

**ESOGÜ FEN BİLİMLERİ ENSTİTÜSÜ**  
(ESOGU Graduate School of Natural and Applied Sciences)

**ERASMUS+ KAPSAMINDA ÖNERİLEN DERSLER**

(Offered Courses for Erasmus + Graduate Students)

ANABİLİM DALI (Department)	KOD (Code)	DERS ADI (Course Name)	Kredi (Credit)	ECTS (ECTS Credits)	Ders Bilgi Formu (Course Information Form)	ÖĞRETİM ÜYESİ
Gıda Mühendisliği (Food Engineering)	507202901	Lipid Chemistry	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. Onur KETENOĞLU
	507202902	Physical Properties of Foods	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. Onur KETENOĞLU
	507202903	Experimental Design and Statistical Approaches in Food Engineering	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. İlyas ATALAR
	507202904	Powder Technologies in Food Engineering	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. İlyas ATALAR
Fizik (Physics)	501301901	Cellular Biophysics	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Sertaç EROĞLU
	501302901	Experimental Techniques in Biophysics	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Sertaç EROĞLU
	501301902	Thin Film Coating and Characterization	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. İdris AKYÜZ
Tarımsal Biyoteknoloji (Agricultural Biotechnology)	506602901	Basic Biotechnology	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. Utku AVCI
	506612902	Advanced Microscopy Techniques	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç. Dr. Utku AVCI
Kimya Mühendisliği (Chemical Engineering)	503502901	Advanced Mass Transfer	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. O.Sermet KABASAKAL
	503502902	Membrane Processes	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. O.Sermet KABASAKAL
	503511901	Advanced Reactor Design	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Mine ÖZDEMİR
	503502903	Advanced Chemical Reaction Engineering	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Mine ÖZDEMİR
	503901901	Advanced Biomaterials and Applications	3+0	7,5	<a href="#">DBF (CIF)</a>	Y.Doç.Dr. Hüseyin AVCI
Polimer Bilim ve Teknolojisi (Polymer Science and Technology)	505411901	Polymer Composites	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Vural BÜTÜN
	505401901	Fundamentals of Polymer Chemistry	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Sermet KABASAKAL
	505412901	Functional Polymers and Modifications	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Vural BÜTÜN
	505411902	Synthesis and Characterization of Macromolecules	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Vural BÜTÜN
505402901	Polymer Characterization	3+0	7,5	<a href="#">DBF (CIF)</a>	Prof. Dr. Vural BÜTÜN	
İnşaat Mühendisliği (Civil Engineering)	503302901	Advanced Soil Mechanics	3+0	7,5	<a href="#">DBF (CIF)</a>	Y.Doç.Dr. Kamil B.AFACAN
Endüstri Mühendisliği (Industrial Engineering)	503212901	Stochastic Processes	3+0	7,5	<a href="#">DBF (CIF)</a>	Y.Doç.Dr. Aykut ARAPOĞLU
Havacılık Bilimi ve Teknolojileri (Aviation Science and Technology)	506701901	Aircraft Fuselage	3+0	7,5	<a href="#">DBF (CIF)</a>	Doç.Dr.Melih Cemal KUŞHAN
Elektrik Elektronik Mühendisliği YL (İngilizce) (Electrical Electronics Engineering) MSc (English)	501011901	THE SCIENTIFIC RESEARCH METHODS AND ITS ETHICS	3+0	7,5	<a href="#">DBF (CIF)</a>	Sorumlu Öğretim Üyesi
	505702512	ADVANCED DIGITAL SIGNAL PROCESSING	3+0	7,5		
	505701506	ADVANCED ELECTROMAGNETIC THEORY	3+0	7,5		
	505702502	ADVANCED POWER ELECTRONICS	3+0	7,5		
	505702509	ANTENNA THEORY AND DESIGN	3+0	7,5		
	505702501	BEZIER CURVE MODELLING	3+0	7,5		
	505702504	DATA COMPRESSION	3+0	7,5		
	505702508	DEEP LEARNING	3+0	7,5		
	505701504	DIGITAL COMMUNICATION USING FPGA	3+0	7,5		
	505701515	DIGITAL SIGNAL PROCESSING	3+0	7,5		
	505701514	ENGINEERING MATHEMATICS	3+0	7,5		
	505702506	GROUNDING AND SHIELDING TECHNIQUES IN INSTRUMENTATION	3+0	7,5		
	505701512	INTELLIGENT CONTROL SYSTEMS	3+0	7,5		
	505701501	INTRODUCTION TO LINEAR TRANSFORMATIONS	3+0	7,5		
	505701502	INTRODUCTION TO MOBILE ROBOTS	3+0	7,5		
	505702510	LEARNING-BASED CONTROL	3+0	7,5		
	505701508	LINEAR PROGRAMMING FOR ENGINEERING SCIENCES	3+0	7,5		
	505701505	MEMORY DEVICES AND TECHNOLOGIES	3+0	7,5		
	505701507	MEMS BASED ACCELEROMETERS AND NAVIGATION	3+0	7,5		
	505701510	MICROWAVE TECHNIQUES AND APPLICATIONS	3+0	7,5		
	505701516	OPTIMAL POWER SYSTEM OPERATION I	3+0	7,5		
	505702513	OPTIMAL POWER SYSTEM OPERATION II	3+0	7,5		
	505701511	PATTERN RECOGNITION FUNDAMENTALS	3+0	7,5		
	505701503	POWER SYSTEM PROTECTION I	3+0	7,5		
	505702503	POWER SYSTEM PROTECTION II	3+0	7,5		
	505702505	SEMICONDUCTOR DEVICE FABRICATION AND CHARACTERIZATION	3+0	7,5		
	505702507	SEMICONDUCTOR POWER DEVICES	3+0	7,5		
505701509	SEMICONDUCTOR SOLAR CELLS	3+0	7,5			
505702511	SIGNAL CLASSIFICATION	3+0	7,5			
505702514	SENSOR TECHNOLOGY	3+0	7,5			
505701513	SPEECH PRODUCTION AND ANALYSIS	3+0	7,5			
Elektrik Elektronik Mühendisliği DR (İngilizce) Electrical Electronics Engineering PhD (English)	505711501	APPLIED COMPUTER VISION FOR ROBOTICS	3+0	7,5	<a href="#">DBF (CIF)</a>	Sorumlu Öğretim Üyesi
	505711502	INTRODUCTION TO ROBOTICS	3+0	7,5		
	505711503	BIOMEDICAL PATTERN RECOGNITION	3+0	7,5		
	505712601	ROBOT PATH PLANNING	3+0	7,5		
	505712602	DIFFRACTION THEORY	3+0	7,5		
	505712603	NONLINEAR PROGRAMMING FOR ENGINEERING SCIENCES	3+0	7,5		
	505712604	MACHINE LEARNING FOR COMPUTER VISION APPLICATIONS	3+0	7,5		
	505712605	CONTROL OF ROBOTIC MANIPULATORS	3+0	7,5		
	505712606	ANALYTICAL METHODS IN ELECTROMAGNETIC THEORY	3+0	7,5		
	505712607	BIOMEDICAL SIGNAL PROCESSING AND MODELLING	3+0	7,5		
	505602502	POLYMERIC-NANO MATERIALS PRODUCTION AND APPLICATIONS	3+0	7,5		
505602501	NANOMATERIALS	3+0	7,5			
505602503	NANOMATERIAL CHARACTERIZATION	3+0	7,5			
505602504	BASICS OF MATERIALS SCIENCE	3+0	7,5			

NANOSCIENCE AND NANOTECHNOLOGY MSc (English)	505602505	NANOMATERIALS IN BIOMEDICAL ENGINEERING	3+0	7,5	<a href="#">DBF (CIF)</a>	Sorumlu Öğretim Üyesi
	505602506	NANOFABRICATION TECHNIQUES	3+0	7,5		
	505602507	CARBON NANOMATERIALS	3+0	7,5		
	505601501	MATERIALS FOR SENSING APPLICATIONS	3+0	7,5		
	505601502	PHYSICAL PROPERTIES OF MATERIALS	3+0	7,5		
	505602508	NANOMATERIALS IN SUSTAINABLE ENERGY PRODUCTION	3+0	7,5		