits / 6 ECTS
Microeconomics II
(Mikroekonomi II)
Formal tools of microeconomic theory. Monopoly and monopsony. Price discrimination, monopolistic competition and oligopoly. Game theory and strategic behavior. Uncertainty and information. General equilibrium. The issues in public economics, such as externalities and public goods. Pre-requisite: ECON 211

ECON 221 (3+0+0) 3 Credits / 6 ECTS
Macroeconomics I
(Makroekonomi I)
ECON 222
Macroeconomics II
(Makroekonomi II)
Pre-requisite: ECON 221

ECON 300
Summer Practice I
(Yaz Stajı I)
Minimum 20 business days of summer internship that students are required to complete in order to gain work experience in economics

ECON 301
Game Theory
(Oyun Kuramı)

ECON 303
Mathematical Economics
(Matematiksel Ekonomi)
Pre-requisite: MATH 102 or MATH 112

ECON 321
Advanced Macroeconomic Theory
(İleri Makroekonomi Teorisi)
Pre-requisite: ECON 222

ECON 322
Development Economics
(Kalkınma İktisadi)
ECON 331 (E) 4 Credits / 6 ECTS
Econometrics I (Ekonometri I)
Pre-requisite: MATH 232

ECON 332 (E) 4 Credits / 6 ECTS
Econometrics II (Ekonometri II)
Pre-requisite: ECON 331

ECON 341 (E) 3 Credits / 6 ECTS
International Economics I (Uluslararası İktisat I)
Pre-requisite: ECON 212

ECON 342 (E) 3 Credits / 6 ECTS
International Economics II (Uluslararası İktisat II)
Pre-requisite: ECON 221

ECON 351 (E) 3 Credits / 6 ECTS
Monetary Theory, Policy and Banking (Para Teorisi, Politikası ve Bankacılık)
Basic models of money and monetary policy. An overview of central banking by giving emphasis on money supply process, the tools of monetary policy and the conduct of monetary policy. Analysis of the demand and supply of money. Monetary theory. Monetary transmission mechanisms and the role of expectations in Monetary policy.
Pre-requisite: ECON 221
ECON 352 (3+0+0) 3 Credits / 6 ECTS
Financial Economics and Financial Markets
(Finansal İktisat ve Finansal Marketler)
Conceptual understanding of finance. Asset pricing and modern portfolio theory. Insights into theoretical, empirical and practical issues concerning the operation of financial markets.

ECON 361 (3+0+0) 3 Credits / 6 ECTS
History of Economic Thought
(Ekonomik Düşünce Tarihi)
Contributions of leading economists and the relevance of their theories to later periods. Economic thinking of Smith, Mill, Hume, Marx, Malthus, and Keynes. The influence of economists on society. Analysis of the progress of the principles of economics from early to modern times.

ECON 362 (3+0+0) 3 Credits / 6 ECTS
Economic History
(Ekonomi Tarihi)
Pre-requisite: ECON 101 and ECON 102 or ECON 110

ECON 371 (3+0+0) 3 Credits / 6 ECTS
Political Economy
(Politik Ekonomi)
Relationship between politics and economics in the international economy. Concepts and approaches from political science, economics, history and sociology for a broad introduction to current issues in political economy.

ECON 372 (3+0+0) 3 Credits / 6 ECTS
Environmental Economics
(Çevre Ekonomisi)
Pre-requisite: ECON 211

ECON 373 (3+0+0) 3 Credits / 6 ECTS
The Political Economy of European Integration
(Avrupa’nın Entegrasyonunun Politik İktisadi)
ECON 400  (1+0+0) 1 Credit / 2 ECTS  
**Summer Practice II**
(Yaz Stajı II)
Minimum 20 business days of summer internship that students are required to complete in order to gain work experience in economics.
Pre-requisite: ECON 300

ECON 401  (3+0+0) 3 Credits / 7 ECTS  
**Research Methods**  
(Araştırma Yöntemleri)
Pre-requisite: MATH 232

ECON 402  (3+0+0) 3 Credits / 7 ECTS  
**Graduation Paper and Seminar**  
(Mezuniyet Projesi ve Seminer)
Undertake an independent research. Gain and demonstrate proficiency in a strand of literature chosen by the student in collaboration with an advisor. Writing an analytical research paper. Presentation in written and oral form.
Pre-requisite: ECON 401

ECON 403  (3+0+0) 3 Credits / 6 ECTS  
**Turkish and World Economy in the 20th Century**  
(20. Yüzyılda Türkiye ve Dünya Ekonomisi)
Pre-requisite: ECON 221

ECON 404  (3+0+0) 3 Credits / 6 ECTS  
**Turkish Economy**  
(Türkiye Ekonomisi)
Pre-requisite: ECON 221

ECON 405  (3+0+0) 3 Credits / 6 ECTS  
**Economic Policy Analysis**  
(Ekonomik Politika Analizi)
The role of economic analysis in the design, evaluation, and implementation of economic policy. The principles, practices and applications of applied welfare analysis. The basic theory of benefit-cost analysis (BCA) and its implementation. A framework of social welfare analysis to a variety of public policy questions such as health policy, the design of unemployment insurance, and regulatory policies.
Pre-requisite: ECON 212
ECON 406 (3+0+0) 3 Credits / 6 ECTS
Experimental Economics
(Deneysel İktisat)
Use of experiments to study individual and interactive (strategic) decision-making. Choice over risky alternatives, altruism and reciprocity, allocation and information aggregation in competitive markets. Cooperation and collusion, bidding in auctions, strategy in coordination.

ECON 407 (3+0+0) 3 Credits / 6 ECTS
Data Science for Social Scientists
(Sosyal Bilimciler için Veri Bilimi)

ECON 411 (3+0+0) 3 Credits / 6 ECTS
Agricultural Economics
(Tarımsal Ekonomi)
Economics of agricultural and food markets. Structure and organization of the agricultural industry. Application of basic principles of microeconomics and macroeconomics to agriculture. Role of agriculture in Turkey and the world.
Pre-requisite: ECON 212

ECON 412 (3+0+0) 3 Credits / 6 ECTS
Labor Economics
(Çalışma Ekonomisi)
Analysis of labor markets. Labor supply and labor demand. Determination of wages, conditions of work, the distribution of employment. Evaluation of labor market policy.
Pre-requisite: ECON 212

ECON 414 (3+0+0) 3 Credits / 6 ECTS
Industrial Economics
(Endüstriyel Ekonomi)
Firms’ behavior in a market economy. Forms of state intervention in modern capitalist economics. The relationship between market structure, market behavior and market performance.
Pre-requisite: ECON 21

ECON 416 (3+0+0) 3 Credits / 6 ECTS
General Equilibrium and Welfare Economics
(Genel Denge ve Refah Ekonomisi)
Theory of general competitive equilibrium from modern mathematical points of view. Basic concepts in welfare economics allowing an understanding of important economic factors affecting the level of social welfare. Tools of applied welfare analysis.
Pre-requisite: ECON 212
ECON 417 (3+0+0) 3 Credits / 6 ECTS
Economic Institutions in Historical Perspective
(Tarihsel Perspektifte Ekonomi Kurumları)
Pre-requisite: ECON 101 and ECON 102 or ECON 110

ECON 420 (3+0+0) 3 Credits / 6 ECTS
Gender and Development
(Toplumsal Cinsiyet ve Kalkınma)

ECON 421 (3+0+0) 3 Credits / 6 ECTS
Economic Growth
(Ekonomik Büyüme)
Pre-requisite: ECON 222

ECON 422 (3+0+0) 3 Credits / 6 ECTS
Institutional Economics
(Kurumsal İktisat)

ECON 424 (3+0+0) 3 Credits / 6 ECTS
Gender, Trade and Poverty
(Cinsiyet, Ticaret ve Yoksulluk)

ECON 431 (3+0+0) 3 Credits / 6 ECTS
Applied Econometrics
(Uygulamalı Ekonometri)
A dual focus on econometric theory and hands-on experience working with economic data. Empirical investigation. Evaluation of econometric and other statistical evidence.
Pre-requisite: ECON 212
ECON 432 (3+0+0) 3 Credits / 6 ECTS
Time Series
(Zaman Serisi)
A variety of statistical models for time series. Main methods for analyzing these models. Correlogram and a sample spectrum. Moving average (MA), Autoregressive (AR), ARMA and ARIMA models. Forecasts for a variety of linear methods and models.
Pre-requisite: ECON 332

ECON 434 (3+0+0) 3 Credits / 6 ECTS
Panel Data Analysis
(Panel Veri Analizi)
Applied econometrics dealing with ‘panel’ or ‘longitudinal’ data sets. Specification, estimation, and inference in the context of models that include individual (firm, person, etc.) and/or time effects. Panel data estimators, instrumental variables estimators, and maximum likelihood estimation of limited dependent variable models.
Pre-requisite: ECON 332

ECON 441 (3+0+0) 3 Credits / 6 ECTS
Economics of Migration
(Göç Ekonomisi)

ECON 445 (3+0+0) 3 Credits / 6 ECTS
The Political Economy of Globalization
(Küreselleşmenin Politik Ekonomisi)

ECON 451 (3+0+0) 3 Credits / 6 ECTS
Fiscal Policy and Public Finance
(Maliye Politikası ve Kamu Maliyesi)
ECON 471 (3+0+0) 3 Credits / 6 ECTS
Economics of Energy
(Enerji Ekonomisi)
Economics of markets for various energy sources and their interactions with each other and with the rest of the economy. Government intervention in energy markets. Effects of price controls and regulation. Policy issues related to energy use, economic growth, and the environment.

ECON 472 (3+0+0) 3 Credits / 6 ECTS
Topics in Political Economy
(Politik Ekonomide Araştırma Konuları)
Theoretical models and empirical techniques used in political-economy literature. Recent research topics in political-economy. Formation of economic policy. Determinants of development. Effects of media.

ECON 481 (3+0+0) 3 Credits / 6 ECTS
Health Economics
(Sağlık Ekonomisi)

ECON 482 (3+0+0) 3 Credits / 6 ECTS
Health Policy
(Sağlık Politikası)
Conceptual and analytical approach to the process and contents of health policy making and implementation. Health policy, health care systems, and health care services. Analysis of the health care systems from economic, political and social perspectives. Welfare policies and their impact on health care system.

ECON 484 (3+0+0) 3 Credits / 6 ECTS
Economics of Conflict, War and Peace
(Anlaşmazlık, Savaş ve Barış Ekonomisi)

ECON 490 (3+0+0) 3 Credits / 6 ECTS
Economics of Discrimination
(Ayrımcılık Ekonomisi)
Differences and discrimination associated with race, religion, gender or nation of birth. Employer and employee discrimination. Market discrimination. The indicators, causes and consequences of discrimination in economic markets. Econometrics to address discrimination issues.
ECON 505  
Economic Policy Analysis  
(Ekonomik Politika Analizi)  
The role of economic analysis in the design, evaluation, and implementation of economic policy. The principles, practices and applications of applied welfare analysis. The basic theory of benefit-cost analysis (BCA) and its implementation. A framework of social welfare analysis to a variety of public policy questions such as health policy, the design of unemployment insurance, and regulatory policies.

ECON 506  
Experimental Economics and Finance  
(Deneysel İktisat ve Finans)  
ECON 511 (3+0+0) 3 Credits / 7.5 ECTS
Microeconomics (Mikroekonomi)
Game theory. General equilibrium analysis.

ECON 521 (3+0+0) 3 Credits / 7.5 ECTS
Macroeconomics (Makroekonomi)
Inter-temporal consumption-saving choice, growth model, exogenous growth, welfare theorems,
labor supply, business cycles, unemployment, fiscal policy, monetary policy.

ECON 531 (3+0+0) 3 Credits / 7.5 ECTS
Econometrics (Ekonometri)
Regression and correlation. Multiple regression and functional forms. Heteroscedasticity.

ECON 532 (3+0+0) 3 Credits / 7.5 ECTS
Applied Econometrics (Uygulamalı Ekonometri)
Applications of financial econometrics.
Pre-requisite: ECON 531

ECON 543 (3+0+0) 3 Credits / 7.5 ECTS
Multinational Corporations (Çokuluslu Şirketler)

ECON 572 (3+0+0) 3 Credits / 7.5 ECTS
Topics in Political Economy (Politik Ekonomide Araştırma Konuları)
Theoretical models and empirical techniques used in political-economy literature. Recent research topics in political-economy. Formation of economic policy. Determinants of development. Effects of media.
ECON 581 (3+0+0) 3 Credits / 7.5 ECTS
Health Economics
(Sağlık Ekonomisi)

ECON 581 (3+0+0) 3 Credits / 7.5 ECTS
Eğitim Ekonomisi
(Education Economics)

ECON 583 (3+0+0) 3 Credits / 7.5 ECTS
Eğitimde Politika Analizi
(Policy Analysis in Education)
Basic concepts in education policy. Effects of specific government policies on educational outcomes, practices and organizational structures. The role of economics analysis in the design, implementation and assessment of education policy.

ECON 595 (3+0+0) 3 Credits / 7.5 ECTS
Economics of Education and Human Capital
(Eğitim ve Beşeri Sermaye İktisadi)
The basic theory of investment in human capital. The relation between human capital and economic growth/development. The fundamental link between innate ability, education, and labor market outcomes. The effect of vocational versus general education on labor market outcomes. Gender/racial gaps in educational outcomes and the theory of signalling. The role of school and teacher quality on educational outcomes. Main policy issues in the economics of education.
DEPARTMENT OF POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

Chair
Prof. Aylin Özman Erkman

Academic Staff

* Research Assistant

Undergraduate Program in Political Science and International Relations

The fields of Political Science and International Relations at present encompass wider issues, concerns and assumptions that go beyond their classical scope. Along with the conventional topics, today the disciplines deal with complex issues of political economy, business and trade, transnational relations, ethics, human rights, migration, gender, identity and global environmental risks. Thus, a critical understanding of social and political realities facing the global community increasingly requires an intellectual training based on cross-disciplinary accumulation of skills and knowledge. A cross-disciplinary perspective endows the students and researchers with a plurality of approaches necessary for the awareness of the broad range of social and political problems in a continuously changing global environment. In that regard, our program seeks to cultivate an in-depth understanding of political, economic, social and cultural aspects of the rapidly changing world. Our ultimate aim is to provide high quality education in Political Science and International Relations that enables our graduates to make significant contributions to the field both intellectually and professionally.

Program Outcomes

Political Science and International Relations Program graduates are expected to achieve the following learning outcomes:

1. Demonstrate knowledge of the main theories, ideas and concepts associated with Political Science and International Relations and apply theoretical and conceptual knowledge on topics of Political Science and International Relations.
2. Acquire an interdisciplinary perspective based on the synthesis of related disciplines (sociology, economics, psychology, law, history...).
3. Think critically and creatively, including the ability to formulate clear and logically coherent questions and arguments regarding local, national and global politics.
4. Make policy analysis regarding political and social developments individually and/or in interdisciplinary teams.
5. Acquire in-depth knowledge on research methods and academic ethics and use this knowledge in conducting theoretical and/or empirical research projects.
6. Identify ethical issues in local, domestic and international politics and implement social, scientific and professional codes of ethical conduct.
7. Identify and follow credible social science literature and develop skills to utilize diverse types of information sources.
8. Demonstrate high skills in oral and written communication both in Turkish and English and apply non-discriminative language.
9. Use a second foreign language (aside English) at an intermediate or high level of proficiency.
10. Appreciate the plurality of and respect for differences of opinion, lifestyles, cultural practices and identities.
11. Practice good working habits, time management and self-discipline with a strong vision of social responsibility.
12. Engage in life-long learning and enrich personal, social and professional development by exploring interests in diverse disciplines.

### Undergraduate Curriculum

#### Semester 1

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**Courses with Pre-requisites**

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**Undergraduate Course Descriptions**

**PSIR 110**
*(3+0+0) 3 Credits / 5 ECTS*

Introduction to Political Studies  
*(Siyaset Çalışmalarına Giriş)*

Introduction to the study of politics and its sub-divisions. Basic ideas, practices and actors. Analysis of political phenomena.

**PSIR 118**
*(3+0+0) 3 Credits / 5 ECTS*

Major Works in Political Cinema  
*(Politik Sinema - Temel Örnekler)*

Social and political issues by means of films.

**PSIR 213**
*(3+0+0) 3 Credits / 6 ECTS*

Political Concepts and Processes  
*(Siyasal Kavramlar ve Süreçler)*


**PSIR 214**
*(3+0+0) 3 Credits / 6 ECTS*

Political Currents  
*(Siyasal Akımlar)*

Study of political currents and related movements. Nationalism, conservatism, liberalism, Marxism..., social democracy, anarchism, feminism, environmentalism.

Pre-requisite: PSIR 213
PSIR 216  (3+0+0) 3 Credits / 6 ECTS
Political Sociology
(Siyaset Sosyolojisi)

PSIR 221  (3+0+0) 3 Credits / 6 ECTS
Global Environmental Issues
(Global Çevre Sorunları)

PSIR 226  (3+0+0) 3 Credits / 6 ECTS
Cross National Perspectives on Women’s Movements
(Kadın Hareketi: Karşılaştırmalı Bir Perspektif)
Evolution and current state of women’s movements in different countries. Middle Eastern, North American, European, and Latin American cases.

PSIR 263  (3+0+0) 3 Credits / 6 ECTS
Fundamental Principles of Law
(Hukukun Temel İlkeleri)
Basic concepts and principles of law. Law and social order. Sources of law and hierarchy of the sources. Characteristics of common law and the continental legal systems. Main branches of public and private law. Turkish judicial system. The application of norms and methods of interpretation.

PSIR 266  (3+0+0) 3 Credits / 6 ECTS
Turkish Constitutional Law
(Türk Anayasa Hukuku)
Constitutional developments in the Ottoman Empire and Turkish Republic. Ottoman constitutional movement during the 19th century. Comparative study of 1921, 1924, 1961 and 1982 Constitutions. Pre-requisite: PSIR 263

PSIR 271  (3+0+0) 3 Credits / 6 ECTS
Formation of Modern State
(Modern Devletin Oluşumu)
Origins, historical evolution and functions of the modern state. Liberal and Marxist theories of state.

PSIR 291  (3+0+0) 3 Credits / 6 ECTS
Global Politics
(Global Siyaset)
PSIR 292  
International Relations Theory  
(Uluslararası İlişkiler Kuramı)  
Classical and critical theories of international relations. Idealism-liberalism, neo-liberalism, realism, Marxist, and neo-Marxist perspectives, constructivism, feminism, English School, postmodern approaches.  
Pre-requisite: PSIR 291

PSIR 294  
International Organizations  
(Uluslararası Örgütler)  
Institutional structures, policy making processes, and functions of international organizations.

PSIR 300  
Summer Practice I  
(Yaz Stajı I)  
Minimum 20 business days of summer internship that students are required to complete in order to gain work experience in economics.

PSIR 311  
Critical Security Studies  
(Eleştirel Güvenlik Çalışmaları)  
The notion of security in the pre-cold war, cold war and post-cold war periods. Classical and critical approaches to security.

PSIR 323  
Media and International Politics  
(Medya ve Uluslararası Siyaset)  
The role of media in international relations. Theories of media. Media-power relationship. Media as a means of governments and media as a means to resist governments.

PSIR 335  
Formation of Modern Turkey  
(Modern Türkiye’nin Oluşumu)  
Social and political dynamics leading to the formation of modern Turkey. Ottoman modernization. Social and political developments during the early Republican era. Modernization. State and society relationship.

PSIR 336  
Contemporary Turkish Politics  
(Çağdaş Türkiye’de Siyaset)  
Development of Turkish Politics from the transition to multi-party regime onwards. Democratization, political parties and participation. Social and political movements. Role of military in political processes. Ideologies. Identity politics.  
Pre-requisite: PSIR 335
PSIR 351  (3+0+0) 3 Credits / 6 ECTS
History of Political Thought I  
(Siyasal Düşünce Tarihi I)
Classical and medieval political thought. Political ideas of Socrates, Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas.

PSIR 352  (3+0+0) 3 Credits / 6 ECTS
History of Political Thought II  
(Siyasal Düşünce Tarihi II)

PSIR 355  (3+0+0) 3 Credits / 6 ECTS
Social Theory  
(Sosyal Teori)
Introduction to classical social theory through an analysis of the works of Karl Marx, Max Weber and Emile Durkheim.

PSIR 367  (3+0+0) 3 Credits / 6 ECTS
Public International Law  
(Devletler Umumi Hukuku)

PSIR 368  (3+0+0) 3 Credits / 6 ECTS
Private International Law  
(Devletler Özel Hukuku)
Introduction to Private International Law. Conflicts of law, rules of jurisdiction, law of aliens and nationality law. Analysis of the basic concepts and principles of Turkish law of nationality and aliens.

PSIR 374  (3+0+0) 3 Credits / 6 ECTS
Comparative Politics  
(Karşılaştırmalı Siyaset)

PSIR 377  (3+0+0) 3 Credits / 6 ECTS
Social and Political Movements  
(Toplumsal ve Siyasal Hareketler)
Origins, dynamics, and consequences of social and political movements. Approaches and theories of reform, revolution, and social movements. Study of historically important cases.
PSIR 392 (3+0+0) 3 Credits / 6 ECTS
Peace Studies and Conflict Resolution
(Barış Çalışmaları ve Çatışmaların Çözümlenmesi)
Main approaches, theories and models on peace and conflict.

PSIR 394 (3+0+0) 3 Credits / 6 ECTS
Diplomatic History
(Diplomasi Tarihi)
Introduction to the history of international politics. The emergence of the concept of diplomacy as an institutional phenomenon and its historical advance to our present day. Developments from 16th century onwards.

PSIR 395 (3+0+0) 3 Credits / 6 ECTS
International Political Economy
(Uluslararası Ekonomi Politik)

PSIR 398 (3+0+0) 3 Credits / 6 ECTS
Critical Theories of International Relations
(Eleştirel Uluslararası İlişkiler Kuramları)

PSIR 400 (1+0+0) 1 Credits / 3 ECTS
Summer Practice II
(Yaz Stajı II)
Minimum 10 business days of summer internship that students are required to complete in order to gain work experience in their major.
Pre-requisites: PSIR 300

PSIR 401 (3+0+0) 3 Credits / 7 ECTS
Research Methods
(Araştırma Yöntemleri)
Pre-requisites: MATH 233

PSIR 402 (3+0+0) 3 Credits / 8 ECTS
Graduation Paper and Seminar
(Mezuniyet Projesi ve Seminer)
Undertake an independent research. Gain and demonstrate proficiency in a strand of literature chosen by the student in collaboration with an advisor. Writing an analytical research paper. Presentation in written and oral form.
Pre-requisites: PSIR 401
PSIR 422 (3+0+0) 3 Credits / 6 ECTS  
Current Issues in World Politics  
(Dünya Siyasetinde Güncel Konular)  
Regional and global issues in contemporary world politics.

PSIR 425 (3+0+0) 3 Credits / 6 ECTS  
Politics of Energy  
(Enerji Politikası)  

PSIR 428 (3+0+0) 3 Credits / 6 ECTS  
Ethnic Problems and Nationalism  
(Etnik Sorunlar ve Milliyetçilik)  
Ethnic and nationalist conflicts at the global level. Application of the theoretical models to various nationalist and ethnic movements. The relation between nation and nationalism. The functions of nationalism in the modernization process. The historical development of nationalism as an ideology and movement. The crisis of nation-state.

PSIR 429 (3+0+0) 3 Credits / 6 ECTS  
Human Rights and World Politics  
(İnsan Hakları ve Dünya Siyaseti)  

PSIR 432 (3+0+0) 3 Credits / 6 ECTS   
Themes in Turkish Political Thought  
(Türkiye'de Siyasal Düşüncenin Temaları)  
Political thought in Republican Turkey. Kemalist, nationalist, conservative, liberal, socialist, Islamic and feminist currents of thought with an emphasis on their main arguments and political projects.

PSIR 439 (3+0+0) 3 Credits / 6 ECTS  
Turkish Foreign Policy  
(Türk Dış Politikası)  
Historical, economic, and political dynamics underlying the foreign policy making process. Turkish foreign policy preferences from 18th century to the present day.

PSIR 449 (3+0+0) 3 Credits / 6 ECTS  
American Politics and Foreign Policy  
(Amerika'da Siyaset ve Dış Politika)  
Political structure and foreign policy making process in United States (US). The distribution of power among the US political institutions. The political parties and the election system. The notion of national security state. US foreign policy making process and lobbies.
PSIR 453 (3+0+0) 3 Credits / 6 ECTS
Political Theory
(Siyaset Kuramı)
Political theory in 20th century. Liberalism, Marxism, post-Marxism, structuralism, post-structuralism, deconstructivism, and post-modernism.

PSIR 458 (3+0+0) 3 Credits / 6 ECTS
Art and Politics
(Sanat ve Politika)
Inter-relationships between art and politics in 20th century. The role of art in the creation process of political messages, propaganda, and mass mobilization. Art as a mean of constructing social and political memory. State policies regarding art and art works in selected countries.

PSIR 459 (3+0+0) 3 Credits / 6 ECTS
Political Parties and Party Systems
(Siyasi Partiler ve Parti Sistemleri)

PSIR 461 (3+0+0) 3 Credits / 6 ECTS
Law of the European Union
(Avrupa Birliği Hukuku)
The European Union’s (EU) law and legal order. Sources of community law: the treaties, derived law, international law. Relationship of Community Law to national law. Law making process in EU. The limits of EU law. EU citizenship. Social and economic regulations.

PSIR 476 (3+0+0) 3 Credits / 6 ECTS
Post-Colonial Studies
(Post-Koloniyal Çalışmalar)
Currents of thought that react to colonialism and Eurocentricism. Analysis of the works of Edward Said, Frantz Fanon, Gayatri Spivak and Homi Bhabha.

PSIR 491 (3+0+0) 3 Credits / 6 ECTS
Foreign Policy Analysis
(Dış Politika Analizi)
Foreign policy decision making processes. Political, social, economic, and psychological factors affecting the process. Decision making models. International crisis management.
FACULTY OF EDUCATION
Dean’s Statement

Today, the development level of countries is assessed by to what extent they prioritize education. It has been known that professionals are the most important elements among other factors that contribute to the quality of education.

TED University, Faculty of Education was founded upon the principles of 21st century education philosophy and student characteristics. The principal standards of TEDU’s teacher education programs and procedures are lifelong learning, national and international teaching competencies, individual differences, interdisciplinary studies, rich learning environments, authentic and performance assessments, social responsibility and cooperation, integrated learning, as well as information and communication technologies.

Students enrolled before 2017-2018 academic year are offered a program which includes common core subjects, consisting of courses such as Math, Natural and Physical Sciences, Social Sciences, Humanities, and Fine Arts. Students enrolled in 2018-2019 academic year are exposed to a new program prepared by the Council of Higher Education for education faculties all over the country. One of our primary goals at TEDU is to make students graduate with a high level English proficiency. We provide our students with different scholarship opportunities. Our graduates start their career a step ahead of their colleagues as they graduate with more clinical and school experience.

Our faculty members bring national and international project grants on lifelong learning and teacher professional development. For instance, we have several projects supported by EU FP7 and TUBITAK. We want our students to assume roles in these projects as we believe this type of an experience will help them graduate with rich and multifaceted experiences. In addition, we encourage our students to study in a European country for a limited time period through the EU’s ERASMUS program.

You are cordially invited to explore our diploma programs.

Prof. Yüksel KAVAK, Dean
EDU 200 (1+4+0) 3 Credits / 6 ECTS
Observation in Schools
(Okullarda Gözlem)

EDU 201 (1+2+0) 2 Credits / 4 ECTS
School, Families and Society
(Okul, Aile ve Toplum)

EDU 302 (2+0+0) 2 Credits / 3 ECTS
Special Education and Inclusion
(Özel Eğitim ve Kaynaştırma)
Definition of special education, terms related to special education, causes of disabilities. Importance of early diagnosis and treatment. Inclusion and roles and responsibilities in inclusion. Types, characteristics, education of disabilities, and accommodations regarding these children in inclusive settings. Parentes of children with special needs and including parents into their children’s education. Special education programs and institutions in Turkey.

EDU 401 (1+2+0) 2 Credits / 3 ECTS
Community Service
(Topluma Hizmet Uygulamaları)
Definition and examples of community service in education. Importance of community service. Development and assessment of community service. Identifying and preparing projects to solve the current issues and problems of the society. Voluntary participation in social responsibility projects. Participation in scientific activities.

EDU 404 (2+0+0) 2 Credits / 3 ECTS
Turkish Education System and School Management
(Türk Eğitim Sistemi ve Okul Yönetimi)
Undergraduate Course Descriptions
(Courses Common to Faculty)
(2017-2018 and After, 1st Year Courses)

EDUC COMPULSORY COURSES

EDUC 101 (2+0+0) 2 Credits / 3 ECTS
Introduction to Education (Eğitime Giriş)

EDUC 102 (2+0+0) 2 Credits / 3 ECTS
Educational Psychology (Eğitim Psikolojisi)

EDUC 103 (2+0+0) 2 Credits / 3 ECTS
Educational Sociology (Eğitim Sosyolojisi)
Basic concepts of sociology: society, social structure, social fact, social event etc.; pioneers of sociology (İbn Khaldun, A. Comte, K. Marx, E. Durkheim, M. Weber etc.) and their views on education; the relationship between the field of education and the major sociological theories (functionalism, structuralism, symbolic interactionism, conflict theory, critical theory, phenomenology, and ethnomethodology); social processes (socialization, social stratification, social mobility etc.) and education; social institutions (family, religion, economy, politics) and education; the development of sociology and educational sociology in Turkey (Ziya Gökalp, İsmail Hakkı Baltacıoğlu, Nurettin Topçu, Mûmtaz Turhan etc.); culture and education; school as a social, cultural, and moral system and community.

EDUC 104 (2+0+0) 2 Credits / 3 ECTS
Educational Philosophy (Eğitim Felsefesi)
Basic concepts and problem areas of Philosophy; existence, knowledge, philosophy of ethics and education, basic philosophical trend (idealism, realism, naturalism, empiricism, rationalism, pragmatism, existentialism, analytical philosophy) and education; educational philosophy and education trends: Perennialism, essentialism, progressivism, existentialist education, critical/radical education; education views of some philosophers in Islamic world and in the West (Platon, Aristo, Socrates, J. Dewey, Avicenna, Al-Farabi, J.J. Rousseau etc.); human nature; individual differences and
education; education in terms of some politic and economic ideologies; influential ideologies in Turkey during modernization process and education; philosophical foundation of Turkish education system.

EDUC 201  (2+0+0) 2 Credits / 3 ECTS
Instructional Principles and Methods
(Öğretim İlke ve Yöntemleri)
Concepts related to teaching principles and methods; teaching-learning principles, models, strategies, methods and techniques; identifying target and goal in education; content selection and organization in education; teaching materials; planning teaching and teaching plans; theories and approaches related to teaching; effective teaching in school, learning and success in learning; assessing in-class learning.

EDUC 202  (2+0+0) 2 Credits / 3 ECTS
Turkish Education History
(Türk Eğitim Tarihi)
The scope, method and sources of Turkish Education History. Education in first Turkish states. Education in first Muslim Turkish states. Education in Turkey Seljuks and Anatolian principalities. Education in Ottoman Empire; education system till first attempts for innovation movements. Education system in Turkish states in 13rd-18th century located outside of Ottoman geography. Innovation movements in education in Ottoman Empire till the political reforms. Foundation of modern education from political reforms to republic. Organization of traditional education system. Education in other Turkish states and communities in Eurasian in 19th-20th centuries. Education during national struggle period. Foundations, structure, establishment and development of Turkish Education System. Teacher education process from past to present: common goals, language and alphabet unity, common history writing studies.

EDUC 203  (2+0+0) 2 Credits / 3 ECTS
Instructional Technologies
(Öğretim Teknolojileri)
Information technologies in education; teaching process and the classification of instructional technologies; theoretical approaches to instructional technologies; new trends in teaching approaches; current literacies; instructional technologies as a means and material; design of instructional technologies; thematic material preparation; object storage creation peculiar to subject area; evaluation criteria for teaching material.

EDUC 204  (2+0+0) 2 Credits / 3 ECTS
Research Methods in Education
(Eğitimde Araştırma Yöntemleri)
Basic concepts and principles related to research methods. Research process (recognizing the problem, specifying the problem and sampling, data collection and analysis, interpreting findings). Common features of instruments. Data analysis and evaluation. Access to article, thesis and data bases. Research models and research types. Basic paradigms in scientific researches. Qualitative and quantitative research patterns. Sampling, data collection and data analysis in qualitative research.
Validity and reliability in qualitative research. Article or thesis review. Evaluation and presentation. Preparing reports consonant with research principles and research ethics. Action research in education.

EDUC ELECTIVE COURSES

EDUC 250 (2+0+0) 2 Credits / 4 ECTS
Adult Education and Lifelong Learning (Yetişkin Eğitimi ve Hayat Boyu Öğrenme)
Definition and the scope of adult education; concepts related to adult education (continuing education, public education, informal education, vocational education etc.); historical development of adult education in Turkey; approaches and methods related to adult education; adults and learning; historical development, purpose and the scope of lifelong learning; lifelong learning practices in Turkish education system.

EDUC 251 (2+0+0) 2 Credits / 4 ECTS
Open and Distance Education (Açık ve Uzaktan Öğrenme)
Basic concepts and philosophy of open and distance education; development of distance education in the world; development of distance education in Turkey; learner and counsellor roles in distance education; technologies used in distance education; management of open and distance education; classroom management and its components in open and distance education; open education sources and trends in the world; mass open online courses; individualized learning settings; problems related to open and distance education and their solutions; open and distance education practices in teacher education; individualized teaching material development and student support services in open and distance education; specifying teaching strategies for different learning situations; research and evaluation in distance education.

EDUC 252 (2+0+0) 2 Credits / 4 ECTS
Child Psychology (Çocuk Psikolojisi)
Basic concepts in child psychology; history of child psychology; main approaches/methods in child psychology; characteristics of different stages of development (Prenatal, Infancy, Early Childhood, Middle Childhood); child within family structure; child within school structure; adaptation and behavior problems in childhood; student with special needs.

EDUC 253 (2+0+0) 2 Credits / 4 ECTS
Attention Deficiency and Hyperactivity Disorders (Dikkat Eksikliği ve Hiperaktivite Bozukluğu)
Definition and characteristics of attention deficiency of hyperactivity disorders; basic principles of attention deficiency of hyperactivity disorders (attention deficit, hyperactivity and impulsivity); the influence of attention deficiency and hyperactivity disorders on children in terms of social, emotional, and school success aspects; causes of attention deficiency and hyperactivity disorders; risk factors in the emergence of attention deficiency and hyperactivity disorders; types of attention deficiency and hyperactivity disorders; approaches to children who suffer from attention deficiency and hyperactivity disorders.
disorders; guidance to students who suffer from attention deficiency and hyperactivity disorders; education of children who suffer from attention deficiency and hyperactivity disorders; school-family cooperation.

**EDUC 254 (2+0+0) 2 Credits / 4 ECTS**

**Educational Law**
*(Eğitim Hukukumu)*

Basic concepts of law and administrative law; sources of administrative law; rights and duties in administration; Convention on the Rights of the Children and Human Rights Declaration; administrative and judicatory review of teachers; principles that base and regulate Turkish Education System; duties, rights and responsibilities of stakeholders in education.

**EDUC 255 (2+0+0) 2 Credits / 4 ECTS**

**Educational Antropology**
*(Eğitim Antropolojisi)*


**EDUC 256 (2+0+0) 2 Credits / 4 ECTS**

**History of Education**
*(Eğitim Tarihi)*

Education in ancient period (in Ancient Egypt, Mesopotamia, Anatolian, Indian, China, Ancient Greece and Rome civilizations). Education in Middle Age and New Age in the East, the West and Islamic communities. Renaissance, Reform, Enlightenment movements and education. Education in Industrial Age and Modern Age. The relationships of Islam culture and civilization with Western civilization. The emergence of nation states and development of national education systems. Post-modern society discussions and education. Basic changes and transformations that took place in education in the world from Ancient period to present.

**EDUC 257 (2+0+0) 2 Credits / 4 ECTS**

**Drama in Education**
*(Eğitimde Drama)*

Basic concepts of drama and creative drama (drama, creativeness, creative drama, play and theatre pedagogy, communication-interaction, role playing, improvisation, action, dramatic play, child theatre, puppet, pantomime etc.). Steps, dimensions and components of creative drama. Role playing and improvisation. History of creative drama. The relationship between social events and creative drama. Application steps of drama in education. Sources to be used in drama in education. Preparation and application of creative drama lesson plan. Contribution of drama to individual and social development.
EDUC 258  (2+0+0) 2 Credits / 4 ECTS
Extracurricular Activities in Education
(Eğitimde Program Dışı Etkinlikler)
Formal education and extracurricular activities/hidden curriculum concepts in education; approaches to hidden curriculum; cognitive domain and affective domain learnings and hidden curriculum; school as a ritual environment; school ceremonies as extracurricular activities in the school; importance and the management of social, cultural, sportive and artistic activities in the school; the place and the importance of hidden curriculum in values education; extracurricular activities (commemorative ceremony, pageant, gathering, graduation etc.) in terms of values education.

EDUC 259  (2+0+0) 2 Credits / 4 ECTS
Curriculum Development in Education
(Eğitimde Program Geliştirme)

EDUC 260  (2+0+0) 2 Credits / 4 ECTS
Project Design in Education
(Eğitimde Proje Hazırlama)

EDUC 350  (2+0+0) 2 Credits / 4 ECTS
Critical and Analytical Thinking
(Eleştirel ve Analitik Düşünme)
Basic concepts and definitions; brain as mental organ, types of thinking and classification of thinking; unintentional thinking and its characteristics; intentional thinking and its characteristics; methods for intentional thinking; critical and analytical thinking; basic characteristics and criteria of critical and analytical thinking; steps in critical and analytical thinking; factors affecting critical and analytical thinking; scope of critical and analytical thinking; critical and analytical reading; critical and analytical listening; critical and analytical writing.
EDUC 351 (2+0+0) 2 Credits / 4 ECTS
Inclusive Education (Kapsayıcı Eğitim)

EDUC 352 (2+0+0) 2 Credits / 4 ECTS
Comparative Education (Karşılaştırmalı Eğitim)

EDUC 353 (2+0+0) 2 Credits / 4 ECTS
Micro Teaching (Mikro Öğretim)

EDUC 354 (2+0+0) 2 Credits / 4 ECTS
Museum Education (Müze Eğitimi)
Definition and characteristics of museum, exhibition in museums; museum and museum education; types of museum; development of Turkish museology; A general overview of the history of museology in the world; the relationship between museum, art, culture and civilization; museum and art education; museum and society; the contribution of museums to historical awareness; protecting historical artifacts; modern museology in the world and Turkey.
EDUC 355 (2+0+0) 2 Credits / 4 ECTS
Out-of-School Learning Environments
(Okul Dışı Öğrenme Ortamları)
Out-of-school education and learning concepts; the scope and the importance of out-of-school learning; teaching in out-of-school environments; teaching methods and techniques appropriate for out-of-school learning environments (project-based learning, station technique etc.) and teaching materials; out-of-school learning environments (museums, science centers, zoos, botanical gardens, planetariums, industrial institutions, national parks, science festivals, science camps, natural environments etc.); improvement of out-of-school areas and environments; planning, practice and evaluation of out-of-school activities.

EDUC 356 (2+0+0) 2 Credits / 4 ECTS
Learning Disability
(Öğrenme Güçlüğü)
Definition, characteristics and classification of learning disability; Pedagogic, psychological, medical factors; its prevalence; causes of learning disability; early intervention; response to intervention model; diagnosis; medical, developmental and pedagogic diagnosis; academic and nonacademic characteristics; team and collaboration; education settings; practices having a scientific base; supporting reading, writing and mathematics skills; supporting nonacademic skills.

EDUC 357 (2+0+0) 2 Credits / 4 ECTS
Individualization and Adaptation of Teaching
(Öğretimi Bireyselleştirme ve Uyarlama)
The concept of individualization and its importance in education; things to do for individualization; evaluation based on curriculum; superficial evaluation; developing criteria-dependent assessment instrument; requirements for evaluation; specifying long-term and short-term teaching objectives; arrangements to do in classes and schools for inclusion/integration; teaching adaptation; individualization and adaptation examples in inclusion/integration classes.

EDUC 358 (2+0+0) 2 Credits / 4 ECTS
Sustainable Development and Education
(Sürdürülebilir Kalkınma ve Eğitim)
The concept of sustainability and its usage areas; sustainability in terms of social and physical sciences; sustainability in terms of social change; education and sustainability; future of humanity and sustainability; migration, poverty and inequality; sustainable environment; ecology, global environmental problems and sustainability; sustainable society in concordance with nature; population, economic system and natural habitat; technological developments; consumption habits and environment; social responsibility studies; sustainability in terms of concrete and intangible cultural heritage; readdressing human-nature relationships with regard to sustainability.
EDUC 359
Character and Values Education
(Karakter ve Değer Eğitimleri)
Conceptual framework: character, personality, value, virtue, morals, temper, etc.; character development and character education; role of family, environment, and school in character development and character education; description and classification of values; sources of values and individual, social, cultural, religious, and moral foundations of values; approaches and practices in character and values education; intercultural differences and diversity in character and values education; character and values education in relation to educational philosophies; instructional methods/techniques in character and values education; value conflicts and values education in modern and multicultural societies; values education through humanitarian-cultural development process; examples of values education from the history of Turkish education and culture, research and practices in values education in Turkey; teacher as a role model in character and values education.

EDUC 360
Education of In-patient Children
(Hastanede Yatan Çocukların Eğitimleri)
The development of in patient children- their needs, interests, psychology; the communication of hospital staff, child and the parents; preparation of life in hospital, diagnosis, treatment and readiness for the operation; preparing play, music, art, drama, maths activities for inpatient children; the communication of hospital schools and children with terminal diseases, their parents and the hospital staff.

GENC COMPULSORY COURSES

CMPE 103
Information Technologies
(Bilişim Teknolojileri)
Information technologies and information processing; problem solving concepts and approaches; algorithm and flow diagrams; computer systems; basic concepts related to software and hardware; basics of operating systems; recent operating systems; file management; utility programs (third party utilities); word processing programs; spreadsheet programs; presentation programs; desktop publishing; database management system; web design; use of internet in education; communication and cooperation technologies; safe internet use; information ethics and copyright law; the effects of computers and internet on children/the young.

GENC 101
Foreign Language I - English
(Yabancı Dil I - İngilizce)
Present continuous tense; simple present tense; oral, reading, writing and listening skills in these tenses; oral skills (introducing herself, describing a thing/place, giving directions, question and answer patterns related to personal information); reading skills (reading a list or label, asking questions at a restaurant, on means of transportation like bus/train); reading skills (writing a short message, poster content, filling out a form); listening skills (giving directions, describing a place/person, etc.).
GENC 102  
Foreign Language II - English)  
(Yabancı Dil II - İngilizce)
Past tense; future tense; modals (can, could, may, must, etc.); speaking, reading, writing and listening skills in these tenses and modals; oral skills (asking questions at a restaurant, ordering food, etc.); reading skills (weather forecast on the internet, recipe, banner/poster content, etc.); writing skills (writing a short message, giving written directions, writing an e-mail/invitation, etc.); listening skills (weather forecast, recipe, etc.).

GENC 103  
Foreign Language I - Spanish)  
(Yabancı Dil I - İspanyolca)
Present continuous tense; simple present tense; oral, reading, writing and listening skills in these tenses; oral skills (introducing herself, describing a thing/place, giving directions, question and answer patterns related to personal information); reading skills (reading a list or label, asking questions at a restaurant, on means of transportation like bus/train); reading skills (writing a short message, poster content, filling out a form); listening skills (giving directions, describing a place/person, etc.).

GENC 104  
Foreign Language II - Spanish)  
(Yabancı Dil II - İspanyolca)
Past tense; future tense; modals (can, could, may, must, etc.); speaking, reading, writing and listening skills in these tenses and modals; oral skills (asking questions at a restaurant, ordering food, etc.); reading skills (weather forecast on the internet, recipe, banner/poster content, etc.); writing skills (writing a short message, giving written directions, writing an e-mail/invitation, etc.); listening skills (weather forecast, recipe, etc.).

GENC 202  
Community Services  
(Topluma Hizmet Uygulamaları)
Past tense; future tense; modals (can, could, may, must, etc.); speaking, reading, writing and listening skills in these tenses and modals; oral skills (asking questions at a restaurant, ordering food, etc.); reading skills (weather forecast on the internet, recipe, banner/poster content, etc.); writing skills (writing a short message, giving written directions, writing an e-mail/invitation, etc.); listening skills (weather forecast, recipe, etc.).

HIST 103  
History of Turkish Republic I  
(Atatürk İlkeleri ve İnkılap Tarihi I)
Internal and external reasons for the collapse of the Ottoman Empire; XIX. Innovation movements in the Ottoman Empire in the 16th century; The idea movements in the last period of the Ottoman Empire; XX. At the beginning of the century the political and military situation of the Ottoman Empire; World War I and the Armenian question; Invasion and reactions of Anatolia; Mustafa Kemal Pasha’s departure to Samsun and his activities; congress period and organization; the opening of the last
Ottoman Parliament and the adoption of the National Pact; Preparation for the National Struggle and the material and moral foundations of this preparation; The opening and activities of the TGNA; Treaty of Sevr; The struggles on the southern and eastern fronts; establishment of a regular army; Greek offensive and wars on the Western front; Signing of the Mudanya Negotiation; Convening the Lausanne Conference and signing the Peace Treaty.

HIST 104 (2+0+0) 2 Credits / 3 ECTS
History of Turkish Republic II
(Atatürk İlkeleri ve İnkılap Tarihi II)
Political reforms (abolition of the Sultanate, proclamation of the Republic, abolition of the Caliphate, etc.); revolutions in the social field (hat revolution, closure of dervish lodges and lodges, calendar, time and surname law); reforms in the field of education and culture (Tevhid-i Tedrisat Law, Letters Revolution, Turkish History and Language Revolution); revolutions in the field of law; Attempts and reactions to transition to multi-party life in the period of Atatürk (the establishment and closure of Progressive Republican Fırka, Sheikh Sait rebellion and assassination attempt to Atatürk); Attempts to transition to multi-party political life in the period of Atatürk (establishment of the Free Republican Party, closure and the Menemen Incident); Republican period, Turkey’s economic resources and policy (İzmir Economic Congress); Turkish foreign policy during the period of Atatürk (Population Exchange, membership of the League of Nations, Balkan Entente and Sadabad Pact); Atatürk era of Turkish foreign policy (Montreux Convention Regarding the Regime of the Straits, Hatay to join the motherland, Turkey’s bilateral relations with other countries); Definition, scope and principles of Atatürk’s thought system; After Atatürk’s Turkey, the ruling Democratic Party in the 1960s and 1970s in Turkey, Turkey’s foreign policy after 1960.

TUR 103 (3+0+0) 3 Credits / 5 ECTS
Turkish I
(Türk Dili I)
Writing language and its features; writing and pronunciation; characteristics of written and oral expression; paragraph formation and paragraph types (introduction, development, conclusion paragraphs); ways of developing thought (explanation, discussion, narration, description, identification, exemplification, witness demonstration, comparison etc. applications); text structure (structural features of text, introduction-development-result parts); textual features (cohesion, coherence, purposefulness, acceptability, situationality, informationalism, intertextuality); writing text (drafting, writing, editing and sharing); writing informative-descriptive text; writing narrative text, writing descriptive text; writing controversial and persuasive texts).

TUR 104 (3+0+0) 3 Credits / 5 ECTS
Turkish II
(Türk Dili II)
Characteristics of academic language and writing; using definitions, concepts and terms in academic writings; objective and subjective expression; the structure and types of academic texts (articles, reports and scientific abstracts etc); claiming, writing propositions (verifying an idea, defending or opposing); the formal characteristics of scientific reports and articles; the steps of writing reports;
explanation, discussion, establishing relations between texts, showing references (citation and footnotes, bibliography); writing a title, summarization, writing keywords; ethical principles to be observed in scientific writings; academic text writing applications.

GENC ELECTIVE COURSES

GENC 250 (2+0+0) 2 Credits / 3 ECTS
Addiction and Struggling with Addiction
(Bağımlılık ve Bağımlılıkla Mücadele)
Basic concepts and definitions; types of addiction (substance addiction, technology addiction etc.); reasons of addiction; risk factors which prepare the person for addiction in the family; peer group and social context; communication skills in addicted children; adolescents and adults; the role of social work in addiction; models related to addiction; effort to prevent addiction; consequences of addiction; national policy and strategy methods for fight against addiction; reintegration process.

GENC 251 (2+0+0) 2 Credits / 3 ECTS
Nutrition and Health
(Beslenme ve Sağlık)
Natural and healthy nutrition; fight against obesity; food additives; healthy life and exercise; growth and development; healthy sexual life; struggle with addiction (tobacco, alcohol, substance abuse etc.); traffic, disaster and first aid.

GENC 252 (2+0+0) 2 Credits / 3 ECTS
History and Philosophy of Science
(Bilim Tarihi ve Felsefesi)
Science, philosophy, scientific method; Ancient Greece, Medieval Europe, Scholastic philosophy and science; science and philosophy in Islamic cultural geography, science in Mesopotamia; science and philosophy in Renaissance Europe; science and philosophy in the age of enlightenment; classification of sciences; science, scientism, ideology; ethics and religious relations; science and paradigms; Vienna and Frankfurt thought schools; the twentieth and the twenty-first century science criticism.

GENC 253 (2+0+0) 2 Credits / 3 ECTS
Science and Research Ethics
(Bilim ve Araştırma Etiği)
Science, the nature of science, its development and scientific research; the concept of ethics and ethical theories; research and publication ethics; unethical behaviors and ethical violations in the research process; ethical issues related to authorship and copyright; biased publication; editorship; arbitration and ethics; ethics of broadcasting and unethical behaviors during publication process; legislation and committees on research and publication ethics; ways to identify ethical violations; common research, publication ethics violations and methods to prevent them.
GENC 254 (2+0+0) 2 Credits / 3 ECTS
Economy and Entrepreneurship
(Ekonomi ve Girişimcilik)
Basic concepts of economics and economic systems; basic concepts of business and business management; establishment, objectives and legal structure of the enterprise; management processes and functions in enterprises; human and other resources management; entrepreneur and entrepreneurship; entrepreneurship concepts; success factors in entrepreneurship, entrepreneurship culture, entrepreneurship process and types of entrepreneurship; career planning, original ideas, extraordinary examples; Turkish Patent and Trademark Agency, Industrial Property Law; small and medium-sized enterprises; business idea development, innovation and business plan making, elements of business plan, writing and presentation; preparing a project about entrepreneurship in a specific field and subject.

GENC 255 (2+0+0) 2 Credits / 3 ECTS
Traditional Turkish Handcrafts
(Geleneksel Türk El Sanatları)
Terms and concepts related to traditional Turkish arts; the importance of traditional Turkish arts; contributions to the economy of the individual, society and county; historical development of Traditional Turkish arts (Huns, Gokturks, Uighurs, Seljuks Beyliks and Ottoman Period); Ahilk and Guild Organization; institutions and organizations related to Turkish arts in the Republican period; classification of traditional arts according to raw materials and production techniques; traditional weaving (carpet-rug, fabric etc.), printing, knitting, felt, glass (stained glass, housewares, beads etc.), arts; metal (iron, copper, silver and gold etc.) arts, wood (kündekari, carving and mother of pearl inlay) arts, tile-ceramic and stone processing arts, traditional Turkish arts education, production and marketing.

GENC 256 (2+0+0) 2 Credits / 3 ECTS
Human Rights and Democracy Education
(İnsan Hakları ve Demokrasi Eğitimi)
The concept and historical development of human rights; types of human rights; understanding of democracy; principles, approaches and human rights; democracy education and democratic education; family and democracy education; education as a human right; preschool education and democracy education; primary education curriculum and democracy education; democracy education in secondary education; higher education and democracy education; democratic school and classroom environment.

GENC 257 (2+0+0) 2 Credits / 3 ECTS
Human Relations and Communication
(İnsan İlişkileri ve İletişim)
Definition and classification of human relations; theoretical approaches to interpersonal relations (psychoanalytic, attachment, contemporary theories); theoretical approaches to interpersonal relations (social, psychological, cognitive theories); interpersonal relationships as a developmental process (infancy and childhood, adolescence and adulthood); factors affecting human relations;
gender, gender roles and interpersonal relations; self-adaptation and self-disclosure in interpersonal relationships; communication and communication errors; effective communication skills; interpersonal problems; conflict and conflict resolution approaches; human relations in terms of intercultural differentiation.

GENC 258  
Career Planning and Development  
(Kariyer Planlama ve Geliştirme)
Career concept, career planning and stages; Individual career development, developing a personal career strategy; career planning model, career options related to teaching fields; preparing a curriculum vitae (CV) and types of résumé, CV format and examples, important points to keep in mind while preparing a CV; writing cover letters for resumes introducing themselves, promotional letters, methods and types of job interview preparation to job interview, and stages; situations that may be encountered in interviews; question types, body language signs.

GENC 350  
Culture and Language  
(Kültür ve Dil)
Basic concepts about language and culture; bases and components of culture; verbal and written culture; material and moral culture; individual and communal culture; connective and discriminative culture; acculturation, cultural expansion and harmony; cognitive, symbolic, structural-functional oriented culture; language as system of symbols; effects of culture on human conscious; relationship between culture, language, cognition and reality; language’s function of passing on knowledge and culture, forming social relations and communication; evolution and transfer of language and culture; national identity and culture; dynamics of changes in culture and language; discussions about mutual interactions of changes in culture and language; national cultures; globalization, multilingualism and multiculturalism.

GENC 351  
Media Literacy  
(Medya Okuryazarlığı)
Information literacy; responsible utilization of internet and social media; effects of social media on individuals; power of spreading information and deception; power of dissemination; management of media and perception; internet oriented legal rights and responsibilities; copyright; personal right; privacy of information; violation of privacy; linguistic performance on media; value of news and analysis of quality; popular culture; gender roles on media; consumption culture and advertisements; forming stereotypes on media.

GENC 352  
Vocational English  
(Mesleki İngilizce)
Reading, writing, speaking, listening skills; basic concepts of child development and stages; basic concepts on each level of education (primary and secondary); concepts of educational sciences; dialogue samples of student, teacher and parent; listening and understanding academic talks
(youtube, teachertube, tedx etc.); professional language skills (vocabulary, jargon etc.) writing skills (reading web 2.0 sources); translation studies on education.

GENC 353
Art and Aesthetics
(Sanat ve Estetik)
Art, fine arts, craft and culture; art and education; art, creativity and artwork; philosophy of art and aesthetics; theories of art and aesthetics; art criticism; art history, art in pre-modern, modern and post-modern periods; art and social context; art and everyday life; Turkish-Islamic art-aesthetics and works of art; the position of art and artisan in the process of social change; the development of the arts in Turkey; understanding of art today; civilization and art; art, aesthetics and morality.

GENC 354
Turkish Folk Dance
(Türk Halk Oyunları)
Definition of folklore; rhythm and perception studies, play and folk-figure studies; local differences in folk dances, local figures, bar type, local figure learning, halay and spoon type local figure learning, horon and type of local figure learning, zeybek type local figure learning; studies about learned games, attitude and play styles; staging of folk dances, staging types and differences.

GENC 355
Turkish Sign Language
(Türk İşaret Dili)
Basic concepts related to sign language; Turkish sign language, history and characteristics; letters in Turkish sign language; phonology, the internal structure of sign, synchrony and concatenation, hand alphabet in terms of phonology, morphology in sign language, syntax; word order, sentence types; interrogative sentences in sign language; semantics, meaning and reference, types of meaning, idioms in sign language; conversation with the Turkish sign language.

GENC 356
Turkish Cultural Geography
(Türk Kültür Coğrafyası)
Culture, people and society; Turkish culture and Turkish civilization; The first ethnographic sources about Turks; Turkish states in history; Turkish state, administrative, military and social structure; Folk beliefs and mythology in Turks; The relationship between human and space in Turks; Verbal, written and material culture in Turks; Family structure in Turks; Demographic and cultural consequences of migrations in Turkish history; Turkish culture and its impact on other regions around; Tangible and intangible cultural heritage; transfer of natural and cultural heritage to future generations.
GENC 357  (2+0+0) 2 Credits / 3 ECTS
Turkish Classical Music
(Türk Musikisi)
Music elements belonging to Turkish communities living in Central Asia and Anatolia, Turkish mythology (human, creation, religious rituals and holidays etc.), mythological elements in Turkish Folk Music repertoire, types of music in Turkish State and Communities, Turkish Folk Music in historical process and the development of Turkish Art Music; interaction of different traditions and styles related to music; examination of instruments, composers, performers and sample works.

GENC 358  (2+0+0) 2 Credits / 3 ECTS
Turkish Art History
(Türk Sanatı Tarihi)
Art styles from Hun Art to Göktürk, Uygur, Karahanlı, Ghaznavid, Great Seljuk, Anatolian Seljuks, Principalities and Ottoman period, architectural, sculpture and painting examples of these periods are examined comparatively; Turkish art and artists starting from Republic Period Art.
DEPARTMENT OF EDUCATIONAL SCIENCES

Chair
Prof. Nilüfer Voltan Acar

Academic Staff

* Research Assistant

Undergraduate Program in Guidance and Psychological Counseling

The main purpose of the program is to raise guidance and psychological counseling professionals who will primarily work at K-12 schools with all the stakeholders involved to support their academic, occupational, personal, and social development in a variety of work settings. The other aim of the program is to prepare qualified counselors, who have reflective and critical thinking, as well as leadership skills, and who can contribute to GPC practices at the national and the international level.

Program Outcomes

Guidance and psychological counselors graduating from GPC program at TEDU will demonstrate the following learning outcomes:

1. Apply the relevant research methods (qualitative and/or quantitative), collect, analyze and interpret data, and share the results with the stakeholders in order to monitor and improve students’ development.

2. Apply both the formal and informal assessment techniques in an attempt to interpret students’ strengths and needs as well as to evaluate the effectiveness of psychoeducational programs.

3. Relate content knowledge and fundamental counseling skills to enhance the academic, emotional, moral, social, and physical development of students.

4. Identify appropriate counseling methods of prevention and intervention for individuals and groups, and critically interpret and evaluate the theory and research underlying these methods.

5. Design and implement prevention and intervention strategies to meet the needs of individuals and groups.

6. Judge the coherence and consistency of moral and ethical values and act with personal and professional integrity.

7. Design comprehensive school guidance and group counseling programs, and lead the implementations of these programs with an ability to collaborate in team work with all the stakeholders (e.g., students, teachers, administrators, parents and others).

8. Analyze complex problems related to education in general and guidance and psychological counseling programs in particular within an interdisciplinary framework.
9. Manage personal affairs including problem solving and time management skills, and self-discipline.
10. Effectively use English and Turkish language in both oral and written communication to support his/her personal and professional development.
11. Engage in lifelong learning by following the developments, staying up-to-date and pursuing self-development personally and practicing self-assessment at every opportunity.
12. Value individual and cultural differences (race, ethnicity, class, gender, language, belief system, sexual orientation, and political opinion).

**Undergraduate Curriculum**
*(2017-2018 and Before)*

### Semester 1

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**TOTAL** 9 12 0 15 29

**Totals expected for graduation** 90 59 2 120 188
Undergraduate Course Descriptions
(2017-2018 and Before)

GPC 301 (3+0+0) 3 Credits / 5 ECTS
Behavioral Disorders
(Davranış Bozuklukları)
Concepts of normal and abnormal behavior, theoretical approaches and intervention techniques to abnormal behavior. Understand classification systems such as DSM (The Diagnostic and Statistical Manual for Mental Disorders) criteria.

GPC 303 (2+2+0) 3 Credits / 5 ECTS
Measurement and Evaluation
(Ölçme ve Değerlendirme)

GPC 311 (2+2+0) 3 Credits / 5 ECTS
Career Guidance and Counseling
(Mesleki Rehberlik ve Danışma)

GPC 321 (3+0+0) 3 Credits / 5 ECTS
Counseling Theories
(Psikolojik Danışma Kuramları)
Basic counseling theories and approaches. Basic concepts, principles and strategies regarding these counseling theories and approaches. Putting together theories into practice and new approaches.

GPC 322 (2+2+0) 3 Credits / 5 ECTS
Principles and Techniques of Counseling
(Psikolojik Danışma İlke ve Teknikleri)
Principles of counseling. Process and stages of counseling. Basic counseling skills and techniques. Practice of these basic skills and techniques.

GPC 332 (2+2+0) 3 Credits / 5 ECTS
Group Counseling
(Grupla Psikolojik Danışma)
Basic concepts and principles of group counseling. Process of group counseling. Skills and techniques of group counseling. Stages of group counseling. Working with different problems and age groups.
GPC 342  
Psychological Assessment  
(Psikolojik Değerlendirme Yöntemleri)  

GPC 382  
Field Practice in Career Guidance and Counseling  
(Mesleki Rehberlik ve Danışmada Alan Çalışması)  
Application and assessment of measurement instruments used in career guidance and practice. Developing career development programs, career guidance and practice with individuals and groups.

GPC 411  
Ethical and Legal Issues in Counseling  
(Meslek Etiği ve Yasal Konular)  
The professional ethical laws in counseling area and general application standards. Client rights. Legal responsibilities of counselors. Legal problems. Multiculturalism and individual differences.

GPC 421  
Culturally Sensitive Counseling  
(Kültüre Duyarlı Psikolojik Danışma)  
Understand the importance of cultural differences. Theories and methods in culturally sensitive counseling. Education, professional and ethical issues in culturally sensitive counseling. Increasing cultural awareness and cultural sensitivity. Evaluate applicability of counseling theories to Turkish Culture.

GPC 471  
Research Project  
(Araştırma Projesi)  
Supervised individual research about guidance and psychological counseling.

GPC 472  
Capstone Experiences in Guidance and Counseling  
(Rehberlik ve Psikolojik Danışma Bitirme Projesi)  
Research proposal or project in the field of psychological counseling as a final piece of an undergraduate degree. Practice in school internship. Oral presentation and paper submission.

GPC 481  
Field Practice in Individual Counseling  
(Bireyle Psikolojik Danışma Uygulaması)  
Counseling with individuals using basic counseling skills and methods under supervision.
GPC 482  (1+4+0) 3 Credits / 7 ECTS
Field Practice in Group Counseling
(Grupla Psikolojik Danışma Uygulaması)
Examination of educational, vocational, individual guidance activities in preschools, primary and secondary schools. Application and assessment of test and individual appraisal techniques. Develop and practice group guidance programs in various subjects.

GPC 484  (1+4+0) 3 Credits / 7 ECTS
Field Practice in School Counseling Services
(Kurum Deneyimi)
A hands-on learning in a real-world setting to gain experience and knowledge in schools. Allow students to participate in counselor educational programs under the supervision of a professional counselor.

Undergraduate Curriculum
(2018-2019 and After)

Semester 1

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**Totals expected for graduation**  
|              | 134 | 26  | 147 | 240 |
Undergraduate Course Descriptions
(2018-2019 and After, 1st and 2nd Year Courses)

COMPULSORY COURSES

PCG 101
Introduction to Psychology
(Psikolojiye Giriş)
Definition of psychology, history of psychology, fields of psychology (social psychology, clinical psychology, educational psychology, etc.); psychological theories (behavioristic theories, cognitive theories, existential theory, etc.); biological bases of psychology, intelligence and its theories, sensation and perception, memory; personality and its theories, abnormal behaviors, motivation, emotion, defense mechanisms.

PCG 102
Developmental Psychology I
(Gelişim Psikolojisi I)
Basic concepts and principles about development, factors influencing development: genetic factors, environmental factors, historical time factor; theories of development: Freud’s psychosocial development theory, Erikson’s psychosocial development theory, Piaget’s cognitive development theory, Maslow’s personality development theory, Levinson’s development theory, ecological approach (Bronfenbrenner); prenatal development, physical development in childhood, cognitive development, personality development, moral development; physical development in adolescence, adolescence-specific developmental tasks, cognitive development in adolescence, personality development, moral development and psychosocial development.

PCG 103
Cultural Antropology
(Kültürel Antropoloji)
Basic subjects of anthropology and the concept of culture; the history of cultural anthropology and cultural change, culture and values, the concepts related to culture (language, ecology, modes of production and economy), gender, marriage, family, kinship and ancestry systems; symbolic meanings of social organizations and ceremonies; anthropology of religion, communication, economics, education, film and photography, history, journalism, law, linguistics, literature, medicine, political science and sociology.

PCG 104
Physiological Psychology
(Fizyolojik Psikoloji)
The field and research methods of physiological psychology; physiology and anatomy of the organism, behavioral mechanisms and sensory functions, motor functions and emotions, motivation and its physiological basis, functional disorders and their causes.
PCG 106  
Guidance and Psychological Counseling in Schools  
(Okullarda Rehberlik ve Psikolojik Danışma)
Basic concepts and principles related to GPC, history, field and branches of GPC; research and assessment methods, psychological counseling process, theories of psychological counseling, school counseling models (traditional and developmental), school counseling approaches (crisis-oriented, therapeutic-remedial, preventive and developmental), the purpose and principles of traditional school counseling, roles and functions of the school counselors, the purpose, principles and program of developmental school counseling (Comprehensive Developmental Guidance Program), basic services/interventions and roles and functions of the developmental school counselor; purpose and principles of developmental and preventive approaches in GPC, importance of life skills training in developmental approach, positive youth development approaches and levels of prevention in preventive approach (primary, secondary and tertiary).

PCG 201  
Developmental Psychology II  
(Gelişim Psikolojisi II)
Transition to adulthood (emerging adulthood); basic characteristics of early adulthood, developmental tasks specific to early adulthood, close relationships in early adulthood, adaptation to worklife in early adulthood; basic characteristics of middle adulthood, developmental tasks and problems specific to middle adulthood, physical development in middle adulthood, cognitive development in middle adulthood, personality development in middle adulthood, psycho-social development in middle adulthood, basic characteristics of late adulthood, developmental tasks specific to late adulthood, physical development in late adulthood, personality development in late adulthood, cognitive development in late adulthood and psycho-social development in late adulthood.

PCG 202  
Personality Theories  
(Kişilik Kuramları)
Basic concepts related to personality; Personality development; Adjustment and mental health; Characteristics and comparison of personality theories; Making connection of theories of personality with counseling practices.

PCG 203  
Psychology of Learning  
(Öğrenme Psikolojisi)
Basic principles and concepts of learning, factors influencing learning (related to learner, learning materials, strategy of learning, and learning environment), theories of learning (behavioral approach, cognitive approach, humanistic approach), effective learning methods and strategies.
PCG 204  
Life Span and Adjustment Problems  
(Yaşam Dönemleri ve Uyum Sorunları)  
(2+0+0) 2 Credits / 2 ECTS  
Considering the concepts of normality and abnormality from various aspects, diagnosis systems and criteria of adjustment disorders in diagnosis systems, distinctive diagnosis criteria of identification of adjustment disorders (post-traumatic stress disorder, operational defiant disorder, aspects of behavioral disorders), reasons of why adjustment disorders are considered according to development period, preventive and risky factors in adjustment disorders; early childhood period, junior, adolescence, early adulthood, adulthood, late adulthood adjustment disorders and coping with them.

PCG 205  
Social Psychology  
(Sosyal Psikoloji)  
(2+0+0) 2 Credits / 4 ECTS  
The field of social psychology and its research methods; social perception and social cognition, attitudes and attitude change theories; psychological processes affecting social behavior, social influence and conformity, group dynamics, interpersonal relations.

PCG 206  
Character and Values Education  
(Karakter ve Değer Eğitimi)  
(2+0+0) 2 Credits / 3 ECTS  
Conceptual framework: Character, personality, value, virtue, morality, temperament etc.; character development and education; family, environment, and the school in character development and education; definition and classification of values; sources and personal, societal, cultural, religious, and moral foundations of values; approaches to and applications of character and values education; cross-cultural differentiation in character and values education, and culture of co-existence; character and values education from the philosophy of and goals of education; instructional methods and techniques in character/value education; value crisis and education in the modern and multicultural societies; examples of value education from Turkish history of education and culture; values education applications and research in Turkey; teacher as a role model in character and values education.

PCG 207  
Basic Statistics  
(Temel İstatistik)  
(2+0+0) 2 Credits / 4 ECTS  
Basic concepts about statistics, data organization, descriptive statistics, probability calculations, probability distributions, parametric and nonparametric hypothesis tests, types of correlation, simple linear regression analysis, t tests, analysis of variance and software application of these statistics.

PCG 208  
Non-Testing Techniques  
(Test Dışı Teknikler)  
(1+2+0) 2 Credits / 3 ECTS  
Non-test self-expression techniques such as interviews, questionnaires, information collecting slips, marking lists, time table, autobiography, observation, grading scale, sociometry, who are observational techniques such as case study, case recording, development of situational tests such as case registration, validity and reliability related studies.
ELECTIVE COURSES

PCG 250 (2+0+0) 2 Credits / 4 ECTS
Sexual Health Education
(Cinsel Sağlık Eğitimi)
Sexual information which is necessary for protecting and improving physical, emotional and social health; precautions, different sexual behaviors; cultivating attitudes and values, decision-making, being able to define safe sexual behaviors.

PCG 251 (2+0+0) 2 Credits / 4 ECTS
Child Abuse and Neglect
(Çocuk İstismarı ve İhmali)
Basic concepts of child abuse and neglect; children rights, theories and models, the impact of child abuse and neglect on children, therapeutic process, psycho-educational programs on child abuse and neglect, code of laws regarding child abuse and neglect, research on child abuse and neglect.

PCG 252 (2+0+0) 2 Credits / 4 ECTS
Psychological Counseling with Children and Adolescence
(Çocuk ve Ergenlerle Psikolojik Danışma)
Developmental features of child and adolescents and their reflections on psychological counseling process; principles and techniques of counseling process with child and adolescents; planning the psychological counseling process, structuring and leading the counseling session; effective counseling theories for child and adolescents, individual and group counseling with child and adolescents, counseling with child and adolescents with special needs, counseling during and after divorce, ethical and legal issues.

PCG 253 (2+0+0) 2 Credits / 4 ECTS
Affective Education
(Duyuşsal Eğitim)
Definition of affect, categorization of affective domain, stages of affective domain: receiving, responding, evaluation, organization, attitude and behavior change; perspectives of affective education, practicing affective education, importance of affective dimension of education in psychological counseling and guidance.

PCG 254 (2+0+0) 2 Credits / 4 ECTS
Short-Term Psychological Counseling
(Kısa Süreli Psikolojik Danışma)
Cognitive, affective and behavioral therapy models and short-term therapy history; principles and techniques of solution oriented counseling, structuring solution oriented counseling sessions, techniques used, solution oriented counseling with children and adolescents.
PCG 255 (2+0+0) 2 Credits / 4 ECTS
Crisis Intervention (Krize Müdahale)
Crisis intervention and the definition of crisis, causal factors of crisis, models and techniques of crisis intervention, reactions of crisis victims, crisis in childhood and adolescence, crisis prevention, assessment of suicide, intervention strategies on individual and group base with the consideration of the developmental stage.

PCG 256 (2+0+0) 2 Credits / 4 ECTS
Culturally Sensitive Counseling (Kültüre Duyarlı Psikolojik Danışma)
Culture, the history of culturally sensitive counseling practices; the reasons behind the development of culturally sensitive counseling practices; culturally sensitive counseling competencies; practices of culturally sensitive counseling.

PCG 257 (2+0+0) 2 Credits / 4 ECTS
Mental Health at Schools (Okulda Ruh Sağlığı)
The definition of mental health and related concepts; mental health in theories of psychology, factors effecting mental health at schools, mental health at schools and humanistic perspective of education, mental health at schools according to developmental stages; cognitive and affective learning and their relation with mental health.

PCG 258 (2+0+0) 2 Credits / 4 ECTS
Preventive Guidance and Counseling (Önleyici Rehberlik ve Psikolojik Danışma)
The prevention mission of guidance and psychological counseling; prevention levels, theories of prevention, essential life skills and positive youth development programs; cyberbullying, sexual abuse, technology and drug abuse, suicide, school dropout, counseling and reporting for children under probation.

PCG 259 (2+0+0) 2 Credits / 4 ECTS
Gifted Children and Their Education (Özel Yetenekli Çocuklar ve Eğitimi)
Introduction to identification techniques of the intellectual and developmental characteristics of the gifted and talented, appropriate prevention psychological counselling and guidance services for gifted and talented students, points to consider in preparation of individual education and counselling program and introduction to application examples.

PCG 260 (2+0+0) 2 Credits / 4 ECTS
Consultation in Psychological Counseling and Guidance (Psikolojik Danışma ve Rehberlikte Konsültasyon)
School counseling and consultation services, consultation principles and techniques; implementation of consultation services for families and teachers, analyzing efficacy research related to consultation services, cooperation with administration.
PCG 261 (2+0+0) 2 Credits / 4 ECTS
Social Skills Training
(Sosyal Beceri Eğitimi)
Concepts related to social skills, components of social skills, social skill acquisition, models and measurement of social skills, social skills for dealing with difficult people; emotional expressivity, emotional awareness, emotion regulation; social expressivity, social awareness and social control.

PCG 262 (2+0+0) 2 Credits / 4 ECTS
Applied Behavior Analysis
(Uygulamalı Davranış Analizi)
Learning theories, basic principles of applied behavior analysis, determination of target behaviors, data recording techniques, drawing and interpreting graphics, reinforcement, hint and its types, shaping, symbol reinforcement, evaluation of problem behaviors and reduction of inappropriate behaviors.

PCG 263 (2+0+0) 2 Credits / 4 ECTS
Creative Drama
(Yaratıcı Drama)
Basic concepts of creative drama, historical development of creative drama; planning, implementing, and evaluating creative drama process according to developmental periods and individual differences of individuals; developing positive attitude toward creative drama.

PCG 264 (2+0+0) 2 Credits / 4 ECTS
Contemporary Approaches and Models in Counseling
(Yeni Psikolojik Danışma Yaklaşımları ve Modelleri)
New and different counseling approaches and models, concepts, principles and techniques that form the basis of these approaches and models; to have knowledge about conceptualizing and evaluating the problems of the client in the context of the subject approach and model, and sample applications.

PCG 265 (2+0+0) 2 Credits / 4 ECTS
Adult Education and Lifelong Learning
(Yetişkin Eğitimi ve Hayat Boyu Öğrenme)
Definition of adulthood, characteristics of adulthood period, school counseling services and adults, adult learning styles, problems during adulthood, characteristics of adult educators, educational principles, instructional methods and techniques, types of curriculum, and learning environments for adults.

PCG 270 (2+0+0) 2 Credits / 4 ECTS
Family Counseling and Ethics
(Aile Danışmanlığı ve Etik)
Ethical principles and standards of general professional practice, ethical issues in specialty areas, ethical and professional decision making, client rights, responsibilities of family counselor, legal issues.
PCG 271  (2+0+0) 2 Credits / 4 ECTS
Family Relations and Communication  
(Aile İçi İlişkiler ve İletişim)
Structure of family and communication patterns, effective communication skills in family, basic communication skills, I-you language, dysfunctional communication patterns, communication between couples, parent-child communication education and family communication.

PCG 272  (2+0+0) 2 Credits / 4 ECTS
Family Violence  
(Aile İçi Şiddet)
Family structure and dysfunctional family patterns; types of violence and its indicators, incest, support to family member who is victim of violence; mandated counselling for bully family member; types of domestic violence, causes and consequences of domestic violence, prevalence of domestic violence; primary, secondary and tertiary prevention topics.

PCG 273  (2+0+0) 2 Credits / 4 ECTS
Addiction Education for Families  
(Ailede Bağımlılık Eğitimi)
Causes, types and stages of addiction; treatment process in addiction; medical support to addicted family member, legal process, supervised liberation process, mandatory counseling for addicted family member, family support process with systemic model, coordination of narcologist, psychiatrist and family counselor.

PCG 274  (2+0+0) 2 Credits / 4 ECTS
Parental Education  
(Ana-Baba Eğitimi)
Differences between pedagogy and andragogy, basic features of adult students; types of parental education, history of parental education, Parent’s effectiveness training, principles of parental education formation, parental attitudes, the methods of familial healthy communication.

PCG 275  (2+0+0) 2 Credits / 4 ECTS
Divorce and Divorce Conciliation  
(Boşanma ve Boşanma Arabuluculuğu)
Problems during divorce process, models of divorce process, effects of divorce, possible domestic abuse during divorce, psychological support for parents and children during divorce, counseling for adjustment to divorce, coordination with mediator during divorce.

PCG 276  (2+0+0) 2 Credits / 4 ECTS
Pre-marital Counseling  
(Evlilik Öncesi Psikolojik Danışma)
Premarital period and romantic relationships, choosing a mate and factors affecting choosing a mate; theories of mate selection; premarital individual counseling, premarital couples counseling, examples of premarital psychoeducational programs.
PCG 277  (2+0+0) 2 Credits / 4 ECTS
Culturally Sensitive Family Counseling  
(Kültüre Duyarlı Aile Danışmanlığı Kültüre Duyarlı Aile Danışmanlığı)
Revisiting theories of family counseling in terms of culturally sensitive way; comparing and contrasting the culture of the theories in which were developed and the native cultural characteristics of in which will be applied; recognition of cultural backgrounds of the family; reflecting the counselor competencies in practices.

PCG 278  (2+0+0) 2 Credits / 4 ECTS
Gender Equality  
(Toplumsal Cinsiyet Eşitliği)
Psychosocial development, gender and related concepts, models and theories; gender roles, stereotypes, scales and related studies; gender and education, development within the gender equality, gender and process of psychological counselling.

PCG 279  (2+0+0) 2 Credits / 4 ECTS
Child and Family in Turkish Culture  
(Türk Kültüründe Aile ve Çocuk)
Structure of Turkish Family; child rearing practices and the value of child in different Turkish states; culture of, traditions and customs in families in Anatolia; the interactions between extended and nuclear family; marriage rituals, funeral ceramonies, roles and responsibilities of culturally sensitive family counselor.

PCG 280  (2+0+0) 2 Credits / 4 ECTS
Psychology of Close Relationships  
(Yakın İlişkiler Psikolojisi)
Definition of close relationship, theories, processes and important dynamics in close relationships, developing a wider and cultural perspective in close relationships, starting, maintaining, and ending close relationships, conceptualization of problems of the clients in close relationships.

PCG 301  (2+0+0) 2 Credits / 3 ECTS
Behavioral Disorders I  
(Davranış Bozuklukları I)
Causes and classification of behavior disorders in childhood and adolescence; behavioral disorders in children and adolescents according to diagnostic criteria and DSM V diagnostic criteria; intervention methods and clinical observation.

PCG 302  (2+0+0) 2 Credits / 2 ECTS
Behavioral Disorders II  
(Davranış Bozuklukları II)
Definition and causes of behavior disorders according to different theories; Classic classification and DSM V diagnostic criteria, behavioral disorders in adults according to DSM V diagnostic criteria, intervention behavioral disorders in children and adolescents according to diagnostic methods and clinical observation criteria and DSM V diagnostic criteria, intervention methods and clinical observation.
PCG 303  (1+2+0) 2 Credits / 3 ECTS
Psychological Tests
(Psikolojik Testler)
Basic concepts and principles of psychological tests, individual and group intelligence tests, achievement, ability and personality tests, interest inventories, application and evaluation of some tests and inventories.

PCG 304  (1+2+0) 2 Credits / 4 ECTS
Counseling Skills
(Psikolojik Danışma Becerileri)
Applying the concepts of learning therapeutic skills and conditions, defining the behavioral goals, using the advanced counseling skills, terminating and following up.

PCG 305  (2+0+0) 2 Credits / 3 ECTS
Principles and Techniques of Counseling
(Psikolojik Danışma İlke ve Teknikleri)
Psychological counseling process and its stages, therapeutic conditions and to understand the importance and function of basic and advanced counseling skills, to create therapeutic conditions and to establish a relationship between counselor and client; to be able to use basic counseling skills, sample practice related to topics.

PCG 306  (2+0+0) 2 Credits / 3 ECTS
Group Counseling
(Grupla Psikolojik Danışma)
Concepts and principles of group counseling, group process, skills and techniques in group counseling, phases of group, group dynamics, groups about different problems and about different lifespan.

PCG 307  (2+0+0) 2 Credits / 2 ECTS
Theories of Counseling
(Psikolojik Danışma Kuramları)
Mainstream counseling theories and approaches. Basic concepts, principles, and strategies regarding these counseling theories and approaches. Having knowledge about conceptualizing and evaluating the problems of the counselee within the framework of mainstream counseling theories and practices.

PCG 308  (1+2+0) 2 Credits / 2 ECTS
Field Practice in Career Guidance and Counseling
(Mesleki Rehberlik Uygulamaları)
Applying and evaluating the measurement tools used in career guidance and career counseling; preparing and implementing career development programs; individual and group career counseling.

PCG 309  (2+0+0) 2 Credits / 2 ECTS
Career Guidance and Counseling
(Mesleki Rehberlik)
PCG 310  
Spiritual Counseling  
(Manevi Danışmanlık)  
Basic concepts of and history of spiritual counseling; theories of psychological counseling and spirituality; cultural foundations of spiritual counseling; religious traditions, beliefs and spiritual counseling; competencies of spiritual counselling; measurement in spiritual counselling; techniques of spiritual counseling; institutional spiritual counselling; fields of application of spiritual counselling; ethics in spiritual counselling.

PCG 350  
Computer-Assisted Career Guidance System  
(Bilgisayar Destekli Kariyer Danışmanlığı)  
Domestic and foreign information systems and computer-based career counseling programs offering services over the internet; to develop knowledge and skills about the evaluation of these systems, the standards that the systems should have, and the use of the systems within the framework of ethical standards.

PCG 351  
Sociology of Work  
(Çalışma Sosyolojisi)  
The concepts of work and work sociology, history of work relations, industrial work and organizations, division of labor and its theories, workgroups and the social structure of work, work relationships in industrial work settings, knowledge society and its basic characteristics, contemporary problems of work life, new work formats.

PCG 352  
Career Guidance with the Disadvantaged  
(Dezavantajlı Gruplarla Kariyer Danışmanlığı)  
To gain knowledge, skills and attitudes in preparing and implementing individual and group career intervention programs for disadvantaged, minority and different groups (eg immigrants, disabled, convicts, retirees, etc.).

PCG 353  
Industrial and Organizational Psychology  
(Endüstri ve Örgüt Psikolojisi)  
Investigation of individual behavior in work settings in order to develop scientifically-based solutions to the problems in work and industry; social and psychological processes necessary to develop and improve the workplace; investigation and assessment of employee behavior using quantitative methods.
PCG 354  (2+0+0) 2 Credits / 4 ECTS
Guidance and Counseling in Industry  
(Endüstride Rehberlik ve Psikolojik Danışma)
Relationship between working life and socio-economic and political systems; industrial psychology and field of study; communication patterns, motivation between group and group behaviors, problems of productivity, industrial democracy and participation in governance and their scientific methods.

PCG 355  (2+0+0) 2 Credits / 4 ECTS
Human Resources Management  
(İnsan Kaynakları Yönetimi)
The evolution of the concept of human resources, the three main sources and relationships of organizations; personnel selection, leadership, team building and management, innovation management, human resource management, management economics, communication techniques and development, crisis management, budgeting and money management, digital marketing and social media management.

PCG 356  (2+0+0) 2 Credits / 4 ECTS
Job Analysis and Performance Appraisal  
(İş Analizi ve Performans Değerlendirmesi)
Definitions of job, occupation, and carrier, job analysis techniques, performance appraisal, organizational management and the importance of job analysis, analysis of job characteristics, job analysis for different positions, criterions, effectiveness evaluation, productivity measurement, organizational carrier planning and analysis of the employees.

PCG 357  (2+0+0) 2 Credits / 4 ECTS
Occupational and Vocational Counseling  
(İş ve Meslek Danışmanlığı)
Business management, techniques used in personnel selection; the organization’s career planning, career development, performance evaluation and management; trainings that support the personal development of employees and managers (time management, effective communication, conflict resolution, sensitivity training, leadership training, etc.).

PCG 358  (2+0+0) 2 Credits / 4 ECTS
Career Information Resources  
(Kariyer Bilgi Kaynakları)
The career planning process, the responsibilities of career counselors in the process, the methods of using information of the decision makers and the criteria that can be used to evaluate the quality of information, labor market, basic information sources of public and private sector and major occupational classification systems.
PCG 359  (2+0+0) 2 Credits / 4 ECTS
Career Guidance Interview Skills
(Kariyer Danışmanlığında Görüşme Becerileri)
Interview techniques, rules to be followed in selecting personnel; organizational career planning; job descriptions, interview techniques and rules to be followed in the interview.

PCG 360  (2+0+0) 2 Credits / 4 ECTS
Life Career Development in Schools
(Okullarda Yaşam Kariyeri Gelişimi)
Planning and implementation of GPC intervention programs to support the preparation of students for life events, life spaces and roles that they may encounter in accordance with their developmental characteristics and tasks; career interview planning and implementation, preparing group programs.

PCG 361  (2+0+0) 2 Credits / 4 ECTS
Life-Span Career Development
(Yaşam Boyu Kariyer Gelişimi)
Considering career development as a dynamic process based on the continuous and unpredictable change of the individual and work life; approach and assistance services for lifelong career development; strategies that can be applied in educational and industrial institutions.
DEPARTMENT OF ELEMENTARY EDUCATION

Chair
Assoc. Prof. Sühendan Er

Academic Staff

* Research Assistant

Undergraduate Program in Early Childhood Education

The Early Childhood Education undergraduate program within the Department of Elementary Education at TED University serves the community with faculty members and research assistants. The program is located at the Kolej Campus of TED University.

Early Childhood Education is usually defined as the care and education of young children (from birth to age eight). The program is based on the premise that children best learn in a material-rich learning environment where children spend most of their time playing. Thus, the goal of the early childhood undergraduate program at TED University is to train high quality early childhood teachers, capable of supporting the development and learning of young children. This is done in a rich learning environment and can contribute to early childhood education at the national and international level.

Program Outcomes

Graduates of the Early Childhood Education program will demonstrate the following learning outcomes:

1. Integrate knowledge of child development and learning, subject-matter/disciplinary content, interdisciplinary themes, research and inquiry methods to early childhood pedagogy.

2. Create developmentally and culturally appropriate early childhood learning environments that encourage individual and collaborative learning.

3. Cooperate and collaborate with colleagues, families, community, other individuals and agencies in ways that contribute to development and learning of young children.

4. Use multiple tools and methods of early childhood assessments to continuously monitor and document children's progress and to guide instruction.

5. Utilize appropriate pedagogical and professional knowledge and skills in planning, implementation, and evaluation of early childhood curriculum and services.

6. Demonstrate commitment to early childhood profession, professionalism, lifelong learning, ethics, personal and professional growth.

7. Value diverse opinions, belief systems, cultures and contribution of others.

8. Demonstrate critical thinking skills, inquiry, creativity, initiative and innovation to solve a range of problems in everyday situations.

9. Access and analyze information from a variety of sources, including information and communication technology, to attain personal and professional goals.

10. Demonstrate skills in self-discipline, time and information management, individual and team work in interdisciplinary projects.
11. Demonstrate competence in effective communication in written, spoken, nonverbal and electronic forms.

12. Use English at B2 level to support personal and professional activities.

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**Undergraduate Curriculum**

*(2017-2018 and Before)*

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Totals expected for graduation | 96 | 82 | 2 | 138 | 240 |
Undergraduate Course Descriptions  
(2017-2018 and Before)

ECE 201  
Introduction to Early Childhood Education  
(Okul Öncesi Eğitime Giriş)


ECE 202  
Curriculum in Early Childhood Education  
(Okul Öncesi Eğitimi Eğitim Programı)


ECE 203  
Child Development and Learning  
(Çocuk Gelişimi ve Öğrenme)

Physical, cognitive, social, emotional, and language characteristics of children ages between birth to eight. Contextual factors that affect young children’s development and learning. Theories of child development and learning. Application of child development and learning theories to early childhood learning teaching.

ECE 204  
Child Health, Safety and Nutrition  
(Çocuk Sağlığı, Güvenliği ve Beslenmesi)


ECE 205  
Development and Education of the Gifted  
(Üstün Yeteneklerin Gelişimi ve Eğitimi)

ECE 206 (2+2+0) 3 Credits / 5 ECTS
Children, Play and Learning
(Çocuk, Oyun ve Öğrenme)

ECE 207 (2+2+0) / 3 Credits / 6 ECTS
Drama in Education
(Eğitimde Drama)
Concept of creative drama. Different types of drama. Drama techniques. Improvisation. Role of drama in active learning, exploration and imagination. Role of drama in the development and education of children. Integration of music, movement, visual arts, and literature into drama. Integration of pedagogic drama across elementary education curriculum.

ECE 242 (2+2+0) 3 Credits / 5 ECTS
Language Development and Literacy Education
(Dil Gelişimi ve Okuma Yazma Eğitimi)
Expressive and receptive language skills in early years. Emergent literacy activities in preschool. Assessment of language development and learning in early and primary school years. Listening, speaking, visual reading and visual presentation. Properties of the Turkish language and its effects on literacy education. Goals and principles of literacy education. Principal characteristics of first-grade teacher and students. Emergent literacy teaching methods. Phonetic based sentence method. Teaching letters through cursive italic writing. (The language of instruction in this course is both Turkish and English)

ECE 302 (2+2+0) 3 Credits / 5 ECTS
Learning Environments
(Öğrenme Ortamları)

ECE 311 (3+2+0) 4 Credits / 7 ECTS
Early Childhood Math, Science and Technology Education
(Okul Öncesi Matematik, Fen ve Teknoloji Eğitimi)
ECE 342
School Readiness and Transition
(İlköğretim Hazırlık)

ECE 381
Early Childhood Education Practicum I
(Okul Öncesi Eğitimi Okul Deneyimi I)
Early childhood field experience with children ages between zero and five. Instructional planning. Design of early childhood learning environment. Working as an assistant teacher. Assessment of children’s learning. Parent involvement. Early childhood professional development activities. (The language of instruction in this course is both Turkish and English.)

ECE 382
Early Childhood Education Practicum II
(Okul Öncesi Eğitimi Okul Deneyimi II)
Early childhood field experience with children ages of five and six. Instructional planning. Design of early childhood learning environment. Working as an assistant teacher. Assessment of children’s learning. Parent involvement. Early childhood professional development activities. (The language of instruction in this course is both Turkish and English.)

ECE 471
Research Project in Early Childhood Education
(Okul Öncesi Eğitimi Araştırma Projesi)
Preparation for an early childhood research project. Implementation of the research phases. Writing research reports.

ECE 472
Capstone Experience in Early Childhood Education
(Okul Öncesi Eğitimi Bitirme Projesi)
Development of a professional teacher portfolio. Developmentally appropriate teaching activities. Samples of instructional plans. Early childhood learning environment design. Samples of school, family and community relationships. Samples of assessment activities. Professional development activities. Presentation of this professional portfolio.

ECE 481
Student Teaching in Early Childhood Education I
(Öğretmenlik Uygulaması I)
Independent student teaching experience with children ages between zero and five in different early childhood education programs. Instructional planning. Design of learning environments. Assessment of learning. Provision of parent involvement. Participation in professional development activities. (The language of instruction in this course is both Turkish and English.)
ECE 482
Student Teaching in Early Childhood Education II
(Öğretmenlik Uygulaması II)
Independent student teaching experience with children ages of five and six in different early childhood education programs. Instructional planning. Design of learning environments. Assessment of learning. Provision of parent involvement. Participation in professional development activities. (The language of instruction in this course is both Turkish and English.)

Undergraduate Curriculum
(2018-2019 and After)

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**Undergraduate Course Descriptions**
*(2018-2019 and After, 1st and 2nd Year Courses)*

**COMPULSORY COURSES**

**ECEP 101**
*(3+0+0) 3 Credits / 5 ECTS*

*Introduction to Early Childhood Education*
*(Erken Çocukluk Eğitimine Giriş)*

Principles and definition of early childhood, foundations and historical development of early childhood education. Early childhood education across nations and in Turkey. Needs and developmental characteristics of children. Early childhood teacher characteristics. Types of early childhood institutions (kindergarten, preschool, etc.). Physical, social and educational environment characteristics. The role and the importance of families in early childhood.

**ECEP 102**
*(3+0+0) 3 Credits / 5 ECTS*

*Development in Early Childhood Education*
*(Erken Çocukluk Döneminde Gelişim)*

Basic concepts about physical, motor, cognitive, language, social-emotional, personality development, moral development and sexual development of children aged 36-72 months, developmental theories; factors affecting developmental areas; developmental characteristics; relation of development areas.

**ECEP 103**
*(2+0+0) 2 Credits / 3 ECTS*

*Child Health and First Aid*
*(Çocuk Sağlığı ve İlk Yardım)*

Definition of child health; the conditions of child health in Turkey and in the world; child development in pregnancy; the effects of pregnancy diseases and accidents on child development; physical development of 0-8 years (tooth, height, weight), diseases of 0-8 years children (diaries, bronchitis, immunizations, exanthema diseases, parasites, infections etc.) vaccination; health problems of women in various life stages; family planning; teachers’ first aid in case of fractures, dislocations, scalds, insect stings, intoxication, swallows.
ECEP 104  (2+0+0) 2 Credits / 5 ECTS
Development and Education in Infancy
(Bebeklik Döneminde Gelişim ve Eğitim)
Basic concepts and principles of development, specifications of prenatal and postnatal development, infant (health, care and nutrition), importance of health, care and nutrition in infant development, developmental areas of 0-36 month-old children (motor, cognitive, literacy, social-emotional) and self-care skills, fundamentals, principles and indicators of preschool program for 0-36 month-old children, environmental specifications and activities, implementation and evaluation of educational plans (monthly, daily and activity plans).

ECEP 201  (3+0+0) 3 Credits / 6 ECTS
Science Education in Early Childhood
(Erken Çocuklukta Fen Eğitimi)
Definition and importance of science education in early childhood; fundamentals and standards in science education; scientific process skills; nature of science; teaching techniques and methods in science concepts and scientific thinking skills; designing learning centers in science education; science programs used in early science education (Wings of Discovery, Tool Kit for early science education; Hands on Dough); acquisition of basic science concepts; planning and implementing science activities.

ECEP 202  (3+0+0) 3 Credits / 4 ECTS
Music Education in Early Childhood
(Erken Çocuklukta Müzik Eğitimi)
Importance of music education in early childhood education, the relationship between music and education; musical development of 0-8 years old children and their musical skills; use of music in reaching the goals of early childhood education program and designing an appropriate repertoire; introducing and analyzing children songs, criterions in choosing child songs; creating a musical environment with equipment for early childhood educational institutions; spiral educational model integrated with music activities.

ECEP 203  (3+0+0) 3 Credits / 5 ECTS
Mathematics Education in Early Childhood
(Erken Çocuklukta Matematik Eğitimi)
Definition and importance of mathematics education in early childhood; fundamentals and standards in early mathematics education; teaching techniques and methods in mathematics concepts and scientific thinking skills; mathematics education and play; mathematics programs (Building Blocks, STEM, GEMS (Great Explanation in Math and Science, Big Maths for Little Kids)); designing learning centers in science education; science programs used in early science education (Wings of Discovery, Tool Kit for early science education; Hands on Dough); acquisition of basic science concepts; planning and implementing science activities.
ECEP 204  
Development and Education of Play in Early Childhood  
(Erken Çocuklukta Oyun Gelişimi ve Eğitim)

Educational and developmental value of play in early childhood; using play as a tool for development assessment of children; definition of play, its importance, its improvement; theories of play; factors affecting play; planning and applying play activities.

ECEP 205  
Curriculum in Early Childhood  
(Okul Öncesi Eğitim Programları)

The importance, principles and components of educational program; historical process of early childhood education programs applied in Turkey; main components, principles, objectives, indicators, settings, activities, forms, plans (monthly education plan, daily schedule and activity plan), implementations and assessment of early childhood program applied for 3-6 ages; applied practices of in-class activities related with early childhood education program. Curriculum models and approaches in early childhood education, design, development, and assessment of early childhood curriculum.

ECEP 206  
Drama in Early Childhood Education  
(Erken Çocukluk Eğitiminde Drama)

Definition and extended meaning of drama; psychodrama, creative drama, sociodrama, concepts; relationship between children’s play and drama; history of drama in education; structure of drama in education and implementation stages; drama atmosphere and qualifications of teacher; evaluation of drama; developing, leading and evaluating drama appropriate for the objectives of the course.

ECEP 301  
Art Education in Early Childhood  
(Erken Çocuklukta Sanat Eğitimi)

Definition and importance of art education in early childhood; art education history; role of contemporary art; recognizing and evaluating artwork; definition and importance of early childhood art education and creativity; developmental stages of children’s drawings; preschool art education teaching techniques, methods and materials; art in museum; theories and implementations of early childhood creativity and art education; designing and implementing art programs that support children’s creativity and aesthetics awareness.

ECEP 302  
Environmental Education in Early Childhood  
(Erken Çocukluk Dönemi Çevre Eğitimi)

Basic principles of environmental education, the importance of environmental education. Environmental education in early childhood period. Planning environmental education activities for children in early childhood and the practices of environmental education (living creatures in the nature, plants, air, soil, water, recycling, energy saving, environmental pollution, natural disasters, etc.).
ECEP 303  (3+0+0) 3 Credits / 4 ECTS
Child Monitoring and Evaluation
(Çocuğu Tanıma ve Değerlendirme)
Importance and aim of child monitoring and evaluations, child monitoring from various perspectives, principles of child monitoring, techniques and characteristics of child monitoring (observation, event sampling, individual interview, home visiting). Tests used in early childhood (developmental tests, projective tests, intelligence tests); identification of children via play and art; portfolio (development file) and documentation.

ECEP 304  (3+0+0) 3 Credits / 5 ECTS
Child Mental Health
(Çocuk Ruh Sağlığı)
Definition and importance of mental health, historical development of mental health, theories on mental health, characteristics of individuals with and without mental health, diagnosis and treatment of behavior and adaptation problems in children (stuttering, mutism, enuresis, encopresis, finger sucking, nail eating, aggression, jealousy, tics, stubbornness, sleep disorders, eating habit disorders, fears, attention deficit and hyperactivity disorder, school fear, theft, lying), the effects of special situations in the family (divorce, step-parent, parent’s death, etc.) on the mental health of the child.

ECEP 305  (3+0+0) 3 Credits / 5 ECTS
Learning Approaches in Early Childhood
(Erken Çocuklukta Öğrenme Yaklaşımları)
Core principles and concepts related with learning, factors affecting learning in early childhood period (response, motivation, reinforces); theories and approaches to learning (behaviorist learning approaches, cognitive theories, social learning theories, intelligence based learning theories); planning and arrangement of educational activities and learning environments for effective learning.

ECEP 306  (2+0+0) 2 Credits / 3 ECTS
Early Childhood Literature
(Erken Çocukluk Dönemi Edebiyatı)
Development of children's literature in Turkey and in the World; the importance of meeting qualified literature in early years; investigating the main characteristics of children's literature (design, content and educational) samples; demonstrating samples of under-qualified children's literature and discussing their negative effects on development; studies on the age appropriateness of the books and their impact on development; identifying the contribution of different genres of literature (legends, stories, folk tales, poems, etc.) and language tools (riddles, etc.) on children's development.

ECEP 401  (2+0+0) 2 Credits / 3 ECTS
Character and Values Education
(Karakter ve Değer Eğitimi)
Conceptual framework: character, personality, value, virtue, morals, temper, etc.; character development and character education; role of family, environment, and school in character development and character education; description and classification of values; sources of values and individual, social, cultural, religious, and moral foundations of values; approaches and practices
in character and values education; intercultural differences and diversity in character and values education; character and values education in relation to educational philosophies; instructional methods/techniques in character and values education; value conflicts and values education in modern and multicultural societies; values education through humanitarian-cultural development process; examples of values education from the history of Turkish education and culture, research and practices in values education in Turkey; teacher as a role model in character and values education.

ECEP 402 (3+0+0) 3 Credits / 4 ECTS
Policies in Early Childhood Education
(Erken Çocukluk Eğitimi Politikaları)
Recognizing early childhood policy and review the application of these policies in Turkey and in the world; establishing professional perceptions and understandings of pre-service teachers in the context of early childhood policies; develop an understanding of issues in the context of early childhood policies; explain the scope and importance of early childhood services; making comparisons about the development, objectives and scope of different early childhood programs; examining national and international examples on topics covered by early childhood education policy.

ECEP 403 (3+0+0) 3 Credits / 4 ECTS
Transition to School and Early Literacy
(Okula Uyum ve Erken Okuryazarlık Eğitimi)
The definition of school readiness, factors affecting school readiness, dimensions of school readiness (physical, social, emotional, cognitive, language, self-care skills), planning activities to make children gain competences in school readiness, the importance of emergent reading-writing studies in early childhood period, core concepts, approaches to reading-writing, factors affecting reading acquisition, development of reading-writing skills, early literacy, reading skills and sub-areas, knowledge in alphabet (pre-alphabet stage, logography level, partial alphabet stage/half phonetic level, full alphabet stage, combined alphabet stage/pronunciation), phonological process skills (phonological awareness, phonological memory, phonology usage), verbal language skills and lexicology, readiness for writing (writing awareness), planning, implementing and assessing reading and writing readiness activities appropriate to early childhood education program.

ELECTIVE COURSES

ECEP 250 (2+0+0) 2 Credits / 4 ECTS
Family Education and Involvement
(Aile Eğitimi ve Katılımı)
Basic concepts related to family education; the importance of family education, objectives, principles; family education models; family theories (Family System Theories, Social Relationship Theory, Bioecological Theory, Structural Functional Theory); family education practices in Turkey and in other countries; planning, implementation and evaluation of family education activities; methods and techniques used in family education; family participation activities (family communication activities, family participation in educational activities, individual interviews, home visits); The Family Support Training Guide (EBADER) and the Preschool education program integrated with the 0-36 month Children’s Education Program (OBADER).
ECEP 251                                                                                             (2+0+0) 2 Credits / 4 ECTS
Child and Media  
(Çocuk ve Medya)
Media concepts investigating the relationship between the products of digital media (cartoons, advertisements, computer games, Internet sites etc) and the child; media and violence; media and bullying; media and children’s rights; The effects of media on child development; media and child obesity; the role of parents and school in digital media access.

ECEP 252                                                                                             (2+0+0) 2 Credits / 4 ECTS
Behavior Management in Child  
(Çocukta Davranış Yönetimi)
Identification and description of positive and negative behaviors in children. Learning strategies to support positive behaviors while extinguishing negative behaviors, attitudes of teacher and parents toward behavior management, arranging home and class learning environments for behavior management, developing practical strategies toward problematic behaviors observed inside the classroom and also engaging in assessment and evaluation practices.

ECEP 253                                                                                             (2+0+0) 2 Credits / 4 ECTS
Motor Development and Education in Child  
(Çocukta Hareket Gelişimi ve Eğitimi)
Motor development and its characteristics; movement skills and development of physical skills; relation of play and movement; motor development stages; planning learning environments of motor development; planning, conducting and evaluating movement activities of early childhood settings.

ECEP 254                                                                                             (2+0+0) 2 Credits / 4 ECTS
Social Skills Education in Child  
(Çocukta Sosyal Beceri Eğitimi)
The definition of behavior; positive and negative behaviors, theoretical foundations of the behavioral development; the definition of social skills, the importance of gaining social skills; the role of value education in gaining social skills; reasons of social skills deficits, the scope of social skills; definition of problematic behaviors, the relationship between social skill and problem behavior, the classification of problematic behaviors; social skills and the problem; factors effective on social skills and problematic behaviors; social skill education program in early childhood period; preparing and presenting an exemplified program for social skills support trainings and the prevention of problematic behaviors.

ECEP 255                                                                                             (2+0+0) 2 Credits / 4 ECTS
Traditional Games in Early Childhood Education  
(Erken Çocukluk Eğitiminde Geleneksel Çocuk Oyunları)
Traditional children’s games and their educational, cultural value; remembering these games which do not exist or in danger of extinction in Turkish culture; definition, importance, rules of these games; games played in groups or with adults; effects of traditional games on developmental areas; Planning and application of these games.
ECEP 256
Language and Concept Development in Early Childhood
(Erken Çocuklukta Dil ve Kavram Gelişimi)
Language development and its stages; physiological foundations of language and talking; concept
development in ages; concept development approaches; classification of concepts; concepts in
semantics; organization of concepts; relation of concepts and language development; assessment.

ECEP 257
Sensory Education in Early Childhood
(Erken Çocuklukta Duyu Eğitimi)
Development of senses; perception development; working of sensory systems; sense awareness in early years; importance of sensory education in child development; organizing learning environments for improving sense awareness; materials in sensory development; role of the teacher in sensory development; organizing, application and assessment of activity plans for improving sensory development.

ECEP 350
Rhythm, Dance and Orff Education in Early Childhood
(Erken Çocuklukta Ritim, Dans ve Orff Eğitimi)
Development of rhythmic perception, the relation of sound, rhythm and developmental areas; organizing learning environments; rhythm, sound and dance; dance and movement; playing, singing, listening with Orff; producing own sound and using Orff instruments; planning, implementation and evaluation of music activities in early childhood program.

ECEP 351
Creativity in Early Childhood and Creative Activities for Children
(Erken Çocuklukta Yaratıcılık ve Yaratıcı Çocuk Etkinlikleri)
Definition of creativity; theories explaining creative thinking; dimensions of creativity; development of creativity in children; the relationship between creativity and intelligence; areas of creativity and art; creative personality characteristics, factors affecting creativity, the role of education in the development of creativity; evaluation of creativity; planning, implementation and evaluation of creative activities appropriate to pre-school education program.

ECEP 352
Early Childhood Education Across Nations
(Farklı Ülkelerde Erken Çocukluk Eğitimi)
Education system in different countries, history of preschool education in different countries, prevalence, types of institutions, types of programs, educational environments, family participation, integration of children with special needs, teacher training system in pre-school education.
ECEP 353  (2+0+0) 2 Credits / 4 ECTS
Education of In-Patient Children
(Hastanede Yatan Çocukların Eğitimi)
The development of in patient children- their needs, interests, psychology; the communication of hospital staff, child and the parents; preparation of life in hospital, diagnosis, treatment and readiness for the operation; preparing play, music, art, drama, maths activities for inpatient children; the communication of hospital schools and children with terminal diseases, their parents and the hospital staff.

ECEP 354  (2+0+0) 2 Credits / 4 ECTS
Education of Children at Risk
(Risk Altındaki Çocuklar ve Eğitimi)
Risk factors and effects, groups of children created by risk factors, children living and working on the streets, children working in sectors, fragmented family children, children in need of protection, children oriented to crime, children who are neglected and abused, children at risk of developmentally, children living under unfavorable environmental conditions and their characteristics, critical elements in their education, measures to be taken, projects implemented in Turkey and other countries for the education of children at risk.

ECEP 355  (2+0+0) 2 Credits / 4 ECTS
Assessment of In Class Learning
(Sınıf İçi Öğrenmelerin Değerlendirilmesi)
Measurement tools used in education and their properties; tools based on traditional approaches: written exams, short answer exams, true-false type tests, multiple-choice tests, paired tests, oral examinations; tools for multi-faceted recognition of students: observation, interview, performance evaluation, student product file, research papers, research projects, peer review, self-assessment, attitude scales; points to be considered in the evaluation of student success; evaluation and grading of learning outcomes.

ECEP 356  (2+0+0) 2 Credits / 4 ECTS
Family and Child in Turkish Culture
(Türk Kültüründe Aile ve Çocuk)
Turkish family; Child bringing in different Turkish societies; Parent culture, traditions in Anatolia; interaction of extended families and elementary family marriage ceremonies; funeral ceremonies; the roles of family consultants in collectivist societies.
Undergraduate Program in Primary Education

The Primary Education Program in the Department of Elementary Education at TED University is an undergraduate program which trains elementary school teachers for elementary schools from first to fourth grade. The main goal of the program is to train highly qualified school teachers who are reflective and critical thinkers and capable of showing leadership in their field as well as contributing to the field of elementary school education at both national and international levels.

Upon successful completion of their studies, students are awarded the Bachelor’s degree in Primary Education. Our students who receive an education from a first-rate faculty in state-of-the-art facilities and who take advantage of the rich learning environments provided by the university will be sought after upon graduation and will easily find employment in the school systems in Turkey and the region.

Program Outcomes

Graduates of the Primary Education program will demonstrate the following learning outcomes:

1. Apply the research-based knowledge of child development (in the 5-9 years category) to his/her teaching practice.
2. Use effectively the content area knowledge in physical and social sciences, languages, arts and sports in his/her teaching practice.
3. Justify the appropriate use of pedagogical content knowledge in implementing and evaluating developmentally and culturally appropriate and diverse learning environments that meet the child’s unique learning needs.
4. Determine appropriate methods of assessment to continuously monitor children’s progress and document children’s development and learning.
5. Act with personal and professional integrity as part of a team, taking into account codes of ethics, professional guidelines, and relevant law and policy for elementary education.
6. Effectively use English in both oral and written communication and use information technology skills to support teaching and learning activities.
7. Actively engage in collaborative community projects that support the development of children by building and maintaining strong and constructive relationships with children, their families and other key stakeholders in society.
8. Engage in lifelong learning by following the developments in his/her profession, staying up-to-date and pursuing self-development both professionally and personally and practicing self-assessment at every opportunity.
9. Critically investigate complex problems related to education in general and elementary education in particular within an interdisciplinary framework.
10. Manage personal affairs effectively by developing self-discipline, problem-solving, and time-management skills.
11. Compare the approaches and methods of another discipline quite different from one's major.
# Undergraduate Curriculum
(2017-2018 and Before)

## Semester 1

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Undergraduate Course Descriptions
(2017-2018 and Before)

EGE 221 (2+2+0) 3 Credits / 6 ECTS
Primary School Mathematics
(İlkokul Matematiği)

EGE 222 (2+2+0) 3 Credits / 7 ECTS
Teaching Primary School Mathematics
(İlkokulda Matematik Öğretimi)
Instructional methods and strategies for teaching fundamental concepts of elementary school mathematics. Designing instructional activities which constitutes fundamental concepts. Integrating technology as a teaching tool. Lesson planning from different perspectives and diversification. Instruction and assessment.

EGE 232 (2+0+0) 2 Credits / 3 ECTS
Education of Religion and Ethics
(Din Kültürü ve Ahlak Bilgisi Eğitimi)
Core concepts regarding religion, culture, and morality. Fundamental tenets of Islam as well as other world religions. Relationship between ethics and individual and society. Methods of religion and ethics curriculum.

EGE 251 (3+0+0) 3 Credits / 5 ECTS
Turkish Language in Primary Education
(Sınıf Öğretmenliğinde Türk Dili)
Study of the tense and aspect structure of the Turkish verb system and its semantics. Words and phrases. Sentence types in Turkish: simple sentence, compound clauses, if-clauses, coordinate and subordinate clauses. Word and sentence analysis in a variety of texts. Determinate article structure in Turkish. Noun phrase structure and its properties. Textual studies such as selecting level appropriate texts and the analysis of their internal and external structures.

EGE 252 (2+2+0) 3 Credits / 6 ECTS
Turkish Language Education Methods in Primary Education
(Sınıf Öğretmenliğinde Türkçe Eğitimi)
Reading, writing, listening, speaking, speed reading as well as presentation and comprehension skills. Reading difficulties. Structure of reading texts. Informative and narrative texts. Critical thinking skills through reading and writing. Purposes, types, and rules of reading. Assessment of reading, writing, listening, and comprehension skills.
EGE 304  
Assessment of Learning  
(Ölçme ve Değerlendirme)


EGE 311  
Sciences in Primary Education  
(Sınıf Öğretmenliğinde Fen Bilimleri)


EGE 312  
Science Education Methods in Primary Education  
(Sınıf Öğretmenliğinde Fen Bilimleri Eğitimi)


EGE 321  
Art Education  
(Sanat Eğitimi)

Approaches to teaching art to pre-school and primary grade children. Drawing, painting, printmaking, sculpture, ceramics, installation and plays, video art, photography, use of technology and computers in the art room, outdoor environmental art. Art supplies. Preparing and evaluating of the art program, and art lesson planning. Art room design. Making art with children with special needs and over talented students. Designing learning environments and assessment in art education. Art across the curriculum. The links between art and other subjects. The ideal relationship of the art teacher with students in an art class. Understanding and analyzing children’s drawings. Continuous professional growth for the art teacher. The exhibition of works by students.
EGE 331  
Social Studies in Primary Education  
(Sınıf Öğretmenliğiinde Sosyal Bilgiler)

EGE 332  
Social Studies Methods in Primary Education  
(Sınıf Öğretmenliğiinde Sosyal Bilgiler Eğitimi)

EGE 341  
Music Education  
(Müzik Eğitimi)

EGE 381  
Practicum  
(Okul Deneyimi)
Designing and planning curriculum and learning environments under the supervision of mentor teachers. Teaching as an assistant teacher. Assessing children’s learning. Engaging parents. Attending professional teacher development activities.

EGE 441  
Motor Development and Physical Education  
(Motor Gelişim ve Beden Eğitimi)
EGE 471  
Research Project in Primary Education  
(Sınıf Öğretmenliğinde Araştırma Projesi)


EGE 472  
Capstone Experience in Primary Education  
(Sınıf Öğretmenliğinde Bitirme Projesi)

Putting all the skills and knowledge acquired throughout undergraduate studies into practice. Creating a professional teacher portfolio (content of the portfolio: developmentally appropriate teaching activities, samples of instructional plans, evidence that shows appropriate primary education learning environment design, samples of work related to school, family and community relationships, samples of assessment activities, evidence of participation in professional development activities). Presentation of this professional portfolio.

EGE 481  
Student Teaching I  
(Öğretmenlik Uygulaması I)


EGE 482  
Student Teaching II  
(Öğretmenlik Uygulaması II)


Undergraduate Curriculum
(2018-2019 and After)

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Undergraduate Course Descriptions
(2018-2019 and After, 1st and 2nd Year Courses)

COMPULSORY COURSES

EGEP 101 (3+0+0) 3 Credits / 5 ECTS
Fundamental Mathematics in Primary School
(İlkokulda Temel Matematik)
Number systems and hierarchical model, number systems with closure properties according to four operations, mathematical modeling, problem solving and problem posing with four operations, convert a number from base 10 to any other base, convert a number from different bases to base 10, divisibility rules for 2, 3, 4, 5, and 10 with proofs, greatest common factor, and least common multiple, fractions and four operations with fractions, fractions and ratio, decimal representation of fractions, decimal numbers and four operations, patterns, basic geometric shapes, basic space geometry and their expansions, the concept of measurement and basic units of measurement, and their relation to the purpose and principles of mathematics teaching in addition to primary mathematics curriculum.

EGEP 102 (2+0+0) 2 Credits / 3 ECTS
Environmental Education
(Çevre Eğitimi)
Basic ecological concepts and principles, ecosystems, food chains, food webs, habitat, competition, common life and mutual living, energy flow, circulation of matter, increase in population, ecological effect, erosion, soil and water resources, environmental sensitivity, studies conducted about environmental sensitivity, foundations and establishments, environmental education in primary school curricula.

EGEP 103 (2+0+0) 2 Credits / 3 ECTS
Geography and Geopolitics of Turkey
(Türkiye Coğrafyası ve Jeopolitiği)
The location and position of Turkey; Turkey’s geopolitical and geostrategic situation and characteristics; characteristics of mathematical location, location specific properties (neighbors), countries group features (political, military, economic cultural organizations), Turkey’s physical features (climate, hydrographic characteristics, soil structure, vegetation), socio-economic characteristics (population, settlement, agriculture, forestry, animal husbandry, energy, industry, transport, tourism)

EGEP 104 (3+0+0) 3 Credits / 5 ECTS
Fundamental Science Education in Primary School
(İlkokulda Temel Fen Bilimleri)
The subject and principles of natural sciences, basic concepts of natural sciences, the place of science among other areas, historical development of science, the purpose of science teaching, general information about science subjects in primary school curricula, and daily usage of science topics.
EGEP 106 (2+0+0) 2 Credits / 4 ECTS
Turkish History and Culture
(Türk Tarihi ve Kültürü)
The first homeland of Turks—the first civilizations established in homeland, the life of the Turks before the Huns, Huns: Great Hun State—Tribes immigration; and European Huns—Akhunlar, Tolunoğulları—İhsitler—Karahanlılar—Ghaznavids, Great Seljuk State—Anatolian Seljuk State, Ottoman State Period, Ottoman Empire; Other Turkish States (Azerbaijan—Kazakhstan—Kyrgyzstan—Turkmenistan—Uzbekistan—Turkish Republic of Northern Cyprus and communities), Culture and Civilization.)

EGEP 201 (2+0+0) 2 Credits / 4 ECTS
Drama in Primary School
(İlkokulda Drama)
Definitions of the concept of drama; concepts of psychodrama, creative drama, educational drama, sociodrama etc.; relationship between drama and play; history of drama applications in education; structure and stages of drama applications in education; learning environment for drama and teacher competencies; assessment/evaluation in drama; exemplary drama activities in education, developing and applying drama activities in education.

EGEP 202 (3+0+0) 3 Credits / 5 ECTS
Teaching of Play and Physical Activities
(Oyun ve Fiziki Etkinlikler Öğretimi)
Theoretical structure related to the curriculum of primary school play and physical activities (Grades 1-4) (structure of the program, basic skills, basic elements of the program, achievements according to classes, teaching methods, classroom management, measurement and evaluation), primary school play and physical activities Applications (course plan, study plans, preparation and application of measurement tools), educational and musical games, examples of modern folk dances, description of the game and general characteristics, game teaching.

EGEP 203 (0+2+0) 1 Credit / 3 ECTS
Lab. Applications in Science
(Fen Bilimleri Laboratuvar Uygulamaları)
The aim and importance of laboratory in science teaching, safety in laboratory; scientific method, scientific process skills and how they are gained; laboratory tests for primary school (planning, conducting and evaluating the results of experiments), preparation of experimental worksheets and test reports; experiments which can be conducted with simple and inexpensive materials; group work.

EGEP 204 (3+0+0) 3 Credits / 5 ECTS
Teaching of Turkish
(Türkçe Öğretimi)
Contemporary methods and techniques that can be used in teaching Turkish; improving reading, writing, listening, speaking skills; identification and elimination of reading difficulties, structure of reading texts, teaching poems, informative and narrative texts, reading and writing texts, constructing meaning from texts, developing vocabulary, media literacy (visual reading and presentation), reading
and using technology, questions and types about making meaning from texts; developing critical thinking through reading and writing; speed reading and techniques; teaching and methods of main idea; aims, types and rules of reading; evaluation of reading, writing, listening, speaking and understanding; examining the primary school Turkish curriculum and its relation to other courses will be covered.

EGEP 205
(3+0+0) 3 Credits / 6 ECTS
Teaching Early Literacy
(İlkokuma ve Yazma Öğretimi)
Reading and its importance, listening, speaking, visual reading and visual presentation; reading, writing, learning areas and their relationship, the properties of Turkish and its effect on first reading and writing teaching; reading and writing teaching approaches, the aims and principles of first reading and writing teaching, basic characteristics of first grade teachers and students in terms of initial reading and writing instruction; readiness to read and write (student) and preparation (teacher), failure and reasons for teaching and writing in the first reading, tools and materials used in the teaching and writing of the first reading (properties of vehicles, selection, creation and use); methods used in primary reading and writing teaching (definitions, characteristics, classification, applications, superiority and limitations of methods); sound based sentence method (definition, principles, properties, stages and application), reading and writing instruction in accordance with the stages of the sound based sentence method, the development of vocabulary, evaluation of the first reading and writing, the first reading and writing teaching and use of technology.

EGEP 301
(3+0+0) 3 Credits / 5 ECTS
Life Studies Education
(Hayat Bilgisi Öğretimi)
Definitions of the concept of life studies, purpose and scope of life studies education, historical development of life studies education in Turkey and life studies education in other countries, analysis of life studies curricula in terms of objectives, skills, concepts, and learning domains; suggested instructional methods/techniques and their applications in teaching life studies, suggested instructional materials in teaching life studies; democracy and values education in teaching life studies, exemplary activities and practices in life studies curricula; assessment and evaluation in life studies education.

EGEP 302
(3+0+0) 3 Credits / 5 ECTS
Social Studies Education
(Sosyal Bilgiler Öğretimi)
The field of social studies and its characteristics, main purposes of social studies education, social studies literacy, learning domains in social studies, history of social studies and its role in primary school curricula, analysis of social studies curriculum (objectives, skills, learning domains, etc.), suggested instructional methods/techniques and materials in teaching life studies, exemplary activities and practices in social studies curricula; democracy, human rights, and values in social studies education, sample activities from social studies education in Turkey and other countries.
EGEP 303  (3+0+0) 3 Credits / 4 ECTS
Mathematics Education I
(Matematik Öğretimi I)
The aim and basic principles of mathematics teaching; The history of mathematics education (in
the world and Turkey); teaching and learning strategies to be used in mathematics teaching; the
scope, purpose and characteristics of the primary school mathematics program; major learning
theories and their relations with mathematics learning; important skills in mathematics education,
associations, representations, communication, reasoning, problem solving (strategies, stages, types of
problems, etc.); use of information technologies, development of the concept of numbers in the child
(pre-counting developments, one-to-one matching, cardinal value, merge, separation, comparison,
equivalence, minority, multitude, etc.); step value, formation of natural numbers and their structural
properties; arithmetic operations, related subjects, achievements and examples of activities in primary
school mathematics curriculum.

EGEP 304  (3+0+0) 3 Credits / 4 ECTS
Mathematics Education II
(Matematik Öğretimi II)
Fractions, student difficulties in learning fractions, different meanings of fractions, fraction models,
equivalence, comparison, sorting, operations with fractions, decimal fractions, operations with
decimal fractions, geometry, development of geometric thinking in children, subjects of 2 and 3
dimensional geometry and their teaching, measurement and development of the idea of measurement
in children, size, area, volume, time measurements, weighing, money, data management, tables and
graphs, measurement and evaluation in mathematics education, multiple measurement-evaluation
methods and techniques, related subjects in the primary school mathematics curriculum, gains and
examples of appropriate activity.

EGEP 305  (3+0+0) 3 Credits / 4 ECTS
Science Education
(Fen Öğretimi)
Basic concepts of science and science education; science, technology, characteristics of scientific
knowledge and scientific method, science and technology literacy, science-technology-society
environment relationship, attitudes towards science, science education purposes, historical
development of Turkey and the world in science education, constructivist approach and science
learning, cognitive development and science education, characteristics of elementary school science
programs and their relationship with other courses, developing scientific process skills and sample
applications.

EGEP 306  (3+0+0) 3 Credits / 4 ECTS
Religion and Ethics Education
(Din Kültürü ve Ahlâk Bilgisi Öğretimi)
Basic concepts in religion and ethics teaching: concepts of religion and morality; Islam and other
religions; concept of faith: conditions of faith in Islamic religion, basic principles of Islam; worship:
the concept of worship; ethics and principles of morality related to individual and society; basic
values and teaching of life, examining primary school religious and ethics curriculum; gains, content,
teaching approaches, assessment of learning.
EGEP 401 (3+0+0) 3 Credits / 4 ECTS
Music Education
(Müzik Öğretimi)
Music teaching methods and techniques, note teaching techniques, using rhythm and melody to organize songs for children with orff instruments, effective use of the instrument in song teaching, relationship between game, music, dance, drama and speech, development of musical appreciation with music-aesthetics relationship, associating with other disciplines, activities related to primary music program.

EGEP 402 (2+0+0) 2 Credits / 3 ECTS
Character and Values Education
(Karakter ve Değer Eğitimi)
Conceptual framework: character, personality, value, virtue, morals, temper, etc.; character development and character education; role of family, environment, and school in character development and character education; description and classification of values; sources of values and individual, social, cultural, religious, and moral foundations of values; approaches and practices in character and values education; intercultural differences and diversity in character and values education; character and values education in relation to educational philosophies; instructional methods/techniques in character and values education; value conflicts and values education in modern and multicultural societies; values education through humanitarian-cultural development process; examples of values education from the history of Turkish education and culture, research and practices in values education in Turkey; teacher as a role model in character and values education.

EGEP 403 (3+0+0) 3 Credits / 5 ECTS
Foreign Language Instruction in Primary School
(İlkokulda Yabancı Dil Öğretimi)
Comparison of instruction in Turkish and English; main approaches and suggested methods, techniques, and practices in teaching English in primary education; learning domains, objectives, and sample activities in 2nd, 3rd, and 4th grade English curricula.

EGEP 404 (3+0+0) 3 Credits / 4 ECTS
Art Education
(Görsel Sanatlar Öğretimi)
Functions of visual arts education in mental and emotional aspects, level of development of students according to the steps of graphical development, children's picture reading, children love the visual arts and to enable them to express themselves through art; implementing art events in the context of art history, art criticism and aesthetic disciplines; differentiation in visual, auditory and tactile perception, learning with art field and development of creativity.
ELECTIVE COURSES

EGEP 250 (2+0+0) 2 Credits / 4 ECTS
Disasters and Disaster Management
(Afetler ve Afet Yönetimi)
Concepts of disaster and risk; disaster risk and mitigation; disaster training and its importance; preparation for disasters, intervention to disasters, disaster recovery; natural and human disasters; effects of disasters on Sustainable Development; climate change and meteorological disasters; studies in reducing disaster damages in Turkey and the world; earthquake regulations; effectiveness in disaster management; disaster management cycle; disaster terminology; coordination in disaster management; emergency and project presentations.

EGEP 251 (2+0+0) 2 Credits / 4 ECTS
Children's Literature
(Çocuk Edebiyatı)
The development of children's literature in the World and Turkey; the importance of acquainting with qualified children's books in childhood and the function of children's literature works in raising sensitive individuals who have acquired a reading culture; illustrating unqualified children's books with examples and discussing their negative effects on children's developmental characteristics; studies to determine the appropriateness of pre-service teachers' books to children according to their age groups and to which children contribute to their development; identifying the contribution of various literary genres (epic, fairy tale, poem, story, novel etc.) and linguistic tools (census, rhymes, riddles etc.) to children's development.

EGEP 252 (2+0+0) 2 Credits / 4 ECTS
Child Psychology
(Çocuk Psikolojisi)
Basic concepts in child psychology; history of child psychology; main approaches/methods in child psychology; characteristics of different stages of development (Prenatal, Infancy, Early Childhood, Middle Childhood); child within family structure; child within school structure; adaptation and behavior problems in childhood; student with special needs.

EGEP 253 (2+0+0) 2 Credits / 4 ECTS
Textbook Analysis in Primary School
(İlkokul Ders Kitapları İncelemesi)
To be able to comprehend the principles to be used in the selection and arrangement of textbooks in primary school; examine the textbooks used in practice in terms of curriculum; examine the theory, approach, philosophy and elements of the program (aim, content, teaching-learning processes, evaluation) and examine the textbooks in terms of these elements and the criteria (scientific, language, content and physical characteristics) that are taken into consideration in preparing the textbook.
EGEP 254
Primary School Curriculum
(İlkokul Programı)
Basic concepts related to curriculum; main components, goals (behavioral objectives), and learning domains of primary school curricula; philosophical, historical, psychological, and social foundations of primary school curricula.

EGEP 255
Alternative Education in Primary School
(İlkokulda Alternatif Eğitim Uygulamaları)
Geographical, social, and economic factors influencing the Turkish education system, practices and policies on meeting the needs of students in rural and dispersed areas; mobile teaching, advantages and disadvantages of mobile teaching; regional primary boarding schools, advantages and disadvantages of regional primary boarding schools; teaching in multigrade classes, factors leading to multigrade classes, the rationale for teaching in multigrade classes, instructional planning in multigrade classes, classroom management in multigrade classes, assessment/evaluation in multigrade classes, roles of teachers in multigrade classes, exemplary practices of teaching in multigrade classes in different countries.

EGEP 350
Inclusive Language Teaching
(Kapsayıcı Dil Öğretimi)
Developing and applying enriched language teaching activities for students who may not develop adequate reading, writing, speaking, listening, and visual literacy skills; methods/techniques of literacy teaching for students whose mother tongue may be different; methods/techniques of literacy teaching for students who might be from different socio-economic statuses with different levels of language readiness, methods/techniques of literacy teaching for students who might not develop adequate language skills due to different factors in school and family (e.g., teacher change, adaptation problems, insufficient conditions at home, domestic violence); teaching Turkish as a foreign/second language to immigrant students and related approaches, methods, techniques, and practices.

EGEP 351
Education of Children At Risk
(Risk Altındaki Çocuklar ve Eğitimi)
Risk factors and effects, groups of children caused by risk factors; children living and working on the streets, working children connected to sectors, shattered family children, children in need of protection, crime-oriented children, children who neglected and abused, children at developmental risk, children living in unfavorable environmental conditions and their characteristics, critical elements in their education, measures to be taken, projects implemented in Turkey and other countries of the children at risk.
EGEP 352  
Assessment of in Class Learning  
(Sınıf İçi Öğrenmelerin Değerlendirilmesi)  
Assessment and evaluation methods/techniques in education and their characteristics; traditional 
assessment and evaluation methods/techniques: essays, short-answer questions, true/false questions, 
multiple-choice questions, matching questions, oral exams; alternative assessment and evaluation 
methods/techniques: observation, interview, performance evaluation, portfolio, research papers, 
research projects, peer evaluation, self-evaluation, attitude scales; basic principles of assessment and 
evaluation; assessment and evaluation of student outcomes and grading.

EGEP 353  
Teaching of Social Skills  
(Sosyal Beceri Öğretimi)  
Definitions of the concept of social skill, its dimensions and the relationships among those dimensions; 
developing students’ social skills and related methods and techniques; identifying target social skills; 
analyzing the social skill, modeling the social skill, helping students role-play and imitate the social 
skill; assessment and evaluation of social skills generalizing social skills and examining primary school 
curricula; identifying exemplary social skills and applying sample activities.

EGEP 354  
Child and Education in Turkish Culture  
(Türk Kültüründe Çocuk ve Eğitim)  
Definition of culture; the relationship between education and culture; the place of culture in child 
development and education; development and characteristics of Turkish culture; children in Turkish 
culture; the place and value of child in Turkish society and family, child education, characteristics and 
elements of Turkish culture from past to present.

EGEP 355  
Traditional Child Games  
(Geleneksel Çocuk Oyunları)  
Traditional children’s games and their educational, cultural value; remembering these games which 
do not exist or in danger of extinction in Turkish culture; definition, importance, rules of these games; 
games played in groups or with adults; effects of traditional games on developmental areas; Planning 
and application of these games.
DEPARTMENT OF FOREIGN LANGUAGE EDUCATION

Chair
Prof. Belgin Aydın

Academic Staff

* Research Assistant

Undergraduate Program in English Language Education

The English Language Education undergraduate program within the Department of Foreign Language Education at TED University serves the community with faculty members and research assistant. The English Language Education program provides training to teacher candidates for teaching levels from kindergarten to university. The candidates can work as English language teachers at various institutions (public or private) and at various levels (kindergarten to university language schools). The program tries to enrich teacher candidates’ intellectual capabilities as well as pedagogical knowledge through its diverse course content. The ICT infrastructure at the university is well integrated to curricula to offer candidates a comprehensive framework of technology integration and use. The department hosts up-to-date and real-life related learning environments through distinguished academic staff.

Program Outcomes

Graduates of the English Language Education program will demonstrate the following learning outcomes:

1. Use the source and target language accurately and effectively to access, produce and share knowledge within the communicative context (English: Common European Framework of Reference for Languages, B2 level and up),

2. Manage life-long learning processes in line with their learning needs,

3. Interpret research-based data by defining concepts, theories and cases in their field or a specific field of study,

4. Use information and communication technologies for personal and professional purposes as required in disciplinary areas

5. Produce solutions to current problems by contributing to the development and preservation of universal, local, artistic and cultural values,

6. Develop or adapt language teaching materials considering the individual, social, cultural differences, needs and interests of students,

7. Utilize appropriate pedagogical strategies, methods and techniques considering student needs, their developmental characteristics, individual differences, subject area features and competences,

8. Use a variety of assessment and evaluation methods and techniques to monitor and record the development and learning processes of students as well as to make instructional plans,
9. Develop professional knowledge and skills continuously as an individual and a community member,
10. Act in accordance with principles of democracy, human rights, scientific and professional ethical values regarding personal and professional duties, rights and responsibilities.

**Undergraduate Curriculum**
**(2017-2018 and Before)**

### Semester 1

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Totals expected for graduation  

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Undergraduate Course Descriptions
(2017-2018 and Before)

ELE 201 (3+0+0) 3 Credits / 5 ECTS
Contextual Grammar I
(Bağlamsal Dilbilgisi I)
Advanced level language patterns and sentence structures; the relationships between language structures and lexical items; the attribution of meaning by means of these structures; analysis of language structures within a context; different meanings of structures in different contexts, and high level text analyses.

ELE 202 (3+0+0) 3 Credits / 5 ECTS
Contextual Grammar II
(Bağlamsal Dilbilgisi II)
Descriptive analysis of advanced level structures (e.g. word classes, elements of the sentence, types of sentences, fragments etc.); analysis of the most problematic forms of English grammar; description of the factors that influence use of grammar and vocabulary in speech and writing; accurate use of English grammar and vocabulary in the contexts that require structurally and intellectually complex language use.

ELE 203 (3+0+0) 3 Credits / 5 ECTS
Listening and Pronunciation
(Dinleme ve Sesletim)
Analysis of authentic listening materials and speech samples used in different discourses; formulating phonetic transcriptions of problematic sounds; higher order listening skills; the fundamentals of listening and phonetics namely vowels, consonants, stress in words, rhythm and intonation; the use of phonetic alphabet for accurate pronunciation.

ELE 204 (3+0+0) 3 Credits / 5 ECTS
Oral Communication Skills
(Sözlü İletişim Becerileri)
Communication-oriented speaking such as discussions, debates, individual and group presentations; the use of formal and informal language; informative and persuasive presentations; supra-segmental features (pitch, stress and intonation); the use of audio visual aids and techniques.

ELE 205 (3+0+0) 3 Credits / 5 ECTS
Language Acquisition
(Dil Edinimi)
First and second language acquisition theories; stages of language acquisition and comparison of first and second language acquisition; factors affecting second language acquisition (e.g., age, attitude, motivation); comparing language acquisition of children and adults; role of language acquisition in foreign language teaching.
ELE 206  (3+0+0) 3 Credits / 6 ECTS
English Literature I
(İngiliz Edebiyatı I)
Cultural history of British and American literature and literary works written in English; fundamental
terms and techniques used in text analysis; major genres and styles in literature; important movements
and periods; the content and style of various literary texts such as short story, poem, drama and
novel representing different periods and genres of English literature; literature’s contribution to our
understanding of life; critical interpretation of literary arts.

ELE 207  (3+0+0) 3 Credits / 5 ECTS
Linguistics I
(Dilbilim I)
Basic concepts in linguistic analysis; the nature, structure and use of language; the components of
language as a system; phonetics; phonology; semantics.

ELE 208  (3+0+0) 3 Credits / 5 ECTS
Linguistics II
(Dilbilim II)
Morphology; free and bound morphemes, compounds, inflectional and derivational morphology,
morphemic analysis, morphological typology of languages, analysis of the internal hierarchical
structure of words; syntax: word categories, phrase and clause structure, transformational- generative
grammar, government and binding, minimalist program, argument structure, theta-roles; pragmatics:
deixis, implicature, conversational maxims, speech acts and politeness. sociolinguistics; dialects,
register, style; discourse: criteria for textuality, types of cohesive devices, discourse connections and
functions.

ELE 209  (3+0+0) 3 Credits / 5 ECTS
Approaches to ELT
(İngilizce Öğretiminde Yaklaşımlar)
Overview of methods and approaches (Grammar Translation Method, Direct Method, Audio-lingual
Method, Silent Way, Community Language Learning, Suggestopedia, Communicative Approach, the
Natural Approach); analysis of pedagogical implications of methods and approaches; discussion of
current issues and practices in ELT (Eclectic Method, Content Based Instruction, etc.).

ELE 210  (2+2+0) 3 Credits / 5 ECTS
ELT Methodology I
(Özel Öğretim Yöntemleri I)
Language teaching methodology; course and syllabus design; types of syllabus; lesson planning;
classroom management; European Language Portfolio and Common European Framework of
Reference for Languages.
ELE 301 (3+0+0) 3 Credits / 6 ECTS
English Literature II
(İngiliz Edebiyatı II)
Developments in British literature since the Renaissance; historical background for each period; the latest period of the Renaissance, the Restoration Period, the Romantics, the Victorian Age and Twentieth Century; analysis of selected works of the periods.

ELE 302 (3+0+0) 3 Credits / 5 ECTS
Technology-Enhanced Language Learning
(Teknoloji Odaklı Dil Öğrenimi)
Introduction to computer-assisted language learning (CALL) and technology-enhanced language learning (TELL). History of CALL/TELL. CALL/TELL and second language acquisition. Principles of using technology in language classes. The role of technology in language learning and teaching. Appropriate and effective evaluation, selection, adaptation, and use of technological tools for language learning and teaching purposes. Technology-enhanced reading, writing, vocabulary, speaking, listening and pronunciation, and integrated language teaching skills.

ELE 303 (2+2+0) 3 Credits / 5 ECTS
ELT Methodology II
(Özel Öğretim Yöntemleri II)
Classroom based research, action research; microteaching; introduction to the opportunities for continuing professional development; integration of ELT journals and conferences; discussion of the state-of-the-art articles.

ELE 304 (3+0+0) 3 Credits / 6 ECTS
Assessment in ELT
(İngilizce Öğretiminde Değerlendirme)
General concepts of testing and evaluation; test preparation; types of tests; alternative assessment methods.

ELE 305 (3+0+0) 3 Credits / 5 ECTS
Curriculum Development in Language Teaching
(İngilizce Öğretiminde Program Geliştirme)

ELE 306 (2+0+0) 2 Credits / 4 ECTS
Second Foreign Language I
(İkinci Yabancı Dil I)
Basic communication; structures and vocabulary necessary to comprehend simple daily conversational dialogues and reading texts, and to engage in daily simple communication in German/Spanish language.
ELE 307  (2+2+0) 3 Credits / 5 ECTS
Teaching English to Young Learners
(Çocuklara Yabancı Dil Öğretimi)
The differences between young learners and learners at other ages; classroom management; multiple intelligence; various activity types (e.g., games, songs, and craft); (digital) storytelling; assessment and evaluation.

ELE 401  (3+0+0) 3 Credits / 6 ECTS
Materials Adaptation and Development
(Yabancı Dil Öğretiminde Materyal İnceleme ve Geliştirme)
Theory and principles of ELT materials design (e.g. selecting, adapting, developing and evaluating materials); evaluation of materials and textbooks used in EFL settings; language material and textbook evaluation criteria; relating material design to the current ELT methodology.

ELE 402  (2+0+0) 2 Credits / 4 ECTS
Second Foreign Language III
(İkinci Yabancı Dil III)
Intermediate level oral and written communication skills; complex grammatical structures and intermediate level vocabulary items used in a variety of authentic texts; information about the culture of the target language through authentic materials.

ELE 403  (1+6+0) 4 Credits / 9 ECTS
Practice Teaching I
(Okullarda Uygulama I)
Lesson plan preparation and implementation; receiving feedback from the course instructor about the implementation; receiving learner feedback; sharing and discussing the practice with the supervisor; making necessary adjustments and reporting them.

ELE 404  (1+8+0) 5 Credits / 11 ECTS
Practice Teaching II
(Okullarda Uygulama II)
Lesson plan preparation and implementation; receiving feedback from the course instructor; receiving learner feedback; sharing and discussing the practice with the supervisor; making necessary adjustments and reporting them.

ELE 405  (2+0+0) 2 Credits / 4 ECTS
Second Foreign Language II
(İkinci Yabancı Dil II)
Interactive communication; grammatical structures and vocabulary commonly used in newspapers, magazines, extended dialogues, readings texts, and short stories; information about the culture of the target language through authentic materials.
## Undergraduate Curriculum
(2018-2019 and After)

### Semester 1

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Undergraduate Course Descriptions
(2018-2019 and After, 1st and 2nd Year Courses)

COMPULSORY COURSES

**ELEP 101 (2+0+0) 2 Credits / 2 ECTS**
Reading Skills I
(Okuma Becerileri I)

Comprehending contrasting viewpoints by using various authentic reading texts such as newspapers, journals, reviews and academic texts; mastering higher order reading skills by predicting and identifying main ideas and decoding intersentential cues; equipping students with intensive and extensive reading habits; developing critical thinking skills based on synthesizing, analyzing and evaluating information.

**ELEP 103 (2+0+0) 2 Credits / 2 ECTS**
Writing Skills I
(Yazma Becerileri I)

Developing academic writing skills, distinguishing between specific and general ideas, distinguishing between opinions and facts, identifying audience and purpose, producing paragraphs and essays of advanced level, distinguishing between different types of genres such as description, classification, comparison and contrast, narrative, argumentation, and etc., developing cohesion and coherence, writing as a process, and evaluating the writing of others.

**ELEP 105 (2+0+0) 2 Credits / 2 ECTS**
Listening and Pronunciation I
(Dinleme ve Sesletim I)

Analyzing authentic listening materials and speech samples used in different discourses; basic listening and phonetic skills such as discriminating minimal pairs and formulating phonetic transcriptions of problematic sounds; higher level listening skills and strategies; the fundamentals of listening and phonetics namely vowels, consonants, stress in words, rhythm and intonation as well as the usage of phonetic alphabet for learning and production.
ELEP 107 (2+0+0) 2 Credits / 2 ECTS
Oral Communication Skills I
(Sözü İletişim Becerileri I)
Overcoming the difficulties which are likely to occur during informal conversations, class discussions, oral reports and formal speech forms; improving student recognition and use of English language while participating in class discussions, as well as express opinions, debate, and negotiate conversation; synthesizing different oral information, and ideas by organizing, comparing, interpreting, giving descriptions, and stating main ideas of the oral information; developing critical thinking skills to defend opinions by making judgments about the received information, or the validity of ideas.

ELEP 102 (2+0+0) 2 Credits / 2 ECTS
Reading Skills II
(Okuma Becerileri II)
Making inferences and deductions, and reading between the lines; identifying direct and indirect, literal and non-literal meanings by analyzing the information in the text; responding to texts through short written and verbal personal views; realizing the possible difference between the reader’s perceived and writer’s targeted meaning.

ELEP 104 (2+0+0) 2 Credits / 3 ECTS
Writing Skills II
(Yazma Becerileri II)
Writing sophisticated texts of different genres, demonstrating awareness of the demands of academic writing in a variety of genres, identifying plagiarism and avoiding plagiarism in writing, choosing reliable sources (e.g., journal articles, book chapters, newspaper articles, online readings and videos, etc.) relevant to the topic of the writing task, evaluating arguments, critically analyzing and synthesizing information from different sources, responding appropriately to thoughts, opinions and work of others using APA citations and referencing, and fluently drafting, evaluating, and editing own and others’ academic texts.

ELEP 106 (2+0+0) 2 Credits / 3 ECTS
Listening and Pronunciation II
(Dinleme ve Sesletim II)
Exposure to an increased variety of listening texts both informal and academic, expanding listening comprehension and critical analysis, improving listening strategies, demonstrating comprehension of the main idea, major points and important details related to the listening text, increasing skills in note-taking, critically analyzing audio and video content for elements, distinguishing fact from opinion, recognizing the communicative purpose or the attitude and style of the speaker, making inferences based on the text listened, making connections among pieces of information listened, recognizing topic changes or introductions and conclusions in the listening material, etc.
ELEP 108 (2+0+0) 2 Credits / 3 ECTS
Oral Communication Skills II
(Sözlü İletişim Becerileri II)
Effective use of English in a variety of communication-oriented activities that require clarity of expression and critical assessment of other’s positions including discussions, debates, individual and group presentations, informative and persuasive presentations, and interviews; learning the appropriate use of both formal and informal English language; effective use of supra-segmental features of the language (pitch, stress, and intonation) as well as delivering informative and persuasive presentations with the active use of technology including audio visual aids and techniques.

ELEP 110 (2+0+0) 2 Credits / 2 ECTS
The Structure of English
(İngilizcenin Yapısı)
Study of the word and sentence structures of English; simple, compound and complex sentence structures; contextual uses of time, mood, voice and aspect.

ELEP 201 (2+0+0) 2 Credits / 3 ECTS
Approaches in English Language Learning and Teaching
(İngilizce Öğrenme ve Öğretim Yaklaşımları)
The functions of learning and teaching English; the purpose of teaching English with reference fundamental principles; history of English language teaching; the reflections of English language teaching on the approaches to learning and teaching English language; main skills in English language teaching; classroom implementation samples; recent trends and issues in English language teaching; components of effective English language teaching; a social, cultural, and economic look into English language teaching.

ELEP 202 (2+0+0) 2 Credits / 3 ECTS
Curriculum in ELT
(İngilizce Öğretim Programları)
Basics terms and concepts of curriculum / instructional program; a historical development of English curriculum; curriculum approaches, content, targeted language skills, learning domains and subdomains (subdivisions) of the present day English curriculum; distribution of learning outcomes by grades and limits and their relation with other courses; inter-relationships among English curricula at educational stages from primary and middle to high schools; approaches, methods, techniques, equipment and materials used in implementing English curriculum; testing and assessment approaches; teacher competencies.

ELEP 203 (2+0+0) 2 Credits / 3 ECTS
Linguistics I
(Dilbilimi I)
Basic concepts of linguistic analysis; concept of language nature, structure and use with awareness-raising, error analysis of language learners’ data, case study and comparative analysis of mother language and foreign language; language components as a system; linguistic competence and action, lower branches of linguistics, types of linguistic knowledge, linguistic universals, linguistic creativity,
linguistic lack of reason, sign languages, artificial languages and intercultural communication; research on brain and language, lateralization and handing, language evolution, human language functioning, language use and language disorders (eg simultaneous listening test, divided brain, WADA test); phonetics, acoustics, affective and phonetics, speech organs, phonemes, vowels and consonants, international phonetics alphabet, double famous, triple famous, singing style and place.

ELEP 204 Linguistics II (Dilbilimi II)
Error analysis of the outputs of language learners, case studies and contrastive analysis of L1 and L2, concepts about language nature, structure and use, morphology, bound and free morphemes, blends, inflectional and derivational morphemes, morphological analysis, morphological language typology, analysis of hierarchical deep structure, morphophonemic variants, syntax, phrases, clauses and sentence structure, transformational generative grammar, government and binding, minimalist program, constituent structure and role; pragmatics, reference, implicature, conversational maxims, speech acts and politeness, sociolinguistics, accent, register, style, standards of textuality, cohesive devices, discourse connections, functions, discourse situation, institutional discourse.

ELEP 205 Critical Reading and Writing (Eleştirel Okuma ve Yazma)
Analyzing and summarizing selected updated written studies in the field of English Language Teaching; Localizing the information from the selected studies after critically analyzing them in their own contexts; Comparing the texts that present different arguments to create their own original relevant texts.

ELEP 206 Language Acquisition (Dil Edinimi)
First and second language acquisition theories (behaviorism, innatism, information processing, connectivist models, interactionist position); stages and processes of first and second language acquisition; case studies, comparative analysis of first and second language use from lexical data, transcription of second language classroom interactions and comparison of first and second language acquisition using transcriptions; first language acquisition developmental stages, second language form-syntactic developmental stages, second language acquisition processes, learner characteristics and factors individual differences in second language acquisition (eg., the effect of personality, aptitude, intelligence, age, motivation and attitude, learner preferences and beliefs); differences of first and second language learning contexts (eg., natural and instructional settings).
ELEP 207 (2+0+0) 2 Credits / 4 ECTS
English Literature I
(İngiliz Edebiyatı I)
The history of British, American literature and literature originally in English, main concepts and techniques used in text analysis, main text types and genre, important periods and literary movements, the content and style of short stories, poems, drama etc. from different periods, the contribution of literature to our understanding of life, critical analysis and evaluation of texts and art.

ELEP 208 (2+0+0) 2 Credits / 4 ECTS
English Literature II
(İngiliz Edebiyatı II)
The history of British, American literature and literature originally in English; the periods and main movements in English literature, understanding main concepts, terminology, literary, philosophical and scientific movements by using samples texts from different periods.

ELEP 301 (3+0+0) 3 Credits / 5 ECTS
Teaching Foreign Language to Young Learners I
(Çocuklara Yabancı Dil Öğretimi I)
Differences between young language learners (Ages 5-12) and learners at other ages (in terms of learning linguistic skills and sub-skills) and myths about young language learners; language methodologies for young language learners (visual, auditory, and kinesthetic) and strategies (e.g. meta-cognitive, cognitive, and socio-affective); vocabulary, language skills, language structure teaching activities (i.e. puzzle, story, play, and simulation), audio-visual tool design (i.e. picture, realia, caricatures, puppets and songs); selecting, sorting, material adaptation and evaluation of teaching points based on learner language proficiency, cognitive and affective development.

ELEP 302 (3+0+0) 3 Credits / 5 ECTS
Teaching Foreign Language to Young Learners II
(Çocuklara Yabancı Dil Öğretimi II)
Different syllabi for young learners – ages 5 to 12- (story-based, content-based, thematic, task-based); effective use of children's literature, classroom management, language presentation and practice according to syllabus type chosen.

ELEP 303 (3+0+0) 3 Credits / 5 ECTS
Teaching English Language Skills I
(İngilizce Dil Becerilerinin Öğretimi I)
Different stages and techniques of listening, speaking, pronunciation and vocabulary teaching; the development of language awareness and teaching skills for groups with different age and proficiency levels; lesson planning principles and techniques appropriate for different proficiency levels.
ELEP 304  
Teaching English Language Skills 2  
(İngilizce Dil Becerilerinin Öğretimi 2)  
Detailed examination of the different stages and techniques of reading, writing and grammar teaching; the development of language awareness and teaching skills for groups with different age and proficiency levels; lesson planning principles and techniques appropriate for different proficiency levels.

ELEP 305  
Teaching of Language and Literature I  
(Dil ve Edebiyat Öğretimi I)  
The use of literature for language instruction is the focus; British and American literary pieces and samples of short stories and novels originally written in English and the differences between these two genres; methodologies for literature use with young and adults with varying proficiencies; completion of literature and language teaching in these two genres (short story and novel) in theory and practice; the analysis of literary texts in terms of linguistic features and content richness; the analysis of techniques of teaching culture via short story and novels: comparative and contrastive native and target language and culture’s objects and products; idiomatic expressions and proverbs, expressions carrying cultural values; social structures, relationships and roles; traditions and folkways; beliefs, morals, prohibition and taboos, superstitions; political, historical, and economic background; cultural institutions; figurative/associative connotation, sense of humor.

ELEP 306  
Teaching of Language and Literature II  
(Dil ve Edebiyat Öğretimi II)  
The use of literature for language instruction is the focus; British and American literary pieces and samples of poems and theatrical pieces originally written in English and the differences between these two genres; activities directing the attention of learners to richness of literary pieces; the use of poems and theatrical pieces and teaching cultural components; comparative and contrastive analysis of objects and products in the cultures of the native and target languages; proverbs and idiomatic expressions; expressions rich in culture; social structures roles and relationships; traditions and customary practices, beliefs, value and norms, prohibitions and taboos, superstitions; political, historical and economical background; cultural organizations; connotative and metaphoric meanings, use of humor.

ELEP 401  
Instructional Design in English Language Teaching  
(İng. Öğretiminde Ders İçeriği Geliştir.)  
Theory and principles of course content and materials design in English language teaching (e.g. content and equipment selection, adaptation, development and evaluation in English language teaching) and basic opinions that are in favor of or against the use of English textbooks; relationship between method, ideology and textbook author; format related to the selection of course content and materials: student’s language proficiency, learnability, ease of use, cultural content,
appropriateness of communicative interaction and language use, authentic, real-world tools that help students to interact with themselves and with teachers; adaptation and development of tools for language teaching, adaptation of textbook materials according to specific learning needs and teaching environments, English teacher candidates’ designing their teaching and additional materials according to the appropriate method, student level, needs and current school environment; English content and equipment evaluation; current İDE methods on language materials related to the use of the English textbook in the İDÖ classroom environments, textbook evaluation criteria, and content and materials design.

ELEP 402 (3+0+0) 3 Credits / 4 ECTS
Testing in English Language Teaching (ELT)
(İng. Öğretiminde Sınav Hazırlama ve Değ.)
Exam types and assessment methods used in the teaching of language skills for different age groups and language levels; principles for measuring and evaluating language skills; types of questions used in measuring levels of reading, writing, listening, speaking, vocabulary and grammar; exam preparation techniques and evaluation criteria; preparation of various question examples and exam evaluation practices.

ELEP 403 (3+0+0) 3 Credits / 3 ECTS
Translation
(Çeviri)
Use of different texts for translation from Turkish to English and English to Turkish; grammatical and linguistic structures as well as context are analyzed during translation; the course also aims to raise the awareness of teacher candidates about the similarities and differences of the two languages; different translation techniques for different text types are emphasized.

ELECTIVE COURSES

ELEP 250 (2+0+0) 2 Credits / 4 ECTS
Language and Society
(Dil ve Toplum)
Basic concepts in the interaction of language with society and the individual; geographical and social differences in language societies; linguistics diversity; language and culture, language planning.

ELEP 251 (2+0+0) 2 Credits / 4 ECTS
World Englishes and Culture
(Dünya İngilizceleri ve Kültür)
The use of English as an international language; English as a common language and the different varieties of English in the World; the reflection of English as an international language in English language teaching and teacher education; developing students’ awareness of the relation between language and culture and the analysis of the place of culture in language teaching; evaluating the cultural elements by analysing materials such as coursebooks.
ELEP 252 (2+0+0) 2 Credits / 4 ECTS
Pragmatics and Language Teaching
(Edimbilimi ve Dil Öğretimi)
Knowledge about basics of pragmatics and models for understanding language in use; politeness theory in English language teaching; and materials design for context-specific utterances in English language.

ELEP 253 (2+0+0) 2 Credits / 4 ECTS
English Textbook Analysis
(İngilizce DersKitabı İncelemesi)
Physical, educational, visual design and language features and standards that should be found in the course books; the appropriateness of the coursebook contents for the curriculum; the analysis of the content of some of the coursebooks in terms of content, language, suitability for student level, format, attractiveness, contribution to meaningful learning, ease of use in teaching, etc.

ELEP 254 (2+0+0) 2 Credits / 4 ECTS
Drama in ELT
(İngilizce Öğretiminde Drama)
The definition and meaning of drama; the terms such as psycho-drama, creative drama, education socio-drama and etc.; the relationship between drama and play; the history of drama practices in education; the structure and stages of drama in education; drama setting and teacher qualities; the assessment of drama; examples from the field that match the educational goal, the development and application of examples.

ELEP 255 (2+0+0) 2 Credits / 4 ECTS
Material Design in English Language Teaching
(İngilizce Öğretiminde Materyal Tasarımı)
Using field-specific instructional technologies; types of software and purposes of their use; principles of design and development of materials to be used in teaching of the field; determination of material needs; designing two and three dimensional teaching materials; worksheets; slides; development of teaching materials such as VCD, DVD, MP3 and MP4 files etc.; evaluation of classroom applications done by using different teaching materials.

ELEP 256 (2+0+0) 2 Credits / 4 ECTS
Contemporary Approaches in ELT
(İngilizce Öğretiminde Yeni Yaklaşımlar)
Approaches to different student needs such as course design in English Language Teaching, English as second / foreign / international / special purpose / academic language; current practices such as constructivist approach, content-oriented, task-oriented, problem-focused, holistic language teaching, multiple intelligence and holistic language approach; second language / foreign language teaching and cultural teaching in language teaching, use of technology in language classes, place of communication in the developing world and intercultural interaction.
ELEP 350 (2+0+0) 2 Credits / 4 ECTS

English Vocabulary Teaching
(İngilizce Sözcük Bilgisi Öğretimi)

English vocabulary focuses on analyzing the relationship between semantics and discourse, and developing the skills of teaching vocabulary with integrated vocabulary skills; students will be given the opportunity to assess the different types of English words, forms of word formation, and different meanings of words in context; elements of vocabulary teaching in the classroom and various text types that can be used in class, resources such as dictionary and corpus and vocabulary teaching techniques are covered; this course also focuses on exams that can be used to measure English vocabulary and teaching / learning strategies that support students’ vocabulary learning.

ELEP 351 (2+0+0) 2 Credits / 4 ECTS

English in the Mass Media
(Kitle İletişiminde İngilizce)

Students will be familiarized with published and online mass communication tools such as newspapers, and magazines; they will recognize the features of language used in mass communication and also they will be able to apply this knowledge in their writing; they will be able to analyse and critically evaluate editorial letters, articles and columns; they will be able to understand the validity and reliability of the news items and articles in mass communication; they will be able to write brief news items, headlines, advertisements, editorial letters by using the language features used in mass communication; and they will also be able to analyse how the target language is used to reflect its own cultural properties by looking into real life samples.

ELEP 352 (2+0+0) 2 Credits / 4 ECTS

Classroom Assessment
(Sınıf İçi Öğrenmelerin Değerlendirilmesi)

Assessment tools used in education and their characteristics; assessment tools based on traditional approaches: written examinations, short-answer exams, true-false type tests, multiple choice tests, matching tests, oral examinations; tools for multi-faceted recognition of students: observation, interview, performance assessment, student portfolio, research papers, research projects, peer evaluation, self-evaluation, attitude scales; points to be considered in the evaluation of student success; evaluation of learning outcomes and grading.

ELEP 353 (2+0+0) 2 Credits / 4 ECTS

Sociolinguistics and Language Teaching
(Sosyodilbilim ve Dil Öğretimi)

In this course where sociolinguistics is defined as the investigation of language in social contexts, information about the research topics in sociolinguistics and their types are provided. The students learn that there are different language usages in the society, and the language use changes depending on the region, social status, and ethnic groups. At the end of the course students will be able to understand the relationship between sociolinguistics and language teaching and understand how language changes within society.
ELEP 354  (2+0+0) 2 Credits / 4 ECTS
Discourse Analysis and Language Teaching
(Söylem Çözümlemesi ve Dil Öğretimi)
English language teacher candidates will be able to analyze naturally occurring language use with reference to language skills and teaching practices in various discourse types and understand the importance of discourse for teaching languages. They can also explain the relationship between analysis of discourse and language teaching.

ELEP 355  (2+0+0) 2 Credits / 4 ECTS
Teaching Integrated Language Skills
(Tümleşik Dil Becerilerinin Öğretimi)
This course aims to help teacher trainees teach communicative language skills in an integrated way by helping them improve their knowledge and use of teaching methods and techniques, their competence of integrating language skills such as reading, speaking, listening, and writing in a lesson plan for adolescent and adult learners, and their competence of how to integrate grammar, vocabulary, and pronunciation into skill-based lesson plans.
DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION

Chair
Asst. Prof. Zerrin Toker

Academic Staff
Asst. Prof. Zerrin Toker, Asst. Prof. Çiğdem Alkaş Ulusoy, Asst. Prof. Elçin Emre Akdoğan, Asst. Prof. Emine Gül Çelebi İlhan, Gizem Güzeller*.

* Research Assistant

Undergraduate Program in Elementary Mathematics Education

Elementary Mathematics Education Program in the Department of Mathematics and Science Education at TED University is an undergraduate program, which educates elementary school mathematics teachers for elementary schools from fifth to eighth grades. The main goal of the program is to train highly qualified elementary teachers who are reflective and critical thinkers and capable of showing leadership in their field as well as contributing to the field of elementary mathematics education at both national and international levels.

Upon successful completion of their studies, students are awarded the Bachelor’s degree in Elementary Mathematics Education. Our students who receive an education from a first-rate faculty in state-of-the-art facilities and taking advantage of the rich learning environments provided by the university will be sought after upon graduation and will easily find employment in the school systems in Turkey and the region.

Program Outcomes

Graduates of the Elementary Mathematics Education program will demonstrate the following learning outcomes:

1. Integrate the basic level theoretical and practical mathematics knowledge with elementary mathematics pedagogy.
2. Develop concrete solutions to daily life problems from a mathematical point of view.
3. Critically analyse individual and professional innovations and developments within and outside the field by monitoring them with an interdisciplinary perspective and utilise them efficiently within the teaching-learning process.
4. Use English language efficiently in promoting his/her individual and professional practices.
5. Acquire and analyse information by means of information and communication technology resources in order to accomplish his/her individual and professional goals.
6. Exhibit behavior dedicated to the profession of elementary mathematics teaching, professionalism, life-long learning, ethical values, individual and professional development.
7. Use individual and collaborative skills with all stakeholders of education to support the students’ development in community service projects.
8. Observe his/her own progress in the learning and teaching process, utilizes life-long learning skills.
9. Design learning environments that promote individual and collaborative learning appropriate to students’ developments and cultural diversity.

10. Utilize diverse assessment methods and tools in order to regularly monitor, record and plan the development and learning of the students.

### Undergraduate Curriculum
(2017-2018 and Before)

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Totals expected for graduation 100 72 2 136 240
Undergraduate Course Descriptions
(2017-2018 and Before)

MATH 105 (3+0+0) 3 Credits / 5 ECTS
Fundamentals of Mathematics
(Matematiğin Temelleri)

MATH 108 (3+0+0) 3 Credits / 5 ECTS
Discrete Mathematics
(Ayrık Matematik)

MATH 209 (2+0+0) 2 Credits / 4 ECTS
Analytic Geometry
(Analitik Geometri)

MATH 208 (2+2+0) 3 Credits / 6 ECTS
Basic Algebraic Structures
(Temel Cebirsel Yapilar)

MATH 205 (3+2+0) 4 Credits / 7 ECTS
Calculus I
(Analiz I)
MATH 206  
Calculus II  
(Analiz II)

MATH 303  
Introduction to Differential Equations  
(Diferansiyel Denklemlere Giriş)

MATH 305  
Introduction to Probability and Statistics I  
(Olasılık ve İstatistik Teorisine Giriş I)

MATH 306  
Introduction to Probability Statistics II  
(Olasılık ve İstatistik Teorisine Giriş II)

MATH 312  
Basic Linear Algebra  
(Temel Lineer Cebir)

EME 203  
History of Mathematics  
(Matematik Tarihi)
EME 220 (2+2+0) 3 Credits / 6 ECTS
Middle School Mathematics
(Ortaokul Matematiği)

EME 304 (3+0+0) 3 Credits / 6 ECTS
Assessment and Evaluation in Mathematics Education
(Matematik Eğitiminde Ölçme ve Değerlendirme)
Basic concepts of assessments and evaluation. Types of classroom assessments and their development. Grading and reporting. Validity and reliability of qualitative and quantitative data collection tools. Views of international organizations (OECD, IAE, NAEP etc.) on education, and investigating a large scale assessments by the implementation of some studies such as PISA, TALIS, TIMSS, and PIRLS. The assessment frameworks of the achievement tests and the questionnaires of the large scale assessments.

EME 307 (2+0+0) 2 Credits / 4 ECTS
Child Development and Learning in the Middle Grades
(Ortaokul Düzyinine Çocuk Gelişimi ve Öğrenme)
Characteristics of middle grade students starting from age 8 to 13. Physical, intellectual, social, psychological, moral and ethical development. Understanding young adolescents’ unique brain growth and cognitive development. Learning environments appropriate for these characteristics and its design.

EME 321 (2+2+0) 3 Credits / 6 ECTS
Teaching Middle School Mathematics
(Ortaokul Matematik Öğretimi)
Instructional methods and strategies for teaching fundamental concepts of middle school mathematics. Designing instructional activities which constitutes fundamental concepts. Integrating technology as a teaching tool. Lesson planning from different perspectives and diversification. Instruction and assessment.

EME 302 (2+2+0) 3 Credits / 6 ECTS
Technology in Mathematics Education
(Matematik Eğitiminde Teknoloji)
Benefits and limitations of using educational technologies in mathematics. Using interfaces of the software of technological tools and resources. Integration of the new and developing educational technology such as web-based software, dynamic software, graphical tools (CBR), simulations, calculators. Design, and critique technology-enhanced mathematical activities.
EME 308  
Nature of Mathematical Knowledge for Teaching  
(Matematik Öğretiminin Doğası)  
The nature of mathematical knowledge needed in mathematics teaching. Their roles in learning.  
The nature of mathematical knowledge and how it is connected with teaching. Reasons for misconceptions.

EME 381  
Practicum  
(Okul Deneyimi)  
Designing and planning curriculum and learning environments under the supervision of mentor teachers. Teaching as an assistant teacher. Assessing children’s learning. Engaging parents. Attending professional teacher development activities as elementary mathematics teacher.

EME 471  
Research Project  
(Araştırma Projesi)  

EME 406  
Seminar  
(Seminer)  
Become familiar with research in mathematics education. Links between research and practice in mathematics education. Implications for the practice. Critical discussions based on the readings. Guests from the relevant field and virtual seminars from the international and national experts in the field.

EME 481  
Student Teaching I  
(Öğretmenlik Uygulaması I)  

EME 472  
Capstone Experience  
(Bitirme Projesi)  
Putting all the skills and knowledge acquired throughout undergraduate studies into practice. Creating a professional teacher portfolio (content of the portfolio: developmentally appropriate teaching activities, samples of instructional plans, evidence that shows appropriate Math. education learning environment design, samples of work related to school, family and community relationships, samples of assessment activities, evidence of participation in professional development activities). Presentation of this professional portfolio.
## Undergraduate Curriculum

*(2018-2019 and After)*

### Semester 1

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**EME 482**

*(1+8+0)* 5 Credits / 9 ECTS

**Student Teaching II**

*(Öğretmenlik Uygulaması II)*

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### Semester 6

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**TOTAL** 14  6  0  17  30

## Semester 8

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**TOTAL** 12  6  0  15  30

**Totals expected for graduation** 139  14  0  146  240

### Undergraduate Course Descriptions

**Undergraduate Course Descriptions**

*(2018-2019 and After)*

**MATE 101 (2+0+0) 2 Credits / 2 ECTS**

**Fundamentals of Mathematics I**

(Matematiğin Temelleri I)

Topics in numeracy and algebra strands of mathematics curriculum: Natural numbers, operations with natural numbers, fractions, operations with fractions, decimals, percents, factors and multiples, sets, integers, operations with integers, rational numbers, operations with natural numbers, ratio, ratio and proportion, powers and square roots, algebraic expressions, equality and equations, linear equations, algebraic expressions and identities, inequalities. Fundamental concepts in contents and their properties, relationship between those concepts, discussing the concepts, converting different representations of the concepts to each other.

**MATE 102 (2+0+0) 2 Credits / 4 ECTS**

**Fundamentals of Mathematics II**

(Matematiğin Temelleri II)

Topics in geometry and statistics and probability strands in mathematics curriculum: Basic geometric concepts and drawings, triangles and rectangles, triangles, measuring length and time, measuring area, geometric shapes, angles, lines and angles, circles, circles and circular area, measuring liquids, transformational geometry, polygons, views of objects from different perspectives, equality and similarity, data collection and evaluation, basic concepts and characteristics of data analysis. Fundamental concepts in contents and their properties, relationship between those concepts, discussing the concepts, converting different representations of the concepts to each other.
MATE 103 (2+0+0) 2 Credits / 3 ECTS
Calculus I
(Analiz I)
Sets and number systems; relation, function types, exponential functions and logarithmic functions; limit, continuity concepts and applications; derivative, derivative applications and graphical expressions.

MATE 104 (2+0+0) 2 Credits / 4 ECTS
Calculus II
(Analiz II)
Trigonometric functions, trigonometric relations, trigonometric equation solutions; complex numbers and characteristics; Riemann sum, definite integral, indefinite integral, integration methods, applications of integral, improper integral, series and convergence tests.

MATE 105 (2+0+0) 2 Credits / 3 ECTS
History of Mathematics
(Matematik Tarihi)
The position of mathematics history in mathematics education; Ancient Egyptian mathematics; Ancient Greek mathematics; Far East mathematics; Islamic world mathematicians; the birth of contemporary mathematics; historical development of mathematical concepts.

MATE 106 (2+0+0) 2 Credits / 5 ECTS
Discrete Mathematics
(Soyut Matematik)
Symbolic logic and proof techniques; sets, algebra of sets, partition of sets, product sets; inverse relation, composition of relations, equivalence relations and equivalence classes, ordered relation; partial ordered set, full ordered set; functions, an one-to-one and onto functions, composition of functions, inverse functions, permutations, operations.

MATE 201 (2+0+0) 2 Credits / 3 ECTS
Learning and Teaching Approaches in Mathematics
(Matematik Öğrenme ve Öğretim Yaklaşımları)
The nature of mathematics and mathematical thinking; the meaning of mathematics learning and teaching; aim and basic principles of mathematics teaching; history of mathematics teaching; reflections of learning and teaching approaches on mathematics teaching; fundamental skills in mathematics teaching; in-class examples of teaching; current trends and problems in mathematics teaching; components of effective mathematics teaching; looking at mathematics teaching from social, cultural and economic aspects.

MATE 202 (2+0+0) 2 Credits / 3 ECTS
Middle School Mathematics Curricula
(Ortaokul Matematik Öğretim Programları)
Fundamental concepts about curriculum; the development of middle school mathematics curriculum from past to present; the approach, content, and skills of current middle school mathematics curriculum; learning and sub-learning areas; distribution and boundaries of learning objectives by
grade levels, relationship of mathematics curriculum with other disciplines; the relationship of middle school mathematics curriculum with elementary and high school mathematics curriculum; methods, techniques, tools and materials used; measurement evaluation approach; teacher qualifications.

**MATE 203**  
Linear Algebra I  
*(Lineer Cebir I)*

Matrices, operations with matrices, special types of matrices; elementary operations, echelon matrix, elementary matrices and inverse of a matrix, rank of a matrix; determinant, properties of determinant function; Systems of linear equations, methods of solving systems of linear equations (Gaussian elimination, Gauss-Jordan reduction, inverse matrix and cramers method).

**MATE 204**  
Linear Algebra II  
*(Lineer Cebir II)*

Vector spaces, subspaces, linear independence, linear combinations; stretching, base and dimension; linear transformations, core and image of a linear transformation; isomorphics, self-values and self-vectors; characteristic polynomials; diagonalization, inner product spaces, orthogonality of vectors, orthonormal vector sets.

**MATE 205**  
Analytic Geometry  
*(Analitik Geometri)*

Cartesian coordinates in plane and space; vectors in plane and space; lines in the plane; lines and planes in three-dimensional space; reflections by line and plane; the relationships of point-line, line-plane and planes with each other; translation and rotation in plane.

**MATE 206**  
Algorithm and Programming  
*(Algoritma ve Programlama)*

Design of an algorithm; flow diagrams, input-output concepts, loops, decision structures, decision making and development of appropriate algorithms for cyclic problems; applications of programs (such as scratch, code.org) using algorithms and flowcharts by visualization; using appropriate function to create appropriate solution algorithms; developing appropriate solution algorithms using single and double dimensional sequences; coding and applications of generated algorithms in Computer Algebra Systems.

**MATE 207**  
Calculus III  
*(Analiz III)*

Multivariable functions; IRn's topology, limit, continuity, sequences of functions and series; derivative, directional derivative, partial derivative, geometric interpretation of partial derivative, higher order derivatives and chain rule.
MATE 208  
**Probability**  
*(Olasılık)*

The fundamental principle of counting; concept of permutation and its applications; concept of combination and its applications; binomial theorem, the concept of probability, fundamental concepts related to probability and axioms of probability; conditional probability and Bayes’ theorem; geometric probability problems; random variable concept; probability function, probability density function; expected value and variance of random variables; moment generating functions and moments; some discrete distributions, Bernoulli, binomial, geometric, hypergeometric, Poisson distributions; some continuous distributions, uniform distribution, exponential distribution, normal distribution and properties.

MATE 250  
**Computer Assisted Mathematics Teaching**  
*(Bilgisayar Destekli Matematik Öğretimi)*

The importance of technology in mathematics teaching; use of software such as Computer Algebra Systems (CAS) and Dynamic Geometry Systems (DGS), producing and implementing interactive activities through these softwares; evaluation of student products.

MATE 251  
**Culture and Mathematics**  
*(Kültür ve Matematik)*

Relationship between mathematics and culture; defining mathematical concepts in their cultural contexts, mathematical thinking structures of different cultures, basic principles of research in the field of ethnomathematics, the relationship between mathematics-anthropology-linguistics; the importance of including ethnomathematical studies in classroom applications; designing in-class mathematical activities for different cultural contexts.

MATE 252  
**Mathematics Teaching in Primary School**  
*(İlkokul Matematik Öğretimi)*

The objectives of primary school mathematics teaching, basic principles; analysis of primary mathematics curriculum from the aspects of the aim, content, philosophical approach, teaching methods, evaluation and evaluation techniques; mathematical understanding of primary school students, misconceptions and difficulties in primary school students; measurement and assessment in primary school mathematics.

MATE 253  
**Mathematics Textbook Analysis**  
*(Matematik Ders Kitabı İncelemesi)*

Physical, educational, visual design and language expression features and standards that should be included in the textbook; the appropriateness of the content of the textbooks to the program; analysis of current textbooks based on the aspects of content, language, student level, format, attractiveness, contribution to meaningful learning, ease of use in teaching etc.
MATE 254 (2+0+0) 2 Credits / 4 ECTS
Inclusion Practices in Mathematics Education
(Matematik Eğitiminde Kaynaştırma Uygulamaları)
Definition and basic principles of inclusion; characteristics of inclusion students; social relations of inclusion students with other students and their teaching situations, advantages and disadvantages of being labeled; supporting the inclusion students with individualized education programs in the mathematics lesson; part-time and full-time inclusion applications and evaluation.

MATE 255 (2+0+0) 2 Credits / 4 ECTS
Self-regulation in Mathematics Education
(Matematik Eğitiminde Özdüzenleme)

MATE 301 (3+0+0) 3 Credits / 5 ECTS
Teaching Numeracy
(Sayıların Öğretimi)
Number system set-up, natural numbers, operations with natural numbers, numbers in other bases, integers, factors and multiples, rules of divisibility, GCF and LCM concepts and applications; ratio and proportion concepts and applications; real numbers, exponents and roots, fractions, decimal representations, percentages; rational and irrational numbers; sets and basic concepts related to sets. Teaching of these concepts (organizing course content-using appropriate instructional materials and strategies etc.); students’ knowledge about these issues (understanding, interpreting, understanding difficulties students have related to these concepts, general mistakes, misconceptions and reasons); the relationship of these concepts with daily life and other disciplines.

MATE 302 (3+0+0) 3 Credits / 5 ECTS
Teaching of Algebra
(Cebir Öğretimi)
Algebraic thinking, importance of algebraic thinking in mathematics teaching; pre-algebra; arithmetic-algebra relationship; generalized arithmetic and functional thinking; basic algebra concepts; different representations in algebra teaching; variable, algebraic expression, equality and equation, linear equations, teaching of identities and inequalities organizing content of instruction, using appropriate materials and strategies, etc.; student knowledge about these subjects (understanding and interpreting students thinking, knowing students’ difficulties, mistakes, misconceptions and their reasons); the relationship of these concepts with daily life and other disciplines.
MATE 303  
Teaching of Geometry and Measurement  
(Geometri ve Ölçme Öğretimi)

Van Hiele thinking levels; basic geometric concepts, geometric structures, geometric shapes; equality and similarity; transformational geometry, projection, pattern and tessellations, fractals; Pythagorean theorem, nature of measuring, time, length, area, volume and angle measurement. Teaching of subjects (organizing content of an instruction, using appropriate teaching materials and strategies, etc.); information about students related to these subjects (understanding and interpreting student thinking; knowing student’s difficulties, mistakes, misconceptions and the reasons); the relationship of these concepts with daily life and other disciplines.

MATE 304  
Teaching of Probability and Statistics  
(Olasılık ve İstatistik Öğretimi)

Basic concepts of probability, types of probability, probability simulations and distributions; data collection, data organization, representation and analysis, concept of distribution, frequency distributions; teaching of central tendency and distribution concepts (organizing content of an instruction, using appropriate materials and strategies, etc.); information about students related to these subjects (understanding and interpreting student’s thinking, knowing students’ difficulties, mistakes, misconceptions and reasons of them); the relationship of these concepts with daily life and other disciplines.

MATE 305  
Statistics  
(İstatistik)

Sampling, organizing data and data analysis; sampling distribution and estimation; confidence interval concept; interval estimation for the difference of two mass averages, interval estimation for the ratio of two mass variances, binomial parameter interval estimation for p; hypothesis testing, correlation and regression.

MATE 306  
Connection in Mathematics Education  
(Matematik Öğretiminde İlişkilendirme)

Establishing relationships between concepts and processes; expressing mathematics concepts and rules with different representations; connecting different mathematical concepts with each other; connecting mathematics with other disciplines; connecting mathematics with everyday life.

MATE 307  
Algebra  
(Cebir)

Binary operations, definition of group and basic properties, subgroups, permutation groups, cyclic groups, uniform symmetry group of n-gon, rotational permutations, single and double permutations, homomorphisms, Kosets and Lagrange’s theorem, isomorphism theorems, the effect of a group on a
set, rings, lower ring and ideals, prime and maximal ideals, ring homomorphisms, arithmetic in rings, polynomial rings, objects; Burnside theorem and its applications, p-groups and related theorems, $A_n$ simplicity for $n > 4$.

**MATE 350**  
**Activity Development in Mathematics Teaching**  
(Matematik Öğretiminde Etkinlik Geliştirme)  
The purpose and importance of using activities in mathematics teaching; characteristics of activities used in mathematics teaching; issues to be considered in the preparation and implementation of activities; evaluation of sample activities; activity development; measurement and evaluation in activity based classes.

**MATE 351**  
**Materials Design in Mathematics Teaching**  
(Matematik Öğretiminde Materyal Tasarımı)  
Using field-specific instructional technologies; types of software and purposes of their use; principles of design and development of materials to be used in teaching of the field; determination of material needs; designing two and three dimensional teaching materials; worksheets; slides; development of teaching materials such as VCD, DVD, MP3 and MP4 files etc.; evaluation of classroom applications done by using different teaching materials.

**MATE 352**  
**Out-of-School Learning Environments in Mathematics Teaching**  
(Matematik Öğretiminde Okul Dışı Öğrenme Ortamları)  
The scope and importance of out-of-school learning; mathematics teaching in out-of-school environments; teaching methods and techniques (project-based learning, environment-based teaching, etc.) appropriate for out-of-school learning; out-of-school learning environments (museums, science centers, zoos, botanical gardens, industrial establishments, national parks, science festivals, science camps, natural environments, rural areas etc.); planning and implementation and evaluation of out-of-school learning activities.

**MATE 353**  
**Communication in Mathematics Classrooms**  
(Matematik Sınıflarında İletişim)  
Recognizing that mathematics is a language with its own symbols and terminology, using the symbols and terms of mathematics effectively and correctly, using mathematical language in mathematics itself and in an appropriate and effective way in different disciplines and life, expressing mathematical ideas using different forms of representation such as concrete model, shape, picture, graphic, table, symbol etc. expressing mathematical thoughts verbally and by writing, connecting daily language with mathematical language and symbols, connecting mathematical language with daily language and symbols; interpreting the accuracy and meaning of mathematical ideas.
MATE 354 (2+0+0) 2 Credits / 4 ECTS
Teaching Mathematics to the Gifted
(Üstün Yetenekli Öğrencilere Matematik Öğretimi)
Recognition of gifted students in mathematics, advantages and disadvantages of labeling; characteristics of gifted students, development of giftedness in mathematics, program preferences for gifted students, differentiation, enrichment, acceleration for gifted students, supporting gifted students in class, social relations with gifted students; individualized education programs for gifted students.

MATE 355 (2+0+0) 2 Credits / 4 ECTS
Teaching Mathematics Through Play
(Oyunla Matematik Öğretimi)
Game and game types; the importance of games in mathematics teaching; theoretical approaches to play; logic, mathematics, intelligence games/puzzles; mathematics and game interaction; examination of some games developed by mathematicians; cultural math games, game theory; technology supported math games.

MATH 356 (2+0+0) 2 Credits / 4 ECTS
Assessment of In-Class Learning
(Sınıf İçi Öğrenmelerin Değerlendirilmesi)
Assessment tools used in education and their characteristics; assessment tools based on traditional approaches: written examinations, short-answer exams, true-false type tests, multiple choice tests, matching tests, oral examinations; tools for multi-faceted recognition of students: observation, interview, performance assessment, student portfolio, research papers, research projects, peer evaluation, self-evaluation, attitude scales; points to be considered in the evaluation of student success; evaluation of learning outcomes and grading.

MATE 401 (2+0+0) 2 Credits / 3 ECTS
Problem Solving in Mathematics
(Matematikte Problem Çözme)
Problem and problem solving, problem types, the importance of problem solving instruction, Recent developments in problem solving; mathematical problem-solving strategies and the importance of multiple representations in problem solving; examples of problems that can be solved by different problem solving strategies, evaluation of problem solving; definition, process, characteristics and importance of problem posing, classifications of problem posing, problem posing strategies, different problem posing studies, problem posing in middle school mathematics curriculum and textbooks; evaluation of problem posing.

MATE 402 (2+0+0) 2 Credits / 3 ECTS
Philosophy of Mathematics
(Matematik Felsefesi)
Ontology and epistemology of mathematics; numbers, sets, functions, etc. mathematical concepts with proposition and the meaning of mathematical expressions; fundamentals of mathematics, methods and philosophical problems related to the nature of mathematics, objectivity in mathematics
and applicability to the real world; studies of pioneers of philosophy of mathematics, such as Frege, Russel, Hilbert, Brouwer and Gödel; flatness and dimension concept, basic theories of mathematics philosophy; Logism, formalism and intuitionism. Semi-experimentalists and Lakatos; the relationship between mathematics philosophy and mathematics education; social groups in the philosophy of mathematics education.

MATE 403
Misconceptions in Mathematics Education
(Matematik Öğretiminde Kavram Yanılgıları)
Mathematical mistake, difficulty and misconception; types of misconceptions, mathematics concepts and misconceptions in literature related to these concepts; inquiry techniques to find out students’ thinking processes, finding solutions to misconceptions according to the characteristics of the subject area and individual differences of students.

MATE 404
Modeling in Mathematics Education
(Matematik Öğretiminde Modelleme)
Mathematical modeling and problem solving; models in mathematics teaching and modeling process; modeling cycle (problem identification, manipulation, estimation and verification), model development steps; principles of model development; modeling activities implementation in mathematics classes and role of teacher; preparing mathematical modeling activities and monitoring student’ mathematical thinking processes.

MATE 405
Logical Reasoning
(Mantıksal Akl Yürütme)
To defend the validity and reliability of the implications; making logical generalizations and inferences; explaining and using mathematical patterns and connections while analyzing a mathematical situation; by using strategies such as rounding, grouping appropriate numbers, using first or last steps, or by developing their own strategies, estimating the results of operations and measurements; estimation based on specific reference point.
Dean's Statement

TED University Faculty of Engineering, founded in 2012, offers the best of a liberal university atmosphere enriched with the academic and technical resources of a world-class institution. The Faculty is matchlessly organized to create the technological leaders of tomorrow. Our goal is to position our graduates among the problem solvers, project leaders, communicators, and ethical members of the global professional community.

Through innovative curricula, teamwork approaches, and leadership-building experiences, TED University Faculty of Engineering students gain vital communication and critical-thinking skills. We offer our students a student-centered environment. Our faculty members are dedicated to keeping up with the trends in science and technology in their respective fields and pay utmost importance to assure an outstanding teaching and learning quality in the class. Our students have the chance to get a rich educational experience to develop themselves by following minor programs coupled with elective courses while acquiring in-depth knowledge in their chosen field. They also benefit from the diverse cultural and intellectual climate of the TEDU campus located in the heart of Ankara, the capital of the Republic of Turkey.

Students admitted to the Faculty of Engineering programs follow a common core curriculum during the first year. In their first year, the students are offered an undergraduate program to provide them with interdisciplinary skills in the fields of English, computer literacy, mathematics, physics and other elective fields of their interest. Students enrolled in TED University engineering programs have the privilege to decide on their major after finishing their first year courses. This way, our students have an excellent opportunity to mature their decisions by exploring their future professional fields over a longer period of time within the grounds of TEDU. Our students have the chance to choose from five major engineering disciplines, which include Civil Engineering, Computer Engineering, Electrical and Electronics Engineering, Industrial Engineering and Mechanical Engineering. The general background knowledge provided by the first year courses, career orientation seminars offered by the University and their own interests will provide our students with greater insight as to which field of engineering they wish to pursue.

Within a greater societal context, the graduates of TEDU Faculty of Engineering should demonstrate themselves by:

- Applying knowledge, strong reasoning, cognitive and quantitative skills to design and implement original, innovative and sustainable solutions
- Exhibiting strong communication, interpersonal, and resource-management skills as leaders in the profession
- Acting professionally and ethically
- Displaying teamwork skills
- Engaging in life-long learning to face the future challenges

Continuous follow up studies are underway, in collaboration with the TEDU Quality Assurance and Enhancement Unit, to assess whether these targets have been reached and to decide what further actions can be taken.

I invite you to become better acquainted with the TED University Faculty of Engineering through the web pages of our Departments and through a visit to our beautiful campus.

Prof. Güney ÖZCEBE, Dean
DEPARTMENT OF CIVIL ENGINEERING

Chair
Assoc. Prof. Rıza Secer Orkun Keskin

Academic Staff

* Research Assistant

Undergraduate Program in Civil Engineering

Engineering is the application of scientific and technical knowledge along with economic and social principles to real-life problems. Civil engineering is the oldest branch of engineering and aims at increasing the quality of life by striving to provide better solutions for the most fundamental needs of all humans. The civil engineers are involved in the planning, design, construction, and operation of the built environment above- and below-ground, which includes building and housing systems, transportation systems, and systems for the protection and use of air and water resources.

The civil engineering students at TED University will obtain a broad background in mathematics and the physical sciences along with their applications to all areas of civil engineering. The flexible curriculum of the Civil Engineering Department allows students to make their selections from a wide range of elective courses, which includes the areas of civil engineering of most interest to the students, and courses in the humanities and social sciences. Furthermore, a balanced focus on both the depth and breadth of knowledge is the most critical feature of the civil engineering curriculum at TEDU.

The graduates of the civil engineering program of TEDU are expected to solve civil engineering problems within a greater societal context. They will have a professional and ethical conduct and will be able to apply knowledge, strong reasoning, and quantitative skills to design and implement creative and sustainable solutions. They will engage in lifelong learning in meeting the forthcoming challenges facing the profession. Last but not the least, our graduates will exhibit strong communication, interpersonal, and resource-management skills as future leaders in the civil engineering profession.

The first year of the undergraduate program is common to all engineering disciplines. The studies on mechanics, materials and applied mathematics begin in the second year. The third year aims at building the basic theoretical background in major sub-disciplines of civil engineering. These include geotechnical engineering (behavior of soils, design of foundations), structural engineering (analysis and design of reinforced concrete and steel structures), hydraulics engineering (flow of water in pipes, open channels, water resources) and the general systems approach to engineering problems. The students are also exposed to construction engineering and management concepts at an introductory level in the fourth year. The senior civil engineering students have a flexible curriculum. They are mainly offered a variety of elective courses on planning and design of complex civil engineering systems.
Our students have the chance to specialize in a secondary field as they pursue their major program. TED University offers a choice of diverse secondary field programs provided by all faculties.

**Program Outcomes**

Our graduates are able to:

1. Comprehend science and advanced mathematics subjects fundamental to engineering,
2. Apply knowledge of mathematics, science, and engineering to design and implement original, innovative and sustainable civil engineering systems or processes to meet desired needs within a greater societal context,
3. Identify, formulate, and solve engineering problems,
4. Employ state-of-the-art engineering techniques and computing tools necessary for creative engineering solutions,
5. Design and conduct experiments; analyze and interpret data,
6. Practice good working habits, time management, and self-discipline,
7. Display multidisciplinary teamwork skills,
8. Act professionally and ethically,
9. Appreciate cultural diversity,
10. Respect individual and cultural differences,
11. Demonstrate effective oral and written professional skills in English,
12. Engage in life-long learning to face the future challenges and to achieve an enduring professional development.

**Undergraduate Curriculum**

**Semester 1**

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<th>Code</th>
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*Students will select only one course from each category in “Humanities/Literature/Art/Sciences” common core (CC) areas.

**Semester 2**

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# Academic Catalog 2020 - 2021

## Semester 3

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Totals expected for graduation 121 10 24 138 240

**Civil Engineering Department offers technical elective courses in three separate groups. These groups are; Group I: CE 411, CE 412, CE 414, CE 442, Group II: CE 431, CE 432, CE 434, CE 436, CE 461; Group III: CE 452, CE 454, CE 455. The students shall take only one elective course from each group.**

### Courses with Pre-requisites

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<th>Course Name</th>
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<tr>
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<td>CE 212 Engineering Mechanics II</td>
<td>CE 211</td>
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<td>CE 214 Introduction to Mechanics of Materials</td>
<td>CE 211</td>
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<td>CE 232 Fluid Mechanics</td>
<td>CE 211</td>
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<td>CE 311 Structural Analysis</td>
<td>CE 214 and MATH 210</td>
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<td>CE 312 Fundamentals of Steel Design</td>
<td>CE 214</td>
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<td>CE 314 Reinforced Concrete Fundamentals</td>
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<td>CE 414 Introduction to Earthquake Resistant Design</td>
<td>CE 212 and CE 311</td>
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<td>CE 431 Design of Hydraulic Structures</td>
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<td>CE 432 Water Supply Engineering Design</td>
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<td>CE 434 Coastal Engineering</td>
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Undergraduate Course Descriptions

CE 200  (0+0+4) 2 Credits / 4 ECTS
Computer Aided Technical Drawing
(Bilgisayar Destekli Teknik Çizim)
Principles of engineering drawing, lettering, dimensioning and tolerancing, orthographic drawing, pictorial and sectional views. Introduction to computer aided drafting.

CE 211  (3+0+0) 3 Credits / 5 ECTS
Engineering Mechanics I
(Mühendislik Mekaniği I)
Pre-requisite: PHYS 105

CE 212  (3+0+0) 3 Credits / 5 ECTS
Engineering Mechanics II
(Mühendislik Mekaniği II)
Pre-requisite: CE 211

CE 214  (3+0+2) 4 Credits / 6 ECTS
Introduction to Mechanics of Materials
(Malzeme Mekaniğine Giriş)
Pre-requisite: CE 211
CE 221  
Materials Science  
(Malzeme Bilimi)  
Engineering requirements of materials; the structure of matter; atomic arrangements, structural 
imperfections. Mechanical properties. Concepts of force, stress, deformation and strain; elasticity; 
elastic and plastic behavior. Creep, relaxation, brittleness, ductility, hardness, fatigue, toughness, 
resilience, and damping characteristics of materials. Construction materials; hydraulic cements, 
mineral aggregates, concrete, ferrous metals, polymers, bituminous materials, timber.

CE 232  
Fluid Mechanics  
(Akışkanlar Mekaniği)  
Fundamental principles of fluid mechanics and their application to engineering problems. Fluid statics. 
analysis and similitude. Flow of viscous fluids, simple laminar flow systems, turbulence, internal and 
external flow applications.  
Pre-requisite: CE 211

CE 311  
Structural Analysis  
(Yapisal Analiz)  
Introduction to structural analysis. Displacement methods: Slope deflection, moment distribution, 
special topics. Stiffness method, derivation of element stiffness matrices, assembly procedures. 
Computerized implementation of the stiffness method and use of instructional programs. Large scale 
structural analysis. Influence lines and moving loads.  
Pre-requisites: CE 214 and MATH 210 (Effective Fall 2018-2019)

CE 312  
Fundamentals of Steel Design  
(Çelik Tasarımın Temelleri)  
General concepts in steel design. Design methods, codes, safety, and serviceability. Behavior of steel 
structures. Tension members, compression members, beams, beam-columns, types and behavior of 
connections in steel structures, bolted and welded connections.  
Pre-requisite: CE 214

CE 314  
Reinforced Concrete Fundamentals  
(Betonaromenin Temelleri)  
Mechanical behavior of concrete in uniaxial and multiaxial states of stress. Time dependent behavior 
of concrete. Mechanical behavior of reinforcing steel. Behavior and strength of uniaxially loaded 
members; confinement. Behavior and strength of members in pure bending. Behavior and strength 
of members under combined bending and axial load. Behavior and strength of members under 
combined shear and bending.  
Pre-requisite: CE 214
CE 331 (3+0+2) 4 Credits / 6 ECTS
Hydromechanics
(Hidromekanik)
Pre-requisite: CE 232

CE 332 (3+0+0) 3 Credits / 6 ECTS
Water Resources Engineering
(Su Kaynakları Mühendisliği)
Pre-requisite: CE 331

CE 341 (3+0+2) 4 Credits / 6 ECTS
Soil Mechanics
(Zemin Mekaniği)
Pre-requisite: CE 214

CE 342 (3+0+0) 3 Credits / 6 ECTS
Foundation Engineering I
(Temel Mühendisliği I)
Pre-requisite: CE 341
CE 399 (1+0+0) 1 Credit / 2 ECTS
Summer Practice I
(Yaz Stajı I)
Minimum 20 working days of practical work at the construction site of an organization operating on
the design, production, maintenance, management of civil engineering structures and systems.
Pre-requisites: Sophomore Standing

CE 410 (2+0+2) 3 Credits / 10 ECTS
Civil Engineering Design
(İnşaat Mühendisliği Tasarımı)
Design and development of a project for a civil engineering problem under the supervision of an
academic advisor. Submission of the results in the form of a project report and oral presentation.
Pre-requisites: CE 342 and (CE 312 or CE 314 or CE 332)

CE 411 (3+0+0) 3 Credits / 6 ECTS
Reinforced Concrete Structures
(Betonarme Yapılar)
General RC Behavior: Material Behavior, Time Dependent Behavior of Concrete; Review on
Flexural Behavior of RC Members; Bi-axial Bending; Moment-Curvature Relationship, Plastic Hinge,
Redistribution; Behavior and Strength of Members under Combined Shear and Torsion; Floor Systems-
Slabs; Footings; Strut-and-Tie Method; Serviceability and Detailing.
Pre-requisite: CE 314

CE 412 (3+0+0) 3 Credits / 6 ECTS
Steel Structures
(Çelik Yapılar)
Tapered Beams. Torsion. Introduction to Plate Girders. Beam-Column Connections. Design of Roof
Steel Concrete Construction.
Pre-requisite: CE 312

CE 414 (3+0+0) 3 Credits / 6 ECTS
Introduction to Earthquake Resistant Design
(Depreme Dayanıklı Yapı Tasarımına Giriş)
Causes of earthquakes, characteristics of earthquake ground motions, earthquake magnitude and
intensity measurements. Seismic response analysis of simple structures. Derivation of elastic response
spectra and earthquake design spectra. Earthquake design criteria. Free and forced vibration analysis
of frame structures. Modal spectral analysis and equivalent static lateral force method. Design codes,
design applications.
Pre-requisites: CE 212 and CE 311
CE 431  
Design of Hydraulic Structures  
(Hidrolik Yapıların Tasarımı)  
Pre-requisite: CE 331

CE 432  
Water Supply Engineering Design  
(Su Mühendisliğinde Tasarım)  
Pre-requisite: CE 332

CE 434  
Coastal Engineering  
(Kıyı Mühendisliği)  
Linear wave theory, wave transformations (shoaling, refraction, breaking, diffraction, reflection), wind-generated waves and their prediction, wave climate, design of rubble mound and vertical wall breakwaters.  
Pre-requisite: CE 331

CE 436  
Integrated Coastal Zone Management  
(Bütünleşik Kıyı Alanları Yönetimi)  
Definition of Coastal Zone; Physical and Ecological Properties of Coastal Zone; Coastal Landforms; Coastal Processes; The Global Ocean and the Climate System; Coastal Structures; Pressures on the Coast; Coastal Pollution; Sea Level Rise; Integrated Coastal Zone Management (ICZM); ICZM Practice in Turkey.  
Co-requisite: CE 331

CE 442  
Foundation Engineering II  
(Temel Mühendisliği II)  
Pre-requisite: CE 342
CE 451  (3+0+0) 3 Credits / 5 ECTS
**Construction Engineering and Management**  
(Yapım Mühendisliği ve Yönetimi)

Introduction to construction project management: Parties and their roles, stages, attributes and goals of construction projects. Quantity measurement calculations: example calculations of a house. Construction machinery, equipment and plants: selection criteria, hourly cost determination and output analysis of excavators. Professional responsibility and ethics, productivity, quality, health and safety issues. Environmental and economic impacts of construction industry.

Prerequisite: CE 399

CE 452  (3+0+0) 3 Credits / 6 ECTS
**Practical Aspects of Construction Management**  
(Yapım Yönetiminin Pratik Yönleri)

Introduction to management, general description of construction industry, contract systems, types of construction contracts. Review of typical organizational structures for construction companies and projects. Work scheduling by network time analysis, resource analysis and leveling. Main tasks to start up construction projects. Project records, documentation. Communication basics and communication in construction sites. Monitoring and control systems. Procedures and formalities for project completion.

Pre-requisite: CE 451

CE 454  (3+0+0) 3 Credits / 6 ECTS
**Contractual Aspects of Construction Works**  
(İnşaat İşlerinin Sözleşmeye Dayalı Yönleri)


Pre-requisites: None  
Co-requisite: CE 499

CE 455  (3+0+0) 3 Credits / 5 ECTS
**Sustainable Construction**  
(Sürdürülebilir İnşaat)

Introduction to sustainability and the role of civil engineering towards the solution of global problems. Green buildings, their evaluation and certification systems, design processes, and economics. Case studies with current technologies.

Co-requisite: CE 499
CE 461 (3+0+0) 3 Credits / 6 ECTS
Principles of Transportation and Traffic Engineering
(Ulaştırma ve Trafik Mühendisliğinin Temel İlkeleri)
Pre-requisites: Senior Standing

CE 499 (1+0+0) 1 Credit / 2 ECTS
Summer Practice II
(Yaz Stajı II)
Minimum 20 working days of practical work in an organization operating on the design of civil engineering structures.
Pre-requisites: CE 399 or Consent of the Department

Graduate Course Descriptions

CE 515 (3+0+0) 3 Credits / 7.5 ECTS
International Civil Engineering Contract
(Uluslararası İnşaat Mühendisliği Sözleşmeleri)

CE 517 (3+0+0) 3 Credits / 7.5 ECTS
Construction Site Management
(Şantiye Yönetimi)

CE 518 (3+0+0) 3 Credits / 7.5 ECTS
Construction Process and Document Management
(İnşaat Projelerinde Süreç ve Doküman Yönetimi)
CE 519 (3+0+0) 3 Credits / 7.5 ECTS
Contract and Claim Management (Sözleşme ve Talep Yönetimi)

CE 521 (3+0+0) 3 Credits / 7.5 ECTS
International Arbitration (Uluslararası Tahkim)
Fundamental principles of International Arbitration. Turkish International Arbitration Law. Domestic Arbitration.

CE 527 (3+0+0) 3 Credits / 7.5 ECTS
Sustainable Construction (Sürdürülebilir İnşaat)

CE 528 (3+0+0) 3 Credits / 7.5 ECTS
Renewable Energy Projects (Yenilenebilir Enerji Projeleri)
The importance of renewable energy in energy market and Turkey’s renewable energy potential. Renewable energy resources. Basic design principles, structure types, construction techniques and applications of renewable energy projects, environmental impacts of the renewable energy systems, the role of renewables for sustainability. Conditions of renewable energy market in Turkey and worldwide. Government agencies, laws and permissions related with renewable energy in Turkey. Case study of a real renewable energy project invested in Turkey.
DEPARTMENT OF COMPUTER ENGINEERING

Chair
Prof. Tolga Kurtuluş Çapın

Academic Staff

* Research Assistant

Undergraduate Program in Computer Engineering

The undergraduate program in computer engineering is designed to give students a balanced background in theoretical fundamentals of the computer engineering discipline and in applications areas, both in computer software and in computer hardware. The program is at the same time a flexible one in that it gives the student the opportunity to specialize in certain areas of computer science and engineering.

The program consists of area courses, complementary courses, mathematics and science courses, humanities and social sciences courses, language courses and free elective courses. The program includes required and elective courses in each of these categories.

The program course requirement is 136 credit hours of formal course work and two industrial training courses. As part of the formal course work the student has to complete a graduation thesis (i.e. senior design project) which has to be defended in front of a jury. Industrial training is done during summer months and involves 40 work days in an actual work environment. This is normally done in two steps, during the summers following the sophomore year and junior year.

The program emphasizes active learning, where most courses involve student work in the form of programming assignments, software projects, lab exercises, etc. The aim is to equip the student not only with the computer engineering body of knowledge but also with skills necessary to do productive work upon graduation.

Program Outcomes

Students graduating from TEDU Computer Engineering Department will:
1. Communicate with technical and non-technical people orally and in writing to share knowledge.
2. Interpret foundational scientific, engineering, management and artistic concepts and principles.
3. Apply mathematical, statistical, computing and engineering concepts and tools to model and solve problems.
4. Follow current trends and developments in their fields to adapt to the changing environment, with and without guidance.
5. Design and conduct experiments, analyzing their output data to create information.
6. Act professionally by following social, ethical and cultural responsibilities.
7. Design and implement a computer system, be it software or hardware or both, to serve specific needs in an efficient, interdisciplinary team work context.
8. Evaluate feasible solutions to complex engineering projects, based on economic, social and ethical constraints.
9. Critique existing literature and produce computer scientific knowledge.

### Undergraduate Curriculum

#### Semester 1

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Undergraduate Course Description

CMPE 101 (2+0+2) 3 Credits / 5 ECTS
Introduction to Information Technologies
(Bilgi Teknolojilerine Giriş)

CMPE 112 (1+0+4) 3 Credits / 6 ECTS
Fundamentals of Programming I
(Programlamanın Temelleri I)

CMPE 201 (3+0+0) 3 Credits / 6 ECTS
Discrete Structures of Mathematics
(Matematiğin Ayrık Yapıları)

CMPE 211 (2+0+2) 3 Credits / 6 ECTS
Fundamentals of Programming II
(Programlamanın Temelleri II)
Pre-requisite: CMPE 112

CMPE 232 (3+0+0) 3 Credits / 5 ECTS
Relational Databases
(İlişkisel Veritabanları)
Database system concepts and architecture. Relational data model and SQL. Database normalization. File structures and indexing. Transaction processing and concurrency control.
Pre-requisite: CMPE 112

CMPE 242 (3+0+0) 3 Credits / 6 ECTS
Data Structures and Algorithms I
(Veri Yapıları ve Algoritmalar I)
Pre-requisite: CMPE 211
CMPE 252  
C Programming  
(C Progmlama)  
Pre-requisite: CMPE 112

CMPE 310  
Rapid Application Development  
(Hızlı Uygulama Geliştirme)  
The concept of agile business and rapid development of software. Support the high-speed changes in the business. Methods needed to quickly, effectively and accurately create software. Various methods of rapid development that can be applied to generate requirements, validate a solution, or even create a new operational system.

CMPE 311  
Principles of Object Oriented Languages  
(Nesne Tabanlı Dillerin Prensipleri)  
Pre-requisite: CMPE 211

CMPE 312  
Web Development  
(Web Geliştirme)  
Pre-requisite: CMPE 232

CMPE 313  
Software Engineering  
(Yazılım Mühendisliği)  
Pre-requisite: CMPE 211

CMPE 315  
Computer Game Design  
(Bilgisayar Oyunu Tasarımı)  
CMPE 316 (2+0+2) 3 Credits / 5 ECTS
Game Programming
(Oyun Programlama)
Game Engine Components; Game Components; Game APIs; Prefabs; Assets; Loading assets; Scripting; Collisions; Lighting; Materials; Textures; Shaders.

CMPE 317 (2+0+2) 3 Credits / 5 ECTS
Mobile Application Development
(Mobil Uygulama Geliştirme)

CMPE 318 (3+0+0) 3 Credits / 5 ECTS
Software Design Patterns
(Yazılım Tasarım Örüntüleri)
Definition of design pattern. Need for using design patterns. Classification of design patterns (creational, structural, behavioral). Reuse of patterns. Case studies and sample applications.
Pre-requisite: CMPE 211

CMPE 320 (3+0+0) 3 Credits / 5 ECTS
Numerical Computations
(Sayısal Hesaplamalar)
Pre-requisite: CMPE 112 and MATH 203

CMPE 321 (3+0+0) 3 Credits / 5 ECTS
Artificial Intelligence
(Yapay Zeka)

CMPE 322 (3+0+0) 3 Credits / 6 ECTS
Theory of Computation
(Hesaplama Kuramı)
Pre-requisite: CMPE 242 or CMPE 221
CMPE 323 (3+0+0) 3 Credits / 5 ECTS
System Simulation and Modeling
(Sistem Simülasyonu ve Modelleme)

CMPE 324 (3+0+0) 3 Credits / 5 ECTS
Knowledge Engineering
(Bilgi Mühendisliği)

CMPE 325 (3+0+0) 3 Credits / 5 ECTS
Information Security and Cryptography
(Bilgi Güvenliği ve Kriptoloji)
Pre-requisite: CMPE 211
Co-requisite: CMPE 472

CMPE 326 (3+0+0) 3 Credits / 5 ECTS
Concepts of Programming Languages
(Programlama Dili Kavramları)
Fundamental programming language concepts, pointer arithmetic, dynamic memory allocation, strongly and dynamically typed languages, subprograms and parameter passing methods, abstract data types, encapsulation.
Pre-requisite: CMPE 211

CMPE 330 (3+0+0) 3 Credits / 5 ECTS
Information Systems Analysis and Design
(Bilişim Sistemlerinin Analizi ve Tasarımı)
CMPE 343 (3+0+0) 3 Credits / 6 ECTS
Data Structures and Algorithms II
(Veri Yapıları ve Algoritmalar II)
Intractability.
Pre-requisite: CMPE 242 or CMPE 221

CMPE 350 (3+0+0) 3 Credits / 5 ECTS
Embedded Systems
(Gömülü Sistemler)
Pre-requisite: EE 207

CMPE 360 (3+0+0) 3 Credits / 5 ECTS
Computer Graphics
(Bilgisayar Grafiği)

CMPE 361 (3+0+0) 3 Credits / 5 ECTS
Computer Organization
(Bilgisayar Organizasyonu)
Pre-requisite: EE 207 or EE 222

CMPE 362 (3+0+0) 3 Credits / 5 ECTS
Digital Image Processing
(Görüntü İşleme)
Pre-requisite: MATH 203
CMPE 363 (Çoklu Ortam)  
(3+0+0) 3 Credits / 5 ECTS  
Multimedia  

CMPE 380 (Sistem Programlama)  
(3+0+0) 3 Credits / 5 ECTS  
Systems Programming  

CMPE 382 (İşletim Sistemleri)  
(3+0+0) 3 Credits / 5 ECTS  
Operating Systems  
Pre-requisite: CMPE 361

CMPE 399 (Yaz Stajı I)  
(1+0+0) 1 Credits / 2 ECTS  
Summer Practice I  
Summer internship done over 20 consecutive working days at a computer firm or an IT department. Presentation of experiences, and systems and software developed over the internship.  
Pre-requisite: CMPE 211

CMPE 414 (Bilgi Erişimi)  
(3+0+0) 3 Credits / 5 ECTS  
Information Retrieval  
Basic information retrieval models; vocabulary, posting lists, inverted indexes; scoring; vector space model; probabilistic information retrieval; text and vector space classification; support vector machines (SVM) and machine learning; clustering; Web search.

CMPE 426 (Programlama Dili Kavramları)  
(3+0+0) 3 Credits / 5 ECTS  
Concepts of Programming Languages  
Fundamental programming language concepts, pointer arithmetic, dynamic memory allocation, strongly and dynamically typed languages, subprograms and parameter passing methods, abstract data types, encapsulation.  
Pre-requisite: CMPE 242
CMPE 451  
Microprocessors (Mikroişlemciler)  
Co-requisite: CMPE 361

CMPE 465  
Introduction to Computer Vision (Bilgisayarlı Görmeye Giriş)  
Foundations of Computer Vision. Low-level computer vision topics: image formation and representation, color, camera geometry and calibration, filtering and edge detection. Mid-level vision topics: interest point detection, segmentation, texture analysis, stereo image analysis. High-level vision topics: object recognition, scene recognition, object and human tracking, human activity analysis. 
Pre-requisite: MATH 203

CMPE 467  
Human Computer Interaction (İnsan Bilgisayar Etkileşimi)  

CMPE 472  
Computer Networks (Bilgisayar Ağları)  
Pre-requisite: CMPE 112

CMPE 490  
Introduction to Research in Computer Engineering (Bilgisayar Mühendisliğinde Araştırmaya Giriş)  
Introduction to research practices in computer engineering. Working on a research problem as an independent study, under supervision of a faculty member. Preparation of academic papers based on the results of the research study. 
Pre-requisite: Consent of the Department
CMPE 491
Senior Project I
(Bitirme Projesi I)
Co-requisite: CMPE 313

CMPE 492
Senior Project II
(Bitirme Projesi II)
Pre-requisite: CMPE 491

CMPE 499
Summer Practice II
(Yaz Stajı II)
Works done and experiences gained throughout the summer internship.
Pre-requisite: CMPE 242 or CMPE 221

Graduate Course Description

CMPE 512
Fundamentals of Programming I
(Programlamanın Temelleri I)

CMPE 517
Mobile and Pervasive Computing
(Mobil ve Yaygın Bilişim)

CMPE 521
Data Structures and Algorithms I
(Veri Yapıları ve Algoritmalar I)

CMPE 522
Data Structures and Algorithms II
(Veri Yapıları ve Algoritmalar II)
CMPE 541  (3+0+0) 3 Credits / 7.5 ECTS
Data Mining
(Veri Madenciliği)

CMPE 542  (3+0+0) 3 Credits / 7.5 ECTS
Machine Learning
(Makine Öğrenmesi)
Supervised learning; unsupervised learning; reinforcement learning; regression; learning theory; neural networks; support vector machines; nearest neighbors; bias-variance tradeoff; validation; kernel methods; VC dimension.

CMPE 557  (3+0+0) 3 Credits / 7.5 ECTS
Business Processes Modeling
(İş Süreçleri Modelleme)

CMPE 558  (3+0+0) 3 Credits / 7.5 ECTS
Business Processes Automation
(İş Süreçleri Otomasyonu)

CMPE 559  (3+0+0) 3 Credits / 7.5 ECTS
Complex Event Processing
(Karmaşık Olay İşleme)
Analysis and processing of events information flow. Interrelated event patterns originating from different sources. Context determination. Quick and correct decision making.

CMPE 560  (3+0+0) 3 Credits / 7.5 ECTS
Computer Graphics
(Bilgisayar Grafiği)

CMPE 562  (3+0+0) 3 Credits / 7.5 ECTS
Digital Image Processing
(Görüntü İşleme)
CMPE 564 (3+0+0) 3 Credits / 7.5 ECTS
Computational Photography
(Hesaplamalı Fotografi)
Computational photography combines computer graphics and computer vision to create new types of photographs. The goal of the course is to combine image capture and image processing techniques to expand the limitations of the digital photography and to describe related algorithms. Major topics: Cameras and image formation, color perception, the foundations of image processing (filters, convolution, edge detection), image synthesis, image editing (image warping, image morphing, image blending and composition, image completion / inpainting, image matting), texture synthesis and transfer, panorama, mosaics, high dynamic range imaging, tone mapping, image-based lighting, photo quality assessment.

CMPE 565 (3+0+0) 3 Credits / 7.5 ECTS
Computer Vision
(Bilgisayarlı Görme)
The basic concepts of Computer Vision and its relation to human visual perception. The analysis of image and video data. Image formation and representation, segmentation, texture analysis and synthesis, edge, corner and boundary extraction, feature extraction, contour and region analysis, camera geometry and calibration, stereo image analysis, three-dimensional reconstruction, object and scene recognition, tracking, human activity recognition and inference.

CMPE 566 (3+0+0) 3 Credits / 7.5 ECTS
Speech and Language Processing
(Bilgisayarlı Görme)

CMPE 567 (3+0+0) 3 Credits / 7.5 ECTS
Human-Computer Interaction
(İnsan-Bilgisayar Etkileşimi)

CMPE 568 (3+0+0) 3 Credits / 7.5 ECTS
Selected Topics in Human-Computer Interaction
(Seçilmiş İnsan-Bilgisayar Etkileşim Konuları)
Selected Topics in Human-Computer Interaction is a course that studies the state of the art in the field. Students analyze selected scientific articles, discuss the achieved results and present the work to other students in class.
CMPE 569  (3+0+0) 3 Credits / 7.5 ECTS
Physically Based Modeling and Simulation
(Fiziksel Tabanlı Modelleme ve Simülasyon)

CMPE 570  (3+0+0) 3 Credits / 7.5 ECTS
Virtual Reality
(Sanal Gerçeklik)
DEPARTMENT OF ELECTRICAL - ELECTRONICS ENGINEERING

Chair
Prof. Erdem Yazgan

Academic Staff
* Research Assistant

Undergraduate Program in Electrical - Electronics Engineering

Electrical - Electronics Engineering is, in general, an engineering discipline covering the issues related to the design, development, maintenance, protection, control, economics and management of systems operating with strong (electricity) and weak (electronic) currents; and offers solutions and products in many areas, such as communication, energy, defense industry and the health sector. Therefore, we always encounter an application of Electrical - Electronics Engineering, wherever energy is used.

Electrical - Electronics Engineering, forming a common interdisciplinary platform with various areas, is a part of not only technical but also social and economic development and progress. Due to its constantly changing and evolving feature, it needs engineers who keep themselves up-to-date on new technologies. Electrical - Electronics engineers and researchers carry great responsibilities and duties due to the fact that they are a society who not only use the existing knowledge and technologies, but also self-devise and self-produce new technologies and constantly keep pace with the technological advancements that take place.

The objective of our department is to conduct a “student-centered”, innovative and interactive program adopting new teaching-learning techniques and adapt to the modern world, in joint cooperation with other disciplines. Our academic curriculum enables our students to have a strong professional background, as well as to be involved in various interdisciplinary areas through minor and double major programs.

Our Mission is:
- To raise graduates who are capable of critical thinking, lifelong learning, working in cooperation, learning and applying the rules of professional conduct and ethics, adapting to emerging situations and approaches, communicating effectively, and possessing a broad vision,
- To produce, implement and disseminate knowledge by conducting high-impact research.

Program Outcomes
Students graduating from the Electrical and Electronics Engineering Department will be able to:

1. Apply the knowledge of electrical and electronics engineering, mathematics and science to engineering problems.
2. Apply appropriate IT technologies and relate to at least one computer programming language.
3. Communicate effectively in English and Turkish, orally and in writing, as individuals and multi-disciplinary teams in a professional, ethical and responsible manner.
4. Design and conduct experiments, and collect, analyze and interpret data.
5. Identify, model and solve engineering problems by utilizing modern techniques, skills and tools.
6. Design a system, component or process, using engineering design processes, to meet desired specifications within real-life constraints, such as economic, sustainability and environmental factors.
7. Recognize contemporary issues, and social, cultural, global, environmental and ethical responsibilities as an engineer.
8. Respect personal, social and cultural differences in professional practice and function effectively in multidisciplinary teams.
9. Engage in life-long learning to keep abreast of professional and personal development.
10. Manage personal and professional affairs effectively, through problem solving, entrepreneurial and time-management skills.
11. Recognize project management, risk management and change management issues.

Undergraduate Curriculum

Semester 1

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Totals expected for graduation: 119 credits

### Courses with Pre-requisites

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<td>EE 451 Digital Electronics</td>
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Undergraduate Course Description

EE 201  
(3+0+0) 3 Credits / 6 ECTS
Circuit Theory I  
(Devre Teorisi I)
Pre-requisite: MATH 101
Co-requisite: EE 203

EE 202  
(3+0+2) 4 Credits / 8 ECTS
Circuit Theory II  
(Devre Teorisi II)
Pre-requisite: EE 201

EE 205  
(0+0+3) 1 Credit / 4 ECTS
Software Tools for Electrical Engineering  
(Elektrik-Elektronik Mühendisliği için Yazılım Araçları)
MATLAB Enviroment, Built-in MATLAB Functions, Manipulating Matrices, Plotting, User Defined Functions, User Controlled Input and Outputs, Logical Functions, Repetition Structures, Matrix Algebra.

EE 207  
(2+0+2) 3 Credits / 6 ECTS
Electrical Circuits and Logic Design  
(Elektrik Devreler ve Mantıksal Tasarım)
Electrical Circuits and Logic Design is a course that provides basic information about digital circuits along with a thorough discussion on logic design, digital system design, and basic computer design available to second year students. The course material include the following topics: Number systems and conversions, data representation, analysis and design of combinational logic circuits, Boolean algebra, logic gates, minimization techniques, HDL, sequential logic, flip-flops, registers, clocked circuits, clock generation, counters, shift registers, arithmetic circuits.
EE 222  (2+0+2) 3 Credits / 6 ECTS
Digital Logic Design
(Sayısal Mantık Tasarımı)
Number systems and Boolean Algebra. Binary logic and gates. Combinatorial and sequential circuit
design. Registers and counters. Programmable logic.

EE 252  (3+0+0) 3 Credits / 5 ECTS
Microelectronic Devices and Circuits
(Mikroelektronik Aygıtlar ve Devreler)
Energy band structure of materials: conductors, insulators, and semiconductors. Basic semiconductor
concepts. Physics and models of p-n junction diodes, bipolar junction transistors (BJT), and metal
oxide semiconductor field effect transistors (MOSFET). Transistor biasing and small-signal models.
Dynamic models for diodes and transistors.
Pre-requisite: EE 201

EE 304  (3+0+0) 3 Credits / 5 ECTS
Probability and Random Processes
(Olasılık ve Rassal Süreçler)
Basic Concepts of Probability Theory, Discrete Random Variables, One Random Variables, Pairs of
Random Variables, Long-Term Averages, Bernoulli and Poisson Random Processes, Analysis and
Processing of Random Signals, Markov Chains.
Pre-requisite: MATH 101

EE 307  (2+0+2) 3 Credits / 6 ECTS
Electrical Circuits
(Elektrik Devreleri)
Fundamentals of electric circuits, variables and lumped circuit elements. Kirchhoff’s laws. Resistive
first order circuits. Basic semiconductor concepts. Models of p-n junction diodes, bipolar junction
transistors (BJT), and metal oxide semiconductor field effect transistors (MOSFET). Logic gates:
Inverters, input and output circuits, Not-AND (NAND) and Not-OR (NOR) gates.
(Offered for non-EE students)
Pre-requisite: MATH 101

EE 309  (2+0+2) 3 Credits / 4 ECTS
Fundamentals of Electrical and Electronics Engineering
(Elektrik ve Elektronik Mühendisliğinin Temelleri)
Phasors. Steady-state alternating current analysis. Fundamentals of electromechanical energy
(Offered for non-EE students)
EE 311 (3+0+0) 3 Credits / 5 ECTS
Signals and Systems (Sinyaller ve Sistemler)

EE 312 (3+0+0) 3 Credits / 5 ECTS
Communication Systems I (Haberleşme Sistemleri I)
Pre-requisite: EE 311

EE 332 (3+0+0) 3 Credits / 5 ECTS
Feedback Control Systems (Geri Beslemeli Kontrol Sistemleri)
Pre-requisite: EE 311

EE 341 (3+0+0) 3 Credits / 5 ECTS
Electromagnetic Theory I (Elektromanyetik Teori I)
Pre-requisite: MATH 204

EE 342 (3+0+0) 3 Credits / 5 ECTS
Electromagnetic Theory II (Elektromanyetik Teori II)
Pre-requisite: EE 341
EE 351 (3+0+2) 4 Credits / 8 ECTS
Analog Circuit Design
(Analog Devre Tasarımı)
Pre-requisite: EE 252

EE 361 (2+0+2) 3 Credits / 5 ECTS
Electromechanical Energy Conversion
(Elektromekanik Enerji Dönüşümü)
Pre-requisite: EE 201

EE 399 (1+0+0) 1 Credit / 2 ECTS
Summer Practice I
(Yaz Stajı I)
Minimum 20 working days of practical work in an organization operating on the design, production, maintenance, management of electrical or electronics systems.
Pre-requisite: EE 201

EE 403 (3+0+0) 3 Credits / 5 ECTS
Numerical Methods for Engineering
(Mühendislik için Sayısal Yöntemler)
Pre-requisite: MATH 203

EE 404 (3+0+0) 3 Credits / 5 ECTS
Measurement and Instrumentation
(Ölçüm ve Enstrümantasyon)
Pre-requisite: EE 311 or EE 304
EE 411  
Digital Signal Processing  
(Sayısal Sinyal İşleme)
Pre-requisite: EE 311

EE 413  
Communication Systems II  
(Haberleşme Sistemleri II)
Pre-requisite: EE 312

EE 414  
Wireless Communications  
(Kablosuz Haberleşme)
Pre-requisite: EE 312

EE 415  
Communication Electronics  
(Haberleşme Elektroniği)
Basic Communications Systems. Amplifiers and Oscillators. Mixing and Heterodyning, Phased Locked Loops, High Speed Analog and Digital Circuits, Nonlinearity, Transmitters and Receivers.  
Pre-requisite: EE 351

EE 416  
Optical Communications  
(Optik Haberleşme)
Pre-requisite: EE 341
EE 417 (3+0+0) 3 Credits / 5 ECTS
Introduction to Photonics
(Fotoniğe Giriş)
This course explores the fundamentals of photonics theory, concepts, and applications. In particular the course covers principles and applications of ray optics, matrix optics, wave optics, Maxwell’s electromagnetic waves, fourier optics, diffraction, interference, lens and mirrors, mono- and polychromatic light, electromagnetic optics, absorption, dispersion, polarization optics, crystal optics, solar cells.
Pre-requisite: EE 341

EE 418 (3+0+0) 3 Credits / 5 ECTS
Optoelectronics
(Optoelektronik)
Optical processes in semiconductors, absorption and radiation, spontaneous and stimulated emission, transition rates and carrier lifetime, principles of light emitting diodes, lasers, photodetectors, photodiodes, modulators and solar cells.
Pre-requisite: EE 252

EE 431 (2+0+2) 3 Credits / 5 ECTS
Digital Control Systems
(Sayısal Kontrol Sistemleri)
Discrete time system models in control. Discrete equivalents to continuous transfer functions. Sampled data systems. Design of digital control systems by transform techniques and state-space methods. Quantization effects. Parameter estimation for discrete time systems.
Pre-requisite: EE 332

EE 432 (3+0+0) 3 Credits / 5 ECTS
Nonlinear Control Systems
(Doğrusal Olmayan Kontrol Sistemleri)
Pre-requisite: EE 332

EE 441 (2+0+2) 3 Credits / 5 ECTS
Microwave Engineering
(Mikrodalga Mühendisliği)
Pre-requisite: EE 341

EE 442 (3+0+0) 3 Credits / 5 ECTS
Microwave Electronics
(Mikrodalga Elektroniği)
Pre-requisite: EE 441
EE 443  
Introduction to Radar Systems  
(Radar Sistemlerine Giriş)  
Pre-requisite: EE 341

EE 444  
Antenna Engineering  
(Anten Mühendisliği)  
Pre-requisite: EE 341

EE 451  
Digital Electronics  
(Sayısal Elektronik)  
Diode and transistor models used in digital circuits. Logic gates: Inverters, input and output circuits, Not-AND (NAND) and Not-OR (NOR) gates. Static and dynamic logic circuits. Regenerative circuits. Static and dynamic memories. Analog-to-digital (A/D) and digital-to-analog (D/A) converters.  
Pre-requisite: EE 252

EE 452  
Digital Integrated Circuits  
(Sayısal Tümleşik Devreler)  
Pre-requisite: EE 451

EE 453  
Analog Integrated Circuits  
(Analog Tümleşik Devreler)  
Analysis and design of bipolar junction transistor (BJT) and metal oxide semiconductor (MOS) multi-transistor amplifiers. Analog integrated circuit building blocks. Biasing circuits. complementary metal oxide semiconductor (CMOS) operational amplifiers. Active loads and references. Amplifiers and output stages.  
Pre-requisite: EE 351
EE 461 (3+0+0) 3 Credits / 5 ECTS
Power Electronics (Güç Elektroniği)
Pre-requisite: EE 351

EE 462 (3+0+0) 3 Credits / 5 ECTS
Power System Analysis (Güç Sistem Analizi)
Pre-requisite: EE 361

EE 463 (3+0+0) 3 Credits / 5 ECTS
Utilization of Electrical Energy (Elektrik Enerjisinin Kullanımı)
Pre-requisite: EE 361

EE 471 (3+0+0) 3 Credits / 5 ECTS
High Voltage Techniques (Yüksek Gerilim Tekniği)
Basics of high voltage engineering, stress and strength, Gaseous isolation property, ionization, Electrical breakdown and discharge in gases, Electronegative gases and gas insulators, Types of discharges, Breakdown mechanisms in isolation materials Lightning mechanism, Generation of high voltages, Measurement of high voltages and losses High voltage applications.
Pre-requisites: EE 202 and EE 341

EE 491 (1+0+4) 3 Credits / 7 ECTS
Senior Project I (Bitirme Projesi I)
Design, simulation and implementation of an electrical or electronic circuit, system or software performing a specified task in electrical engineering. Building blocks of project design: project management, design tools, simulation standards, quality concepts, ethics, etc.
Pre-requisite: 24 EE Credits
EE 492 (1+0+4) 3 Credits / 10 ECTS
Senior Project II
(Bitirme Projesi II)
Design, simulation and implementation of an electrical or electronic circuit, system or software performing a specified task in electrical engineering. Building blocks of project design: project management, design tools, simulation standards, quality concepts, ethics, etc.
Pre-requisite: EE 491

EE 499 (1+0+0) 1 Credits / 2 ECTS
Summer Practice II
(Yaz Stajı II)
Minimum 20 working days of practical work in an organization operating on the design, production, maintenance, management of electrical or electronics systems.

Graduate Course Description

EE 521 (3+0+0) 3 Credits / 7.5 ECTS
Signals and Systems
(Işaretler ve Sistemler)

EE 522 (3+0+0) 3 Credits / 7.5 ECTS
Discrete Time Signal Processing
(Sayısal İşaret İşleme)

EE 531 (3+0+0) 3 Credits / 7.5 ECTS
Machine Learning
(Makine Öğrenmesi)

EE 532 (3+0+0) 3 Credits / 7.5 ECTS
Pattern Recognition
(Örüntü Tanıma)
DEPARTMENT OF INDUSTRIAL ENGINEERING

Chair
Assoc. Prof. Mehmet Rüştü Taner

Academic Staff
* Research Assistant

Undergraduate Program in Industrial Engineering

In our day of increasing domestic and global competition, industrial engineering takes on leading duties in helping profit and non-profit organizations to become low cost, high productivity, and sustainable manufacturing or service organizations.

Industrial Engineering offers effective solutions in the form of decision support systems to aid in the design and management of a wide range of operations. These include production planning, supply chain management, logistics, product and process design, process measurement and improvement, research and development, quality assurance and reliability, strategic management and finance. At the same time the profession continuously finds application opportunities in new areas, which further support its significance. In recent years, Industrial Engineers have found application and work opportunities in areas of social importance such as health, energy, humanitarian logistics, and sustainable production to help seek answers to contemporary problems.

Program Outcomes

Students graduating from the Industrial Engineering Department of TEDU will:

1. Comprehend concepts of mathematics and basic sciences,
2. Be able to apply concepts of engineering,
3. Be able to design and conduct experiments,
4. Be able to analyze and interpret data,
5. Be able to design and/or improve a system, component, or process effectively by applying notions of optimality to meet desired needs,
6. Function in interdisciplinary teams through good working habits, time management, and self-regulation,
7. Be able to identify, formulate, and solve engineering problems and design alternatives,
8. Demonstrate professional and ethical responsibility,
9. Use an advanced level of English in interpersonal communication and self-development,
10. Demonstrate effective written and oral communication skills,
11. Be able to express a creative thought on and critical assessment of events and ideas to shape their professional practice in a global/societal context,
12. Recognize the need for, and have the ability to engage in life-long learning,
13. Be able to interpret contemporary issues,
14. Use the techniques, skills, and modern engineering tools necessary for engineering practice,
15. Recognize and appreciate different cultures and respect individual and cultural differences.

**Undergraduate Curriculum**

**Semester 1**

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Undergraduate Course Descriptions

IE 212
Lean Process Design
(Yalın Süreç Tasarımı)

IE 212
Lean Process Design
(Yalın Süreç Tasarımı)
IE 222 (3+0+0) 3 Credits / 6 ECTS
Engineering Economy and Cost Analysis
(Mühendislik Ekonomisi ve Maliyet Analizi)

IE 232 (3+0+0) 3 Credits / 6 ECTS
Mathematical Modeling and Optimization
(Matematiksel Modelleme ve Optimizasyon I)
Linear programming models. Graphical solutions. Interpretation of solutions. The simplex method, duality, sensitivity analysis, and related topics.
Pre-requisite: MATH 203 or MATH 112

IE 311 (3+0+0) 3 Credits / 6 ECTS
Manufacturing and Service Operations Planning I
(İmalat ve Hizmet Operasyonları Planlaması I)
Pre-requisite: IE 232

IE 312 (3+0+0) 3 Credits / 6 ECTS
Manufacturing and Service Operations Planning II
(İmalat ve Hizmet Operasyonları Planlaması II)

IE 316 (3+0+0) 3 Credits / 7 ECTS
Quality Planning and Control
(Kalite Planlaması ve Kontrolü)
Pre-requisite: MATH 232

IE 331 (3+0+0) 3 Credits / 6 ECTS
Mathematical Modeling and Optimization II
(Matematiksel Modelleme ve Optimizasyon II)
Pre-requisite: IE 232
IE 332 (3+0+0) 3 Credits / 6 ECTS
Mathematical Modeling and Optimization III
(Matematiksel Modelleme ve Optimizasyon III)
Decision making under uncertainty. Dynamic programming. Introduction to stochastic processes.
Queuing models and applications. Markov chains and Markov processes. Game theory.
Pre-requisite: MATH 230

IE 341 (2+0+2) 3 Credits / 7 ECTS
Simulation
(Benzetim)
Simulation methodology and model building. Modeling with a simulation language. Random number
and random variate generation. Basic issues in the design, verification and validation of simulation
models. Analysis of simulation output.
Pre-requisite: MATH 232

IE 399 (1+0+0) 1 Credits / 2 ECTS
Summer Practice I
(Yaz Stajı I)
Minimum 20 consecutive working days of practice in a manufacturing system. Observation and
system analysis.
Pre-requisite: IE 212

IE 413 (3+0+0) 3 Credits / 5 ECTS
Operations Scheduling
(Operasyonel Çizelgeleme)
Introduction to scheduling. Selected problems from a variety of manufacturing and service
applications. Common modeling and solution methods and approaches. Project scheduling. Job
shop scheduling. Flowshop scheduling. Lot sizing and scheduling. Reservation systems, timetabling,
workforce and crew scheduling.

IE 414 (3+0+0) 3 Credits / 5 ECTS
Inventory Planning Problems
(Envanter Planlama Problemleri)
Economic Order Quantity model and extensions. Inventory control policies for stochastic demand.
Joint replenishment problem. Introduction to multi-echelon inventory problems.

IE 415 (3+0+0) 3 Credits / 5 ECTS
Modeling and Design of Production Systems
(Üretim Sistemlerinin Tasarımı ve Modellenmesi)
Analysis of the dynamics of production systems. Performance measures in production systems.
Comparison of pull and push systems. Impact of uncertainty and variation in production systems.

IE 423 (3+0+0) 3 Credits / 5 ECTS
Optimization Models in Finance
(Finansta Optimizasyon Modelleri)
Introduction to Mathematical Programming models used in computational finance. Asset-Liability
Management, Arbitrage and Asset Detection with Linear Programming, Mean-variance models with
Quadratic Programming, Portfolios with Combinatorial Constraints with Mixed Integer Programming; Asset-Liability Management using Risk Measures with Stochastic Programming; Multi-period Portfolio Optimization, Binomial Pricing with Dynamic Programming; Robust Profit Opportunities in Risky Portfolios, Robust Portfolio Selection with Robust Optimization. Introduction to Mathematical Programming models used in computational finance. Asset-Liability Management, Arbitrage and Asset Detection with Linear Programming, Mean-variance models with Quadratic Programming, Portfolios with Combinatorial Constraints with Mixed Integer Programming; Asset-Liability Management using Risk Measures with Stochastic Programming; Multi-period Portfolio Optimization, Binomial Pricing with Dynamic Programming; Robust Profit Opportunities in Risky Portfolios, Robust Portfolio Selection with Robust Optimization.

Pre-requisite: IE 222, IE 232, IE 332 and MATH 232

IE 435 (3+0+0) 3 Credits / 5 ECTS
Heuristic Search (Sezgisel Yöntemler)

IE 438 (3+0+0) 3 Credits / 5 ECTS
Discrete Optimization (Kesikli Optimizasyon)

IE 441 (3+0+0) 3 Credits / 5 ECTS
Stochastic Processes (Stokastik Süreçler)
Pre-requisite: MATH 230

IE 444 (3+0+0) 3 Credits / 5 ECTS
Forecasting Methods (Tahmin Yöntemleri)

IE 451 (3+0+0) 3 Credits / 5 ECTS
Decision and Risk Analysis (Karar ve Risk Analizi)
Pre-requisite: MATH 230
Multi-Objective Decision Analysis
(Çok Hedefli Karar Analizleri)

Supply Chain Management
(Tedarik Zinciri Yönetimi)

Distribution Logistics
(Dağıtım Lojistiği)

Humanitarian Logistics
(İnsani Yardım Lojistiği)

Computational Tools for Industrial Engineers
(Endüstri Mühendisleri için Hesaplama Araçları)

Decision Making in Heath Care
(Sağlık Hizmetlerinde Karar Verme)
Application of industrial engineering and operations research methods in healthcare delivery, medical decision making, and public health planning.
IE 484 (3+0+0) 3 Credits / 5 ECTS
Introduction to Defense Analysis
(Savunma Analizine Giriş)

IE 491 (1+4+0) 3 Credits / 6 ECTS
Senior Project I
(Bitirme Projesi I)
Identification, definition, and formulation of a complex real-life industrial engineering problem in a manufacturing or service organization. System analysis. Conceptual systems design.
Pre-requisite: 18 IE Credit

IE 492 (1+4+0) 3 Credits / 6 ECTS
Senior Project II
(Bitirme Projesi II)
Pre-requisite: IE 491

IE 499 (1+0+0) 1 Credit / 2 ECTS
Summer Practice II
(Yaz Stajı II)
Minimum 20 consecutive working days of summer practice in a manufacturing or a service system. System analysis. Identification and formulation of an industrial engineering problem.
Pre-requisite: IE 399

Graduate Course Descriptions

IE 517 (3+0+0) 3 Credits / 7.5 ECTS
Production Planning
(Uretim Planlama)

IE 518 (3+0+0) 3 Credits / 7.5 ECTS
Service Management
(Hizmet Yönetimi)
IE 519 (3+0+0) 3 Credits / 7.5 ECTS
Operations Scheduling
(Operasyon Çizelgeleme)

IE 527 (3+0+0) 3 Credits / 7.5 ECTS
Logistics
(Lojistik)

IE 529 (3+0+0) 3 Credits / 7.5 ECTS
Inventory Management in Supply Chains
(Tedarik Zincirlerinde Envanter Yönetimi)

IE 537 (3+0+0) 3 Credits / 7.5 ECTS
Mathematical Programming for Engineering Management
(Mühendislik Yönetimi için Matematiksel Programlama)

IE 538 (3+0+0) 3 Credits / 7.5 ECTS
Discrete Optimization
(Kesikli Optimizasyon)
Modeling, relaxing and bounding techniques; fundamental easy-to-solve problems; matching and assignment problems; dynamic programming; complexity theory; branch-and-bound method; meta-heuristics such as tabu search, genetic algorithms and variable neighborhood search; application examples.

IE 539 (3+0+0) 3 Credits / 7.5 ECTS
Multi-Criteria Decision Making
(Çok Kriterli Karar Verme)
IE 547 (3+0+0) 3 Credits / 7.5 ECTS
Modelling and Analysis of Uncertainty
(Belirsizlik Modelleme ve Analizi)

IE 548 (3+0+0) 3 Credits / 7.5 ECTS
Decision Analysis
(Karar Analizi)

IE 549 (3+0+0) 3 Credits / 7.5 ECTS
Risk Management
(Risk Yönetimi)

IE 558 (3+0+0) 3 Credits / 7.5 ECTS
Business Process Flow Management
(İş Süreçleri Akış Yönetimi)

IE 559 (3+0+0) 3 Credits / 7.5 ECTS
Revenue Management
(Gelir Yönetimi)
DEPARTMENT OF MECHANICAL ENGINEERING

Chair
Prof. Selin Aradağ Çelebioğlu

Academic Staff

* Research Assistant

Undergraduate Program in Mechanical Engineering

Mechanical engineers design, develop, manufacture, manage, and control mechanical and thermal systems and their components, from the nanoscale on. One of the broadest of all engineering disciplines—and thus offering flexible career options—mechanical engineering requires a solid grasp of mechanics, kinematics, materials, thermodynamics, and energy.

Department of mechanical engineering places its priority on the education of students who will become the young mechanical engineers and decision makers of tomorrow. To this effect, the department commits itself to create a learning environment based on a curriculum for delivering the principles and state-of-the-art of profession. Modern principles of mechanical engineering are relayed through a comprehensive education including a hands-on type of a laboratory experience. Computers, electronics and numerical simulation tools are also integral part of this curriculum. Creativity and designing of products is in the essence of this program in the form of novel design courses and design projects in various courses in an interdisciplinary environment. Students are encouraged to take part in educational activities where they can express their creative talents as well as their technical information acquired in courses.

The course requirements for the Bachelor of Science Degree in Mechanical Engineering at TEDU total a minimum of 138 credit hours of formal course work which includes 36 credit hours of common core, 64 credit hours of major and 15 credit hours of minor courses. Student development seminars and practical training are also compulsory.

Program Objectives

The Mechanical Engineering Department at TED University aims at graduating BS students who:

1. Are prepared for engineering practice or to enroll in engineering graduate degree programs,
2. Have mastered the fundamental notions and principles of mechanical engineering discipline, are able to independently learn various applications, examine and critically evaluate them,
3. Are innovative and open to team work, perform effectively through oral- written communication, are sociable and well rounded,
4. Are aware of their professional and ethical responsibilities, update their knowledge and abilities to compete in the global enterprise.
Program Outcomes

Our graduates are able to:

Knowledge and Understanding
1. Comprehend science and advanced mathematics subjects fundamental to engineering,
2. Apply knowledge of mathematics, science, and engineering (mechanics, thermodynamics, materials science) to mechanical engineering problems,
3. Implement social, scientific, and professional codes of ethical conduct,
4. Comprehend contemporary issues and the broad education necessary to discuss the impact of engineering solutions in a global and societal context,
5. Recognize and appreciate different cultures and respect individual and cultural differences.

Intellectual Skills
1. Design and conduct experiments, as well as to analyze and interpret data.
2. Design thermal and mechanical systems, components, or processes to meet desired needs,
3. Identify, formulate, and solve engineering problems (open ended problems / system design).

Transferable (Generic) Skills
4. Use the English language proficiently in knowledge sharing and professional communication,
5. Practice good working habits, time management, and self-discipline,
6. Formulate solutions to complex problems in multi-disciplinary teams,
7. Demonstrate effective oral, written and visual communication skills,
8. Engage in lifelong learning for continued personal, social, and professional development.

Practical Skills
1. Employ modern engineering techniques, skills, and computing tools necessary for engineering practice (use laboratory and workshop equipment to generate data, prepare technical drawings, prepare technical reports, give technical presentations, take notes effectively, write computer programs, use computational tools and packages).

Undergraduate Curriculum

Semester 1

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* All pre-requisites except ME 241 effective Fall 2018-2019
Undergraduate Course Descriptions

ME 200
Computer Aided Technical Drawing
(Bilgisayar Destekli Teknik Resim)

ME 211
Materials Science
(Malzeme Bilimi)

ME 221
Manufacturing Processes
(İmalat Süreçleri)

ME 224
Design and Manufacturing
(Tasarım ve Üretim)
Pre-requisites: ME 200 and ME 211

ME 241
Introduction to Solid Mechanics
(Katı Mekaniğine Giriş)
Pre-requisite: PHYS 101 or PHYS 105
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<td>Dynamics (Dinamik)</td>
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<td>Dynamics of particles: Rectilinear and curvilinear motion, Newton’s laws, momentum and angular momentum methods. Work and energy. Dynamics of rigid bodies; kinematics, Euler’s Laws, angular momentum. Work and energy methods for rigid bodies. Pre-requisite: ME 241</td>
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<tr>
<td>ME 264</td>
<td>Thermodynamics (Termodinamik)</td>
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<td>The thermodynamic system and its properties, thermodynamic processes; work and heat interactions. Systems approach. The First Law for systems and for flow processes; Properties of pure substances; Ideal Gas Law; Control volume analysis; the Second Law and entropy. Irreversibility and availability</td>
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<td>Measurement and Instrumentation (Ölçme ve Ölçme Düzenekleri)</td>
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<td>Principles and methods of measurement, instrumentation and experimentation. Basic sensing devices, and fundamental engineering measurements, experiment planning, data analysis, report writing. Performing and reporting on experiments chosen to illustrate a variety of important experimental methods while familiarizing with basic instrumentation. Co-requisite: EE 309</td>
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<td>ME 302</td>
<td>Experimental Engineering (Deneysel Mühendislik)</td>
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<td>Performing and preparing report on a series of experiments chosen to illustrate a variety of important experimental methods covering mechanics, materials, thermodynamics, fluid mechanics, heat transfer and dynamical systems</td>
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<td>ME 324</td>
<td>Machine Design I (Makine Elemanları I)</td>
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<td>Principles of mechanical engineering design: Load analysis, materials; deflections and stability; stress analysis; stress concentrations, failure theories of ductile and brittle materials, fatigue, impact. Analysis and design of machine elements: shafts, joints and springs. Pre-requisite: ME 345</td>
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<tr>
<td>ME 336</td>
<td>Modeling and Control of Dynamic Systems (Dinamik Sistemlerin Modellenmesi ve Denetimi)</td>
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Pre-requisite: ME 242

ME 345 (3+0+0) 3 Credits / 5 ECTS
Mechanics of Materials
(Mukavemet)
Pre-requisite: ME 241

ME 353 (3+0+0) 3 Credits / 5 ECTS
Fluid Mechanics
(Akışkanlar Mekaniği)
Pre-requisite: ME 241

ME 362 (3+0+0) 3 Credits / 5 ECTS
Heat Transfer
(İş Transferi)
Steady and transient, one and multi-dimensional heat conduction in systems: numerical methods and special applications. Internal and external laminar and turbulent forced convection, natural convection and condensation. Heat transfer by radiation. Heat exchangers and design of heat transfer systems.
Pre-requisites: ME 264 and MATH 203

ME 399 (1+0+0) 1 Credits / 2 ECTS
Summer Practice I
(Yaz Stajı I)
Minimum 20 working days of practical work in an organization operating on the design, production, maintenance, management of mechanical or thermal systems.
Pre-requisites: Sophomore standing

ME 423 (3+0+0) 3 Credits / 5 ECTS
Machine Design II
(Makine Elemanları II)
Analysis and design of machine elements such as spur, helical, bevel and worm gears; shafts and associated parts such as keys, pins, splines, couplings; clutches, brakes and flywheels; belts; chains; torque converters. Design project involving a mechanical component or device including all detail drawings, assembly drawings and cost analysis.
Pre-requisite: ME 324
ME 425  
Mechanical Vibrations  
(Mekanik Titreşimler)
Pre-requisites: ME 242 and MATH 203

ME 433  
Theory of Machines  
(Makine Teorisi)
Pre-requisite: ME 242

ME 435  
Mechatronics  
(Mekatronik)
Pre-requisites: ME 336 and EE 309

ME 436  
Modern Control Theory  
(Modern Denetim Kuramı)
Pre-requisite: ME 336

ME 441  
Applied Finite Element Analysis  
(Uygulamalı Sonlu Elemanlar Analizi)
Pre-requisites: ME 345 and MATH 210
ME 444  
Fundamentals of Metal Forming  
(Metal Şekillendirmenin Esasları)
Pre-requisites: ME 345 and ME 211

ME 446  
Fundamentals of Composite Materials  
(Kompozit Malzemelerin Temel Özellikleri)
Pre-requisite: ME 211

ME 447  
Nanomaterials and Nanotechnology  
(Nanomalzemeler ve Nanoteknoloji)
Introduction to nanomaterials and nanotechnology. Nanomaterials and their applications. Discussion of production and characterization methods of nanomaterials. Comparing physical properties of nano-, micro-ranged materials with their macro-ranged counterparts.

ME 453  
Introduction to Aeronautics  
(Havacılığa Giriş)
Pre-requisite: ME 353

ME 455  
Applied Fluid Mechanics  
(Uygulamalı Akışkanlar Mekaniği)
Pre-requisite: ME 353

ME 460  
Energy Systems  
(Enerji Sistemleri)
Energy awareness. Engineering economics and thermodynamics for use in analysis and understanding of energy consumption and production technologies which include: power plants, engines, renewables, residential heating, commercial energy usage, radioactivity, air/water/land pollution, environmental impacts and regulations in society.
Pre-requisite: ME 362
ME 464 (3+0+0) 3 Credits / 6 ECTS
Applied Thermal Systems
(Uygulamalı Isıl Sistemler)
Pre-requisite: ME 264

ME 492 (0+0+8) 4 Credits / 12 ECTS
Senior Project
(Bitirme Projesi)
Design and development of a project for a mechanical engineering problem under the supervision of an academic advisor; submission of the results in the form of a project report and oral presentation.
Pre-requisites: Senior Standing

ME 499 (1+0+0) 1 Credit / 2 ECTS
Summer Practice II
(Yaz Stajı II)
Minimum 20 working days of practical work in an organization operating on the design, production, maintenance, management of mechanical or thermal systems.
Pre-requisite: ME 399

Graduate Course Description

ME 531 (3+0+0) 3 Credits / 7.5 ECTS
Modeling and Simulation
(Modelleme ve Simulasyon)

ME 532 (3+0+0) 3 Credits / 7.5 ECTS
Control Systems
(Kontrol Sistemleri)
DEPARTMENT OF SOFTWARE ENGINEERING

Chair
Assoc. Prof. Tansel Dökeroğlu

Academic Staff
* Research Assistant

Undergraduate Program in Software Engineering

1. To have sufficient background in subjects specific to mathematics, science and engineering discipline; To be able to use theoretical and applied knowledge in these areas in complex engineering problems, especially software engineering problems,

2. To be able to identify, define, formulate and solve complex engineering problems by choosing and applying appropriate analysis and modeling methods, presenting the data that will present the relevant information when reading the problem definition and concretizing it with appropriate examples.

3. To be able to design a complex system, process, device or product under realistic constraints and conditions to meet certain requirements by applying modern design methods,

4. To be able to develop, select and use modern techniques and tools required for the analysis and solution of complex problems encountered in Software Engineering applications by using information technologies effectively,

5. Ability to collect data, analyze and interpret results for the investigation of research topics or complex engineering problems specific to the software engineering discipline,

6. To be able to work effectively in intra-disciplinary and multi-disciplinary teams, to work individually.

7. To be able to communicate effectively in Turkish, oral and written, writing effective reports and understanding written reports, preparing design and production reports, making effective presentations,

8. Being able to access information with the awareness of the necessity of lifelong learning, to follow the developments in science and technology and to be able to constantly renew himself,

9. To behave in accordance with the principles of professional ethics, to have knowledge about the standards used in software engineering applications and to anticipate the legal consequences of the applications,

10. Understanding the importance of negotiation, effective work, leadership and good communication with stakeholders in the software development environment and reflecting this on your behavior,

11. Understanding and applying the theories, models and techniques that form the basis of the analysis, design, validation, validation, development and maintenance processes of software systems.
**Program Outcomes**

Our graduates are able to:

Software engineers are needed in almost every sector, and defense, finance, energy, education, health and space activities are prominent sectors. The foreign dependency rate of our country’s defense systems in terms of both hardware and software is quite high. It is obvious, especially in our geography, that international relations cannot always be maintained in harmony. In any crisis, the first action to be taken by the countries we are dependent on within the scope of the above mentioned issues will be to apply an embargo on these systems. This has been clearly exemplified in the F-35 fighter jet project in the recent past. In order to maintain existing systems and to reduce external dependency, if possible, to eliminate it completely, manpower trained in software development is needed.

Almost every weapon system today comes with a maintenance maintenance software. The survival of these weapon systems is possible with the presence of the maintenance maintenance software that comes with it. In order to carry out the aforementioned activities, there is a need for software engineers who can develop software using different infrastructures and architectures and carry out maintenance activities.

Our principle has become great in the production of Unmanned Aerial Vehicles (UAV) especially in the last 5 years and has developed the Armed UAV (UAV) technology, which is owned by a limited number of countries. The management of such systems that require autonomous management is all realization thanks to computer software. The developments and capacity increase in these systems will reveal the need for software developers. With the Software Engineering program to be opened at TED University, it aims to train software engineers who can develop new technologies as well as supporting manpower who can work in existing technologies.

Developed software has a life span of 5 to 10, and during this period, technology, legislation and hardware change. Adaptation to these changes is possible thanks to educated, constantly improving and researching software developers.

In the last 20 years, companies operating in information technologies, social media and software such as Microsoft, Oracle, Apple, Google, Amazon, Samsung, Facebook, Twetter, Turkcell, Vodafone and Avea among the biggest employment and income generating companies in the country and abroad. comes out.

Software Engineering program graduates:

- In software companies operating in the defense industry,
- In public critical infrastructure systems,
- In all kinds of software projects to be developed nationally for different sectors,
- In multinational software projects,
- In software companies operating globally abroad,
- Companies engaged in research and development activities in cyber security,
- In higher education institutions,
- In companies operating in the fields of gaming and mobile programming,
- Companies operating on artificial intelligence and decision support systems will be employed as analyst, designer, software developer, tester, project manager, R&D director.
## Undergraduate Curriculum

### Semester 1

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**TOTAL**: 14 4 3 16 30

### Semester 8

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**Totals expected for graduation**: 121 16 17 136 240
Courses with Pre-requisites

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<td>SENG 211 Introduction to Software Engineering</td>
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<td>SENG 212 Software Requirements Engineering</td>
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<td>SENG 311 Object Oriented Analysis and Design</td>
<td>CMPE 211</td>
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<td>SENG 321 Concepts of Programming Languages</td>
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<td>SENG 331 Measurement and Instrumentation</td>
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<td>SENG 342 Software Quality Assurance</td>
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<td>SENG 352 Software Architectures</td>
<td>SENG 311</td>
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<td>SENG 399 Summer Practice I</td>
<td>SENG 311</td>
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<td>SENG 411 Software Process Modeling</td>
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<td>SENG 441 Human Computer Interaction</td>
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<td>SENG 499 Summer Internship I</td>
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Undergraduate Course Descriptions

SENG 211 (3+0+0) 3 Credits / 6 ECTS
Introduction to Software Engineering (Yazılım Mühendisliğine Giriş)
Fundamental of software engineering, software types, software development process models, requirements engineering concepts, system modeling, design and implementation, software testing, software maintenance, quality and configuration management, project management.
Pre-requisite: CMPE 112

SENG 212 (3+0+0) 3 Credits / 6 ECTS
Software Requirements Engineering (Yazılım Gereksinimleri Mühendisliği)
Kinds of software requirements, quality measurements, requirements elicitation, requirements analysis and negotiation, requirements prioritization, requirements validation, requirements management, requirements identification techniques, change management, requirements documentation, quality attributes of requirements documents.
Pre-requisite: CMPE 112

SENG 310 (3+0+0) 3 Credits / 5 ECTS
Rapid Application Development (Hızlı Uygulama Geliştirme)
The concept of agile business and rapid development of software, to support the high-speed changes in the business, methods needed to quickly, effectively and accurately create software that responds to the changing business environment. Various methods of rapid development that can be applied to generate requirements, validate a solution, or even create a new operational system.
SENG 311  
Object Oriented Analysis and Design  
(Nesneye Dayalı Analiz ve Tasarım)
Fundamentals of object-orientation, object-oriented (OO) modeling using UML, Experimentation in OO analysis: identification of use cases and objects, experimentation in OO design: class hierarchies, implementation in OO programming, design pattern (overview), case study to reinforce the underlying concepts.
Pre-requisite: CMPE 211

SENG 312  
Concepts of Programming Languages  
(Yazılım Doğrulama ve Geçerleme)

SENG 321  
Concepts of Programming Languages  
(Programlama Dili Kavramları)
Dynamics of particles: Rectilinear and curvilinear motion, Newton's laws, momentum and angular momentum methods. Work and energy. Dynamics of rigid bodies; kinematics, Euler's Laws, angular momentum. Work and energy methods for rigid bodies.
Pre-requisite: CMPE 211

SENG 322  
Software Project Management  
(Yazılım Proje Yönetimi)
Software project management: introduction to project planning, team organization, software cost estimation, software metrics, risk analysis and management, resource management, project monitoring and control, contract management, personnel management, software quality assurance, software configuration management, software project management tools, project management processes, assessing development standards.

SENG 331  
Measurement and Instrumentation  
(Yazılım Tasarım Örüntüleri)
Advanced Object-Oriented Modeling using UML (Unified Modeling Language), Inheritance, polymorphism and Interfaces, reusable software, creational design patterns (factory, builder, singleton), structural design patterns (adapter, bridge, decorator, facade, proxy), behavioral design patterns (command, iterator, memento, observer, Strategy, visitor) case studies.
Pre-requisite: CMPE 221
SENG 342  
**Software Quality Assurance**  
(Yazılım Kalite Güvencesi)  
Software quality assurance methods, test plans and strategies, unit level and system level testing, software reliability, peer review methods, software quality metrics, and configuration control responsibilities in quality assurance.  
Pre-requisite: SENG 211

SENG 352  
**Software Architectures**  
(Yazılım Mimarileri)  
Introduction to software architectures, architectural types, modeling of software architectures, architectural evaluation methods, software production lines, model-driven architectures, service-driven architectures, architectural display languages, pattern-based development, interface-based development, contemporary software architectures, microservice architectures, cloud computing services.  
Pre-requisite: SENG 211

SENG 399  
**Summer Practice I**  
(Yaz Stajı I)  
Summer internship done over 20 consecutive working days at a computer firm or an IT department. Presentation of experiences, and systems and software developed over the internship.  
Pre-requisite: SENG 211

SENG 411  
**Human Computer Interaction**  
(İnsan Bilgisayar Etkileşimi)  
Pre-requisite: CMPE 211

SENG 441  
**Software Process Modeling**  
(Yazılım Süreç Modellemesi)  
Software engineering process infrastructure, Measurement and analysis of software processes, Software engineering process improvement, Quality analysis and control, Levels of process definition, Life-cycle model characteristics, Individual software process, Team process, Process tailoring, Effect of external factors (contract and legal requirements, standards, and acquisition practices) on software process.  
Pre-requisite: SENG 211
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<td>Senior Project I (Bitirme Projesi I)</td>
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<td>A project proposal, literature review, requirement analysis and design. Pre-requisites: SENG 311</td>
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<td>SENG 492</td>
<td>Senior Project II (Bitirme Projesi II)</td>
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<td>Minimum 20 working days of practical work in an organization operating on the design, production, maintenance, management of mechanical or thermal systems. Pre-requisites: Sophomore standing</td>
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<tr>
<td>SENG 499</td>
<td>Summer Internship II (Yaz Staji II)</td>
<td>(1+0+0) 1 Credit / 2 ECTS</td>
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<td>Analysis and design of machine elements such as spur, helical, bevel and worm gears; shafts and associated parts such as keys, pins, splines, couplings; clutches, brakes and flywheels; belts; chains; torque converters. Design project involving a mechanical component or device including all detail drawings, assembly drawings and cost analysis. Pre-requisite: SENG 211</td>
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</table>
BASIC SCIENCES UNIT

TED University Faculty of Arts and Sciences includes The Basic Sciences Unit to organize and administer the common core courses. Directed by Prof. Dr. Şinasi Ellialtıoğlu, this unit is in charge with the task of designing and offering elective courses that include all the natural sciences, mathematics, social and human sciences, communications, art and literature, Turkish and history.

Director
Prof. Şinasi Ellialtıoğlu

Academic Staff


* Research Assistant
** Part Time

Undergraduate Course Descriptions

ART 100 (2+2+0) 3 Credits / 5 ECTS
Visual Arts and Aesthetics (Görsel Sanatlar ve Estetik)
Overview of the visual arts as transmitters of cultural, humanistic and aesthetic values, painting, photography and film, architecture and the third dimension, music, literature, performance, popular art and everyday aesthetics, classic sources, contemporary sources.

ART 104 (2+2+0) 3 Credits / 5 ECTS
Drama (Drama)
The definition of creative drama in education, its development and features, the aim and method of drama as a creative art, drama as an art and aesthetic education, creative drama in education in Turkey, its effect on the rearing of creative individuals, the definition of psychodrama, evaluation and measurement approaches for creative drama and creative drama as a tool for guidance and psychological counselling services.
ART 110  
Introduction to Art  
(Sanata Giriş)
This course aims to develop students’ ability to express themselves effectively and appropriately, to familiarize students with major periods of art history from Neolithic to the Roman Period. A chronological outline of each period will be given in accordance with the social and political developments that played an important role in the changing structure of art.

ART 120  
Artistic Experience through Berger  
(Berger ile Sanatsal Deneyim)
The artistic behavior, and creative act of an art critic and literary figure through own revelations, in films done by self and in films as the self is reflected in. The multiplicity of creative positions as instances disseminating through artist’s immediate response and construction in visual media. The creator's focus on themes and concepts like time, duration, urban and rural, continuity, position of the artist, seeing-looking, being-becoming, death-being born.

ART 130  
Introduction to Film Analysis  
(Film Analizine Giriş)
This course aims to provide students with a theoretical and historical understanding of the development of cinema. The course covers major breakthroughs in cinema, as well as different topic, such as style and meaning, elements of film narrative, and techniques of film production. The main genres and some key auteurs will be discussed as well as the rise of the studio system, media technology and the role of the cinema audience.

ART 140  
Music History  
(Müzik Tarihi)
A global history of music starting from early ages to modern times. Prominent examples of different musical styles.

BIO 101  
Life Sciences  
(Yaşam Bilimleri)
Hierarchical order in life, cellular basis of living things, DNA-heritable information, interactions of organisms, diversity and evolution, physiology of organisms, digestive system, circulatory system, immune system, respiratory system, endocrine system, nervous system, reproductive system and human development.

BIO 110  
Introduction to Modern Biology  
(Modern Biyolojiye Giriş)
Molecules of life, organization of the cell, chromosomes and cell division, genetics, molecular genetics, recombinant DNA technology, genetic diseases, evolution, animal development, biotechnology.
COM 250
Effective Communication Techniques
(Etkin İletişim Teknikleri)
Guidance for CV writing and effective interview techniques. Effective communication. Examination
of the characteristics of a presentation. Focusing on various stages of preparing a presentation;
emphasizing the introduction and the conclusion. Message, content, voice style and body language.
Videotaping student progress. (This course is partly in Turkish, partly in English.)

ENG 101
English for Academic Purposes
(Akademik İngilizce Becerileri)
Academic reading and writing skills; critical reading and note-taking within the framework of a
thematic and integrated skills approach; writing essays with different methods of organization, giving
academic presentations as an outcome of listening and reading activities; emphasis on citation and
documentation techniques.

ENG 102
Expository Writing
(Akademik Yazım)
Writing a term paper by following a process approach; doing library and internet research, formulating
a thesis and researching supporting ideas; one-on-one tutorials with instructors for feedback during
the stages; oral presentation with the aim of defending written work; emphasis on the importance of
avoiding plagiarism.

ENG 111
Advanced English for Academic Purposes
(İleri Akademik İngilizce Becerileri)
Analysis of authentic reading pieces such as short stories, magazines, newspapers, and academic
articles; organizing paragraphs, essays or reflection papers; developing higher order critical thinking
skills through transferring knowledge; solving problems, making inferences; comparing and
contrasting definition, descriptive and narrative paragraphs.

ENG 204
Professional Communication in English
(Profesyonel İletişim Becerileri)
Introduction and development of professional skills in English; presenting information and opinions
using different means of communication in a business context, appropriate language structures and
proper vocabulary for effective communication, a focus on persuasion and problem solving skills;
integration of the four language skills based on a functional approach.

ENG 300
Academic English with Short Stories
(Kısa Hikâyelerde Akademik İngilizce)
Pre-requisites: ENG 101 and ENG 102

ENG 301
Great Books & Great Ideas
(Büyük Kitaplar ve Büyük Fikirler)
Analyzing influential ideas in the history of civilizations, reading important books, studying advanced
English, using complex linguistic structures, acquiring sophisticated vocabulary, intellectual growth, analytical thinking.
Pre-requisites: ENG 101 and ENG 102

ENG 310
Academic English with Integrated Writing
(Akademik İngilizce ile Bütünleşik Yazı)
Academic English. Mastering writing skills. Responding to academic texts. Integrated Writing. Multiple
skills. Writing integrated compositions.
Pre-requisites: ENG 101 and ENG 102

ENG 320
Academic English with Poetry
(Şirle Akademik İngilizce)
Pre-requisites: ENG 101 and ENG 102

GER 101
Elementary German I
(Temel Almanca I)
Introduction to German with emphasis on reading, writing and speaking, for students with no prior
knowledge of German. Use of familiar everyday expressions and very basic phrases.

GER 102
Elementary German II
(Temel Almanca II)
Basic knowledge of German grammar and structure; further studies on reading, writing and speaking.
Asking and answering simple questions, interacting with others in a simple way.

GER 103
Elementary German III
(Temel Almanca III)
Improving the German language level, defined in the Common European framework of Reference for
Languages, from A1 to A2.

HIST 101
History of Turkish Republic I
(Türkiye Cumhuriyeti Tarihi I)
The characteristics of the Turkish Republic and Atatürk’s reforms in their cultural, ideological and historical context. (This course is conducted in Turkish.)
HIST 102 (2+0+0) 2 Credits / 2 ECTS
History of Turkish Republic II
(Türkiye Cumhuriyeti Tarihi II)
Study of the intellectual foundations of Modern Turkey. Analysis of the main political, social, economic and cultural currents in the Republican era. Nation state and nationalism as a major force in Turkey.
(This course is conducted in Turkish.)

HIST 150 (2+0+0) 2 Credits / 2 ECTS
History of Turkish Republic for International Students I
(Yabancılar için Türkiye Cumhuriyeti Tarihi I)
Historical, socio-political, economical and cultural modification in Ottoman modernization and westernization history. The characteristics of the Turkish Republic and Atatürk’s reforms in their cultural, ideological and historical context.
(This course is conducted in English.)

HIST 160 (2+0+0) 2 Credits / 2 ECTS
History of Turkish Republic for International Students II
(Yabancılar için Türkiye Cumhuriyeti Tarihi II)
Historical, socio-political, economical and cultural modification in Turkish Republican and modernization history. The characteristics of the Turkish Republic and Atatürk’s reforms in their cultural, ideological and historical context from 1920s to the end of 1990s.
(This course is conducted in English.)

HUM 101 (3+0+0) 3 Credits / 5 ECTS
World History I
(Dünya Tarihi I)
Historical evolution of humanity from the first civilizations up to the Renaissance period. Developing a particular consciousness about human history in terms of the development and transformation of civilizations, economic systems, technological inventions, cultural productions and political developments.

HUM 102 (3+0+0) 3 Credits / 5 ECTS
World History II
(Dünya Tarihi II)
Historical evolution of humanity from the Renaissance period up to the post-Cold War period. Developing a particular consciousness about human history in terms of the development of the nation state, economic systems, technologic inventions, cultural productions and political.

ITA 101 (3+0+0) 3 Credits / 5 ECTS
Elementary Italian I
(Temel İtalyanca I)
Introduction to Italian with emphasis on reading, writing and speaking, for students with no prior knowledge of Italian. Use of familiar everyday expressions and very basic phrases.
ITA 102 (3+0+0) 3 Credits / 5 ECTS
Elementary Italian II
(Temel İtalyanca II)
Basic knowledge of Italian grammar and structure; further studies on reading, writing and speaking. Asking and answering simple questions, interacting with others in a simple way. Pre-requisite: ITA 101 or consent of instructor.

JAP 101 (3+0+0) 3 Credits / 5 ECTS
Elementary Japanese I
(Temel Japonca I)
Introduction to Japanese with emphasis on reading, writing and speaking, for students with no prior knowledge of Japanese. Use of familiar everyday expressions and very basic phrases.

JAP 102 (3+0+0) 3 Credits / 5 ECTS
Elementary Japanese II
(Temel Japonca II)
Basic knowledge of Japanese grammar and structure; further studies on reading, writing and speaking. Asking and answering simple questions, interacting with others in a simple way. Pre-requisites: JAP 101 or consent of instructor.

LIT 100 (3+0+0) 3 Credits / 5 ECTS
World Literature
(Dünya Edebiyatı)
Examining the life and works of significant representatives of world literature, literary movements, getting to know the well-known writers and their works and examination of literary texts that shaped the other cultures.

LIT 110 (3+0+0) 3 Credits / 5 ECTS
Introduction to Cultural Studies
(Kültür Araştırmalarına Giriş)
Introduction to essential theories, key terms and concepts of cultural studies, such as identity, hybridity, power, representation, gender and so forth. Analysis of various cultural products and representations from different perspectives.

LIT 202 (3+0+0) 3 Credits / 5 ECTS
Analyses of Visual Culture Texts
(Görsel Kültür Metin Analizleri)
Introduction to the terms image, text, metaphor, symbol, signifier, icon and the kitsch. A brief look at the place of the image in the history of human thought. Analysis of various examples from popular culture, photography and film, to everyday life and world literature. Pre-requisite: ENG 101 or ENG 102
LIT 210  
Critical Thinking and Writing  
(Eleştirel Düşünme ve Yazma)
Critical thinking, critical reading, writing and development of discussion skills, benefit from critical thinking in decision making. By benefiting from literary works evaluating what they read, critically and the ability of writing their thoughts.

PHIL 104  
Philosophy and Ethics  
(Felsefe ve Etik)
Understanding the fundamental concepts, problems, and approaches of philosophy and prominent ethical systems; the place and importance of philosophy for everyday life; the difference between philosophy and other human endeavors such as literature, mythology, religion, and science; appreciation of the deep understanding philosophy provides for human beings; a brief history of philosophy.

PHYS 104  
Introduction to Natural Sciences  
(Doğa Bilimlerine Giriş)
The general principles of physics and chemistry. Measurement, motion, Newton’s laws of motion, momentum, energy, work, power, heat, thermodynamics, waves, sound light, electricity, magnetism, and chemical principles. Understanding of the physical environment and be able to apply the scientific principles to observations experienced. Concepts of chemistry and physics will be reinforced by laboratory.

PHYS 105  
Physics I  
(Fizik I)
Vectors and coordinate systems; kinematics, dynamics, Newton’s Laws of motion. Charge; electric field, Gauss’ law; electric potential; capacitors; DC circuits. Temperature; Zeroth law of thermodynamics; Thermal expansion; Ideal gas law.

PHYS 106  
Physics II  
(Fizik II)
Work and energy; conservation of energy and momentum, collisions. Magnetic field; Ampere’s law; Faraday’s law; inductance. Heat; Internal Energy; Specific Heat; First and Second laws of thermodynamics; Entropy. 
Pre-requisite: PHYS 105

PHYS 120  
General Astronomy  
(Genel Astronomi)
RUS 101  
Elementary Russian I  
(Temel Rusça I)  
Introduction to Russian with emphasis on reading, writing and speaking, for students with no prior knowledge of Russian. Use of familiar everyday expressions and very basic phrases.

RUS 102  
Elementary Russian II  
(Temel Rusça II)  
Basic knowledge of Russian grammar and structure; further studies on reading, writing and speaking. Asking and answering simple questions, interacting with others in a simple way. Pre-requisite: RUS 101 or consent of instructor.

SPA 101  
Elementary Spanish I  
(Temel İspanyolca I)  
Introduction to Spanish with emphasis on reading, writing and speaking, for students with no prior knowledge of Spanish. Use of familiar everyday expressions and very basic phrases.

SPA 102  
Elementary Spanish II  
(Temel İspanyolca II)  
Basic knowledge of Spanish grammar and structure; further studies on reading, writing and speaking. Asking and answering simple questions, interacting with others in a simple way. Pre-requisites: SPA 101 or consent of instructor.

TEDU 400  
Student Development Seminar  
(Öğrenci Gelişimi Semineri)  
Supporting personal development. Development and/or enhancement of the knowledge, skills, and understanding to make informed academic, social, personal, career, and interpersonal decisions. Participation to seminars offered throughout the bachelor education. Expanding artistic and cultural repertoire and increasing interest towards them. (This course is graded as P/F.)

TUR 101  
Turkish I  
(Türkçe I)  
Explanation of communication; explanation of language and its relationship with thinking process, culture, society and literature; written and oral communication; illustration of main characteristics of the Turkish language, types of narration and its defects. (This course is conducted in Turkish.)
TUR 150
Turkish for Foreigners I
(Yabancılar için Türkçe I)
Basic knowledge of grammar and vocabulary, familiarization with Turkish culture. Fundamental language skills (listening, reading, writing, spoken interaction and spoken production), communication in Turkish at a basic level in daily life.
Only for non-Turkish speaking students.
Pre-requisites: None

TUR 155
Intermediate Turkish for Foreigners
(Yabancılar için Orta Düzey Türkçe)
Intermediate Turkish. It is aimed that the foreign students who speak Turkish at basic level to express themselves in more various contexts and text types, to realize the modality appearances and usage of Turkish.
Only for non-Turkish speaking students.
Pre-requisites: None

TUR 160
Turkish for Foreigners II
(Yabancılar için Türkçe II)
Development of listening, reading, writing, spoken interaction, and spoken production skills, further improvement of knowledge of the grammar and vocabulary by in-class discussions.
Only for non-Turkish speaking students.
Pre-requisite: TUR 150 or equivalent proficiency.

TUR 165
Advanced Turkish for Foreigners
(Yabancılar için İleri Düzey Türkçe)
Development of advanced listening, reading, speaking and writing skills in Turkish language level B2 to C1. Understanding the main ideas of complex texts on both concrete and abstract topics, including technical discussions in corresponding specialization. Oral and written communication in an effective, fluent, spontaneous, and organized manner, enabling interaction with native speakers on a wide range of subjects.
Only for non-Turkish speaking students.
Pre-requisites: None
Co-requisites: None
SECONDARY FIELDS
SECONDARY FIELDS

In line with the liberal education system of TED University, all undergraduate students are required to choose a secondary field next to their major within their credits to discover interdisciplinarity. Depending on the major students should take 4 or 5 courses from their secondary field program.

Departmental Secondary Fields

Secondary Fields offered by Faculty of Education

(Available for Students Except Faculty of Education)

<table>
<thead>
<tr>
<th>CODE</th>
<th>Course Title</th>
<th>CR</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EDU 101 Introduction to Education</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>EDU 102 Instructional Principles and Methods</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>ECE 203 Child Development and Learning</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>GPC 201 Life Span Development</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>GPC 204 Psychology of Learning</td>
<td>3</td>
<td>6</td>
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<tr>
<td>6</td>
<td>GPC 206 Social Psychology</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>GPC 303 Measurement and Evaluation</td>
<td>3</td>
<td>5</td>
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</tbody>
</table>

English Education

(2017-2018 and Before Available for Students Except Faculty of Education)

<table>
<thead>
<tr>
<th>CODE</th>
<th>Course Title</th>
<th>CR</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EDU 101 Introduction to Education</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>EDU 102 Instructional Principles and Methods</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>ELE 205 Language Acquisition</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>ELE 302 Technology Enhanced Language Learning</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>ELE 307 Teaching English to Young Learners</td>
<td>3</td>
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</table>

English Language Teaching Secondary Field

(New Program)

<table>
<thead>
<tr>
<th>CODE</th>
<th>Course Title</th>
<th>CR</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ELEP 301 Teaching English to Young Learners 1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>ELEP 303 Teaching English Language Skills 1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>ELEP 302 Teaching Foreign Language to Young Learners 2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>ELEP 304 Teaching English Language Skills 2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>ELEP 403 Instructional Design in English Language Teaching</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>ELEP 401 Translation</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>ELEP 402 Testing in English Language Teaching (ELT)</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>
Teaching English for Educators  
(Available for Students Except Faculty of Education)

<table>
<thead>
<tr>
<th>CODE</th>
<th>Course Title</th>
<th>CR</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ELE 205 Language Acquisition</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>ELE 209 Approaches to ELT</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>ELE 210 ELT Methodology I</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>ELE 302 Technology Enhanced Language Learning</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>ELE 304 Assessment in ELT</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>ELE 401 Materials Adaptation &amp; Development</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

Secondary Fields offered by  
Faculty of Economics and Administrative Sciences

Management  
(available for students except Department of Business Administration)

Management secondary field program consists of 5 Courses.
- Students can choose 4/5 BA courses.*  
  * Students in Department of Industrial Engineering are not allowed to take BA202, BA 305, BA 472, BA 474, BA 476, BA 477, BA 478, and BA 479 as electives to fulfill their requirements.
- Students cannot take BA 300, BA 400, BA 401, BA 402, BA 410 courses for the secondary field.

Economics  
(available for students except Department of Economics)

Economics secondary field program consists of 5 Courses.
- Students can choose 4/5 ECON courses.*  
  * Students can take only one of ECON 101 and ECON 110 courses as a part of the secondary field.
  * If students have taken one of these courses as a must course, then they cannot take the other as a part of the secondary field.
- Students cannot take ECON 300, ECON 400, ECON 401, ECON 402 courses for the secondary field.

Political Science  
(available for students except Department of Political Science and International Relations)

Political Science secondary field program consists of 5 Courses.
- PSIR 213 Political Concepts and Processes
- PSIR 214 Political Currents
- PSIR 373 Comparative Politics
- PSIR 351 History of Political Thought I
- PSIR 352 History of Political Thought II
International Relations
(available for students except Department of Political Science and International Relations)

International Relations secondary field program consists of 5 Courses.

- PSIR 291 Global Politics
- PSIR 292 International Relations Theory
- PSIR 367 Public International Law
- PSIR 422 Current Issues in World Politics
- PSIR 491 Foreign Policy Analysis

Secondary Fields offered by Faculty of Architecture

Architectural Culture
(available for students except Faculty of Architecture)

To complete the Secondary Field Program in Architectural Culture, students must take either 4 or 5 courses, according to the number specified by their department’s curriculum. Two of these courses must be the compulsory courses below. The rest can be selected from the departmental elective courses offered by the Department of Architecture with an ARCH code, as long as the pre-requisites are met, if there is any.

Students should begin the program with the course ARCH 121. In special cases which necessitate otherwise, the approval of both the instructor of the course, which is intended to be taken prior to or together with ARCH 121, and of the student’s advisor must be provided.

Compulsory Courses:

- ARCH 121 Introduction to Architecture (3+0+0) 3 Credits / 5 ECTS
- ARCH 221 History of Architecture I (3+0+0) 3 Credits / 5 ECTS

Suggested Program:

- Semester 5: ARCH 121
- Semester 6: ARCH Elective
- Semester 7: ARCH 221
- Semester 8: ARCH Elective + (ARCH Elective)
Secondary Fields offered by Faculty of Engineering

Industrial Engineering: Systems Modeling and Optimization
(available for students except Faculty of Engineering)

Pre-requisites:
- Knowledge of Linear Algebra (MATH 203 or MATH 202 or equivalent),
- Knowledge of Probability Theory (MATH 230 or MATH 233 or MATH 240, or equivalent)

Required Courses:
- a) IE 232 - Mathematical Modeling and Optimization (3+0+0) 3 Credits / 6 ECTS
- b) IE 331 - Mathematical Modeling and Optimization II (3+0+0) 3 3 Credits / 6 ECTS
- c) IE 332 - Mathematical Modeling and Optimization III (3+0+0) 3 3 Credits / 6 ECTS

Elective Courses:
- IE XXX - Two of any IE 3xx or IE 4xx courses

Civil Engineering Basics
(available for students except Faculty of Engineering)

Pre-requisition: PHYS 101 or PHYS 105

Suggested Courses: PHYS 102 or PHYS 106

Must Courses: CE 211 and CE 214

Elective Courses:

<table>
<thead>
<tr>
<th>CODE</th>
<th>Course Title</th>
<th>Pre-requisites</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 221</td>
<td>Engineering Mechanics I</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CE 311</td>
<td>Structural Analysis</td>
<td>CE 214 and MATH 210</td>
<td>6</td>
</tr>
<tr>
<td>CE 312</td>
<td>Fundamentals of Steel Design</td>
<td>CE 214</td>
<td>6</td>
</tr>
<tr>
<td>CE 314</td>
<td>Reinforced Concrete Fundamentals</td>
<td>CE 214</td>
<td>6</td>
</tr>
<tr>
<td>CE 341</td>
<td>Soil Mechanics</td>
<td>CE 214</td>
<td>6</td>
</tr>
<tr>
<td>CE 342</td>
<td>Foundation Engineering I</td>
<td>CE 341</td>
<td>6</td>
</tr>
<tr>
<td>CE 411</td>
<td>Reinforced Concrete Structures</td>
<td>CE 314</td>
<td>6</td>
</tr>
<tr>
<td>CE 412</td>
<td>Steel Structures</td>
<td>CE 312</td>
<td>6</td>
</tr>
<tr>
<td>CE 442</td>
<td>Foundation Engineering II</td>
<td>CE 342</td>
<td>6</td>
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<tr>
<td>CE 451</td>
<td>Construction Engineering and Management</td>
<td>Consent of the Department</td>
<td>6</td>
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<tr>
<td>CE 452</td>
<td>Practical Aspects of Construction Management</td>
<td>CE 451</td>
<td>6</td>
</tr>
<tr>
<td>CE 454</td>
<td>Contractual Aspects of Construction Works</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CE 455</td>
<td>Sustainable Construction</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
Secondary Fields offered by Faculty of Arts and Sciences

General Psychology

The Department of Psychology offers a secondary field (SEC) in “General Psychology”. General Psychology secondary field consists of five courses. Students must take PSY 104 as a compulsory course and two courses from each group, Group I & Group II. Courses offered under the title of Group II must be chosen depending on the advisor approval. The secondary field courses of General Psychology were presented below.

<table>
<thead>
<tr>
<th>Courses:</th>
<th>Compulsory-Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 104 Psychology</td>
<td>C</td>
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<tr>
<td>PSY 217 Experimental Psychology</td>
<td>E</td>
</tr>
<tr>
<td>PSY 232 Social Psychology</td>
<td>E</td>
</tr>
<tr>
<td>PSY 221 Life-Span Development I</td>
<td>E</td>
</tr>
<tr>
<td>PSY 203 Research Methods I</td>
<td>E</td>
</tr>
</tbody>
</table>

Group II

TEDU students may take any PSY coded course from the eligible elective courses of the Psychology Department opened for that semester except for PSY 342, PSY 343, PSY 442, PSY 445, PSY 446 and PSY 447.

Sociology

Aim of the Secondary Field:

Sociology secondary field program is designed for students who aspire to acquire a general understanding of sociology as a discipline as well as its sub-areas. The aim of this secondary field is to enable students to learn both theoretical and methodological approaches in sociology, apply these approaches in sub-areas of sociology, and employ a sociological perspective on their own disciplines.

Requirements of the Secondary Field:

Students are required to take SOC 103 Introduction to Sociology as the prerequisite, 2 compulsory courses (listed below), and 2 or 3 other elective courses (from the list below).

- Prerequisite for application: SOC 103 Introduction to Sociology
- Total number of courses: 5 /6
  - Compulsory courses: 2
  - Elective courses: 2/3
- Total credits: 15/18
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Names</th>
<th>Credit</th>
<th>Pre-requisite</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 201</td>
<td>Research Methods I</td>
<td>3</td>
<td></td>
<td>Compulsory</td>
</tr>
<tr>
<td>SOC 203</td>
<td>Sociological Theories I: Classics</td>
<td>3</td>
<td></td>
<td>Compulsory</td>
</tr>
<tr>
<td>SOC 210</td>
<td>Family Sociology</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 211</td>
<td>Sociology of Education</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 212</td>
<td>Religion and Society</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 213</td>
<td>Religion and Modernity</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 220</td>
<td>New Media and Communication Studies</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 221</td>
<td>Economics and Society</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 222</td>
<td>Migration in a Globalized World</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 223</td>
<td>New Social Movements</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 224</td>
<td>Social Anthropology</td>
<td>3</td>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td>SOC 302</td>
<td>Development of Sociology in Turkey</td>
<td>3</td>
<td></td>
<td>Elective</td>
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<tr>
<td>SOC 303</td>
<td>Urban Sociology</td>
<td>3</td>
<td></td>
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**Non-Departmental Secondary Fields**

Non-departmental secondary fields are available to all undergraduate students. Communication secondary field program is administrated by Faculty of Arts and Sciences. Applied Data Analytics, Global Citizenship and Law secondary fields are administrated by Faculty of Economics and Administrative Sciences.

**Applied Data Analytics**

Applied Data Analytics secondary field program consists of 4 or 5 Courses.

**Compulsory Course:**
- ADA 423 Statistical Inference Methods with Applications
- ADA 442 Statistical Learning

**Core Elective Courses:**
- ADA 402 Computational Statistics
- ADA 403 Exploratory Data Analysis
- ADA 407 Data Science for Social Scientists
- IE 332 Mathematical Modeling & Optimization III
- IE 435 Heuristic Search

**Elective Courses List:**
- BA 406 Market Data Analysis
- BA 407 Management Information Systems
- BA 463 Marketing Research
- CMPE 310 Rapid Application Development
- CMPE 442 Introduction to Machine Learning
• CMPE 467 Human Computer Interaction
• ECON 331 Econometrics I
• ECON 332 Econometrics II
• ECON 431 Applied Econometrics
• ECON 432 Time Series
• ECON 434 Panel Data Analysis
• IE 341 Simulation
• IE 441 Stochastic Processes
• IE 444 Forecasting Methods
• IE 451 Decision and Risk Analysis
• IE 454 Multi-Objective Decision Analysis

Communication and Critical Media Studies

Compulsory Course: COM 450 Introduction to Media Studies

Elective Courses List:
• COM 330 Introduction to Public Relations
• COM 340 Media Ethics
• COM 350 Media Literacy
• COM 360 Alternative Media
• COM 370 Cinema Studies and Film Analysis
• COM 380 New Media
• COM 455 Turkish Media and Representation
• COM 390 Film Design: Meaning Formation Through Film Practices

Global Citizenship

Global Citizenship secondary field program consists of 4 or 5 Courses.
• CIT 221 Global Environmental Issues
• CIT 226 Cross National Perspectives On Women’s Movement
• CIT 301 Civic Involvement
• CIT 302 Understanding Social Innovation: Concept, Context and Practice
• CIT 310 Introduction to Philosophy of Science
• CIT 320 Diaries and Letters of Great Authors
• CIT 323 Media and International Politics
• CIT 324 Gender and Media
• CIT 330 Sociology of the City
• CIT 340 The Concept and Practice of Corporate Responsibility
• CIT 350 Social Environmental Ethics
• CIT 362 Introduction to Sustainable Development
• CIT 364 Sustainable Development Goals
• CIT 370 Global Concerns: Inequalities and Discrimination
• CIT 371 Turkey’s EU Process: Identity vs. Access
- CIT 372 European Union (EU) and Social Policy
- CIT 425 Politics of Energy
- CIT 430 Citizenship Theories
- CIT 480 Photography on Urban Space
- CIT 381 History of Ottoman Diplomacy
- CIT 492 Gender and the City
- PSIR 294 International Organizations
- PSIR 377 Social and Political Movements
- PSIR 392 Peace Studies and Conflict Resolution
- PSIR 429 Human Rights and World Politics
- SOC 213 Religion and Modernity

Law

Law secondary field program consists of 4 or 5 Courses.

Compulsory Course:
- PSIR 263 Fundamental Principles of Law

Elective Courses List:
- BA 302 Business Law
- CIT 340 The Concept and Practice of Corporate Responsibility
- LAW 352 Law of Contracts
- LAW 361 Consumer Protection Law
- LAW 451 Labor Law
- LAW 452 Main Concepts of Tax Law
- LAW 461 Law of the European Union
- PSIR 266 Turkish Constitutional Law
- PSIR 367 Public International Law
- PSIR 429 Human Rights and World Politics
Course Descriptions of Non-Departmental Secondary Fields

Applied Data Analytics Secondary Field

**ADA 423**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
**Statistical Inference Methods with Applications**  
Data structures, loops and conditionals, data wrangling, grouping and summarizing, transforming data, data visualization, exploratory data analytics, statistical inference, hypothesis testing, analysis of variance, introduction to statistical modelling, linear and logistic regression as statistical models.  
Pre-requisite: MATH 232 or MATH 233 or MATH 240

**ADA 442**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
**Statistical Learning**  
Statistical Learning, Linear Methods and Regularization, Classification, Resampling Methods, Non-linear Methods, Tree-based Models, Applications using R.

**ADA 402**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
**Computational Statistics**  

**ADA 403**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
**Exploratory Data Analysis**  

**ADA 407**  
(3+0+0) 3 TEDU Credits, 6 ECTS Credits  
**Exploratory Data Analysis**  

Communication and Media Studies Secondary Field

**COM 330**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
**Data Science for Social Scientists**  
This course provides students with a detailed introduction to public relations. COM 330 includes a historical origin of public relations and its distinctions from advertising. This course is a particular focus on the public relations theory, many roles of the public relations practitioner and the public relations agency.
COM 340  
**Media Ethics**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
A discovery of moral decision making in the media. An examination of both classical and contemporary approaches to ethical decision making of media. Applying these approaches to media practices, a particular focus of the problematic ethical issues through a number of case studies and ethical approaches to media practices.

COM 350  
**Media Literacy**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
Communication, mass media and media. Reading media through written, visual and electronic media; analysis of the media from a critical perspective. This course is conducted in Turkish.

COM 360  
**Alternative Media**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
A particular focus on alternative media, which are somehow opposite to mainstream or dominant media in terms of their content, production or distribution, challenge the status quo and take the responsibility of becoming the voice of the other, the silenced and ignored. An analysis of the production of alternative media covering women, children, minorities, disabled people, elderly people, LGBT etc. without profit expectation. Discussing and criticizing mainstream media, its history, structure, role, content, development, opportunities and effects on society, the main features of this course is to focus on both alternative, citizen and radical media, the differences between them, their possibilities of affecting the society, the characteristics of peace journalism and its effects to society.

COM 370  
**Cinema Studies and Film Analysis**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
A particular focus on examining and analyzing a series of films stretching across multiple genres, countries, and historical periods. Introducing students to the basic vocabulary of films (montage, cinematography, long take, etc.) and the analytical terms to examine a sequence of films, this course provides a wide array of world cinema.

COM 380  
**New Media**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
An enriched perspective of New Media, different storytelling and Internet technologies, which have made information accessible from everywhere. A particular focus on the theories and applications of new media sphere, its cultural, political and social consequences.

COM 390  
**Film Design: Meaning Formation Through Film Practices**  
(3+0+0) 3 TEDU Credits, 5 ECTS Credits  
Expression of ideas and emotions through the language of cinema. Meaning formation. The basic principles and expressive potentials of cinematography, editing and sound design. The manipulative power of film practices in meaning formation. Film design/ideation.
**COM 450**  
**Introduction to Media Studies**  
Introduction to Media Studies is designed for students who are interested in doing critical research on media and its outlets. This course aims to explore theories and models of media. Introduction to Media Studies will enable students to analyze (hidden) media messages, helping them to think critically on their meanings and to develop awareness on their impacts regarding society, culture, diversity, etc.

**COM 455**  
**Turkish Media and Representation**  
This course aims a critical analysis of representation in Turkish media. It has a particular focus on representing gender, ethnicity, minority, religion, class in 21st century Turkish media through series, news, literature, movies, social media.

**Global Citizenship Secondary Field**

**CIT 221**  
**Global Environmental Issues**  

**CIT 226**  
**Cross National Perspectives on Women’s Movements**  
Evolution and current state of women’s movements in different countries. Middle Eastern, North American, European, and Latin American cases.

**CIT 301**  
**Civic Involvement**  

**CIT 302**  
**Understanding Social Innovation**  

**CIT 310**  
**Introduction to Philosophy of Science**  
CIT 320 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Letters and Diaries of Great Minds
Critical reading of non-fiction on real life experiences of great authors. Analysis of a variety of texts such as; letters, diaries, memoirs and travel writings that will improve academic literacy, and new ideas. Application of critical and evaluative skills through writing activities.

CIT 323 (3+0+0) 3 TEDU Credits, 6 ECTS Credits
Media and International Politics
The role of media in international relations. Theories of media. Media- power relationship. Media as a means of governments and media as a means to resist governments.

CIT 324 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Gender and Media
The interrelation between gender and global/local media. The intersection of “communication”, “culture” and “identity”. Media’s role in representing and constructing gender roles. Critical approach to media from critical theory perspective. Alternative gender-equality- sensitive media practices.

CIT 330 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Sociology of the City
A set of core concepts and theories in the field of urban sociology. Urban social issues such as urbanization, place and identity, social inequality, globalization, community and neighborhood relations, urban culture, demography and metropolitan problems such as segregation, poverty and urban crime. The relation of social and the physical. Readings, discussions, case studies. Interdisciplinary and interactive learning. Research algorithm. Jury presentation.

CIT 340 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
The Concept and Practice of Corporate Responsibility

CIT 350 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Social Environmental Ethics
Basic topics and questions in ethics and social environment. Social environmental sciences. Social environmental theories. Applied ethics. Contemporary discussions on biopolitics. Why do we need ethics? How can environmental ethics become a language between human and human, human and nature?

CIT 362 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Introduction to Sustainable Development
CIT 364  (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Sustainable Development Goals
The concept of “sustainability”. Global challenges and urgency of cooperation. UN 2030 Agenda for Sustainable Development. 17 Sustainable Development Goals (SDGs) with related targets. Interconnections among SDGs. Global efforts to achieve SDGs. Role of different actors on SDGs.

CIT 370  (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Global Concerns: Inequalities and Discrimination

CIT 371
Turkey’s EU Process: Identity vs. Access
The question of culture, identity and national identity. European identity from pan-nationalism to post-nationalism. The concept of Europeanization. Comparison of Turkish identity and European identity. The concept of conditionality. Turkey-EU association relationship. Turkey’s EU accession process. Future reflections on Turkey-EU Relations.

CIT 372  (3+0+0) 3 TEDU Credits, 5 ECTS Credits
European Union (EU) and Social Policy
Social policy with concrete examples from projects implemented in the EU and Turkey. Social protection and inclusion, disadvantaged individuals and groups. Skills, qualifications, equal opportunities and access to the labour market. Decent work, social dialogue, poverty, gender equality. The European Union and its social policies. EU project cycle management and logical framework approach. EU funded projects.

CIT 381
History of Ottoman Diplomacy
This is a comprehensive course on the Ottoman Diplomatic History with special emphasis on relations with Europe, from the early years of the expansion to the fall of the Empire. It is planned to cover: The Ottoman Empire and the Basics of the Imperial Administrative System; Introduction to Ottoman Diplomacy at the Classical Age; Premodern Ottoman Diplomacy; Beginning of Modernization; Reforms and the Ottoman Diplomacy; Establishment of the Foreign Ministry; The Eastern Question, Tanzimat Diplomacy; Foreign Policy of Abdülhamid II; The Union and Progress; Road to the Great War and the Fall of the Empire.

CIT 425  (3+0+0) 3 TEDU Credits, 6 ECTS Credits
Politics of Energy
CIT 430 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Citizenship Theories
Basic concepts on social structure, social institution, social change and social issue. Critical analysis of major texts in various genres for understanding the social issues on local/global scale and generating universal values such as: tolerance, respect and cooperation.

CIT 480 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Photography on Urban Space
This course aims to address the encounter of a particular form of visual storytelling – documentary photography – with the understanding of space. Students will be introduced with photography as an apparatus to understand and tell the story of urban space. They will be asked to improve their observation skills, decide on the story they want to tell and find out the appropriate form of visual expression for their stories. The documentary photos will further be employed to organise an unorthodox exhibition, which will be utilised to make them familiar with the design thinking approach.

CIT 492 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Gender and the City

Law Secondary Field

LAW 352 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Law of Contracts
Concept of obligation and types of obligations. Legal transaction and types. Contract and the general principles that govern the field of law of contracts. Contractual freedom and it’s limits; Formation of a contract. Form and freedom of form. Agency. Fulfillment of obligations resulting from contracts, Default of the debtor and creditor, Discharge of obligations, Penalty clause, Condition. Several liability.

LAW 361 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Consumer Protection Law
(Tüketicinin Korunması Hukuku)

LAW 451 (3+0+0) 3 TEDU Credits, 5 ECTS Credits
Labour Law
Historical background of labour law. Employment contract. Labour Code and the provisions of Code of Obligations regulating the employment contract. Parties and the relations between the employer and employee. Organization of work and working time; Termination of employment contract. Job security. Severance pay. Collective labour relations; Trade unions; Strike and lock-outs; Collective agreements and settlement of disputes. Social security This course is conducted in Turkish.
LAW 452 (3+0+0) 3 TEDU Credits, 5 ECTS Credits

Main Concepts of Tax Law


LAW 461 (3+0+0) 3 TEDU Credits, 6 ECTS Credits

Law of the European Union

The European Union's (EU) law and legal order. Sources of community law: the treaties, derived law, international law. Relationship of Community Law to national law. Law making process in EU. The limits of EU law. EU citizenship. Social and economic regulations.
GRADUATE SCHOOL

Director’s Statement

With the contribution of various academic departments under its five colleges/faculties, TED University offers eleven master’s programs with thesis and/or non-thesis options as well as a doctoral program in clinical psychology. Having been designed in view of the contemporary needs in the focus of academic or professional life, all of these programs stand out as alternatives to be considered by college graduates aiming to improve their skills by gaining expertise in these areas.

We strongly recommend students in the final stages of their undergraduate education and those who gained experience in various capacities after receiving their bachelor’s degree, to continue with their studies to enrich the broad knowledge gained in undergraduate education with a graduate degree that will allow them to specialize in an area or subject of their interest. Our graduate programs aim to train critical thinkers, individuals who are able to contribute to the domestic and international literature, who can follow local, national and global developments, and apply their knowledge and experience in different fields in their career. We believe that graduate degree holders will stand out as well-sought employees in the professional world and they will also continue their personal lives as individuals who are able to think in more original and creative ways.

We are in the belief that graduate education is not reserved to any age group or to people in any particular stage in life. As an extension of the strong roots of TED’s past experience in education, we offer a multifaceted educational experience in our graduate programs much like in our undergraduate curricula. Our students’ learning form their personal research or from each other’s knowledge, findings and experiences, contributing to the literature by publishing their findings, working together with the faculty in ongoing projects are only a part of the opportunities offered by graduate studies at TEDU. If you hold a bachelor’s degree or if you are in the last year of a bachelor’s program, check out our graduate programs. We hope that you will find a suitable program to pursue your goals. In any case, we would like to let you know that we are in the process of designing new programs also.

You should refer to the web pages of the specific program you intend to apply. Graduate programs at TEDU require a tuition payment but scholarship opportunities are available for programs with thesis. You need a valid ALES (national graduate admission test) score to apply to a program with thesis. Depending on the intended program, international applicants may take either GRE or GMAT exam instead of ALES. Most of our programs are entirely in English. English language proficiency is assessed by the English Language School through the English Proficiency Exam (EPE) administered on specific dates or through other test scores with pre-approved equivalency. All candidates, other than those who have been continuing their education for the past three years in a country where English is spoken as the native language, are required to certify their English proficiency by valid exam scores.

Once again, check out our programs and do not hesitate to apply if you find one matching your interests. Feel free to contact us with any questions. We will be happy to help you in realizing your goals.

Prof. Mehmet Ruştü TANER, Director of the Graduate School
## Graduate Curriculum

### Semester 1

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**Totals expected for graduation**

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### Graduate Course Descriptions

#### MAUS 501

**Theory and Method in Architecture and Urban Studies**

(Mimarlık ve Şehir Çalışmaları Kuram ve Metodolojileri)

Critical theories pertaining to the field architecture and city studies elaborated; with focus on architecture, planning, product design, sociology and similar disciplines. Scientific methodological approaches, related with these theories, are discussed.

#### MAUS 502

**Research Methods, Topics and Ethics in AUS**

(Mimarlık ve Kent Çalışmaları Araştırma Yöntemleri, Konuları ve Etiği)

Major research topics in the field of Architecture and City Studies are raised and discussed, in an interactive milieu. Conceptual frameworks are constituted on these problems by critical readings.
MAUS 503 (3+0+6) 6 Credits / 15 ECTS
Architecture and Urban Studies Research Studio I
(Mimarlık ve Kent Çalışmaları Araştırma Stüdyosu I)
In this studio course, problems are formulated in the field of Architecture and City Studies. Conceptual frameworks are constituted on these problems by critical readings. Interactive Dialogue and Innovative Approaches to problems are must.

MAUS 504 (3+0+6) 6 Credits / 15 ECTS
Architecture and Urban Studies Research Studio II
(Mimarlık ve Kent Çalışmaları Araştırma Stüdyosu II)
In this studio course, problems are formulated in the field of Architecture and Urban Studies. Conceptual frameworks are constituted on these problems by critical readings. Interactive Dialogue and Innovative Approaches to problems are must.

MAUS 510 (3+0+0) 3 Credits / 7,5 ECTS
Essay Film as a Research Method
(Araştırma Yöntemi olarak Deneme Film)
Introduction to essay film. An intellectual cinematoraphic genre that is established at the intersection of academic and artistic modes of expression. Development of academic and intellectual capacities of students through the elaboration of essay film(making) in a methodological approach. Watching essay films; reading essays on these films; making moderated discussions for learning and inventing research methods thorugh essay films. Reading and wrting on a specific essay film to make a methodological elaboration.

MAUS 511 (3+0+0) 3 Credits / 7,5 ECTS
Photography on Urban Space
(Kentsel Mekanın Fotoğrafi)
Photography as an apparatus to understand and tell the story of urban space. Students will improve their observation skills, decide on the story they want to tell and find out the appropriate form of visual expression for their stories. The documentary photos will further be employed to organise an exhibition, which will be utilised to make students familiar with the design thinking approach.

ARCH 531 (3+0+0) 3 Credits / 7,5 ECTS
Digital Culture and Architecture
(Dijital Kültür ve Mimarlık)
Definition and evolution of digital culture, understanding the relation between digital technologies, theories and culture, introduction to the key concepts in digital design research and practice, mapping the developments in digital culture and their impacts on the theoretical discourse and design processes in architecture, modeling hybrid research frameworks.

ARCH 532 (3+0+0) 3 Credits / 7,5 ECTS
Mediascapes: Communication Models in Digital Design
(Mediascapes: Dijital Tasarında İletişim Modelleri)
Communication models in architecture. Theoretical and historical aspects of digital design. Rethinking architectural representation and communication models in relation to digital design theories and
practices. Different modes and techniques of communication in digital design. Transformation of vision, imaging and cognition.

**ARCH 544**
(3+0+0) 3 Credits / 7.5 ECTS
**Parametric Design Thinking**
(Parametrik Tasarım Düşüncesi)
An introduction to parametric design. Understanding computer-aided design’s theoretical background through its applicable models. Gaining familiarity to concepts like algorithm, parameter, topology and form. Descriptive exploration of architectural examples through parametric design tools. Generating variations of architectural examples via innovative techniques.

**ARCH 551**
(3+0+0) 3 Credits / 7.5 ECTS
**Fundamentals of Cultural Heritage Conservation**
(Kültürel Mirası Korumanın Temelleri)
Introduction to the principles of conservation of cultural heritage. Examples of conservation implementations both national and international. Problems and developments in the field of conservation in the world and Turkey. The impact of political, social and economic inputs on cultural heritage conservation.

**ARCH 571**
(3+0+0) 3 Credits / 7.5 ECTS
**Visual Culture**
(Görsel Kültür)
A critical survey on the development of contemporary visual culture and its historical background. Analysis on the operations of certain concepts, approaches, practices and ideas constituting this culture and how they engage with social, cultural and political issues.

**ARCH 584**
(3+0+0) 3 Credits / 7.5 ECTS
**Architecture of Urban Form Through History**
(Tarih Boyunca Kentsel Biçimin Mimarisi)
Key elements of urban form and related historical building typologies. Topics on urban elements—such as streets, city squares, gardens and fortifications—through history of architecture. Continuity and change in urban form.

**MAUS 591**
(0-0-0) 0 Credit / 15 ECTS
**Pre-Thesis Seminar**
(Tez Öncesi Semineri)
Determination of a subject for thesis study, with relevant literature survey, intent of research and corresponding methodological approach. The seminar format course finalize with a panel jury.

**MAUS 592**
(0-0-0) 0 Credit / 30 ECTS
**Master’s Thesis I**
(Yüksek Lisans Tezi)
MS Thesis Defense, where the applicant candidate will be asked to prepare and present a final thesis-format study, to be defended in front of a five-membered jury, organized as a public open event.
# APPLIED DATA SCIENCE MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

## First Year

### Semester 1

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## Second Year

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Semester 3

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**Totals expected for graduation**

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<td>Causal inference, Data visualisation, Applications of machine learning and big data in social sciences.</td>
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<td>Probability, Random Variables, Distributions, Likelihood estimation, Hypotheses testing, Estimators, Regression.</td>
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<td>Mathematics of Model fitting, optimisation techniques, regression analysis, Statistical Learning.</td>
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<td>Bayesian estimation methods, Monte Carlo Methods, Monte Carlo Markov Chain Models, Empirical Likelihood, Splines, Regression and Overfitting, Smoothing.</td>
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ADS 523 (3+0+0) 3 Credits / 7.5 ECTS
Time Series (Zaman Serileri)
A variety of statistical models for time series. Main methods for analysing these models. Correlogram and a sample spectrum. Moving average (MA), Autoregressive (AR), ARMA and ARIMA models. Forecasts for a variety of linear methods and models.

ADS 531 (3+0+0) 3 Credits / 7.5 ECTS
Information Retrieval (Bilgi Erişimi)
Basic information retrieval models; vocabulary, posting lists, inverted indexes; scoring; vector space model; probabilistic information retrieval; text and vector space classification; support vector machines (SVM) and machine learning; clustering; Web search.

ADS 540 (3+0+0) 3 Credits / 7.5 ECTS
Multivariate Analysis with Applications (Çok Değişkenli Analiz)
Principal Component Analysis, Structural Equation Model, Factor Analysis, Cluster Analysis.

ADS 542 (3+0+0) 3 Credits / 7.5 ECTS
Statistical Learning (İstatistiksel Öğrenme)
Statistical Learning, Linear Methods and Regularization, Classification, Resampling Methods, Non-linear Methods, Tree-based Models, SPM, Unsupervised Learning, Applications using R.

ADS 545 (3+0+0) 3 Credits / 7.5 ECTS
Ordinary and Generalised Linear Regression Models (Doğrusal ve Genelleştirilmiş Doğrusal Regresyon Modelleri)
Linear and Generalised Linear Regression (Logit, Probit) Models, Binary Data, Survival Analysis.

ADS 550 (3+0+0) 3 Credits / 7.5 ECTS
Stochastic Processes (Stokastik Süreçler)

ADS 555 (3+0+0) 3 Credits / 7.5 ECTS
Multilevel and Longitudinal Data Analysis (Çoklu Seviyeli ve Panel Veri Analizi)
Multilevel Data Analysis, Longitudinal Data Analysis, Causal Inference, Analysis of Variance.

ADS 590 (0+0+0) 3 Credits / 15 ECTS
Graduation Project (Dönem Projesi)
Completion of a research project on a Data Science subject. Oral presentation and written report.
ADS 591  
Pre-Thesis Seminar  
(Teze Hazırlık Semineri)
Determination of thesis subject, problem definition. Preparatory work for thesis such as literature review, data collection and method research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

ADS 592  
Master’s Thesis I  
(Yüksek Lisans Tezi I)
First stage of the Master’s Thesis performed under supervision of the academic staff.

ADS 593  
Master’s Thesis II  
(Yüksek Lisans Tezi II)
Second stage of the Master’s thesis performed under supervision of the academic staff.

ADS 600  
Big Data Analytics  
(Büyük Veri Analitiği)
Map-Reduce Methods, Parallel Computing.

ADS 610  
Data Mining and Data Retrieval  
(Veri Madenciliği)
Accessing structured data in a database such as Mysql or raw data in various forms scattered around on the web.
# CIVIL ENGINEERING MASTER PROGRAM
(with and without thesis)
(Language of Instruction: English)

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**Totals expected for graduation**

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Graduate Course Descriptions

**CE 503**
(3+0+0) 3 Credits / 7.5 ECTS

Uncertainty and Decision Making in Civil Engineering
(İnşaat Mühendisliğinde Belirsizlik ve Karar Verme)


**CE 571**
(3+0+0) 3 Credits / 7.5 ECTS

Sustainable Construction
(Sürdürülebilir İnşaat)


**CE 590**
(0+0+0) 3 Credits / 15 ECTS

Graduation Project
(Bitirme Projesi)

CE 591 (0+0+0) 3 Credits / 2.5 ECTS
Pre-Thesis Seminar
(Teze Hazırlık Semineri)

CE 592 (0+0+0) 3 Credits / 30 ECTS
Master’s Thesis I
(Yüksek Lisans Tezi I)
M.Sc. Thesis performed under supervision of an academic staff. This course must be taken in the semesters where the thesis work is in progress.

CE 593 (0+0+0) 3 Credits / 30 ECTS
Master’s Thesis II
(Yüksek Lisans Tezi II)
M.Sc. Thesis performed under supervision of an academic staff. This course must be taken in the semesters where the thesis work is in progress.

CE 594 (3+0+0) 3 Credits / 7.5 ECTS
Research Methods and Academic Publishing Ethics
(Araştırma Yöntemleri ve Akademik Yayın Etiği)
Literature Survey; Establishing the Objective and Scope; Analytical and Experimental Approaches; Design and Evaluation of Questionnaires. Experiment Design. Quantitative and Qualitative Data Analyses; Presentation of Results; Methods of Academic Publication Ethics.

CE 504 (3+0+0) 3 Credits / 7.5 ECTS
Computer Applications in Civil Engineering
(İnşaat Mühendisliğinde Bilgisayar Uygulamaları)
Introduction to computer applications in civil engineering. Integration of analysis, design, optimization, data management, computer programming and problem-solving skills with computer tools and techniques.

CE 505 (3+0+0) 3 Credits / 7.5 ECTS
Introduction to Finite Element Method
(Sonlu Eleman Yöntemine Giriş)

CE 506 (3+0+0) 3 Credits / 7.5 ECTS
Instrumentation, Measurements and Predictions
(Enstrümantasyon, Ölçümler ve Tahminler)
Purpose and utilization of instrumentation: design, determination of engineering properties during and after construction, foundation design, buildings, earth fills, retaining structures, open cuts, tunnels, dams, deep excavations, demolition and blasting, dynamic loads, slopes, groundwater and seeping
Design and planning: soil layering and their properties, groundwater, nearby buildings, environmental impacts, determination of the requirements and measured parameter, selection of instruments, calibration and placement, critical zones, measurement frequency, collection and reduction of data, maintenance. Instruments: surface measurements, deformations and displacements, pressures and strains. Case studies.

**CE 511 (3+0+0) 3 Credits / 7.5 ECTS**
Reinforced Concrete Structures (Betonarme Yapılar)

General RC Behavior: Material Behavior, Time Dependent Behavior of Concrete; Review on Flexural Behavior of RC Members; Bi-axial Bending; Moment-Curvature Relationship, Plastic Hinge, Redistribution; Behavior and Strength of Members under Combined Shear and Torsion; Floor Systems-Slabs; Footings; Strut-and-Tie Method; Serviceability and Detailing.

**CE 513 (3+0+0) 3 Credits / 7.5 ECTS**
Advanced Structural Analysis (İleri Yapısal Analiz)

Matrix methods of structural analysis. Introduction to methods of nonlinear structural analyses.

**CE 514 (3+0+0) 3 Credits / 7.5 ECTS**
Introduction to Earthquake Resistant Design (Depreme Dayanıklı Yapı Tasarımına Giriş)


**CE 515 (3+0+0) 3 Credits / 7.5 ECTS**
Advanced Strength of Materials (İleri Mukavemet)


**CE 521 (3+0+0) 3 Credits / 7.5 ECTS**
Sustainability of Construction Materials (Yapı Malzemelerinin Sürdürülebilirliği)

CE 531  
Design of Hydraulic Structures  
(Hidrolik Yapıların Tasarımı)  

CE 532  
Water Supply Engineering Design  
(Su Mühendisliğinde Tasarım)  

CE 533  
Open Channel Hydraulics  
(Açık Kanal Hidroliği)  

CE 534  
Coastal Engineering  
(Kıyı Mühendisliği)  

CE 535  
Statistical Applications in Hydrology and Coastal Engineering  
(Hidroloji ve Kıyı Mühendisliğinde İstatistiksel Uygulamalar)  

CE 536  
Integrated Coastal Zone Management  
(Bütünleşik Kıyı Alanları Yönetimi)  
CE 537 (3+0+0) 3 Credits / 7.5 ECTS
Sustainable Sediment Management in Water Resources Engineering
(Su Kaynakları Mühendisliğinde Sürdürülebilir Sediment Yönetimi)

CE 538 (3+0+0) 3 Credits / 7.5 ECTS
Sediment Transport
(Sediment Taşınımı)

CE 539 (3+0+0) 3 Credits / 7.5 ECTS
Coastal Hydraulics
(Kıyı Hidrologisi)

CE 541 (3+0+0) 3 Credits / 7.5 ECTS
Geotechnical Engineering for Sustainable Infrastructure
(Sürdürülebilir Altyapı için Geoteknik Mühendisliği)

CE 542 (3+0+0) 3 Credits / 7.5 ECTS
Geotechnical Engineering Applications Benefitting Society
(Topluma Yararlı Geoteknik Mühendisliği Uygulamaları)
Service-learning sustainable projects benefiting the society: determining the problems and the needs of people/communities and working towards finding solutions. Reconciling economic, environmental, and practical concerns with resources: determining soil parameters, retaining structures, shallow and deep foundations, slope stability, soil improvement. Repair and maintenance suggestions and training.

CE 543 (3+0+0) 3 Credits / 7.5 ECTS
Geoenvironmental Engineering
(Geoteknik Çevre Mühendisliği)
Waste and contaminants: types, generation, properties, collection, regulations. Sustainable waste management: environmental, social and economic considerations, alternative solutions. Waste and contaminant disposal: legal and regulatory framework, site identification and preparation, base

CE 544  
Geotechnical Earthquake Engineering  
(Geoteknik Deprem Mühendisliği)  

CE 545  
Soil Improvement and Sustainability: Conventional and Innovative Applications  
(Zemin İyileştirme ve Sürdürülebilirlik: Konvansiyonel ve Yenilikçi Uygulamalar)  

CE 551  
Building Information Modeling  
(Yapı Bilgi Modellemesi)  
Creation, management, and application of building information models. Process and tools available for creating 2D and 3D computer representations of building components and geometries. Organizing and operating on models to produce architectural views and construction documents, renderings and animations, and interface with analysis tools.

CE 552  
Practical Aspects of Construction Management  
(Yapım Yönetiminin Uygulamaya Dönük Yönleri)  
Introduction to management, general description of construction industry, contract systems, types of construction contracts. Review of typical organizational structures for construction companies and projects. Work scheduling by network time analysis, resource analysis and leveling. Main tasks to start up construction projects. Project records, documentation. Communication basics and communication in construction sites. Monitoring and control systems. Procedures and formalities for project completion.

CE 553  
International Civil Engineering Contracts  
(Uluslararası İnşaat Mühendisliği Sözleşmeleri)  
CE 554 (3+0+0) 3 Credits / 7.5 ECTS
Contractual Aspects of Construction Works
(İnşaat İşlerinin Sözleşmeye Dayalı Yön)

CE 555 (3+0+0) 3 Credits / 7.5 ECTS
Construction Site Management
(Şantiye Yönetimi)

CE 556 (3+0+0) 3 Credits / 7.5 ECTS
Construction Process and Document Management
(İnşaat Projelerinde Süreç ve Doküman Yönetimi)

CE 557 (3+0+0) 3 Credits / 7.5 ECTS
Contract and Claim Management
(Sözleşme ve Talep Yönetimi)

CE 558 (3+0+0) 3 Credits / 7.5 ECTS
International Arbitration
(Uluslararası Tahkim)
Fundamental principles of International Arbitration. Turkish International Arbitration Law. Domestic Arbitration.

CE 572 (3+0+0) 3 Credits / 7.5 ECTS
Natural Hazards: Risks, Impacts, and Resilience
(Doğal Afetler: Riskler, Etkiler ve Dirençlilik)
CE 573 (3+0+0) 3 Credits / 7.5 ECTS
Renewable Energy Projects
(Yenilenebilir Enerji Projeleri)
The importance of renewable energy in energy market and Turkey’s renewable energy potential. Renewable energy resources. Basic design principles, structure types, construction techniques and applications of renewable energy projects, environmental impacts of the renewable energy systems, the role of renewables for sustainability. Conditions of renewable energy market in Turkey and worldwide. Government agencies, laws and permissions related with renewable energy in Turkey. Case study of a real renewable energy project invested in Turkey.

CE 574 (3+0+0) 3 Credits / 7.5 ECTS
Design for Environment
(Çevre için Tasarım)
Methods and concepts concerning the design of engineered systems and processes and assessment of their effects on the global environment, minimization of residues, materials selection and packaging, designing products for recycling, disassembly, and disposal. Decision making in new product development and creating environmental objectives. Incorporating design for environment into the design process. Use of product design matrices, environmental effect analysis, life cycle thinking, and other design for environment tools.

CE 575 (3+0+0) 3 Credits / 7.5 ECTS
Life Cycle Assessment
(Yaşam Döngüsü Değerlendirmesi)

CE 576 (3+0+0) 3 Credits / 7.5 ECTS
Impact of Climate Change on Civil Engineering Design
(İklim Değişikliğinin İnşaat Mühendisliği Tasarımına Etkileri)
Climate change science. Forecasting models. Mitigation and adaptation to impacts. Regional climate impacts in Turkey including impacts on cities. Resilience of urban infrastructure and networks.

CE 577 (3+0+0) 3 Credits / 7.5 ECTS
Entrepreneurship in Civil Engineering
(İnşaat Mühendisliğinde Girişimcilik)

CE 581 (3+0+0) 3 Credits / 7.5 ECTS
Structural Dynamics
(Yapı Dinamiği)
Introduction to structural dynamic systems. Linear SDOF and MDOF discrete systems. Undamped and

CE 582 (3+0+0) 3 Credits / 7.5 ECTS
Earthquake Engineering
(Deprem Mühendisliği)

CE 583 (3+0+0) 3 Credits / 7.5 ECTS
Engineering Seismology
(Mühendislik Sismolojisi)

CE 584 (3+0+0) 3 Credits / 7.5 ECTS
Seismic Hazard Assessment
(Sismik Tehlike Analizi)

CE 585 (3+0+0) 3 Credits / 7.5 ECTS
Structural Reliability
(Yapısal Güvenilirlik)

CE 589 (3+0+0) 3 Credits / 7.5 ECTS
Design of Coastal Structures
(Kıyı Yapıları Tasarımı)

CE 589 (3+0+0) 3 Credits / 7.5 ECTS
Special Topics in Civil Engineering
(Inşaat Mühendisliğinde Özel Konular)
Special topics and research related to Civil Engineering chosen by the faculty member and may be taken by students as part of their studies approved by advisor. Course content may vary. Additional requirements (pre-requisites or co-requisites) may need to be satisfied depending on topic.
Clinical Child and Adolescent Psychology is a subfield of clinical psychology and a specialty in professional psychology that develops and applies scientific knowledge to the assessment, prevention and treatment of mental health problems in children and adolescents within their social context. The specialty in Clinical Child and Adolescent Psychology focuses on the understanding of the basic psychological needs of infants, toddlers, children and adolescents; influence of the family and other social and historical contexts on the psychosocial adjustment, cognitive development, behavioral adaptation and health status; and delivery of psychological services to children and adolescents.

Along with the increased awareness regarding the long-term adverse effects of child mental health problems for individuals, families and societies; training of professionals specialized in this field became an issue of significant importance.

Being the first of its kind in Turkey, TEDU’s “Developmental Focused Clinical Child and Adolescent Psychology MSc Program (DF-CCAP)” aims to train highly-qualified professionals to work in academic or applied settings related the field of clinical child and adolescent psychology. The program adopts a multidisciplinary framework bringing together clinical, developmental and family psychology. Being basically grounded on the discipline of clinical psychology, the program provides our students specific and extensive knowledge and skills related to child and adolescent mental health. Its “developmental focus” enriches the program by incorporating scientific knowledge, methodology and perspectives from developmental science. And the family psychology component complements it by presenting the context in which childhood mental health and disorders can be understood, and prevention, intervention and treatment efforts are realized.

The program is developed:

- On the basis of Scientist-Practitioner Model (Boulder Model) which is a training model for graduate programs that aspires to train students not only as “scientists” producing knowledge, but also as “practitioners” who are able to transfer this scientific knowledge into their applied practice. The curriculum based on this model covers theoretical and practical courses supervision and internships; as well as courses on scientific methodology and research.

- In accordance with the requirements of EuroPsy Specialist Certificate in Psychology. EuroPsy is a European standard of education and professional training in psychology set by the European Federation of Psychologists’ (EFPA) to demonstrate the achievement of a basic level of competence and expertise in practice of psychotherapy.

- As being compatible with the TEDU Quality Assurance System, which provides the students with the opportunity deepen their knowledge and skills in specific areas by taking elective courses. The students in MSc Program can either follow one of two tracks presented below or combine courses from both of them in terms of their professional and academic goals.
### Semester 1

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Semester Credits 2 0 0 2 31

Totals expected for graduation 28 8 1 32 125

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**Graduate Course Descriptions**

**PSY 501**

*(2+2+0) 3 Credits / 7 ECTS*

**Advanced Research Methods and Statistics** *(İleri Düzey Araştırma Yöntemleri ve İstatistik)*

In-depth understanding of advance regression methods. Simple linear regression, multiple linear regression, interactions, categorical and continuous variables and related topics. Setting up and running the analysis in SPSS; interpreting the results; drawing implications for the research problem.
PSY 504  
Research Colloquium  
(Araştırma Uygulaması)  
Work closely with faculty members to generate ideas, create research proposals, conduct research, prepare a professional research paper, and present their findings.

PSY 521  
Advanced Developmental Psycholog  
(İleri Gelişim Psikolojisi)  
Origin, continuity, and the nature of developmental change of the human behavior across the life span. Current research trends and debates within the field of developmental science.

PSY 522  
Advanced Cognitive Development  
(İleri Bilişsel Gelişim)  
Cognitive development together with discussions of constructivist, sociocultural, evolutionary, and biological theories. Perception and memory in infancy and childhood.

PSY 524  
Development, Family, and Culture  
(Gelişim, Aile ve Kültür)  
Cross cultural investigation of development; cross-cultural and cultural findings, methodological problems, social change and acculturation.

PSY 525  
Developmental Research: New Methods and Designs  
(Gelişim Araştırmaları: Yeni Yöntemler ve Desenler)  
Research methods in developmental science, investigation of longitudinal and contextual methods, developmental and individual differences, variability versus stability and other issues in human developmental research. Research ethics.

PSY 526  
Parenting & Parent-Child Relations  
(Ana babalık ve Anababa-Çocuk İlişkileri)  
Transition to parenthood, parent-child relations and theory and research in the area of parenting in the context of life span.

PSY 540  
Clinical Interviewing  
(Klinik Görüşme)  
Developing theoretical knowledge and skills on clinical interviewing. Ethics of psychotherapy practice, therapist-client relationship, structure of clinical interview, clinical formulation, developing treatment plan, clinical report writing.
PSY 541  
Developmental Psychopathology  
( Gelişimsel Psikopatoloji)  
Understanding psychological problems in the context of human development. Developmental origins and developmental consequences of social, emotional, and behavioral disturbances in childhood and adolescence. Examination of the characteristics, course, and etiology of childhood disorders with an emphasis on early development, including social, cognitive, biological, and psychological influences.

PSY 542  
Clinical Assessment of Children and Adolescents  
( Çocuk ve Ergenlerin Klinik Değerlendirme)  
Tracking of the development of a child and identifying deviations from normal development and early identification of children at risk on the basis of cognitive, emotional and social assessment. Application, scoring, assessment, interpretation and reporting of particular assessment tools developed for children and adolescents.

PSY 543  
Clinical Supervision I  
( Klinik Süpervizyon I)  
Presentation of the cases followed by the supervisees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship with the child, adolescent and family, consultation and ethical considerations, under the guidance of a supervisor.

PSY 544  
Clinical Supervision II  
( Klinik Süpervizyon II)  
Presentation of the cases followed by the supervisees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship with the child, adolescent and family, consultation and ethical considerations, under the guidance of a supervisor. Continuation of Clinical Supervision I.

PSY 545  
Supervised Clinical Practicum / Internship I  
( Süpervizyonlu Klinik Uygulama / Staj I)  
Supervised clinical practice (internship) with children, adolescents and families in a clinical setting.

PSY 546  
Supervised Clinical Practicum / Internship II  
( Süpervizyonlu Klinik Uygulama / Staj II)  
Supervised clinical practice (internship) with children, adolescents and families in a clinical setting. Continuation of Supervised Clinical Practicum I.
PSY 547 (2+2+0) 3 Credits / 6 ECTS
Play Therapy (Oyun Terapisi)
Importance and function of play in the psychosocial development of children and adolescents; use of play for assessment and intervention purposes, elements of play therapy, play therapy approaches and techniques, application of play therapy for various psychological problems, supervised play sessions.

PSY 548 (3+0+0) 3 Credits / 6 ECTS
Child and Adolescent Psychotherapy (Çocuk ve Ergen Psikoterapisi)
Theoretical frameworks for psychotherapy approaches and clinical skills of observation, assessment, diagnosis, and treatment planning of children and adolescents. Evidence-based interventions utilized for children and adolescents with specific and commonly encountered developmental, social, and behavioral issues. Ethical issues within the framework of child and adolescent psychotherapy. Case examples.

PSY 549 (3+0+0) 3 Credits / 6 ECTS
Family, Crises, and Trauma (Aile, Krizler ve Travma)
Definition of crises and trauma, crises and traumatic incidents families may encounter through the stages of life cycle, responses of families in face of psychological trauma and crisis, loss and bereavement, crises and trauma intervention.

PSY 550 (3+0+0) 3 Credits / 6 ECTS
Family Systems: A Developmental Perspective (Gelişimsel Bakışaçısıyla Aile Sistemleri)
Family as the primary social context which influences the individual. Systems Approach, Family Systems Theory and Development Theory. Introduction to systemic perspective. Patterns, processes and dynamics in each of the stages of the family life-cycle.

PSY 551 (3+0+0) 3 Credits / 6 ECTS
Application of Learning Theories to Clinical Practice with Children and Families (Öğrenme Kuramlarının Çocuk ve Ailelerle Klinik Çalışmalara Uygulanması)
Contemporary behavioral models explaining normal development and deviations from normal development in infancy, childhood, and adolescence; application of learning theories to the common mental health conditions of childhood and to the clinical practice with children, adolescents and their families; contributions of learning theory to child case management; foundations of behavioral therapy.
PSY 552 (2+2+0) 3 Credits / 6 ECTS
Family Therapy (Aile Terapisi)
Overview of the systems perspective and family systems; historical roots of family therapy; main schools of family therapy; methods and principles in family therapy practice; family therapy in the 21st century; contemporary approaches and practices in family therapy.

PSY 554 (2+2+0) 3 Credits / 6 ECTS
Case Formulation in Child, Adolescent and Family Therapy (Çocuk, Ergen ve Aile Terapisinde Vaka Formülasyonu)
Clinical formulation in child, adolescent and family therapy via case examples. Forming hypothesis. Developing treatment plan based on case formulation.

PSY 556 (2+2+0) 3 Credits / 6 ECTS
Adolescence and Psychopathology (Ergenlik Dönemi ve Psikopatolojileri)

PSY 560 (1+0+1) 1 Credit / 3 ECTS
Clinical and Research Ethics (Klinik ve Araştırma Etiği)
Ethical principles and guidelines for clinical psychologists; standards of clinical practice, laws and regulations, research ethics, dealing with ethical dilemmas, ethical case discussions.

PSY 591 (0+0+0) 0 Credit / 3 ECTS
Pre-Thesis Seminar (Teze Hazırlık Semineri)
Determination of thesis subject, problem and research question definition. Preparatory work for thesis such as literature review, hypothesis generation and methodology research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

PSY 592 (0+0+0) 0 Credit / 15 ECTS
Master’s Thesis I (Yüksek Lisans Tezi I)
Conducting an independent, supervised research in the field of clinical child and adolescent psychology to be written in Master’s Thesis format.

PSY 593 (0+0+0) 0 Credit / 15 ECTS
Master’s Thesis II (Yüksek Lisans Tezi II)
Completion and successful defense of the supervised, written thesis to demonstrate mastery of theory, methodology, data analysis and argumentation.
# ECONOMICS AND FINANCE MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

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C: Class Lecture, P: Practice, L: Laboratory, Cr: Credits, ECTS: ECTS Credits

Graduate Course Descriptions

EF 589 (3+0+0) 3 Credits / 7.5 ECTS
Research Methods and Ethics
(Araştırma Yöntemleri ve Etik)
Qualitative and quantitative methods in economics and finance. Defining research questions, formulating hypotheses and categorizing variables. Data collection, sampling, analysis and interpretation. Ethical considerations in research. Oral and written communication and dissemination of research findings.

BA 583 (3+0+0) 3 Credits / 7.5 ECTS
Energy and Electricity Markets
(Enerji ve Elektrik Piyasası)

ECON 545 (3+0+0) 3 Credits / 7.5 ECTS
The Political Economy of Globalization

EF 590 (0+0+0) 0 Credits / 15 ECTS
Graduation Seminar
(Bitirme Projesi)
Development of a research project about Economics and Finance. In accordance with the project principles, integrating theoretical knowledge with application.
Pre-requisite: EF 589

EF 591 (0+0+0) 0 Credit / 7.5 ECTS
Seminar
(Seminer)
Determination of thesis subject, problem definition. Preparatory work for thesis such as literature review, data collection and method research. Presentation of thesis proposal at a seminar. Attending seminars organized as part of the program.
Pre-requisite: EF 590
EF 592  (0+0+0) 0 Credit / 30 ECTS
Master Thesis I
(Yüksek Lisans Tezi I)
M.Sc. Thesis performed under the academic supervision. This course must be taken during semesters where the thesis work is done. The thesis must be presented along with a submitted written draft.
Pre-requisite: EF 591

EF 593  (0+0+0) 0 Credit / 30 ECTS
Master Thesis II
(Yüksek Lisans Tezi II)
M.Sc. Thesis performed under the academic supervision. This course must be taken during semesters where the thesis work is done. The thesis must be defended in written and spoken form in front of a jury.
Pre-requisite: EF 592
ENGINEERING MANAGEMENT MASTER PROGRAM
(with and without thesis)
(Langage of Instruction: English)

**without thesis**

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Graduate Course Descriptions

EM 590  (0+0+0) 0 Credit / 12.5 ECTS
Graduation Project
(Bitirme Projesi)
Development of a research project about Engineering Management. In accordance with the project principles, integrating theoretical knowledge with application.

EM 591  (0+0+0) 0 Credit / 5 ECTS
Pre-Thesis Seminar
(Teze Hazırlık Semineri)
Determination of thesis subject, problem definition. Preparatory work for thesis such as literature review, data collection and method research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

EM 592  (0+0+0) 0 Credit / 30 ECTS
Master Thesis I
(Yükse Lisans Tezi I)
First stage of the M.Sc. thesis performed under supervision of the academic staff.
Pre-requisite: EM 591

EM 593  (0+0+0) 0 Credit / 30 ECTS
Master Thesis II
(Yükse Lisans Tezi II)
Second stage of the M.Sc. thesis performed under supervision of the academic staff.
# ENGLISH LANGUAGE EDUCATION MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

### with thesis

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### without thesis

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Totals expected for graduation

|             | 30 | 0 | 0 | 30 | 90 |

Graduate Course Descriptions

ELEP 501 (3+0+0) 3 Credits / 7.5 ECTS

English Language Teaching Methodology
(İngilizce Öğretim Yöntemleri)

Examining language awareness through detailed analysis of different phases and techniques of teaching listening, speaking, writing and reading; designing individual and / or small-scale group activities according to the different proficiency levels and lesson planning principles and techniques; developing activities for groups of learners of different ages and language proficiency.

ELEP 502 (3+0+0) 3 Credits / 7.5 ECTS

Second Language Acquisition
(İkinci Dil Edinimi)

Comprehending behavioral, cognitive, developmental, social, cognitive, constructivist and socio-cultural theories and perspectives related to second language acquisition; critically examining second language acquisition theories; discussing the contribution of learning theories to the student motivation, self-regulation and classroom management; creating an effective classroom design based on second language acquisition practices.

ELEP 503 (3+0+0) 3 Credits / 7.5 ECTS

Research Methods in Education and Academic Publication Ethics
(Eğitimde Araştırma Teknikleri ve Bilimsel Yayın Etiği)

Comprehending the theoretical and practical aspects of qualitative and quantitative research methods in second language teaching; examining different research types such as experimental, quasi-experimental, classroom observation and research, case study, ethnographic research, conversation analysis; being informed about research processes such as problem determination, data collection, data analysis and interpretation of results; implementing the related literature review, data collection, data evaluation and report writing techniques to conduct research on a particular subject.
ELEP 504 (3+0+0) 3 Credits / 7.5 ECTS
Testing and Evaluation in English Language Teaching
(İngilizce Öğretiminde Ölçme ve Değerlendirme)
Emphasizing the importance of measurement, evaluation and assessment; recognizing the properties
of measuring tools; obtaining technical information about measurement tools used in education;
being informed about the principles and methods related to the test development process; gaining
experience with the test development process; measurement of higher-order thinking skills and
learning about alternative assessment methods.

ELEP 551 (3+0+0) 3 Credits / 7.5 ECTS
Educational Psychology in Foreign Language Teaching
(Yabancı Dil Öğretiminde Eğitim Psikoloji)
Examining the effects of different factors considering the psychological dimension of foreign language
education, motivation of foreign language learning, anxiety, autonomy in learning, risk taking; the role
of the teacher in supporting language teaching with reference to the relationship between affective
factors and success; discussing ways of preventing negative factors; examining the steps of individual
research; discussing how teachers can carry out self-study for their professional development.

ELEP 552 (3+0+0) 3 Credits / 7.5 ECTS
Using Technology in English Language Teaching
(İngilizce Öğretiminde Teknoloji Kullanımı)
Examining the different stages of innovations and research in the field of technology assisted language
acquisition and teaching; examining the connections between research and innovations and different
language theories; experiencing the appropriate and effective evaluation, selection, adaptation, use
and development of various software and web based resources required for language acquisition,
distance and blended learning in the classroom.

ELEP 553 (3+0+0) 3 Credits / 7.5 ECTS
Reflective Practices in English Language
(İngilizce Öğretiminde Yansıtmalı Uygulamalar)
The importance of reflection in foreign language education and features of reflective practices and
how they can be applied; contribution of reflection to the professional development and teaching of
teachers; reflective application models, student diaries, observation notes, teaching portfolios, video
enriched observations and how to use case studies as reflection tools in English language teaching;
self- reflection, peer reflection; systematic reflection; examining examples of data-based reflection
applications: communicative reflection, animated associations; situation-based reflective practices in
English teaching; reflection practices on micro teaching experiences; promoting reflective thinking
through action research.

ELEP 554 (3+0+0) 3 Credits / ECTS
Pronunciation Teaching and Research in Second Language
(İkinci Dilde Telaffuz Öğretimi ve Araştırma) 
Learning theoretical and practical issues related to teaching pronunciation in the second language;
examining the relationship of pronunciation especially with listening and speaking skills; examining
the approaches and methods to be used in teaching pronunciation to young and adult students; evaluation and measurement of pronunciation; the use of technology in pronunciation teaching, intelligibility, individual differences in pronunciation learning process and the study of research topics in pronunciation; examining the sounds and supersonic elements in English.

ELEP 555 (3+0+0) 3 Credits / 7.5 ECTS
Curriculum Development in Foreign Language Education
(Yabancı Dil Eğitiminde Program Geliştirme)
The philosophical, psychological and social foundations of curriculum development; different program design models; program types used in English language teaching; comparative analysis of English teaching programs used in primary and secondary education; learning the program evaluation methods and approaches.

ELEP 556 (3+0+0) 3 Credits / 7.5 ECTS
Materials Development in English Language Teaching
(İngilizce Öğretiminde Materyal Geliştirme)
Material adaptation for different levels and age groups in English teaching; material development and material evaluation processes; development of materials for different skills and incorporation of integrated all four skill-based materials with technology; evaluation and analysis of currently used materials.

ELEP 557 (3+0+0) 3 Credits / 7.5 ECTS
Drama in English Language Teaching
(İngilizce Öğretiminde Drama)
The use of creative drama in foreign language teaching; drama activities suitable for different age groups; drama activities that can be used in speaking, reading, writing, listening and vocabulary teaching; applications used in drama education in the world; examining the different creative education approaches with the use of drama in teaching different cultures.

ELEP 558 (3+0+0) 3 Credits / 7.5 ECTS
Teaching Foreign Languages to Young Learners
(Çocuklara Yabancı Dil Öğretimi)
Theoretical and practical approaches of teaching foreign languages to young learners; psychological, social, cognitive development features of children; classroom management; teaching foreign language skills to young learners; developing appropriate lesson plan, activities and materials, and evaluation in a foreign language to young learners.

ELEP 559 (3+0+0) 3 Credits / 7.5 ECTS
Professional Development of Language
(Yabancı Dil Öğretmeninin Mesleki Gelişimi)
Developmental processes of foreign language teachers in their professional life; different stages of teacher education; teachers’ cognitive development and beliefs on language teaching; different reflective teaching methods; observation of teaching and feedback process; self-study method as a development process.
ELEP 560 (3+0+0) 3 Credits / 7.5 ECTS
Basic Statistics
(Temel İstatistik)
Basic statistical concepts; grouping data; measures of central tendency, measures of variation and controlling the normality of distributions; correlation, regression, independent samples T test, paired samples T test, Mann Whitney U test, Wilcoxon Signed-Ranks test, one way Analysis of Variance (ANOVA), Repeated Measures ANOVA and Chi-squared test.

ELEP 561 (3+0+0) 3 Credits / 7.5 ECTS
Educational Linguistics
(Eğitimsel Dilbilim)
Examining the use of theoretical linguistics knowledge and skills in the education and training environment of the trainer; ensuring the integration of phonetics, phonology, morphology, syntax, and semantics and pragmatics in linguistics with education.

ELEP 562 (3+0+0) 3 Credits / 7.5 ECTS
Bilingualism and Second Language Acquisition
(Çiftdillilik ve İkinci Dil Edinimi)
The study of bilingualism which embraces language acquisition and bilingual literacy development from linguistic, cognitive, and social perspectives; an extensive examination of bilingualism through the psycholinguistic principles of bilingualism, language and identity, language planning stages along with language preservation and language loss.

ELEP 563 (0+0+0) 3 Credits / ECTS
Language Education Policy
(Dil Eğitimi Politikaları)
Examining language education policy designs and practices in the national and international arena; examining legal, social and political choices in language education policies; studying concepts, theories and methods in the field of language planning and policies; official language decisions of theoretical information, language choices in education and training, literacy initiatives, the effect of language reforms that trigger gender discrimination; foreign/cultural heritage/second language pedagogy and policy; examining local language revitalization efforts and decisions and policies related to other languages at international, national and local levels.

ELEP 591 (0+1+0) 0 Credit / 30 ECTS
Graduate Seminar
(Lisansüstü Semineri)
Research processes including problem determination, data collection, data analysis and interpretation of results; reviewing major scientific research methods such as experimental method, screening method, correlational research method; finding literature on a specific subject, collecting data, evaluating data and implementing report writing techniques; writing an applied thesis supervised by an advisor.
ELEP 592  
Master's Thesis I  
(Yüksek Lisans Tezi I)  
Investigating a subject related to foreign language education in detail in accordance with scientific research processes under the supervision of the advisor; reporting and presenting the obtained results.

ELEP 593  
Master's Thesis II  
(Yüksek Lisans Tezi II)  
Applying the second stage for the completion of the thesis work carried out under the supervision of the advisor.
### INTERACTIVE COMPUTING AND INFORMATION SYSTEMS MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

#### without thesis

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**Graduate Course Descriptions**

**CMPE 523**
(3+0+0) 3 Credits / 7.5 ECTS
Artificial Intelligence

**ICT 590**
(0+0+0) 0 Credit / 15 ECTS
Graduation Project
(Bitirme Projesi)
Development of a research project about interactive computing and information systems. In accordance with the project principles, integrating theoretical knowledge with application.

**ICT 591**
(0+0+0) 0 Credit / 7.5 ECTS
Pre-Thesis Seminar
(Teze Hazırlık Semineri)
Determination of thesis subject, problem definition. Preparatory work for thesis such as literature review, data collection and method research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

**ICT 592**
(0+0+0) 0 Credit / 30 ECTS
Master Thesis I
(Yüksek Lisans Tezi I)
First stage of the M.Sc. thesis performed under supervision of the academic staff.

**ICT 593**
(0+0+0) 0 Credit / 30 ECTS
Master Thesis II
(Yüksek Lisans Tezi II)
Second stage of the M.Sc. thesis performed under supervision of the academic staff.
# MANAGEMENT IN EDUCATIONAL INSTITUTIONS MASTER PROGRAM

(without thesis)

(Language of Instruction: Turkish)

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**Examples from Graduate Course Descriptions**

**MEI 590 (1+4+0) 3 Credits / 15 ECTS**
Graduation Project
(Dönem Projesi)
Developing a proposal or project in the field of administration of educational institution. Preparing oral and written presentation.

**MEI 502 (3+0+0) 3 Credits / 7.5 ECTS**
School Management Practices
(Okul Yönetimi Uygulamaları)
MEI 514 (3+0+0) 3 Credits / 7.5 ECTS
Accounting and Budget Management in Education
(Eğitim Kurumlarında Muhasebe Uygulamaları ve Bütçe Yönetimi)

MEI 512 (3+0+0) 3 Credits / 7.5 ECTS
Strategic Management
(Stratejik Yönetim)

MEI 510 (3+0+0) 3 Credits / 7.5 ECTS
Human Resources Management
(İnsan Kaynakları Yönetimi)

MEI 508 (3+0+0) 3 Credits / 7.5 ECTS
Guidance Services in Schools
(Okullarda Rehberlik Hizmetleri)

MEI 506 (3+0+0) 3 Credits / 7.5 ECTS
Development and Learning
(Gelişim ve Öğrenme)
MEI 504  
Curriculum Development in Education  
(Eğitimde Program Geliştirme)  

MEI 503  
Management of Distance Education  
(Uzaktañ Eğitimniñ Yönetimi)  
A Systems View and Model of Distance Education; Distance Education Technologies and Media in Digital Age; Globalization and Commercialization of Distance Education; Distance Education Marketing; Teaching and Learning in Distance Education; Organizational Structure of Distance Education; Supply Model of Distance Education Organization; Demand Driven Model of Distance Education; Management of Staff in Distance Education; Training and Orientation of Staff in Distance Education; Staff Monitoring and Assessment in Distance Education; Management of Distance Education in Turbulent Periods.

MEI 505  
Digital Marketing  
(Dijital Pazarlama)  
**MECHANICAL ENGINEERING MASTER PROGRAM**
(with and without thesis)
(Language of Instruction: English)

**Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<th>P</th>
<th>L</th>
<th>Cr</th>
<th>ECTS</th>
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**Semester 2**

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**Totals expected for graduation**

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(without thesis)

**Semester 1**

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### Semester 3

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</table>

**Totals expected for graduation**

| | | | | | |
|---|---|---|---|---|
| 31 | 0 | 0 | 31 | 97.5 |

### Graduate Course Descriptions

**GSSE 599**

Research Methods and Academic Publication Ethics
(Araştırma Yöntemleri ve Akademik Yayın Etiği)

- Literature Survey; Establishing the Objective and Scope; Analytical and Experimental Approaches; Design and Evaluation of Questionnaires. Experiment Design. Quantitative and Qualitative Data Analyses; Presentation of Results; Methods of Academic Publication Ethics.

**MATH 501**

Advanced Engineering Mathematics
(İleri Mühendislik Matematiği)


**MATH 502**

Numerical Optimization
(Sayısal Optimizasyon)

- Fundamentals of unconstrained optimization: line search methods, steepest descent, Newton & quasi-Newton methods, conjugate gradient methods; Linear programming : the simplex method, the interior point method; Constrained optimization : quadratic optimization and active set methods, penalty and barrier methods, Lagrange multiplier method; Sequential quadratic programming; Derivative free optimization : derivative free methods (Powell’s and Hooke-Jeeves methods).
ME 433 (3+0+0) 3 Credits / 5 ECTS
Theory of Machines
(Makine Teorisi)

ME 441 (2+2+0) 3 Credits / 5 ECTS
Applied Finite Element Analysis
(Uygulamalı Sonlu Elemanlar Analizi)

ME 453 (3+0+0) 3 Credits / 5 ECTS
Introduction to Aeronautics
(Havacılığa Giriş)

ME 501 (0+0+0) 3 Credits / 7.5 ECTS
Advanced Engineering Mathematics
(Mekatronik Sistemler)

ME 503 (3+0+0) 3 Credits / 7.5 ECTS
Modern Control Engineering
(Modern Kontrol Mühendisliği)
Modelling dynamical systems in state-space, analysis of structural characteristics, controllability, observability, stabilizability, detectability, finding eigenvalues and eigenvectors, design by pole placement using state feedback, observer based state feedback, design of servo systems.

ME 504 (0+0+0) 3 Credits / 7.5 ECTS
Control of Mechatronic Systems
(Mekatronik Sistemlerin Denetimi)
Control hardware and software in mechatronic systems, control of MIMO systems, design of adaptive controllers, design of robust controllers, nonlinear control systems, case studies.

ME 505 (0+0+0) 3 Credits / 7.5 ECTS
Control of Robot Manipulators
(Robot Manipülatörlerin Denetimi)
Kinematics, rigid body dynamics, dynamical analysis of system of rigid bodies, dynamics of serial manipulators, control of manipulators.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS</th>
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<tr>
<td>ME 506</td>
<td>Flying Robotics</td>
<td>(0+0+0) 3 Credits / 7.5 ECTS</td>
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<tr>
<td></td>
<td>Multicopters, novel systems, sensor systems and</td>
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<tr>
<td></td>
<td>the need for estimation, actuator dynamics, 1,</td>
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<tr>
<td></td>
<td>2, and 3 dof models, attitude control, attitude</td>
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</tr>
<tr>
<td></td>
<td>and altitude control, trajectory planning and</td>
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<tr>
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<td>control, swarm of flying robots, flying</td>
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<td>manipulators.</td>
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<td>ME 509</td>
<td>Bioinspired Legged Robotics</td>
<td>(0+0+0) 3 Credits / 7.5 ECTS</td>
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<td>(Biyoeslenmiş Bacaklı Robotik Sistemler)</td>
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<td>Biological motor control, bioinspired central</td>
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<td>and dynamics, bioinspired posture control,</td>
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<td>stability by ZMP technique, quadrupedal walking,</td>
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<td>Rehabilitation Robotics</td>
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<td>mirror therapy, robotic rehabilitation systems,</td>
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<td>exoskeletons and control, robotic mirror</td>
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<td>therapy system for hand rehabilitation.</td>
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<td>ME 511</td>
<td>CAD/CAM for Engineers</td>
<td>(3+0+0) 3 Credits / 7.5 ECTS</td>
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<td>(Mühendisler İçin Bilgisayar Destekli Tasarım ve</td>
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<td>CAD / CAM hardware and software, basics and</td>
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<td>of database, numerical analyses in CAD,</td>
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<tr>
<td></td>
<td>introduction to optimization theory and</td>
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<td>applications to nonlinear engineering problems</td>
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<tr>
<td></td>
<td>with constraints of multidimensional optimization</td>
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<tr>
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<td>algorithms, discussion on the application of</td>
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<td>ME 512</td>
<td>Nontraditional Manufacturing Processes</td>
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<td>ME 515</td>
<td>Flexible forming processes</td>
<td>(3+0+0) 3 Credits / 7.5 ECTS</td>
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<td>(Esnek Şekillendirme Yöntemleri)</td>
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<td>tube spinning and incremental sheet forming.</td>
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<tr>
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<td>Close-loop control of metal forming processes.</td>
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<td>Forming machines.</td>
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ME 516 (3+0+0) 3 Credits / 7.5 ECTS
Precision Machine Design
(Hassas Makine Tasarımı)

ME 518 (3+0+0) 3 Credits / 7.5 ECTS
Fundamentals of Metal Forming
(Metal Şekillendirmenin Esasları)

ME 521 (3+0+0) 3 Credits / 7.5 ECTS
Open Source Tools for Robotics
(Robotik için Açık Kaynak Araçları)
Python, SciCos, OpenCV, Tesseract, Octave. (By using these tools, image processing and speech recognition examples will be focused.) development and modeling of multi-body dynamics (Newton, Euler, and Lagrange). At the end of lecture, students are expected to have programming experience with open source physics solvers (ODE, Bullet, Simbody, DART, Siconos, etc.).

ME 522 (0+0+0) 3 Credits / 7.5 ECTS
Applied Mechanics
(Uygulamalı Mekanik)
Solving advanced dynamics problems using open source tools. Real life problems will be focused especially on modelling and simulation of systems from defence industry.

ME 525 (3+0+0) 3 Credits / 7.5 ECTS
Aerodynamics and Flight Mechanics
(Aerodinamik ve Uçuş Mekaniği)
Fundamentals of aerodynamics, equations of motion, aircraft performance, principles of static/dynamic stability and control.

ME 526 (3+0+0) 3 Credits / 7.5 ECTS
Transducer Materials and Technology
(Transdüser Malzemeler ve Teknolojisi)
Introduction to transducer materials and technology. Classification of transducer materials and their applications. Correlation of material properties with transducer applications. Properties of nano-scaled transducer materials in comparison with their micro- and macro-scaled counterparts.

ME 533 (3+0+0) 3 Credits / 5 ECTS
Advanced Mechanical Measurements
(İleri Mekanik Ölçümler)
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<td>ME 551</td>
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<td>Fluid Mechanics and continuum hypothesis, tensors, fluid kinematics, mass and momentum conservation equations, energy conservation, analytical solutions of NS equations, boundary layer theory and equations, laminar boundary layer equations, Blasius solution, Falkner- Skan similarity solutions, turbulence, turbulent equations, compressible flows, shocks.</td>
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<td>ME 556</td>
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<td>Advanced Thermal System Design</td>
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<td>Engineering design and thermal systems; pipeline systems, flow in pipes; pipe networks; pumps, pump systems and power, mathematical modeling, analysis and simulation of thermal systems; optimization of thermal systems; heat exchangers.</td>
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# MECHATRONICS ENGINEERING MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

## without thesis

### Semester 1

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## with thesis

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### Graduate Course Descriptions

**MATH 501**  
(3+0+0) 3 Credits / 7.5 ECTS  
**Advanced Engineering Mathematics**  
(İleri Mühendislik Matematiği)  

**MATH 502**  
(3+0+0) 3 Credits / 7.5 ECTS  
**Numerical Optimization**  
(Sayısal optimizasyon)  
Fundamentals of unconstrained optimization: line search methods, steepest descent, Newton & quasi-Newton methods, conjugate gradient methods; Linear programming : the simplex method, the interior point method; Constrained optimization : quadratic optimization and active set methods, penalty and barrier methods, Lagrange multiplier method; Sequential quadratic programming; Derivative free optimization: derivative free methods (Powell’s and Hooke-Jeeves methods).

**GSSE 599**  
(1+0+0) 1 Credit / 2.5 ECTS  
**Research Methods and Ethics**  
(Araştırma Yöntemleri ve Akademik Yayın Etiği)  
Literature survey; Analytical and experimental techniques; Design and evaluation of the questionnaire; Design of experiments; Qualitative and quantitative analysis of the data; Presentation of the results; Ethical issues about the academic publications.

**MECE 590**  
(0+0+0) 0 Credit / 15 ECTS  
**Graduation Project**  
(Bitirme Projesi)  
Development of a research project about mechatronic systems. In accordance with the project principles, it is aimed to integrate the theoretical knowledge with application.
MECE 591  
Pre-Thesis Seminar  
(Teze Hazırlık Semineri)  
Determination of thesis subject, problem and research question definition. Preparatory work for thesis such as literature review, hypothesis generation and methodology research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

MECE 592  
Master’s Thesis I  
(Yüksek Lisans Tezi I)  
First stage of the Master’s thesis performed under supervision of the academic staff.

MECE 593  
Master’s Thesis II  
(Yüksek Lisans Tezi II)  
Second stage of the Master’s Thesis performed under supervision of the academic staff.
# MIGRATION STUDIES MASTER PROGRAM

(with and without thesis)

(Language of Instruction: English)

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| Totals expected for graduation | 21 | 0 | 0 | 21 | 120 |

(with thesis)

(without thesis)

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Totals expected for graduation  

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Graduate Course Descriptions

MIGS 501  
(3+0+0) 3 Credits / 7,5 ECTS  
Theories of Migration  
Introduction of the main theoretical perspectives on migration. A brief historical outline beginning with mass migration flows in the latter part of the 19th century leading up to the end of the 20th century. Examination of recent theorizing of transnationalism, forced migration and refugee issues.

MIGS 502  
(3+0+0) 3 Credits / 7,5 ECTS  
International Politics of Migration  
An exploration of the issue of migration with a view to international politics. Delivery of substantive conceptual and historical information on politics of migration. The effects of contemporary (international) political processes and institutions on migration. An account of problems and prospects regarding migration.

MIGS 503  
(3+0+0) 3 Credits / 7,5 ECTS  
Scientific Research Methods and Ethics  
The tools of conducting scientific research and writing in migration studies. Development of the theoretical and practical skills to plan, conduct and analyze a scientific study. Development of ethics insight for scientific research and writing.

MIGS 511  
(3+0+0) 3 Credits / 7,5 ECTS  
Globalization, Multiculturalism and Migration  
An examination of in light of the contemporary debates and discussions around globalization and multiculturalism. The multiculturalist response to migration in various contexts and its criticisms. Citizenship and migration.

MIGS 512  
(3+0+0) 3 Credits / 7,5 ECTS  
Religion and Migration  
An examination of the social and political issues that arise at the intersection of religious identity and migration. The formation of religious identity, religious conflict, and the effects of these processes on migration. Examination of the tension and solidarity amongst different religious groups, and how these affect migration practices.

MIGS 513  
(3+0+0) 3 Credits / 7,5 ECTS  
Social Change  
An examination of the content and context of major theories of social change and development. Evaluation of the relevance of these theories to historical experience in different world regions.
MIGS 514 (3+0+0) 3 Credits / 7,5 ECTS
International Migration in the Contemporary World
Contemporary international migration patterns and trends. Global and local interdisciplinary approaches to migration. Development of academic and practical knowledge base and analytical skills about international migration.

MIGS 521 (3+0+0) 3 Credits / 7,5 ECTS
Intergroup Relations
A general overview to the extant literature on intergroup relations. Major theoretical debates and empirical developments in the area of intergroup relations. The influence of group memberships on cognition, emotion, attitudes, and behavior.

MIGS 522 (3+0+0) 3 Credits / 7,5 ECTS
Collective Emotions
An examination of the role of emotional processes (e.g., intergroup emotions, emotion regulation, emotional preferences) in intergroup relations, intergroup conflict, and social justice. Introduction of discrete emotions and different emotional processes, their comparisons. Application of the knowledge of emotional processes to intergroup conflict, such as migration.

MIGS 523 (3+0+0) 3 Credits / 7,5 ECTS
Immigration and Memory
Examination of how personal events during immigration are remembered, how remembering those experiences affects the way a person perceives his/her life story. The cognitive factors underlying why events during immigration are usually remembered better.

MIGS 524 (3+0+0) 3 Credits / 7,5 ECTS
Collective Memory
An examination of the phenomena of people remembering/forgetting as part of a group - one's country, one's state, one's university, one's family. Collective memories and identity. Knowledge of one's self and interpretation of the world. The reasons as to why we remember or are unable to remember certain collective events more than others. Examination of how and under what circumstances collective memories are transmitted through next generation from a cognitive psychology perspective.

MIGS 531 (3+0+0) 3 Credits / 7,5 ECTS
Racism, Xenophobia and Migration
Nation, race and ethnicity. An examination of prejudice, discrimination, institutional discrimination, racism, "othering", the new "cultural racism", xenophobia and the rise of the radical right. An examination of the challenges towards democracy with the rise of "illiberal democracy". Discussion of new alternatives to overcome these predicaments.

MIGS 532 (3+0+0) 3 Credits / 7,5 ECTS
Gender and Migration
An examination of the gender-blindness of mainstream migration studies. Evaluation of the current trends in migration. Examination of brain drain, care drain, and care chains. Analysis of gender and migration at the personal, domestic, international and global levels with its social, political and economic aspects.
MIGS 541 (3+0+0) 3 Credits / 7,5 ECTS
Economics of Migration
The economic, social, cultural and political contexts of migration. Investigation of the drivers and impact of migration from an economic perspective. Policy recommendations at both national and international level. Examination of the gains from migration and its redistributive welfare effects.

MIGS 551 (3+0+0) 3 Credits / 7,5 ECTS
Migration Law

MIGS 561 (3+0+0) 3 Credits / 7,5 ECTS
Migration and Space
Introduction to Geography of Migration. Space as the Contextual Determinant of Migration. The urban and the country of the migration space; the transitional and the stationary; the temporary and the permanent spaces, the transitional and the final destinations. The social background of migration with its scope, delimitations, impacts, and factors delineating formation of social identities. Memory and remembrances of the evacuated, deserted, left behind spaces; the memory of place; space in collective memory.

MIGS 590 (0+0+0) 3 Credits / 15 ECTS
Graduation Project
Development of a research project about migration studies regarding the academic writing and ethical princip.

MIGS 591 (0+0+0) 0 Credit / 7,5 ECTS
Thesis Preparation Seminar
Determination of thesis subject, problem and research question definition. Preparatory work for thesis such as literature review, hypothesis generation and methodology research. Presentation of thesis proposal as a seminar. Attending seminars organized as part of the program.

MIGS 592 (0+0+0) 0 Credit / 30 ECTS
Master’s Thesis I
Master’s Thesis performed under supervision of an academic staff. This course must be taken in the semester, in which the thesis work commences.

MIGS 593 (0+0+0) 0 Credit / 30 ECTS
Master’s Thesis II
M.Sc. Thesis performed under supervision of an academic staff. This course must be taken in the semesters where the thesis work is done. The thesis must be defended in the written and oral form to a jury.
## CLINICAL PSYCHOLOGY PH.D. PROGRAM
(Language of Instruction: English)

### Semester 1

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**PSY 601** *(2+2+0) 3 Credits / 10 ECTS*

Research Methods in Clinical Psychology  
*(Klinik Psikolojide Araştırma Yöntemleri)*

Covering the correlational, observational, quasi-experimental, and experimental research methods used in the field of clinical psychology. Providing the methodological background of outcome and process studies in psychotherapy researches. Teaching the research methods that are specific to clinical psychology and how to design /conduct a research project. Presenting the methodological problems, new approaches, and future directions related to clinical psychology.

**PSY 602** *(2+2+0) 3 Credits / 10 ECTS*

Multivariate Statistics in Clinical Psychology  
*(Klinik Psikolojide Çok Değişkenli İstatistik)*

Presenting the theoretical and applied multivariate statistics knowledge, which is widely used in the psychology field. Performing the multivariate statistics applications by using programs such as SPSS, Hayes PROCESS macro, AMOS, and Lizrel. Conducting explanatory and confirmatory factor analyses. Performing group comparison analyses such as ANOVA, ANCOVA, and MANOVA. Conducting mediator and moderator analyses. Testing theoretical models by using Structured Equation Modelling.

**PSY 640** *(3+0+0) 3 Credits / 6 ECTS*

Ethical Issues in Clinical Psychology  
*(Klinik Psikolojide Etik Meseleler)*

Conceptualization of ethical problems arising during therapeutic applications and developing necessary skills to overcome such obstacles. Examination of ethical decision making processes in psychotherapy. Gaining insight regarding professional and personal characteristics that might lead to ethical problems during psychotherapy process. Developing awareness with regard to culturally sensitive psychotherapy applications.

**PSY 641** *(3+0+0) 3 Credits / 8 ECTS*

Biopsychosocial models in Psychopathology I  
*(Psikopatolojide Biyopsikososyal Modeller I)*

Examination of the risk factors and etiology of adult psychopathologies in line with neurodevelopmental theories. Discussion of the current empirical evidence related to neurodevelopmental approaches in an integrative approach in the light of recent research.
PSY 642                                                                                                          (3+0+0) 3 Credits / 8 ECTS
Biopsychosocial Models in Psychopathology II
(Psikopatolojide Biyopsikososyal Modeller II)
Investigation of the risk factors and etiology of adult psychopathologies in line with biopsychosocial theoretical frameworks. Discussion of these factors in an integrative approach in the light of positive psychology research.

PSY 646                                                                                                          (2+2+0) 3 Credits / 8 ECTS
Advanced Clinical Assessment
(İleri Düzey Klinik Değerlendirme)
The teaching of current projective (e.g., TAT, Rorschach) and objective (e.g., MMPI) psychological test protocols that widely used in clinical assessment.

PSY 643                                                                                                           (1+4+0) 3 Credits / 6 ECTS
Advanced Clinical Supervision I
(İleri Klinik Süpervizyon I)
Presentation of the cases followed by the supervizees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship, consultation and ethical considerations, under the guidance of a supervisor.

PSY 644                                                                                                            (1+4+0) 3 Credits / 8 ECTS
Advanced Clinical Supervision II
(İleri Klinik Süpervizyon II)
Presentation of the cases followed by the supervizees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship, consultation and ethical considerations, under the guidance of a supervisor. Continuation of Clinical Supervision II.

PSY 645                                                                                                          (1+4+0) 3 Credits / 8 ECTS
Advanced Clinical Supervision III
(İleri Klinik Süpervizyon III)
Presentation of the cases followed by the supervizees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship, consultation and ethical considerations, under the guidance of a supervisor. Continuation of Clinical Supervision II.

PSY 646                                                                                                           (1+4+0) 3 Credits / 8 ECTS
Clinical Supervision IV
(Klinik Süpervizyon IV)
Presentation of the cases followed by the supervizees to the supervisor. Discussion of the issues related to the clinical practice, such as case formulation/management, therapy plan and strategies, therapeutic relationship, consultation and ethical considerations, under the guidance of a supervisor. Continuation of Clinical Supervision III.
PSY 647 (3+0+0) 3 Credits / 8 ECTS
Relational Approaches in Psychotherapy
(Psikoterapide İlişkisel Yaklaşımlar)
To review the effectiveness, efficacy, outcome, and process researches conducted in the field of psychotherapy research in the last 30 years. The Examination of the therapeutic relationship, which is a common factor in different psychotherapies, from neuropsychological and psychodynamic perspectives.

PSY 649 (3+0+0) 3 Credits / 8 ECTS
Community Clinical Psychology
(Toplum Temelli Klinik Psikoloji)
Ecological Model and a critical examination of the broader social context within which psychological problems are embedded; basic premises and theories of community psychology; the impact of stress and social support on people, the importance and value of human diversity; prevention of psychological problems, empowerment of individuals, groups and communities; consultation and community change; psychosocial intervention; the roles of clinical psychologists involved in community work.

PSY 648 (2+1+0) 3 Credits / 6 ECTS
Community Mental Health Project
(Klinik Psikoloji Semineri)
Presenting the theoretical background and current literature related to the specific Ph.D. thesis topic. Discussion of this knowledge and topic from the clinical psychology perspective.

PSY 650 (1+4+0) 3 Credits / 8 ECTS
Community Mental Health Project
(Toplum Ruh Sağlığı Projesi)
Transferring the theoretical knowledge learned in the Community Clinical Psychology course into practice; identifying a problem affecting community mental health; developing a psychosocial intervention or community mental health project to address the problem, project implementation under supervision; conducting an effectiveness study and project report.

PSY 690 (0+0+0) 0 Credit / 1 ECTS
Ph.D. Thesis Topic
(Doktora Tez Konusu Belirlene)
Making necessary reading, discussion, and planning for determining the subject for the doctoral thesis.

PSY 800 (0+0+0) 0 Credit / 15 ECTS
Preparation for PhD Qualifying Exam
(Yeterlik Sınavna Hazırlık)
Preparing for the written and oral exams in the scope of the Ph.D. Qualifying Exam. Preparing for the exam by updating their knowledge of methods, psychopathology, and psychotherapy under the supervision of the academic advisors.
PSY 691 (0+0+0) 0 Credit / 40 ECTS
Seminar and Thesis Proposal (Seminer ve Tez Önerisi)
Finding a specific topic that can bring innovation or fill a gap in the literature for their thesis. To review the literature related to the topic. Creating the research questions and hypotheses. Determining the measurement tools, sample, and procedure of the Ph.D. thesis.

PSY 692 (0+0+0) 0 Credit / 20 ECTS
Ph.D. Thesis I (Doktora Tezi I)
Ph.D. Thesis performed under supervision of the academic staff. This course must be taken during semesters where the thesis work is done.

PSY 693 (0+0+0) 0 Credit / 20 ECTS
Ph.D. Thesis II (Doktora Tezi II)
Ph.D. Thesis performed under supervision of the academic staff. This course must be taken during semesters where the thesis work is done.

PSY 694 (0+0+0) 0 Credit / 20 ECTS
Ph.D. Thesis III (Doktora Tezi III)
Ph.D. Thesis performed under supervision of the academic staff. This course must be taken during semesters where the thesis work is done. The thesis must be defended in written and spoken form in front of a jury.

PSY 660 (0+0+0) 0 Credit / 15 ECTS
Supervised Clinical Internship I (Süpervizyonlu Klinik Staj I)
Supervised clinical practice (internship) in a clinical setting.

PSY 661 (0+0+0) 0 Credit / 15 ECTS
Supervised Clinical Internship II (Süpervizyonlu Klinik Staj II)
Supervised clinical practice (internship) in a clinical setting.

PSY 648 (2+1+0) 3 Credits / 6 ECTS
Psychotraumatology (Psikotraumatoloji)
In-depth examination of concepts and research findings about traumatic experiences from a psychosocial perspective. Understanding individual, familial and societal impacts of crises and traumas. Gaining knowledge and skills with regard to evidence-based psychosocial and therapeutic interventions. Integrating societal and cultural issues while performing clinical evaluations for traumatic events.
PSY 651 (2+1+0) 3 Credits / 6 ECTS
Culturally Sensitive Psychotherapy Applications (Kültüre Duyarlı Psikoterapi Uygulamaları)
Understanding and application of major principles of culturally sensitive psychotherapies. Gaining knowledge and skills in psychotherapy applications conducted with cultural groups having unique psychosocial needs (LGBT+, disabled, cultural minority groups etc). Gaining insight regarding cultural identity and prejudices as a therapist and researcher.

PSY 652 (2+1+0) 3 Credits / 6 ECTS
Marital and Family Therapies (Evlilik ve Aile Terapileri)
Examination of foundational concepts and principles of couple and family therapy from different theoretical perspectives. Differentiating concepts and techniques belonging to distinct family therapy schools. In-depth understanding of the impacts of family process and structure on stress and psychological symptoms. Learning main assessment and intervention principles of major family theory approaches (e.g. System Theory, Structural Family Therapy etc.). Conceptualization of the impacts of changing social, cultural and political dynamics on family structure and therapy.

PSY 653 (2+1+0) 3 Credits / 6 ECTS
Principles of Group Therapy (Grup Terapisinin İlkeleri)
In-depth examination of theoretical premises and application of Group Therapy. Evaluation of group processes and group dynamics from different theoretical perspectives. Gaining ability to decide suitability of group therapy for different psychosocial problems. Experiencing group therapy both as a leader and an experiential participant.

PSY 654 (2+1+0) 3 Credits / 6 ECTS
Group Therapy Practice and Supervision (Grup Terapisi Uygulama ve Süpervizyonu)
Developing skills regarding timing, management and structuring of group sessions in conjunction with skills necessary to manage interpersonal factors. Learning therapeutic methods to monitor and facilitate group relations. Integrating theoretical knowledge with group therapy skills. Developing skills necessary to manage interpersonal and ethical problems in group therapy settings.

PSY 655 (2+1+0) 3 Credits / 6 ECTS
Introduction to Psychodynamic Psychotherapies (Psikodinamik Terapilere Giriş)
Understanding of theoretical premises and application principles of psychoanalytic school of thought from a historical perspective. In depth-examination of Freudian psychoanalysis, Object Relations Theory, Ego Psychology, Self-Psychology and Lacanian perspective in conjunction with the analysis of clinical case examples.
PSY 656 (2+1+0) 3 Credits / 6 ECTS
Play Therapy
(Oyun Terapisi)
Understanding theoretical premises and application of Play Therapy. Use of play as a therapeutic technique in child psychotherapy practices. Comprehensive conceptualization of the interactive relations among therapist, parents and the child during play therapy.

PSY 657 (2+1+0) 3 Credits / 6 ECTS
Positive Psychology
(Pozitif Psikoloji)
Examination of the dynamic relation between positive affect and cognitive processes by means of self-compassion, hope, optimism, mindfulness, creativity, altruism and forgiveness. Understanding of main theoretical concepts of positive psychology including subjective well-being and happiness, dispositional optimism and positive interpersonal relationships. Learning fundamental components of therapeutic applications employing self-compassion and mindfulness.

PSY 658 (2+1+0) 3 Credits / 6 ECTS
Psychopharmacology
(Psikofarmakoloji)
Assessment and identification of psychopathological problems for which psychiatric referral is necessary. In-depth understanding of effectiveness mechanisms and side effects of psychoactive medication use. Conceptualization of impacts of psychoactive medication use on therapeutic process. Examination of the relationship between drug categories and specific mental problems.
ENGLISH
LANGUAGE
SCHOOL
# ENGLISH LANGUAGE SCHOOL (ELS)

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<th>Suzan KOTAN</th>
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## Instructors

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<td>Meriç Bulca</td>
<td>Tony Duane Sturtevant</td>
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<td>Esma Ceren Ocak</td>
<td>Mert Deniz</td>
<td>Wendy Laura Phillips</td>
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<td>Esra Erzen</td>
<td>Metin Halis Kaya</td>
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<td>Esra Ordu</td>
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<td>Esra Sansu</td>
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<td>Fatih Ekinci</td>
<td>Naile Buluç</td>
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The Mission of English Language School

The aims of ELS program are as follows:

- To provide high quality language education
- To equip our students with English language skills necessary for undergraduate studies at TEDU and future professional lives
- To help students develop critical, reflective and creative thinking skills
- To help students become independent individuals

Our Philosophy of Education

The educational principles of TEDU English Language School are:

- To make learning meaningful
- To ensure active participation of students
- To be guiding and facilitating trainers
- To apply different learning styles
- To emphasize independent learning
- To mentor learners
- To provide students with continuous feedback

STRUCTURE OF THE PROGRAM

1. ELS LANGUAGE PROGRAM

The Program at the English Language School runs on a semester-based system which encourages student motivation and enables students to fully acquire the necessary skills. Our program comprises of 4 levels that are D, C, B and A.

- At the end of the program, students are required to have 60 out of 100. If they are successful, they go on to the higher level.

- Students placed in D, C or B level will be placed in a higher level in the next semester on condition that they collect 60 out of 100 at the end of the semester. For these students to be able to move on to their departmental studies at the end of spring semester, 30% of the score that they have collected during the semester and 70% of their EPE scores must sum up to 65 or higher. For students placed in the A level at the beginning of the fall semester to be able to move on to their departmental studies at the end of the fall semester, 30% of the score that they have collected during the semester and 70% of their EPE scores must sum up to 65 or higher.
• Each student will be provided the opportunity to start his/her undergraduate studies within a year. Students who are not able to pass on to their undergraduate studies the first year, may attend our school for another semester or year depending on their level.

2. LEVEL DESCRIPTIONS

The number of sessions for each level is the same;

• D Level: 20 hours per week
• C Level: 20 hours per week
• B Level: 20 hours per week
• A Level: 20 hours per week

Students who are able to successfully complete their education at ELS with a high level of English are eligible to;

• Understand and take notes by differentiating the main idea and details of academic sessions, texts and speeches while listening.
• Summarize academic sessions, texts and speeches by using the notes they have taken.
• Ask and answer questions considering the academic sessions, texts and speeches they listen.
• Read texts and summarize the important ideas.
• Use critical thinking skills to synthesize and summarize reading and listening texts.
• Synthesize reading and listening texts in their own words.
• Express themselves in written and spoken forms by using wide range of vocabulary and grammar points.
• Make speeches concerning academic content and communicative purposes.
VII. ACADEMIC RULES AND REGULATIONS
ACADEMIC RULES AND REGULATIONS FOR UNDERGRADUATE STUDY

(Turkish version is the legally binding document)

PART ONE

Aim, Scope, Basis and Definitions

Aim

ARTICLE 1 - (1) The aim of the rules and regulations herein are to regulate the procedures and principles with regard to registration, education, examination and graduation of the students attending undergraduate programs at the faculties of TED University.

Scope

ARTICLE 2 - (1) The rules and regulations herein cover the principles of admission and registration, examination, assessment of achievement, provision of diplomas and other related procedures pertaining to undergraduate study at the faculties of TED University.

Basis

ARTICLE 3 - (1) The rules and regulations herein have been based on Articles 14, 43 and 44 of the Higher Education Law No. 2547 dated 4/11/1981.

Definitions

ARTICLE 4 - (1) These terms shall have the following meanings heretofore;

a) Relevant board : TED University Faculty board(s)
b) Relevant executive board : TED University Faculty Executive Board(s)
c) Board of Trustees : TED University Board of Trustees
d) Rector : TED University Rector
e) Senate : TED University Senate
d) University Executive Board : TED University Executive Board
f) University : TED University

PART TWO

Academic Calendar, Education Programs, Duration of Education and Tuition Fees

Semester System and Academic Calendar

ARTICLE 5 - (1) Undergraduate study is arranged on the basis of semesters.

(2) The academic year consists of 14 weeks for both fall and spring semesters, excluding the final examination period.

(3) In addition to fall and spring semesters, a seven-week summer session is organized upon the decision of the Senate and the approval of the Board of Trustees. The principles and procedures applicable to the summer session are determined by the Senate.

(4) The dates and duration pertaining to all educational activities are included in the academic calendar prepared by the Senate.
Quotas and Education Programs

ARTICLE 6 - (1) The number of students with or without scholarship to be admitted to faculty degree programs in the subsequent academic year is determined by the Board of Trustees upon the proposal of the university Executive Board and is finalized with the approval of the Higher Education Council.

(2) The competencies expected from a student who graduates from a diploma program and the educational programs composed of courses, laboratory work, internship and similar activities are prepared by the respective administrative boards and approved by the Senate.

(3) All changes in curricula for the subsequent academic year are determined, finalized and announced by the end of June every year in accordance with the same procedures and principles.

Medium of Instruction

ARTICLE 7 - (1) The medium of instruction in TED University undergraduate programs is English. However, as required by Higher Education Law No. 2547, mandatory courses to be given in Turkish, as well as other courses determined by the Senate, are taught in Turkish and are specified as such in the University Catalog.

Duration of Study

ARTICLE 8 - (1) The regular teaching period at the English Language School preparatory program is two semesters. For elementary level students, the period includes a pursuant summer session, in addition to the two semesters. Students whose level of English is deemed insufficient at the end of this period are entitled to study English one more year.

(2) The undergraduate study is normally eight semesters at the faculties of the University.

Student Advisors

ARTICLE 9 - (1) For each student enrolled at TED University, a faculty member is appointed as an advisor by the relevant department chair. The duty of the student advisor is to follow up on the academic performance, to assist in the scheduling of the student’s education program, and to guide the student within the framework of regulations and directives.

Tuition Fees

ARTICLE 10 - (1) Undergraduate study at TED University is subject to tuition fees. The fees are determined annually by the Board of Trustees.

(2) Students who fail to pay the annual tuition fee by the announced due dates are not registered, their registration is not renewed and leave of absence requests are not granted. These individuals are not able to benefit from the rights of students.

Scholarships

ARTICLE 11 - (1) Except for students who are placed with scholarships in various programs of the university by the Student Selection and Placement Center (SSPC), the principles on distribution of the additional scholarships and financial assistance provided to the students from various sources are determined by the Senate.
Admission of New Students

ARTICLE 12 - (1) The admission of students to the first year of undergraduate programs is done in accordance with the results of the annual examination carried out by the Student Selection and Placement Center.

(2) Admission of international students is done with the decision of the relevant executive board within the framework of the regulations and decisions of the Higher Education Council, within the provisions of higher education law and in accordance with the conditions outlined by the Senate.

(3) Transfer students placed at other universities by SSPC can be exempted from the courses they have successfully completed in these universities with the decision of the relevant executive board, provided that they submit an application in the first week of the academic year. In case of approval of course exemption, the student’s grade for the relevant course is indicated as “T”.

Admissions via Horizontal or Vertical Transfer

ARTICLE 13 - (1) Admission to TED University undergraduate programs is open to students from other national and international higher education institutions via horizontal or vertical transfers.

(2) The quotas of such transfers are determined with the approval of the Board of Trustees upon the proposal of the university Executive Board. It is also determined within the provisions of the Rules and Regulations No: 27561 on the “The Regulation for Student Transfer Between Associate Degree and Bachelor’s Degree Programs, Double Major and Minor Programs and Course Credit Transfers Between Institutions of Higher Education Institutions”, published in the Official Gazette on 24/4/2010.

(3) Candidates applying for horizontal or vertical transfer are required to fulfil the English proficiency requirements set for candidates starting undergraduate programs of the university.

Horizontal Transfers within the University

ARTICLE 14 - (1) In horizontal transfers within the university, students are required to have completed the first two semesters satisfactorily (excluding the language preparatory program), not have been dismissed from the university for any reason, and to fulfil the requirements of The Regulation for Student Transfer Between Associate Degree and Bachelor’s Degree Programs, Double Major and Minor Programs and Course Credit Transfers Between Institutions of Higher Education Institutions, in addition to the conditions determined by the Senate if applicable.

Special Students

ARTICLE 15 - (1) Students or graduates of other higher education institutions can be accepted as special students in undergraduate courses in order to develop their knowledge and skills on a specific subject.
(2) Candidates applying to take courses with special student status are required to fulfil the requirements set for English proficiency necessary for study at the undergraduate programs of the university.

(3) The application, courses and total course hours of special students are decided on by the relevant executive board, taking the opinion of the relevant department’s chair into account.

(4) Neither diplomas nor credits are awarded to special students. A document indicating the courses taken and their grades is given upon their request.

(5) Special students pay a tuition fee on the basis of the courses they attend in accordance with the principles determined by the Board of Trustees.

Exchange Programs

ARTICLE 16 - (1) TED University can arrange student exchange programs with national and international universities, can send students to other higher education institutions for a maximum of two semesters within the scope of these programs and can receive students from other higher education institutions.

(2) Student exchange is possible within the framework of the basics set forth in the Regulation for Student Transfer Between Associate Degree and Bachelor’s Degree Programs, Double Major and Minor Programs and Course Credit Transfers Between Institutions of Higher Education Institutions, in addition to the conditions determined by the Senate with the decision of the Executive Board of the relevant faculty or higher school.

(3) The students sent to other higher education institutions within the scope of exchange agreements continue to be enrolled at TED University during the period they spend in the exchange program.

(4) Students are not eligible for exchange programs in the final semester of their senior year.

(5) Credit and grade matching of the courses the students have taken in other higher education institutions with their advisor’s approval, within the scope of exchange agreements, is done with the decision of the relevant executive board.

(6) All exchange students pay the tuition fee required by the higher education institutions that they are registered in.

English Proficiency Examination

ARTICLE 17 - (1) The students who complete their registration take the English Placement Examination given by the English Language School.

(2) The students who score higher than the predetermined level in that examination enter the English Proficiency Test.

(3) The students who score lower than the predetermined level attend the level determined in accordance with their performance, and the weekly course hours and rules of changing levels are determined by the English Language School.
(4) The students who fail the English Proficiency Examination continue in the English Preparatory Class for one year. The principles of teaching at the English Preparatory Class is determined by the Senate.

(5) National and international tests equivalent to the English Proficiency Examination can exempt students from enrolling in the university preparatory program and the minimum scores necessary for exemption are determined by the Senate.

(6) Students who provide documentation of the required level of success determined by the Senate directly start the undergraduate programs.

(7) Undergraduate students with gaps in their education of two consecutive years or four semesters due to reasons such as leave of absence, failure to renew registration, etc., are required to prove their competency through the English Proficiency Examination or through an equivalent test approved by the Senate. However, for those who spent the relevant time in national or international English medium higher education institutions, such a condition is not be applicable.

Initial Registration

**ARTICLE 18** - (1) The students admitted at the University are required to obtain the necessary documents announced for registration and to register personally at the University within the time period indicated in the academic calendar.

(2) Candidates who cannot register individually due to valid reasons might have their initial registration processed through a legal representative.

(3) Candidates who fail to complete registration in the required time lose their registration rights.

(4) Registration of candidates with missing or damaged documents or candidates expelled from any higher education institution as a penalty is annulled.

(5) At registration, originals or copies approved by the university are accepted. For military status and judicial records, the declaration of the candidate is valid.

Renewal

**ARTICLE 19** - (1) At the beginning of each semester, the students of the university are required to renew their registration within the time period indicated in the academic calendar prepared by the Senate and announced by the Rector’s Office. This process involves selecting courses under the guidance of their advisors, paying the relevant tuition fees and completing other liabilities to the university.
PART FOUR

Undergraduate Programs

Curricula and Course Loads

ARTICLE 20 - (1) The courses to be taken by the students in each semester consist of required and elective courses, laboratory, practice, project, thesis and similar studies.

(2) Required courses are the courses that the student is obliged to take, whereas the electives are the courses that the student selects from among various groups of courses.

(3) The courses in the curriculum are taken in accordance with the course hours, credits and prerequisites, if any, within the framework of the below mentioned conditions:

a) Students taking courses for the first time or repeating courses from previous semesters are required to first register for these courses. If these courses to be repeated or to be taken for the first time are in the same semester, students need to take the ones from the earliest semester.

b) “F” and “FX” grades show that the student has failed that course. The students with these grades are required to repeat the course upon the first availability of the mentioned course, if it is a program requirement.

c) Students who do not fulfil the prerequisites of a course are not registered for the course.

c) In case of multiplicity or conflict of the courses a student should take or repeat it is possible not to take some or all of the courses in the curriculum of that semester.

d) The students are able to add or drop courses within the period indicated on the academic calendar. Add/drop is subject to the conditions applicable for regular registration such as prerequisite courses, maximum course load, minimum required course load and conflicting courses. The add/drop period shall not exceed two weeks following the start of the semester. Students are not able to drop the courses they are repeating from the semester of their earliest “F” or “FX” grade(s).

e) Prior to the deadline of the withdrawal period indicated on the academic calendar, students are able to withdraw from a maximum of two courses in a given semester and a maximum of six courses throughout their education. These students receive a “W” for these courses. The approval of the student’s advisor is required for withdrawal. No refund is given for fees related to “W” courses. Students are not able to withdraw from the required courses being repeated from the earliest semester and from courses with the grade of “F” or “FX”. The mark of “W” does not hinder graduation. Students are not able to withdraw from courses in the last four weeks of the semester.

Course and Credit Loads

ARTICLE 21 - (1) The number of examinations, practical assignments and other assignments that are the students’ responsibilities for each course, the contribution of these to the final grades and the requirements of the final exam are determined by the instructor and disclosed to the students at the onset of the semester.

(2) Depending on the characteristics of a course, a final exam may be excluded, upon the approval from the relevant Executive Board.
(3) The regular course load advised to students is equal to the average number of credits per semester in a given program, plus or minus two credits. The average number of credits per semester is calculated by dividing the total number of credits in the curriculum by 8.

(4) The course load of a student can be increased or decreased with the approval of the student’s advisor. However, students registered for the first time in the first semester of a diploma program are not able to exceed the regular course load of that semester. Exceeding the regular course load (i.e. overloading) by 8 credits is not allowed. The minimum course load is 9 credits per semester, which can be reduced to 6 credits with the decision of the relevant Executive Board. The students who are expected to graduate in a maximum of two semesters are not subject to that condition.

Late Registration and Unregistered Student Status

ARTICLE 22 - (1) Students who fail to register by the designated registration dates may also register late during the add/drop period stated in the academic calendar. Students who also fail to register before the end of the add/drop period are not registered unless they can show valid acceptable reasons for the delay, to be approved by the relevant executive board within two weeks of the end of the add/drop period. Moreover, students registering late are obliged to fulfil the additional requirements determined by the Senate.

(2) Students who do not renew their registration become unregistered students. Unregistered students cannot enjoy the rights to which registered students are entitled to. The period spent while a student is unregistered is included in the term of study. Unregistered students may reactivate their registrations in the following registration period. Students wishing to reactivate their registrations will have to pay the tuition fee for the year and are not able to benefit from any TEDU scholarships they were previously awarded.

Attendance

ARTICLE 23 - (1) Students must attend the theoretical and practical class hours, examinations and other academic studies as required by the instructors.

(2) The attendance requirements will be announced by the instructor at the beginning of the semester.

Summer Internship

ARTICLE 24 - (1) For programs that require summer internship, the rules of conduct of the summer practicum are determined and declared by the Senate.

Double Major and Minor Programs

ARTICLE 25 - (1) The Senate might open double major and minor programs. The regulations governing these programs are determined by the Senate.
PART FIVE
Assessment

Examinations

ARTICLE 26 - (1) Each semester ends with an examination period known as the final examination period. Final examination periods are announced in the academic calendar.

(2) The final exam dates are announced at least four weeks before the final examination period of fall and spring semesters and two weeks before the final exam period of summer session.

(3) At least one midterm exam and one final exam are given for each course.

(4) The instructor may assess the assignments, laboratory practices and similar activities as midterm or final exam.

(5) The courses for which no midterm or final exam will be given are decided on by the relevant faculty boards.

(6) The excuse of a student, who could not attend the final exam due an illness or other hardship, will be investigated by the University Plea Committee. If the committee accepts the student’s excuse, the student will be entitled to a make-up exam. The excuse of a student failing to attend a midterm examination will be directly evaluated by the instructor of the course. If the instructor accepts the excuse, the student will be entitled to make up for the unattended midterm. These students may be entitled to make-up exams, or weight adjustments of the final exam, or assignment of an additional project/essay or similar procedure.

(7) Instructors are expected to submit letter grades to the Rector’s Office and Registrar’s Office information system within one week of the course final exam date.

(8) Once recorded by the Registrar’s Office, letter grades may only be altered if a written explanation, together with supporting documentation, is submitted by the course instructor to the dean’s office of the relevant department. This application is evaluated by the executive board of the relevant faculty. Upon approval, the registrar will make the necessary correction to the student’s academic record, provided the procedure is completed before the end of the next registration period.

(9) Exam papers and student answers will be kept on file by the university for at least two years following the term in which the course is offered.

Grade Appeals

ARTICLE 27 - (1) Students may request their instructor to review a grade for any exam in a course within one week after the grade announcements. If the appeal is rejected, students may submit a written appeal to the dean’s office of the department by which the course is offered. The relevant board may, in turn, designate a review committee consisting of three members to make the final decision. If the decision is in favor of changing the result of the exam and if this requires a change in the final semester course grade of the student, the final grade is changed. For courses not offered by the faculties, the Rector’s Office and the university Executive Board bear the responsibility of the review process explained above.
Letter Grades and Marks

ARTICLE 28 - (1) For each course taken by the student, as a result of the required exams or similar evaluations, one of the following grades is given by the course instructor:

<table>
<thead>
<tr>
<th>Grades</th>
<th>Status</th>
<th>Grade Point Value</th>
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</thead>
<tbody>
<tr>
<td>AA</td>
<td>Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>BA</td>
<td>Good-excellent</td>
<td>3.50</td>
</tr>
<tr>
<td>BB</td>
<td>Good</td>
<td>3.00</td>
</tr>
<tr>
<td>CB</td>
<td>Satisfactory-good</td>
<td>2.50</td>
</tr>
<tr>
<td>CC</td>
<td>Satisfactory</td>
<td>2.00</td>
</tr>
<tr>
<td>DC</td>
<td>Weak-satisfactory</td>
<td>1.50</td>
</tr>
<tr>
<td>DD</td>
<td>Weak</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0.00</td>
</tr>
<tr>
<td>FX</td>
<td>Failing</td>
<td>0.00</td>
</tr>
<tr>
<td>P</td>
<td>Passing</td>
<td>-</td>
</tr>
</tbody>
</table>

a) Letter grades “AA” and “BA” indicate that the course was completed with “outstanding achievement”

b) Letter grade “CC” indicates that the course was completed with “satisfactory achievement”

c) Letter grades “DC” and “DD” indicate that the course was completed “conditionally”

c) Letter grade “F” is a failing grade and assigned to students who could not reach the level of “DD” or “P.”

d) Letter grade “FX” is assigned to students who have failed to attend classes or failed to participate in the midterm exam, final exam, term project or in similar major course assessment activities

e) Students who receive grades “F” and “FX” for a required course are required to repeat the course upon its first availability in a regular term. The summer session is not a regular term in this context.

Other Grade Symbols Used

ARTICLE 29 - (1) Other than the letter grades mentioned in Article 28, the following grades can be used under certain circumstances explained below.

| T   | The letter “T” (Transfer) is assigned for those courses taken at another university by students transferring to TEDU or by TEDU exchange students who studied abroad. Such courses taken at another university are transferred as credit only, not for a grade, and must be approved by the relevant faculty board as equivalent in content to a course in the pertinent academic curriculum of TED University. |
| NC  | The letter “NC” (Non-Credit) is given for completed courses not included in the calculation of grade point average |
| NP  | The letter “NP” (Not Present) is given to students who did not take the final exam. In cases when this letter is given, the course instructor is expected to convert it to a letter grade before the deadline for make-up grade entries. In case of failure to convert it to a letter grade within the required period, the letter “NP” will automatically turn into a letter grade “F.” |
The letter “I” (Incomplete) is given to students who cannot complete the course requirements, like projects or term papers, by the end of the semester or the summer session for a reason accepted by the course instructor. The letter “I” must be converted to a letter grade within two weeks of the deadline for grade submission to the registrar. In case of failure to convert the letter “I” to a letter grade within the required period, it will automatically turn into a letter grade “F”.

The letter “R” (Repeat) indicates a repeated course.

The letter “W” (Withdrawal) is given to students who withdraw from a course within the withdrawal period mentioned in the academic calendar.

The letter “L” (Leave) is given to students on leave.

Grade Point Averages and Academic Standings

ARTICLE 30 - (1) Academic standings of the students are determined by calculating their grade point averages at the end of each semester.

(2) The total credit points obtained from a course are calculated by multiplying the course’s number of credit hours and the grade point value of the final letter grade received. (See chart in Article 28.)

(3) Semester Grade Point Average (SPA) is calculated by dividing the total credit points obtained from all the courses a student has taken in the pertinent semester by the total number of credit hours received in those courses.

(4) Cumulative Grade Point Average (GPA) is calculated by taking into consideration all the courses a student has taken since the beginning of the program. If there are repeated courses, the last grade obtained from the course, replaces the previous grade and is included in the grade point average calculation.

(5) Calculated semester and cumulative grade point averages are rounded to two decimal places.

(6) Students may repeat courses for which they have received a letter grade “DD” and/or “DC” in order to raise their grade point averages. Courses with letter grades “CC” and above cannot be repeated.

(7) Students with cumulative grade point averages of 2.00 and above are in good academic standing.

(8) Students with cumulative grade point averages less than 2.00 are placed on academic probation; probationary students are not entitled to course overload. These students must first repeat the courses from which they have received conditionally passing grades (“DD” or “DC”) to raise their grade point averages.

(9) Course overloads of students in good academic standing and mandatory course repeats of students on probation are regulated on the basis of the principles determined by the Senate.

(10) Every semester, students with SPAs between 3.50 and above qualify as “High Honor” students. Those with SPAs between 3.00 and 3.49 qualify as “Honor” students, provided they have taken the regular course load and have a cumulative GPA of 2.00 or above.
PART SIX

Leave of Absence / Withdrawal from University

Leave of Absence

ARTICLE 31 - (1) With the condition of provision of necessary documents, students may apply for leaves of absence due to health related matters, military service, education abroad or other academic, financial or familial obligations, as well as other extraordinary reasons accepted by the university Executive Board.

(2) The application for leave of absence must be submitted to the dean's office of the relevant faculty by a petition with supporting documents any time up to and including the last working day of the fourth week following the start of the classes. Applications after the end of this period are not processed. The request for leave of absence is granted upon the approval of the relevant faculty executive board.

(3) In the case of immediate sickness, a serious accident or other extraordinary circumstances occurring after the end of the application period for leave of absence, the status of the student is evaluated by the university Executive Board.

(4) Students are entitled to leave the university for a maximum of two consecutive semesters and four semesters in total during their term of the study. In obligatory situations upon the proposal of the relevant faculty executive board the term can be extended with the decision of the university Executive Board.

(5) Students requesting leave of absence from the university must pay half the tuition fee of the pertinent semester and clear all their debts to the university prior to the activation of the process. The tuition fees paid for the period of leave will not be deducted from the following semester’s fees. Students considered on approved leave upon the decision of the University Executive Board after the indicated deadline, have to pay the tuition fee for the respective semester.

Withdrawal from University

ARTICLE 32 - (1) Students who wish to withdraw from the university must apply in writing to the relevant dean’s office and follow the procedures required by the university. These students must fulfil their tuition fee and other financial obligations in order to receive their high-school diplomas and other related personal documents from the registrar’s files. If requested, students can be given a document indicating their grades. The notarized copies of the high-school diploma and other documents required at the stage of registration will be kept on file in the Registrar’s Office.

(2) If the student’s withdrawal request is received prior to the start of courses, the student is not obliged to pay any tuition fee. Fifty percent of the tuition fee paid for the pertinent semester will be refunded to the student if the withdrawal request is filed any time up to and including the last working day of the fourth week following the start of the classes in a regular semester or the second week following the start of courses in the summer session. In all other cases, no refund will be made by the university.
PART SEVEN
Graduation

Special Requirements

ARTICLE 33 - (1) Apart from maintaining the required satisfactory grade point averages, students must spend their last semester, excluding the summer session in TEDU. At least half of the total credit points required by the curriculum must be obtained from courses completed at TEDU.

Diploma and Honors Documents

ARTICLE 34 - (1) Students who successfully complete all courses in the undergraduate program in which they are registered with a cumulative grade point average of at least 2.00 are eligible, with the condition of fulfilling the other graduation requirements, to receive the “Undergraduate Diploma of TED University” upon the decision of the relevant executive board.

(2) Students with a grade point average of at least 2.00 but failing to fulfil the graduation conditions due to “F” (not valid for FX) letter grades in a maximum of two courses, may be given the opportunity to take an exam or to undertake an equivalent academic project by the relevant executive board, upon the favorable opinion of the relevant instructor. With this exam or project, the student can compensate for the letter grade(s) of “F” without repeating the course(s).

(3) Students who complete their undergraduate education within 9 semesters or less with cumulative grade point averages between 3.00 and 3.49 graduate with “Honor,” and the ones with cumulative grade point averages of 3.50 or above graduate with “High Honor.” Students who receive disciplinary penalties during the course of their education in the university, however, are not entitled to such status. Students graduating with “Honors” and “High Honor” graduates are issued an honorary certificate indicating their status along with their diplomas.

(4) The requirements for diplomas and graduation of students earning double major or minor degrees are determined by the Senate.

(5) In the event that a diploma is lost, a new copy is issued only once, provided that the fee is paid and a lost notice is published in the national press. The new copy is printed with the phrase “second copy” on it.

ARTICLE 35 - (1) An “Associate Degree Diploma” is awarded to students who choose to leave the university or are expelled from the university without completing their degree program, but have completed all the courses of the first four semesters or at least half of the total credit of the programs that they are registered in with a grade point average of at least 2.00

Discipline

ARTICLE 36 - (1) The disciplinary proceedings of students are conducted in accordance with the “Rules and Regulations Governing the Disciplinary Procedures in Institutions of Higher Education” published in Official Gazette issue 18634, dated 13/1/1985.
PART EIGHT
Execution and Enforcement

Enforcement

ARTICLE 37 - (1) These regulations come into effect on the date of their issue.

Execution

ARTICLE 38 - (1) These regulations are executed by the Rector of TED University.

i. University Senate Decision 29.08.2012 – No.2012/5:

The minimum number of students for opening an elective course is 10. This number is 15 for the first year and second year service courses. This criteria is not valid for the establishment period (until the first graduates). For the summer school the designation of the tuition fee and the minimum number of students for opening a course is done according to the current budget limitations. These rules are defined and announced each year along with the summer school decisions.

ii. University Senate Decision 01.08.2013 – No. 2013/6:

The tuition fee payments done after the deadline announced in the Academic Calendar will be subject to a surcharge of 30TL per each business day (the respective payment continues until the end of add/drop period).

iii. University Senate Decision 29.08.2012 – No. 2012/5:

Compulsory course repetition for probation students: The new course registration of probation students are limited after the first two semesters in order to allow them to increase their grade point averages due to F, FX, DD and DC. The students who can not achieve the satisfactory status due to lack of credits, repeat the courses in which they have received F, FX, DD and DC letter grades. However if there are no courses they were graded with F, FX, DD, DC they can register to new courses if their course load allows.

The satisfactory status is defined as,

GNO=1.60 for students with 50 credits or less,
GNO=1.70 for students with 51-100 credits,
GNO=1.80 for students with 101 and more credits

Credit means “credits completed”.

Excessive course load: The students receive a package program on their first semesters, there is no possibility for excessive course load. Probation students can not exceed the normal course load. 8 credits over the average course load is not allowed.
University Senate Decision 29.08.2012 – No. 2012/5 No (Correction of the error of fact):

The students whose general point average is between 3.00-3.49 are awarded as Honor, those who achieve a general point average of 3.50 and above are awarded as High Honor Students with the pre-condition of being registered to normal course load each semester.

i. The Senate decision dated 01.12.2016 and numbered 2016/14: “The request to extend the deadline to change the grading period for I-incomplete grades, for courses not changed into letter grades within 15 days, to the beginning of the following semester’s registration period at the latest by a relevant board decision”.

It was decided that the grading period for I-incomplete grades, for courses not changed into letter grades within 15 days, could be extended to the beginning of the following semester’s registration period at the latest by a relevant board decision.

i. Senate Decision dated 01.06.2017 and numbered 2017/06: IP (In Progress) grade is given to students who are successfully continuing non-credit courses (except the Master’s Thesis course).