



YILDIZ TECHNICAL UNIVERSITY

NATURAL AND APPLIED SCIENCES INSTITUTE BULLETIN

OCTOBER 2014

Director Change at the Natural And Applied Sciences Institute

Prof. Dr. İsmail KÜÇÜK from Mathematical Engineering department has been assigned as the director of our institute on 25th September, 2014. We wish him success in his new position.



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We would like to thank our previous director Prof. Dr. Haluk GÖRGÜN for his ministration in our Institute and wish him success in his academic and administrative life.



Diaconate and Department Visits

26 Departments to which 153 graduate programs belong and related diaconates are being visited. By means of these visits, opinions on how to more effectively run the graduate programs presented by the partners of the Institute and what contributions could be made by our Institute in these processes are being shared.



In this framework, the Diaconate of the Naval Architecture and Marine Engineering Faculty was visited first on 21st October, 2014. Other diaconates and departments have been visited since, and will be continued in November. Besides, with the Technopark visit, ideas on the work that could be done with their participant have been considered.

Student certificate on E-Devlet

Students have been able to get their students certificates online on <https://www.turkiye.gov.tr/> within the scope of Higher Education Information Management System Works which is run by the Higher Education Council.

Thanks to this introduction involving 5.5 millions of students, these documents with barcodes that could be obtained online will be used for applications to institutions and organisations and other processes.

Works on other issues such as online student registrations, graduation and online academic staff registrations are continuing and planned to be actualised soon.



2014-2015 Fall Term Graduate School Registrations



2014-2015 Academic Year fall term graduate school registrations were done on 3rd— 9th July, 2014 for students without missing documents. The registrations of students with missing documents took place on 28th— 29th August. The wait list quotas were announced on 2nd September, 2014 and registrations were done on 4th September, 2014. Registrations of available Places on Evening Education Master's Degree Programs were done on 12th September, 2014 .

2013-2014 Graduation Ceremony



*We wish a
lifetime
success to all
of our
graduates.*

2013-2014 Academic Year, Graduate Schools Graduation Ceremony was held in Davutpasa 2010 European Capital of Culture Congress Center in Davutpasa Campus at 10:00 on Wednesday 9th July, 2014.

In the ceremony, students and their advisors who published the largest number of publications out of their doctoral thesis which was completed in 2013-2014 Academic Year were awarded by our Rector. Also, our lecturers who guided the most master's and doctorate works in the same academic year were given their awards by our Rector Prof. Dr. İsmail YÜKSEK.

Important Dates

The applications for the 2014-2015 Spring Term are going to be done on 8-17 December 2014. Entrance exams will take place on 24-26 December 2014.

The candidates must follow the announcements on our website and obey the dates stated.

PhD Graduates

COMPUTER ENGINEERING DEPARTMENT

FULL NAME: Tuğba YILDIZ

PROGRAM: Computer Engineering

ADVISOR: Doç. Dr. Banu DİRİ

THESIS SUBJECT: Corpus-Driven Semantic Relations Extraction for Turkish Language

BIOENGINEERING DEPARTMENT

FULL NAME: Necati FINDIKLI

PROGRAM: Bioengineering

ADVISOR: Prof. Dr. Adil ALLAHVERDİYEV

THESIS SUBJECT: Optimization of the Cryopreservation of Human Adipose Tissue and Adipose Based Stem Cells to be Used in the Practices of Tissue Engineering

FULL NAME: Başak EROĞLU (İŞCANI)

PROGRAM: Bioengineering

ADVISOR: Assoc. Prof. Zeynep AKDESTE

THESIS SUBJECT: Analysis of the Reactions of the Conjugation of Different Amino Acid Series belonging to Alzheimer Amyloid Beta Peptides with Polyelectrolytes

FULL NAME: Ayça AKSOY

PROGRAM: Bioengineering

ADVISOR: Prof. Dr. Adil ALLAHVERDİYEV

THESIS SUBJECT: Analysis of Osteogenic Differentiation Capacities of Mesenchymal Stem Cells based on Bone Marrow Obtained from Patients with Multiple Myeloma

FULL NAME: Ayşegül ERDEMİR

PROGRAM: Bioengineering

ADVISOR: Prof. Dr. Dilek BALIK

THESIS SUBJECT: Analysis of Gene Polymorphisms Related to Intracranial Aneurysm in Turkish Patients

PhD Graduates

FULL NAME: Olga Nehir ÖZTEL

PROGRAM: Bioengineering

ADVISOR: Prof. Dr. Adil ALLAHVERDİYEY

THESIS SUBJECT: Isolation, Culture and Characterization of Human Olfactory Stem Cells and Investigation of their effect on Regeneration of Damaged Rat Facial Nerves

FULL NAME: Ebru ÖZKAN

PROGRAM: Bioengineering

ADVISOR: Prof. Dr. Dilek BALIK

THESIS SUBJECT: Investigation of some gene polymorphisms thought to be associated with prostate cancer in Turkish patients

ELECTRICAL ENGINEERING DEPARTMENT

FULL NAME: Serhat ÖZENÇ

PROGRAM: Electrical Power Systems

ADVISOR: Assoc. Prof. Mehmet UZUNOĞLU

THESIS SUBJECT: Modelling of Active Maintenance and Operating Methods by Developing a New Lightning System Maintenance Factor Calculation Algorithm

FULL NAME: Bünyamin YAĞCITEKİN

PROGRAM: Electrical Power Systems

ADVISOR: Assoc. Prof. Mehmet UZUNOĞLU

THESIS SUBJECT: Design, Modelling and Application of Electric Vehicle Charging Infrastructure Including Smart Charging Management

PhD Graduates

ELECTRONICS AND COMMUNICATIONS ENGINEERING DEPARTMENT

FULL NAME: Selahattin NESİL

PROGRAM: Communication

ADVISOR: Prof. Dr. Filiz GÜNEŞ

THESIS SUBJECT: Analysis and Synthesis of Reflectarray Antenna

FULL NAME: Hasan Seçkin EFENDİOĞLU

PROGRAM: Electronics

ADVISOR: Prof. Dr. Tülay YILDIRIM

THESIS SUBJECT: Intelligent Design of Intensity Modulated Fiber Optic Sensors Using Different Fiber Structures

INDUSTRIAL ENGINEERING DEPARTMENT

FULL NAME: Süleyman TOSUN

PROGRAM: Industrial Engineering

ADVISOR: Assoc. Prof. Semih ÖNÜT

THESIS SUBJECT: A Model Proposal for Supplier Selection in Project Management

PHYSICS DEPARTMENT

FULL NAME: Evren Ozan GÖKSEL

PROGRAM: Physics

ADVISOR: Prof. Dr. Yasemin YARAR

THESIS SUBJECT: Target Volume, Normal Tissue and Peripheral Dose Measurement for Carnio-Spinal Irradiation with VMAT

NAVAL ARCHITECTURE AND MARINE ENGINEERING DEPARTMENT

FULL NAME: Hasan Kayhan KAYADELEN

PROGRAM: Naval Architecture and Marine Engineering

ADVISOR: Prof. Dr. Yasin ÜST

THESIS SUBJECT: The study of the Effects of Steam/Water Injection on the Thermo-economic Performance and Emissions of Gas Turbines and Their Optimization

PhD Graduates

GEODESY AND PHOTOGRAMMETRY ENGINEERING DEPARTMENT

FULL NAME: Sinan ÇETİNKAYA

PROGRAM: Remote Sensing and GIS

ADVISOR: Assoc. Prof. Ali Melih BAŞARANER

THESIS SUBJECT: New Approaches Regarding Characterisation and Interpretation of the Building Alignments in Cartographic Generalisation

CHEMISTRY DEPARTMENT

FULL NAME: Murat Emrah MAVİŞ

PROGRAM: Organic Chemistry

ADVISOR: Prof. Dr. Çiğdem YOLAÇAN

THESIS SUBJECT: Investigation of the Efficiency of Asymmetric Organocatalysts on Various Organic Reactions

FULL NAME: Saniye YARAR

PROGRAM: Biochemistry

ADVISOR: Assoc. Prof. Emine Karakuş

THESIS SUBJECT: Construction of L-Lysine Biosensor and its Characterisation

FULL NAME: Yıldız BENLİ (KARAER)

PROGRAM: Inorganic Chemistry

ADVISOR: Prof. Dr. Ulvi AVCIATA

THESIS SUBJECT: The Study of Specifications of Nano TiO₂ Doped Silver

PhD Graduates

CHEMICAL ENGINEERING DEPARTMENT

FULL NAME: Emrah KINAV

PROGRAM: Chemical Engineering

ADVISOR: Prof. Dr. Sema BAYKARA

THESIS SUBJECT: Design of a New Electric Vehicle which Uses the Existing Fuel Infrastructure

FULL NAME: Özgül Dere ÖZDEMİR

PROGRAM: Chemical Engineering

ADVISOR: Prof. Dr. Sabriye PİŞKİN

THESIS SUBJECT: Investigation of the efficiency of asymmetric organocatalysts on various organic reactions

MECHANICAL ENGINEERING DEPARTMENT

FULL NAME: Mustafa Cem ÇELİK

PROGRAM: Heat Process

ADVISOR: Prof. Dr. H. Alpay HEPERKAN

THESIS SUBJECT: Determination of the Optimal Operation and Production Conditions for Cascade Renewable Hydroelectric Power Plants

FULL NAME: Alen Murat KUYUMCU

PROGRAM: Energy

ADVISOR: Prof. Dr. Hakan KALELİ

THESIS SUBJECT: Bus Diesel Engine Cooling System Modelling, Design and Economic Optimization

MATHEMATICS DEPARTMENT

FULL NAME: Neslihan Ayşen ÖZKİRİŞÇİ

PROGRAM: Mathematics

ADVISOR: Doç. Dr. Kürşat Hakan ORAL

THESIS SUBJECT: Prime Ideals and Prime Submodules

PhD Graduates

FULL NAME: Lütfi AKIN

PROGRAM: Mathematics

ADVISOR: Yrd. Doç. Dr. Yusuf ZEREN

THESIS SUBJECT: Compactness of Hardy Operator in the Weighted Variable Exponent Lebesgue Spaces

METALLURGICAL AND MATERIALS ENGINEERING DEPARTMENT

FULL NAME: Eyüp AKAGÜNDÜZ

PROGRAM: Materials

ADVISOR: Prof. Dr. Ahmet TOPUZ

THESIS SUBJECT: The Study of the effects of Local Fly Ash Contribution on Composite Frictional Brake Pads on the features of Rail Vehicle Brake Lining and Determining its Availability

ARCHITECTURE DEPARTMENT

FULL NAME: Güzin AYDOĞAN

PROGRAM: Construction

ADVISOR: Yrd. Doç. Dr. Almula KÖKSAL IŞIKKAYA

THESIS SUBJECT: Partner Selection model for International Construction Joint Ventures Due to Host Country Related Risk Factors

FULL NAME: Selin YILDIZ

PROGRAM: Architectural Design

ADVISOR: Prof. Dr. Çiğdem POLATOĞLU

THESIS SUBJECT: Improving Information on Principles of Universal Design in Tourism Facilities, A Research in Istanbul

PhD Graduates

CITY & REGIONAL PLANNING DEPARTMENT

FULL NAME: Özge YÜKSEL

PROGRAM: Urban Planning

ADVISOR: Prof. Dr. Hüseyin CENGİZ

THESIS SUBJECT: Future and Development Process of Mining City, Reduced of Mineral Extraction: Case of zonguldak

FULL NAME: Serkan SINMAZ

PROGRAM: Urban Planning

ADVISOR: Prof. Dr. Zekiye YENEN

THESIS SUBJECT: Smart Energy Efficient Development of Smallscale Settlements: An Assessment for Lapseki City



We wish a lifetime succes to all our PhD graduates.



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