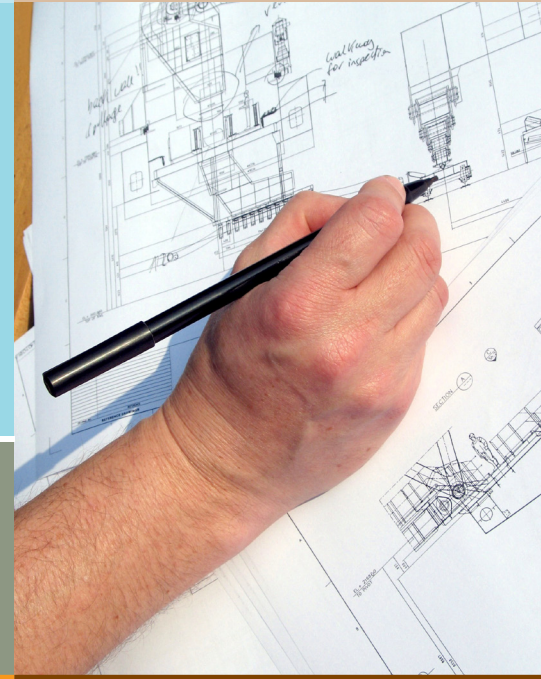




**Eastern
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"For Your International Career"

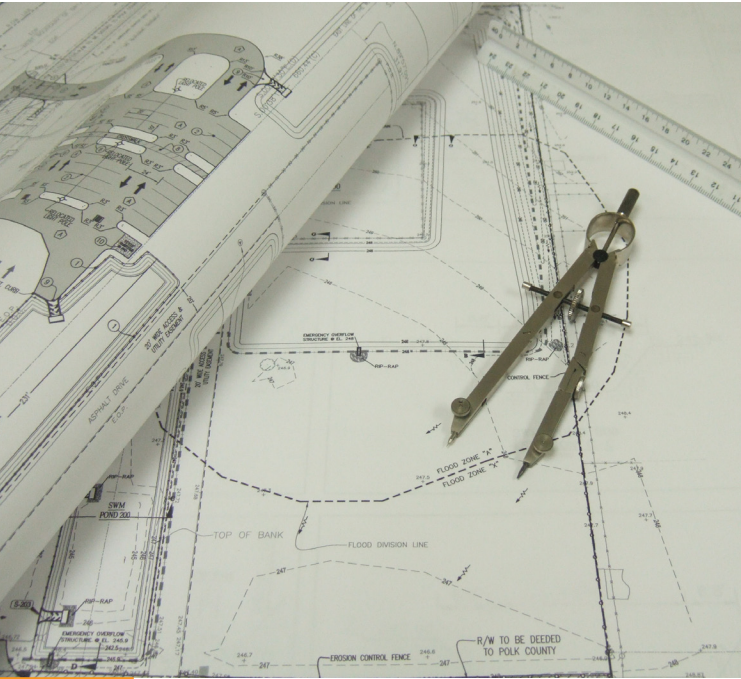
Faculty of Engineering



PROGRAMS

*Civil Engineering Undergraduate Program
Computer Engineering Undergraduate Program
Electrical & Electronic Engineering Undergraduate Program
Industrial Engineering Undergraduate Program
Information Systems Undergraduate Program
Mechanical Engineering Undergraduate Program
Mechatronics Engineering Undergraduate Program
Software Engineering Undergraduate Program*

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Civil Engineering

Undergraduate Program

The Civil Engineering Department is dedicated to educate students at a level where they will have adequate depth and breadth of knowledge to be competitive in industry, public service and academia. Department provides services to the university, industry and the public by increasing their awareness and helping in their development via state-of-the-art research.

Teaching / Learning

The Department of Civil Engineering offers undergraduate and graduate programs leading to the degrees of Bachelor of Science in Civil Engineering (BS), Master of Science in Civil Engineering (M.S.), Master of Science in Construction Technology and Management (M.S.) and Doctor of Philosophy (Ph.D.), in Civil Engineering. The undergraduate curriculum is designed to prepare students for professional practice by equipping them with skills and qualifications to tackle problems in their professional life. In order to qualify as a successful student during the four-year undergraduate program, an interest in subjects such as maths, engineering, computer and environment is essential. The MS program in Civil Engineering is based on coursework totalling a minimum of 21 credit-hours and the thesis study. The PhD program requires a minimum of 18 credit-hours and the preparation of the PhD thesis.

Departmental Facilities

Sophisticated and well-equipped Hydraulics, Geology, Transportation, Construction Materials, Structural Mechanics, Construction Technology and Management, Soil Mechanics and Computer laboratories play a major role in the professional and practical development of our students. Engineering Economy, Construction Technology and Management, and Structural Design are among the courses offered during the second half of the curriculum to help students get prepared for the professional-life. Students are encouraged to work on projects as much as possible. The aim of the courses and projects in the senior year is to equip students with the necessary know-how and skills that will be essential in their future careers.

Activities / Major Accomplishments

Department of Civil Engineering organizes seminars aiming to improve students' practical knowledge. In addition to these seminars and meetings, the Department continuously hosts international conferences (e.g., Conference on Advances in Civil Engineering in 2008, the European Union Chamber of Civil Engineers' Association Annual Meeting). Every spring semester, the department organises the traditional Civil Engineering Week. Throughout the week distinguished graduates of the department are invited to give speeches and exchange their experiences with the students.

Department has strong research in various areas of Civil Engineering. The department houses the following research centers conducting research for the University, government, local or private organizations: Building Sciences Research Center (BSRC) , Water and Marine Sciences Research and Practice Center and Traffic Education and Research Center.

About the Degree Program

During the first two years of study, the undergraduate curriculum is designed to prepare students for professional practice by developing a solid foundation in Physics, Chemistry, Mathematics and English as well as courses on civil engineering drawing and Introduction to Civil Engineering. The second year is basically devoted to fundamentals of civil engineering. During the third and the final years, the students are exposed to several disciplines in Civil Engineering. They have the opportunity to choose relevant technical courses based on the area of interest.

Career Opportunities and Graduates

As the medium of instruction is English, graduates will have worldwide job and postgraduate study opportunities. Civil engineering education will give the students the skills, information, and experience to be able to work in different fields. Some of our undergraduate and MS graduates are currently pursuing their education in reputable universities in different countries while the others found jobs in well-established firms and institutions.



Academics

Prof. Dr. Ali Günyaktı
 Assoc. Prof. Dr. Özgür Eren
 Assoc. Prof. Dr. Zalihe Nalbantoğlu
 Assist. Prof. Dr. Huriye Bilsel
 Assist. Prof. Dr. Müriide Çelikağ
 Assist. Prof. Dr. Mustafa Ergil
 Assist. Prof. Dr. Mehmet Metin Kunt
 Assist. Prof. Dr. Giray Özay
 Assist. Prof. Dr. Erdiñç Soyer
 Assist. Prof. Dr. Serhan Şensoy
 Assist. Prof. Dr. Ozan Köseoğlu

Curriculum

Year I / Fall

Introduction To Civil Engineering
 Civil Engineering Drawing
 General Chemistry
 Communication in English - I
 Calculus - I
 Arts And Humanities Elective (Culture)

Year II / Fall

Statics
 Surveying
 Materials Science
 Probability and Statistical Methods
 Physics - II

Year III / Fall

Summer Practice
 Fluid Mechanics
 Introduction to Structural Mechanics
 Earth Science
 Transportation Engineering
 Numerical Analysis For Engineers

Year IV / Fall

Introduction To Capstone Project
 Foundation Engineering
 Design of Reinforced Concrete Structures
 Fundamentals of Steel Design
 Construction Management
 Introduction To Economics

Year I / Spring

Programming Fundamentals
 Communication In English - II
 Calculus - II
 Physics - I
 Social/Behavioral Sciences Elective (Environment)
 History of Turkish Reforms
 Turkish as a Second Language

Year II / Spring

Strength of Materials
 Materials of Construction
 Communication Skills
 Rigid Body Dynamics
 Ordinary Differential Equations and Linear Algebra

Year III / Spring

Hydromechanics
 Structural Analysis
 Soil Mechanics
 Fundamentals of Reinforced Concrete
 Civil Engineering Construction

Year IV / Spring

Capstone Project
 Area Elective - I
 Area Elective - II
 Area Elective - III
 Social/Behavioral Sciences Elective (Ethics)

Faculty	Engineering
Program	Civil Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
Tel	+90 392 630 1231
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Web	http://civil.emu.edu.tr
Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Computer Engineering

Undergraduate Program

The Computer Engineering Department and the undergraduate computer engineering program at Eastern Mediterranean University were established in 1993. Computer Engineering graduates have a solid understanding of the principles underlying computer software and hardware, and can apply theoretical knowledge to solve practical real-life problems. The program aims to provide a high-quality, up-to-date, internationally recognized and respected education to an international student body, as well as carry out advanced research in many areas of the computer field. To this end, the department is equipped with extensive physical and lab facilities, and has experienced faculty members coming from many different countries.

Teaching / Learning

The main aim of the program is to introduce the students with most up-to-date developments in the area of computer engineering and, at the same time, to enhance their life-long learning skills. The Program aims to bring up qualified and well-educated computer engineers who are knowledgeable in computer systems, hardware and software, and who are able to put their theoretical knowledge into practice by producing new designs. The program graduates are perfectly equipped to deal with rapidly changing environment due to their solid education and strong background in the underlying principles of the technology, as well as hands on experience they get through laboratory work.

Departmental Facilities

The Computer Engineering Department which runs the computer engineering undergraduate program has international, distinguished full time staff of academicians and researchers. Furthermore, a selected group of graduate students work as research and teaching assistants. Fully-equipped software and hardware labs enabling computer engineering students to combine theory and practice are available at the Department. There are five general-use computer laboratories, one graduation project laboratory, one multimedia laboratory, two logic design laboratories, one microprocessor laboratory, one circuit and electronics laboratory, and one research and development laboratory. In addition to public domain software, students in the department have free access to Microsoft Software as a result of an agreement with Microsoft.

Activities / Major Accomplishments

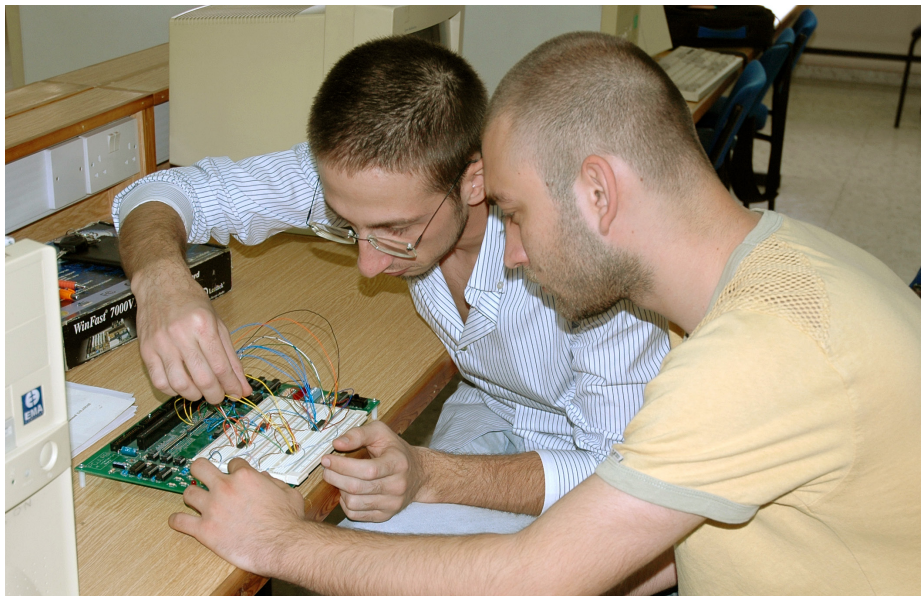
Academicians in the department are active researchers in their fields of interest, participating in conferences, conducting funded research projects, organizing workshops and conferences, and publishing their research findings in reputable journals. The Internet Technologies Research Center was founded in 2005 through the initiation and participation of several members of the department. EMU Online is a distant education project that has been continuing since 2000. ACM EMU Student Chapter, one of the student branches of the world-famous Association for Computing Machinery, has been in existence since February 2007. EMU Robotics club was founded in June 2007, and a robot designed and produced in the department won the first prize in the Middle East Technical University "Robot Days" competition.

About the Degree Program

During the four-year undergraduate program, along with the basic courses on computer software, hardware and computer networks, the Computer Engineering Program offers various elective courses on mathematics, physics, English, economics, business and social sciences to provide the students with an enriched learning experience. The regularly updated educational program has been designed in accordance with international standards.

Career Opportunities and Graduates

Students successfully graduating from the Computer Engineering undergraduate program receive the title of the 'Computer Engineer'. There is a big demand for the graduates of the Computer Engineering program, both locally and internationally. Many of our graduates have been employed in large, technology oriented international companies with lucrative salaries. Also, many of our graduates choose to continue their education to obtain Masters and Ph.D. degrees, both at EMU and abroad. After finishing their postgraduate studies, some of our graduates have been employed at reputable universities in the UK and the USA.



Academics

Prof. Dr. Erden Başar
 Prof. Dr. Marif Güler
 Prof. Dr. Hasan Kömürçügil
 Prof. Dr. Omar Ramadan
 Assoc. Prof. Dr. Hakan Altınçay
 Assoc. Prof. Dr. Doğu Arifler
 Assoc. Prof. Dr. Işık Aybay
 Assoc. Prof. Dr. Zeki Bayram
 Assoc. Prof. Dr. Alexander Chefranov
 Assoc. Prof. Dr. Muhammed Salamah
 Assist. Prof. Dr. Adnan Acan
 Assist. Prof. Dr. Yıldıran Bitirim
 Assist. Prof. Dr. Mehmet Bodur
 Assist. Prof. Dr. Cem Ergün
 Assist. Prof. Dr. Gürcü Öz
 Assist. Prof. Dr. Önsen Toygar
 Assist. Prof. Dr. Ahmet Ünveren
 Assist. Prof. Dr. Ekrem Varoğlu

Curriculum

Year I / Fall

Foundations of Computer Engineering
 Discrete Mathematics
 Communication in English I
 Calculus I
 Physics I

Year I / Spring

Introduction to Profession
 Programming Fundamentals
 Communication in English II
 Calculus II
 Physics II
 Turkish as a Second Language (Other Students)
 History of Turkish Reforms (TC/TRNC Students)

Year II / Fall

Digital Logic Design
 Data Structures
 Object-Oriented Programming
 Communication Skills
 Linear Algebra and Ordinary Diff. Equations

Year II / Spring

Digital Logic Systems
 Electronics for Computer Engineers
 Operating Systems
 Numerical Analysis for Engineers
 Restricted Elective - Phys/Chem/Bio

Year III / Fall

Microprocessors
 Systems Programming
 Analysis of Algorithms
 Basics of Signals and Systems
 Probability and Statistical Methods

Year III / Spring

Computer Architecture and Organization
 Computer Networks
 Database Management Systems
 Principles of Programming Languages
 University Elective- Arts & Humanities II

Year IV / Fall

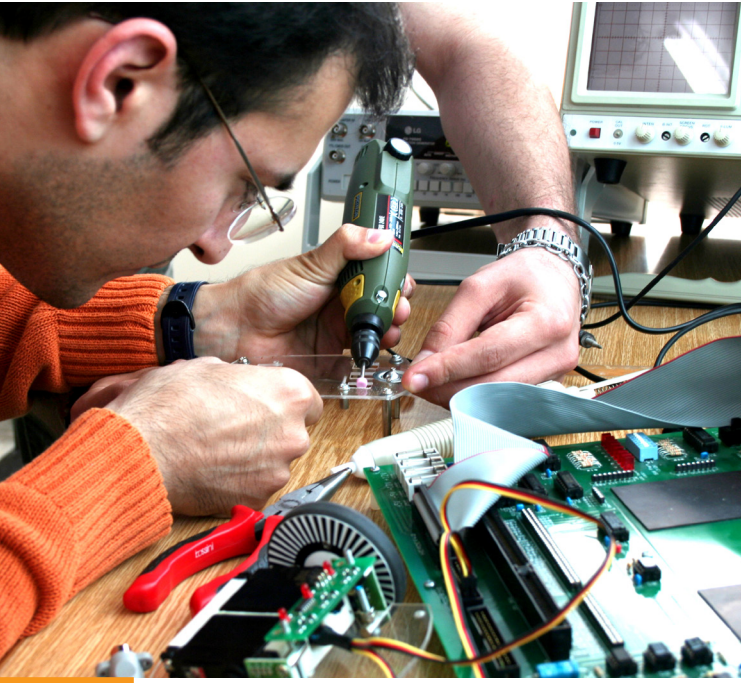
Summer Training
 Area Elective I
 Area Elective II
 Area Elective III
 Automata Theory
 Graduation Project I
 Restricted Elective - Ethics

Year IV / Spring

Area Elective IV
 Area Elective V
 Uni. Elective- Arts & Humanities III
 Restricted Elective-ECON/MGMT/FIN/BANK/ACCT
 Graduation Project II

Faculty	Engineering
Program	Computer Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
Tel	+90 392 630 1484
Fax	+90 392 630 0711
e-mail	cmpe.info@emu.edu.tr
Web	http://cmpe.emu.edu.tr
Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Electrical & Electronic Engineering

Undergraduate Program

The Department of Electrical & Electronic Engineering was founded in 1979 as one of the first engineering departments of Eastern Mediterranean University and since then has been offering education at the highest standards to its students. Our mission is to provide our students with strong theoretical and practical foundations that the world of industry and the academia needs. In order to achieve our objective, we have set our priorities to training our students so that they become equipped with attitudes, leadership traits, and a desire for life-long learning. Within this framework, we continuously motivate our graduates to introduce innovations for the benefit of the society by holding scientific activities and producing new technologies.

Teaching / Learning

The Department provides contemporary training in various fields of Electrical and Electronic Engineering, and offers programs of study leading to degrees of Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD). The undergraduate programs are the Electrical and Electronic Engineering Program (EENG) and the newly established Information Systems Engineering (INFE) program. Both programs are accredited by the Higher Education Council (YÖK) of the Republic of Turkey. The EENG program of the Faculty of the Engineering was awarded substantial equivalency by ABET (Accreditation Board for Engineering and Technology) in 2005. This status is only given to the selected departments of prestigious universities offering engineering education.

Departmental Facilities

Our Department offers education in modern buildings equipped with up-to-date labs. The 15 labs that exist in the department are as follows:

Basic Circuits Lab, Instruments and Measurement Lab, Control Systems Lab, Electronics Lab, Telecommunications Lab, Electrical Machines Lab, Power Electronics Lab, Microprocessor Lab, Logic Design Lab, Microwave and Antenna Lab, and 5 computer labs.

The department also houses a student library, the Electronic Club, EESTEC club (Electrical Engineering Students European Association) and the IEEE Student Branch which are completely administered by the students. The executive boards for clubs are determined by elections held by students. Some recent activities organized by our student clubs include the 2007 workshop on solar energy called 'Sunny Days' and the 'IEEE Student Branches Executive Council Congress' with 30 different universities attending from Turkey in 2009.

Activities / Major Accomplishments

The academic staff members of the department and the postgraduate PhD students actively participate in research by publishing articles in reputable citation indexes and by presenting papers at international conferences.

The Department has successfully organized and hosted the 9th Signal Processing and its Applications Conference (SIU) during 2001 and co-hosted the 5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW) during 2009.

Career Opportunities and Graduates

Graduates of our undergraduate program confront no difficulty in finding jobs in their own countries as they are equipped with the theoretical knowledge that the world of the industry and the academia requires, and are also familiar with the most recent technologies. Being educated in an environment where the medium of instruction is in English they are also able to find jobs all around the world as managers, consultants, engineers, lecturers and in many other capacities.

About the Degree Program

The students enrolled in the EENG program program have the opportunity to gain expertise in fields like, Communications Engineering, Electromagnetics, Power / Control Engineering, Integrated Circuits, Computer Software and Hardware Engineering arranged in accordance with the expectancies and demands of our present day. The EENG program offered by the department aims to provide qualified graduates that are equipped with attitudes, leadership traits, and a desire for life-long learning.

Lectures are delivered by well-qualified academic staff consisting of 9 professors, 5 associate professors and 2 assistant professors who graduated from prominent postgraduate programs at world-famous institutions.



Academics

Prof. Dr. Hasan Amca
 Prof. Dr. Süha Bayındır
 Prof. Dr. Derviş Z. Deniz
 Prof. Dr. Osman Kükrer
 Prof. Dr. Hüseyin Özkaramanlı
 Prof. Dr. Abdullah Y. Öztoprak
 Prof. Dr. Haluk Tosun
 Prof. Dr. Şener Uysal
 Prof. Dr. Runyi Yu
 Assoc. Prof. Dr. Hüseyin Bilgekul
 Assoc. Prof. Dr. Hasan Demirel
 Assoc. Prof. Dr. Aykut Hocanın
 Assoc. Prof. Dr. Erhan İnce
 Assoc. Prof. Dr. Mustafa K. Uyguroğlu
 Assist. Prof. Dr. Hassan Abou Rajab
 Assist. Prof. Dr. Rasime Uyguroğlu

Curriculum

Year I / Fall

Introduction to Logic Design
 General Chemistry
 Physics I
 Calculus I
 Communication in English I

Year I / Spring

Introduction to Programming
 Introduction to Electrical & Electronic Engineering
 Linear Algebra
 Calculus II
 Physics II
 Communication in English II

Year II / Fall

Algorithms and Data Structures
 Circuit Theory I
 Ordinary Differential Equations
 Statics/ Engineering Materials/ Fundamentals of Thermodynamics
 Mathematical Methods for Engineers

Year II / Spring

Circuit Theory II
 Signals and Systems
 Electromagnetics I
 Physical Electronics
 Communication in Turkish (Other Students) / History of Turkish Reforms (TR/TRNC Students)

Year III / Fall

Electromagnetics II
 Electronics I
 Selective Core Course I
 Probability and Statistical Methods
 University Elective - Arts & Humanities I

Year III / Spring

Electronics II
 Selective Core Course II
 Selective Core Course III
 University Elective - Arts & Humanities II
 Communication Skills

Year IV / Fall

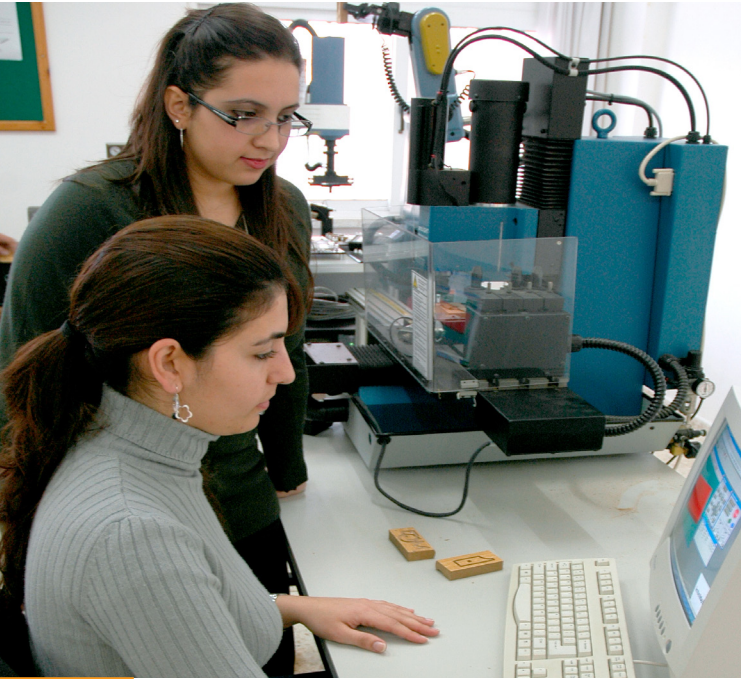
Project I
 Summer Training
 Selective Core Course IV
 Selective Core Course V
 Opt. Elective Course I
 Opt. Elective Course II
 ECON/MGMT/FIN/BANK/ACCT

Year IV / Spring

Project II
 Opt. Elective Course III
 Opt. Elective Course IV
 University Elective - Arts & Humanities III
 Ethics

Faculty	Engineering
Program	Electrical & Electronic Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
Tel	+90 392 630 1301
Fax	+90 392 365 0240
e-mail	ee.info@emu.edu.tr
Web	http://www.ee.emu.edu.tr
Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Industrial Engineering

Undergraduate Program

In any competitive market improving quality and efficiency is vital. The challenge faced by industrial engineers is determining effective ways to make a product or service. Industrial engineering is defined as:

“...the design, improvement, and installation of integrated systems of people, material, equipment, and energy. It draws upon specialized knowledge and skills in the mathematical, physical and social sciences together with the principles and methods of engineering analysis and design to specify, predict, and evaluate the results to be obtained from such systems”.

Teaching / Learning

The opportunities awaiting an industrial engineering graduate are virtually limitless. Our programs provide students with a strong foundation in mathematics, science, and the fundamentals of engineering, as well as a broad background in all major areas of the industrial engineering discipline. Industrial engineering consists of a host of methods and techniques that are aimed at improving efficiency, reducing and eliminating waste, improving working conditions, reducing stress, improving employee cooperation and morale, increasing productivity, improving quality and a host of others. As a department, we aim to provide a world-class research and scholarly environment to generate and disseminate new knowledge and technological innovation, and to equip future industrial engineers with sound professional background responsible on ethical and environmental issues to benefit the society.

Departmental Facilities

Three PC Labs with printers and 120 computers, all connected to the internet. Computer Integrated Manufacturing Lab is for both educational and research purposes where students learn to configure, program, and operate industrial robots in the three workstations integrated to ASRS with a closed loop pallet conveyor. Operations performed in the lab include machining, assembly, and quality control. Simulation and Optimization Lab is for research purposes for all senior undergraduate, and graduate students. Work Study and Ergonomics Labs provide facilities to perform methods analysis and time study. Human physiology and dexterity, fatigue, workplace comfort-related tests are also conducted. There are 20 PCs and a plotter for technical drawing. Multi-Media Lab includes equipment related to the design of multi-media documents for audio-visual presentations.

Activities / Major Accomplishments

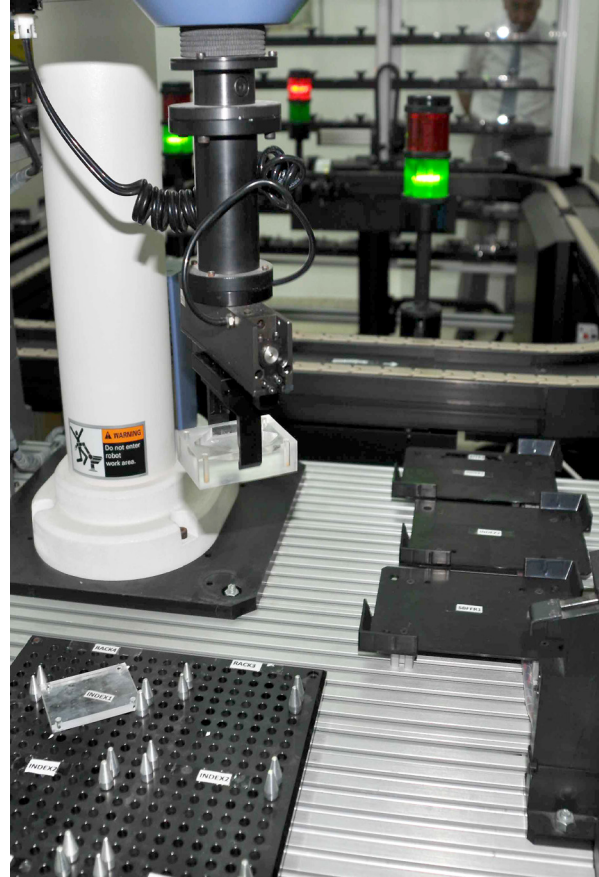
The Department has launched a project for proposing a feasible solid waste management system for the region. The Student Club of the Department (IE-Club) has been a full member of ESTIEM (European Students of Industrial Engineering and Management), the largest industrial engineering student organization in the world consisting of 47,000 students from 64 universities located in 24 European countries. IE-Club is actively participating in the organizations and events of ESTIEM. The club recently hosted the Council Meeting in Famagusta (Gazimağusa), one of the most important events of ESTIEM. IE-Club is also member of the Student Chapter of IIE (Institute of Industrial Engineers) which is based in the United States.

About the Degree Program

The Department recently enjoyed a very successful ABET team visit, and the ABET accreditation will be effective starting from August 2011 until the academic year 2015-2016. Department offers the opportunity to go through Double Major Program in Industrial Engineering and Mechanical Engineering. The Industrial Engineering students with a minimum CGPA of 3.00 are given the opportunity to register for the double-major program at the end of their third semesters. At the end of the program, students receive a Mechanical Engineering diploma in addition to the Industrial Engineering degree. Thanks to our alumni communication network we continuously receive curriculum related feedback from our graduates. We also follow the requirements of the employers and professional world and shape our curriculum based on these requirements. In this respect, along with the core courses, courses focusing on social, cultural, behavioral and environmental aspects have also been integrated into our curriculum.

Career Opportunities and Graduates

Through the alumni communication network the department monitors the career developments of its alumni. The IE graduates are enjoying high-paying jobs in companies like Ernst & Young, Microsoft, Toyota, Ford, Turkish Airlines, SunExpress Airlines, Danone UK, Vodafone, Turkcell, Bechtel, Huhtamaki, Mavi Jeans, Arcelik, Is Bank, HSBC, Acibadem Health Group, Istanbul Eye Hospital, Petrol Ofisi, Dogan Holding, Alarko Holding, Zorlu Holding, United Nations, Trelleborg Automotive, Dogus Otomotive, MAN Türkiye, Turkish Armed Forces, Philips & Morris, Procter & Gamble just to name a few. Also many graduates have completed or enrolled in graduate programs of respected universities in the world.



Academics

Prof. Dr. Alagar Rangan
 Prof. Dr. Bela Vizvari
 Assist. Prof. Dr. Emine Atasoylu
 Assist. Prof. Dr. Gökhan İzbrak
 Assist. Prof. Dr. Adham Mackieh
 Assist. Prof. Dr. Orhan Korhan
 Sen. Inst. Sayman Demirciler
 Sen. Inst. Meliha Kaymak
 Sen. Inst. Mahmut Kunter
 Sen. Inst. Bakiye Yalınç

Curriculum

Year I / Fall

General Chemistry
 Physics - I
 Calculus - I
 Communication in English - I
 Fundamentals of Computing & Programming

Year I / Spring

Materials Science
 Physics - II
 Calculus - II
 Communication in English - II
 Engineering Graphics
 Introduction to Industrial Engineering

Year II / Fall

Restricted Area Elective - I (Thermodynamics)
 Engineering Mechanics
 Linear Algebra & Ordinary Differential Equ.
 Probability and Statistical Methods
 Modeling and Optimization
 Fundamentals of Economics

Year II / Spring

Principles of Production Engineering
 Restricted Area Elective - II (Electrical & Electronics Engineering)
 Cost Accounting for Managerial Decision Making
 Communication Skills
 Restricted Area Elective - III (Computational Modeling in IE)
 Principles of Management

Year III / Fall

Fundamentals of Work Study and Ergonomics
 Operations Research - I
 Engineering Economy
 Restricted Area Elective - IV (Statistical Applications in Engineering)
 University Elective - Sociology
 Industrial Training - I

Year III / Spring

Production Planning - I
 Operations Research - II
 Information Systems and Technology
 Area Elective - I
 Restricted Area Elective - V (Ethics in Engineering)

Year IV / Fall

Production Planning - II
 Facilities Planning and Design
 Introduction to Manufacturing and Service Systems Design
 Systems Modeling and Simulation
 University Elective
 History of Turkish Reforms / Communication in Turkish
 Industrial Training - II

Year IV / Spring

Quality Engineering
 Manufacturing and Service Systems Design
 Area Elective - II
 Area Elective - III
 University Elective
 Seminars on Manufacturing and Service Systems

Faculty	Engineering
Program	Industrial Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
Tel	+90 392 630 1318
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e-mail	iedept@emu.edu.tr
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Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Information Systems Engineering

Undergraduate Program

The Department of Electrical & Electronic Engineering was founded in 1979 as one of the first engineering departments of Eastern Mediterranean University and since then has been offering education at the highest standards to its students. Our mission is to provide our students with strong theoretical and practical foundations that the world of industry and the academia needs. In order to achieve our objective, we have set our priorities to training our students so that they become equipped with attitudes, leadership traits, and a desire for life-long learning. Within this framework, we continuously motivate our graduates to introduce innovations for the benefit of the society by holding scientific activities and producing new technologies.

Teaching / Learning

The newly established Information Systems Engineering (INFE) program aims to meet the need for qualified professionals in the age of informatics. The INFE program avoids traditional Electrical and Power Engineering courses as well as Computer Science but instead will concentrate on the area of information theory, processing, storage, communication, delivery, interpretation and security.

The enabling technologies of electronics, signal and image processing, artificial intelligence, telecommunications, databases and processing, data communications, computer networking and software engineering will be used within the context of engineering of information systems.

The INFE program is accredited by the Higher Education Council (YÖK) of the Republic of Turkey.

Departmental Facilities

Our Department offers education in modern buildings equipped with up-to-date labs. The 15 labs that exist in the department are as follows:

Basic Circuits Lab, Instruments and Measurement Lab, Control Systems Lab, Electronics Lab, Telecommunications Lab, Electrical Machines Lab, Power Electronics Lab, Microprocessor Lab, Logic Design Lab, Microwave and Antenna Lab, and 5 computer labs.

The department also houses a student library, the Electronic Club, EESTEC club (Electrical Engineering Students European Association) and the IEEE Student Branch which are completely administered by the students. The executive boards for clubs are determined by elections held by students. Some recent activities organized by our student clubs include the 2007 workshop on solar energy called 'Sunny Days' and the 'IEEE Student Branches Executive Council Congress' with 30 different universities attending from Turkey in 2009.

Activities / Major Accomplishments

The academic staff members of the department and the postgraduate PhD students actively participate in research by publishing articles in reputable citation indexes and by presenting papers at international conferences.

The Department has successfully organized and hosted the 9th Signal Processing and its Applications Conference (SIU) during 2001 and co-hosted the 5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW) during 2009.

Career Opportunities and Graduates

Graduates of our undergraduate program confront no difficulty in finding jobs in their own countries as they are equipped with the theoretical knowledge that the world of the industry and the academia requires, and are also familiar with the most recent technologies. Being educated in an environment where the medium of instruction is in English they are also able to find jobs all around the world as managers, consultants, engineers, lecturers and in many other capacities.

About the Degree Program

The students enrolled in the INFE program have the opportunity to gain expertise in fields such as Information Engineering, Communications Engineering, Computer Software and Hardware Engineering arranged in accordance with the expectancies and demands of our present day. The INFE program offered by the department aims to provide qualified graduates that are equipped with attitudes, leadership traits, and a desire for life-long learning.

Lectures are delivered by well-qualified academic staff consisting of 9 professors, 5 associate professors and 2 assistant professors who graduated from prominent postgraduate programs at world-famous institutions.



Academics

Prof. Dr. Hasan Amca
 Prof. Dr. Siiha Bayındır
 Prof. Dr. Derviş Z. Deniz
 Prof. Dr. Osman Kükrer
 Prof. Dr. Hüseyin Özkaramanlı
 Prof. Dr. Abdullah Y. Öztoprak
 Prof. Dr. Haluk Tosun
 Prof. Dr. Şener Uysal
 Prof. Dr. Runyi Yu
 Assoc. Prof. Dr. Hüseyin Bilgekul
 Assoc. Prof. Dr. Hasan Demirel
 Assoc. Prof. Dr. Aykut Hoca'nın
 Assoc. Prof. Dr. Erhan İnce
 Assoc. Prof. Dr. Mustafa K. Uyguroğlu
 Assist. Prof. Dr. Hassan Abou Rajab
 Assist. Prof. Dr. Rasime Uyguroğlu

Curriculum

Year I / Fall

Introduction to Logic Design
 Communication in English I
 Physics I
 Calculus I
 Discrete Mathematics

Year I / Spring

Introduction to Information Engineering
 Introduction to Programming
 Physics II
 Linear Algebra
 Calculus II
 Communication in English II

Year II / Fall

Algorithms and Data Structures
 Electrical Circuits
 University Elective - Arts & Humanities I
 Ordinary Differential Equations
 Communication in Turkish (Other Students) / History of Turkish Reforms (TR/TRNC Students)

Year II / Spring

Object Oriented Programming
 Signals and Systems
 Electronics
 Mathematical Methods for Engineers
 University Elective - Arts & Humanities II

Year III / Fall

Software Engineering
 Communication Systems I
 Microprocessors I
 Digital Signal Processing
 Probability and Statistical Methods

Year III / Spring

Computing Systems
 Information Management
 Data Communications & Computer Networks
 Digital Communications
 Communication Skills

Year IV / Fall

Project I
 Summer Training
 Client Server Computing
 Information Theory
 Area Elective I
 Area Elective II
 ECON/MGMT/FIN/BANK/ACCT

Year IV / Spring

Project II
 Area Elective III
 Area Elective IV
 University Elective - Arts & Humanities III
 Ethics

Faculty	Engineering
Program	Information Systems Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	-
Tel	+90 392 630 1301
Fax	+90 392 365 0240
e-mail	ee.info@emu.edu.tr
Web	http://www.ee.emu.edu.tr
Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Mechanical Engineering

Undergraduate Program

The Department of Mechanical Engineering aspires to educate students about the fundamentals of engineering science and analysis methods appropriate for engineers to use in formulating solutions to problems; to involve students in design experiments throughout their education in all aspects of mechanical engineering including team-work, and the application of basic engineering knowledge; to teach students how to setup and conduct experiments including the analysis and interpretation of the experimental data; to equip the students with professional ethics and the willingness towards life-long learning.

Teaching / Learning

50% of the student population consists of international students. This enhances communication in English which is the only common language among them.

The department has extensive, well-equipped modern laboratories that cover all the core disciplines of Mechanical Engineering. Laboratories are used both for undergraduate instruction and graduate research. A wide range of high quality CAD/CAM facilities is available for teaching and research, and it closely integrates the processes associated with design, manufacturing, and robotics. The automotive laboratory provides undergraduate level education in automotive engineering related to the scientific and technological requirements of the automotive industry. The Graduation Project Design Course involves team work and aims to motivate students to develop solutions to the current design problems. Through the graduation project, students understand the design process, gain practical experience and develop their research and communication skills.

Departmental Facilities

The department has extensive, well-equipped modern laboratories that cover all the core disciplines of Mechanical Engineering. Laboratories are used both for undergraduate instruction and graduate research. A wide range of high quality CAD/CAM facilities is available for teaching and research, and it closely integrates the processes associated with design, manufacturing, and robotics. The automotive laboratory provides undergraduate level education in automotive engineering related to the scientific and technological requirements of the automotive industry. The Graduation Project Design Course involves team work and aims to motivate students to develop solutions to the current design problems. Through the graduation project, students understand the design process, gain practical experience and develop their research and communication skills.

Activities / Major Accomplishments

Department of Mechanical Engineering has been accredited as "Substantially Equivalent" by ABET. The Department of Mechanical Engineering is one of three oldest departments of Eastern Mediterranean University. The graduate program of the department was started in 1990. Besides a 4-year undergraduate mechanical engineering degree program, the Department of Mechanical Engineering offers graduate programs of study leading to the degrees of Master of Science -M.S., and Doctor of Philosophy -Ph.D. EMU Energy Research Centre located in the mechanical engineering department works on exploration, development and efficient use of alternative and environment-friendly energy sources, clean power generation, development of rational energy policies through consideration of energy planning and energy economics. The centre places special emphasis on increasing the energy efficiency awareness and working closely with the industry. The objective is to have a leading role in using the conventional energy sources more efficiently, discovering cleaner and more sustainable energy sources, shedding light on their application and helping their acknowledgement by society.



About the Degree Program

Both the Mechanical Engineering and the newly established Mechatronics Engineering programs are dedicated to the creation, integration, transfer and application of knowledge relevant to the disciplines of mechanical engineering, for the purpose of educating students, both in the fundamentals and applications of this discipline. These objectives are reflected in the course programs, which are carefully prepared and updated according to the needs of the industry, whilst ensuring that the drive for academic quality and international standards are met. With its educational and research facilities, the program also aims to contribute to the technological and economic development of the region.

Career Opportunities and Graduates

The education provided to students is based on a blend of theory and practice. The students develop skills that make them competitive in today's job market. This method has proven to be successful. A majority of students begin their professional careers immediately upon graduation or continue with graduate studies. The graduates are creative, good communicators and skilled at solving problems and delivering results. With these qualities, they not only start their careers as high quality practitioners, but are also sought by top companies for their potential in management, consulting and other senior professional positions all around the world.

Curriculum

Year I / Fall

Engineering Graphics
Algorithms & Programming
Communication in English I
Calculus I
Physics I

Year I / Spring

Introduction to Mechanical Engineering
General Chemistry
Communication In English II
Calculus II
Physics II
Turkish as a Second Language (Other Students)
History of Turkish Reforms (TC/TRNC Students)

Year II / Fall

Experimental Methods for Engineers
Material Science
Thermodynamics I
Statics
University Elective - Arts & Humanities I
Ordinary Differential Equations
and Linear Algebra

Year II / Spring

Mechanical Workshop Practice
Thermodynamics II
Strength of Materials
Rigid Body Dynamics
Fundamentals of Electrical Engineering
Communication Skills

Year III / Fall

Fluid Mechanics
Manufacturing Technology
Dynamics of Machinery
Machine Elements I
Numerical Analysis for Engineers

Year III / Spring

Control Systems
Heat Transfer
Machine Elements II
Principles of CAE
Probability and Statistical Methods

Year IV / Fall

Industrial Training
Introduction to Capstone Design
Area Elective I
Area Elective II
University Elective - Arts & Humanities II
University Elective - Social & Behavioral
Sciences I
Engineering Economy

Year IV / Spring

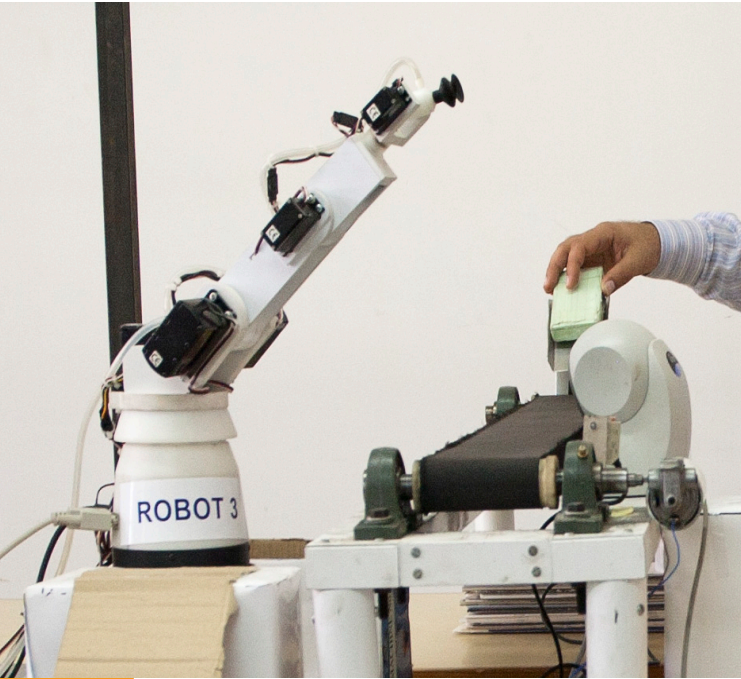
Capstone Team Project
Area Elective III
Area Elective IV
Industrial Management
University Elective - Social & Behavioral
Sciences II

Academics

Prof. Dr. Hikmet S. Aybar
Prof. Dr. Majid Hashemipour
Prof. Dr. Yusuf Orçan
Prof. Dr. İbrahim Sezai
Assoc. Prof. Dr. Erbil Akbil
Assoc. Prof. Dr. Uğur Atikol
Assoc. Prof. Dr. Fuat Egelioglu
Assoc. Prof. Dr. Loay Aldabagh
Assist. Prof. Dr. Hasan Hacışevki
Assist. Prof. Dr. Asif Iqbal
Dr. Neriman Özada
Sen. Inst. Cafer Kızılörs

Faculty	Engineering
Program	Mechanical Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
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Web	http://me.emu.edu.tr
Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
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Teaching / Learning

The Mechatronics Engineering undergraduate program aims to satisfy the academic goals as set by the Faculty of Engineering that applies to all its departments. Consistent with these goals, the educational objectives of the program can be stated as follows: Provide a firm foundation in mathematics, engineering and basic sciences as required by the engineering discipline. Provide a selection of interdisciplinary and general education courses that will enhance students' understanding of the economic, environmental, ethical, political, societal, and cultural impact of their engineering solutions and/or decisions. Provide the essential tools and fundamental background of the disciplines of Mechatronics Engineering. Encourage self-learning, life-long learning, and help develop a strong sense of responsibility. Provide students with a satisfactory level of competence in the analysis and solution of engineering problems. Provide students the opportunities to work in a team, either as a member or as a team leader. Prepare the graduates for the industry or postgraduate studies.

Departmental Facilities

Mechatronics Engineering is hosted by the Department of Mechanical Engineering and co-hosted by the Department of Electrical and Electronic Engineering. Almost equitable involvement of the departments allow the students to benefit fully from the facilities of both departments.

Activities / Major Accomplishments

Mechatronics is a new program. The program will benefit from the activities / accomplishments of the hosting departments which are Mechanical Engineering and Electrical and Electronic Engineering.

Mechatronics Engineering

Undergraduate Program

Today's engineering systems require multi-disciplinary design teams. Mechatronics is the blending of mechanical, electronic, software, and control theory engineering topics into a unified framework that enhances the design process. Mechatronics is an interdisciplinary field of engineering and also a design methodology. The Mechatronics Engineering program aims to address the needs of technology based industries in the region, and to provide in-depth knowledge in the fundamentals, design, analysis and operations of mechatronics systems.



About the Degree Program

Mechanical Engineering department is the hosting department of the Mechatronics Engineering programs. The other hosting department is the Electrical and Electronics Engineering. Both Mechanical and Electrical and Electronic Engineering programs have substantial equivalency from ABET. Program outcomes expected of all students receiving a BS degree from the Mechatronics Engineering program are: An ability to apply knowledge of mathematics, science and engineering principles, an ability to design and conduct experiments as well as to analyze and interpret data, an ability to design a component, system or process to meet an objective, an ability to function on multidisciplinary teams, an ability to identify, formulate, and solve engineering problems, an understanding of professional and ethical responsibilities, and global issues related to engineering, an ability to communicate effectively, the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context and a knowledge of contemporary issues.

Career Opportunities and Graduates

The graduates can select from a wide spectrum of industries for career choices. The graduates can find jobs such as mechatronics specialists and also they can contribute in variety of roles including project planner, product designer, design engineer, software engineer and so forth.



Academics

Prof. Dr. Hasan Amca
 Prof. Dr. Hikmet S. Aybar
 Prof. Dr. Süha Bayındır
 Prof. Dr. Derviş Z. Deniz
 Prof. Dr. Majid Hashemipour
 Prof. Dr. Osman Kükrer
 Prof. Dr. Yusuf Orçan
 Prof. Dr. Hüseyin Özkaramanlı
 Prof. Dr. Abdullah Y. Öztoprak
 Prof. Dr. İbrahim Sezai
 Prof. Dr. Şener Uysal
 Prof. Dr. Runyi Yu
 Assoc. Prof. Dr. Erbil Akbil
 Assoc. Prof. Dr. Uğur Atıkol
 Assoc. Prof. Dr. Hasan Demirel
 Assoc. Prof. Dr. Fuat Egelioglu
 Assoc. Prof. Dr. Aykut Hocanın
 Assoc. Prof. Dr. Erhan İnce
 Assoc. Prof. Dr. Hasan Abou Rajab
 Assoc. Prof. Dr. Mustafa K. Uyguroğlu
 Assist. Prof. Dr. Hasan Hacışevki
 Assist. Prof. Dr. Asif Iqbal
 Assist. Prof. Dr. Rasime Uyguroğlu
 Dr. Neriman Özada
 Sen. Inst. Cafer Kızılörs

Curriculum

Year I / Fall

Engineering Graphics
 Introduction to Programming
 Communication in English I
 Calculus I
 Physics I

Year I / Spring

Introduction to Mechatronics Engineering
 General Chemistry
 Communication in English II
 Calculus II
 Physics II
 Communication in Turkish (Other Students)
 History of Turkish Reforms (TC/TRNC Students)

Year II / Fall

Mechanical Workshop Practice
 Material Science
 Electrical Circuits
 Algorithms and Data Structures
 Statics
 Ordinary Differential Equations and Linear Algebra

Year II / Spring

Electronics
 Strength of Materials
 Rigid Body Dynamics
 Signals and Systems
 Communication Skills

Year III / Fall

Mechatronics Components and instrumentation
 Fundamentals of Thermodynamics
 Manufacturing Technology
 Dynamics of Machinery
 Introduction to Logic Design

Year III / Spring

Machine Elements
 Principles of CAE
 Control Systems I
 Microprocessors I
 University Elective - Social & Behavioral Sciences I

Year IV / Fall

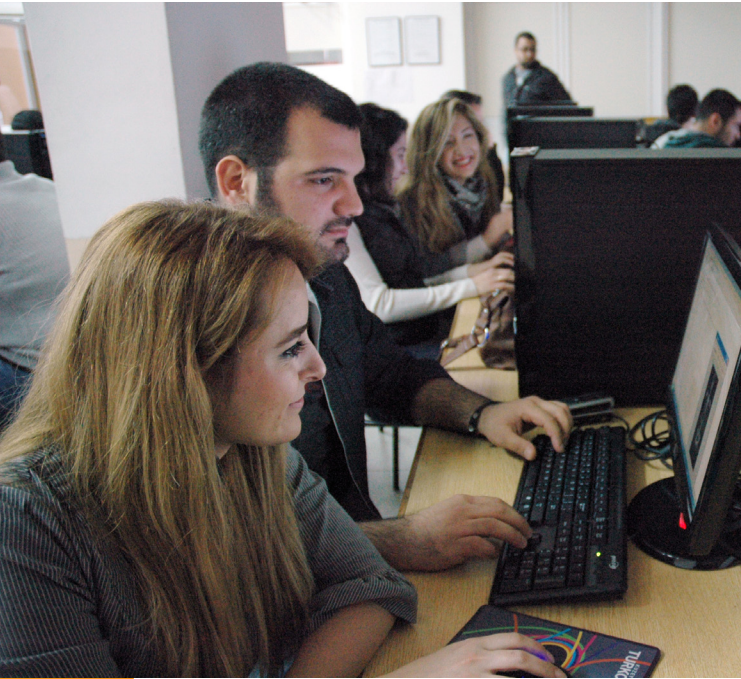
Industrial Training
 Introduction To Capstone Design
 Area Elective I
 Area Elective II
 University Elective - Arts & Humanities
 Engineering Economy
 Probability & Statistical Methods

Year IV / Spring

Capstone Team Project
 Introduction to Robotics
 Area Elective III
 Area Elective IV
 University Elective - Social & Behavioral Sciences II

Faculty	Engineering
Program	Mechatronics Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
Tel	+90 392 630 1210
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Application	http://www.emu.edu.tr/ registrarsoffice/registrarsoffice.aspx

Further Information and Liaison Offices
<http://www.emu.edu.tr/contactus/liaisonoffices.aspx>



Software Engineering

Undergraduate Program

Software Engineering is a relatively new program established in 2008 to meet the increasing demand for qualified software engineers. Software engineering involves the design, production and operation of software systems based on the engineering principles. Students of the Software Engineering Program have the possibility of accessing and working intensively on the most up-to-date information regarding their field of study. Experienced faculty members from many different countries contribute to the software engineering program.

Teaching / Learning

The main aim of the Software Engineering Program is to introduce the students to the most up-to-date developments in the area of software engineering and, at the same time, to enhance their life-long learning skills. The Program aims to bring up qualified and well-educated software engineers who are knowledgeable in computer systems, software, and who are able to put their theoretical knowledge into practice by producing large-scale software designs. The program graduates are perfectly equipped to deal with rapidly changing environment due to their solid education and strong background in the underlying principles of the discipline.

Departmental Facilities

The Computer Engineering Department which runs the software engineering undergraduate program has an international, distinguished full time staff of academicians and researchers. Furthermore, a selected group of graduate students work as research and teaching assistants. Fully-equipped software and hardware labs enabling software engineering students to combine theory and practice are available at the Department. There are five general-use computer laboratories, one graduation project laboratory, one multimedia laboratory, two logic design laboratories, one microprocessor laboratory, one circuit and electronics laboratory, and one research and development laboratory in the department. In addition to public domain software, students in the department have free access to Microsoft Software as a result of an agreement with Microsoft.

Activities / Major Accomplishments

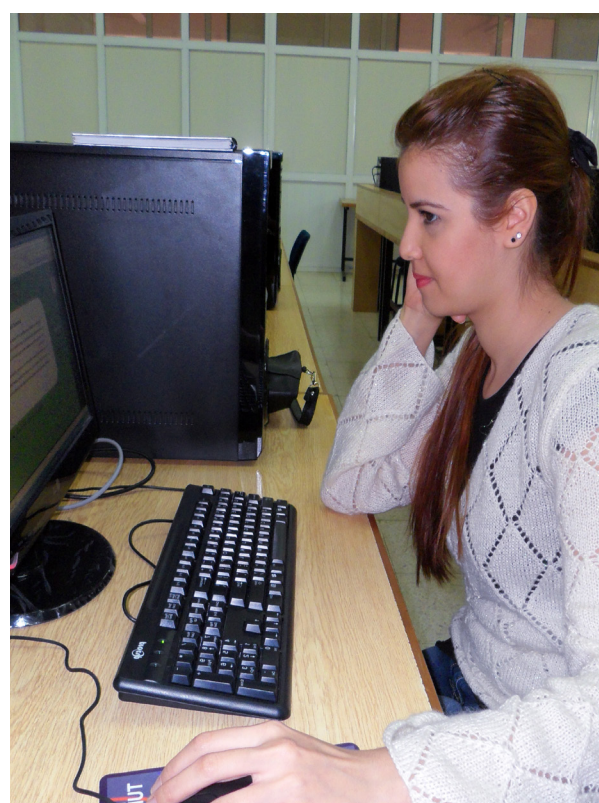
Academicians in the department are active researchers in their fields of interest, participating in conferences, conducting funded research projects, organizing workshops and conferences, and publishing their research findings in reputable journals. The Internet Technologies Research Center was founded in 2005 through the initiation and participation of several members of the department. EMU Online is a distant education project that has been continuing since 2000. ACM EMU Student Chapter, one of the student branches of the world-famous Association for Computing Machinery, has been in existence since February 2007. EMU Robotics club was founded in June 2007, and a robot designed and produced in the department won the first prize in the Middle East Technical University "Robot Days" competition.

About the Degree Program

The software Engineering Program emphasizes the skills and knowledge needed in the production of large complex software needed for the functioning of our society. Software Engineering graduates have the skills to take a software solution through all phases of production. In both programs, along with the technical courses, students produce a graduation project.

Career Opportunities and Graduates

Graduates of the Software Engineering Program are equipped with the skills demanded by the sector. Designing, implementing, testing, deploying and maintaining large scale complex software systems necessitates knowledge and skills of a software engineer. Given that the world today depends so much on large scale complex software systems, it is not a surprise that qualified software engineers are in big demand, and well compensated financially. Employers of software engineers include banks, large International companies with information technology departments, the public sector and universities. Graduates of the program can also pursue graduate studies in a software related area.



Academics

Prof. Dr. Erden Başar
 Prof. Dr. Marif Güler
 Prof. Dr. Hasan Kömürçügil
 Prof. Dr. Omar Ramadan
 Assoc. Prof. Dr. Hakan Altınçay
 Assoc. Prof. Dr. Doğu Arifler
 Assoc. Prof. Dr. Işık Aybay
 Assoc. Prof. Dr. Zeki Bayram
 Assoc. Prof. Dr. Alexander Chefranov
 Assoc. Prof. Dr. Muhammed Salamah
 Assist. Prof. Dr. Adnan Acan
 Assist. Prof. Dr. Yıldıran Bitirim
 Assist. Prof. Dr. Mehmet Bodur
 Assist. Prof. Dr. Cem Ergün
 Assist. Prof. Dr. Gürcü Öz
 Assist. Prof. Dr. Önsen Toygar
 Assist. Prof. Dr. Ahmet Ünveren

Curriculum

Year I / Fall

Foundations of Computer Engineering
 Discrete Mathematics
 Communication in English I
 Calculus I
 Physics I

Year I / Spring

Introduction to Profession
 Programming Fundamentals
 Communication in English II
 Calculus II
 Physics II
 Turkish as a Second Language (Other Students)
 History of Turkish Reforms (TC/TRNC Students)

Year II / Fall

Introduction to Software Engineering
 Object-Oriented Programming
 Data Structures
 Linear Algebra and Ordinary Diff. Equations
 Restricted Elective - Phys/Chem/Bio

Year II / Spring

Introduction to Computer Organization
 Operating Systems
 Numerical Analysis for Engineers
 Communication Skills
 University Elective- Arts & Humanities-II

Year III / Fall

Software Req. Analysis & Specifications
 Human/Computer Interaction
 Analysis of Algorithms
 Software Quality Assurance & Testing
 Probability and Statistical Methods

Year III / Spring

Software Design
 Principles of Programming Languages
 Computer Networks & Communication
 Database Management Systems
 University Elective- Arts & Humanities III

Year IV / Fall

Summer Training
 Graduation Project I
 Automata Theory
 Software Process & Management
 Embedded System Design
 Area Elective I
 Area Elective II

Year IV / Spring

Area Elective III
 Area Elective IV
 Graduation Project II
 Restrictive Elective - ECON/MGMT/FIN
 Restrictive Elective - BANK/ACCT
 Restrictive Elective - Ethics

Faculty	Engineering
Program	Software Engineering
Degree	Bachelor of Science
Duration	4 years
Medium of Instruction	English
Graduate Degree	Master and PhD
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