

ESOGU Graduate School of Natural and Applied Sciences
Offered Courses for Erasmus + Graduate Students

Department	Code	Course Name	Credit	ECTS Credit	Course Information	Lecturer
Food Engineering	507202901	Lipid Chemistry	3+0	7,5	DBF (CIF)	Doç. Dr. Onur KETENOĞLU
	507202902	Physical Properties of Foods	3+0	7,5	DBF (CIF)	Doç. Dr. Onur KETENOĞLU
	507202903	Experimental Design and Statistical Approaches in Food Engineering	3+0	7,5	DBF (CIF)	Doç. Dr. İlyas ATALAR
	507202904	Powder Technologies in Food Engineering	3+0	7,5	DBF (CIF)	Doç. Dr. İlyas ATALAR
Physics	501301901	Cellular Biophysics	3+0	7,5	DBF (CIF)	Prof. Dr. Sertaç EROĞLU
	501302901	Experimental Techniques in Biophysics	3+0	7,5	DBF (CIF)	Prof. Dr. Sertaç EROĞLU
	501301902	Thin Film Coating and Characterization	3+0	7,5	DBF (CIF)	Prof. Dr. İdris AKYÜZ
Agriculture Biotechnology	506602901	Basic Biotechnology	3+0	7,5	DBF (CIF)	Doç. Dr. Utku AVCI
	506612902	Advanced Microscopy Techniques	3+0	7,5	DBF (CIF)	Doç. Dr. Utku AVCI
Chemical Engineering	503502901	Advanced Mass Transfer	3+0	7,5	DBF (CIF)	Prof. Dr. O.Sermet KABASAKAL
	503502902	Membrane Processes	3+0	7,5	DBF (CIF)	Prof. Dr. O.Sermet KABASAKAL
	503511901	Advanced Reactor Design	3+0	7,5	DBF (CIF)	Prof. Dr. Mine ÖZDEMİR
	503502903	Advanced Chemical Reaction Engineering	3+0	7,5	DBF (CIF)	Prof. Dr. Mine ÖZDEMİR
Metallurgical and Material Engineering	503901901	Advanced Biomaterials and Applications	3+0	7,5	DBF (CIF)	Y.Doç. Dr. Hüseyin AVCI
Polymer Science and Technology	505411901	Polymer Composites	3+0	7,5	DBF (CIF)	Prof. Dr. Vural BÜTÜN
	505401901	Fundamentals of Polymer Chemistry	3+0	7,5	DBF (CIF)	Prof. Dr. Sermet KABASAKAL
	505412901	Functional Polymers and Modifications	3+0	7,5	DBF (CIF)	Prof. Dr. Vural BÜTÜN
	505411902	Synthesis and Characterization of Macromolecules	3+0	7,5	DBF (CIF)	Prof. Dr. Vural BÜTÜN
	505402901	Polymer Characterization	3+0	7,5	DBF (CIF)	Prof. Dr. Vural BÜTÜN
Civil Engineering	503302901	Advanced Soil Mechanics	3+0	7,5	DBF (CIF)	Y.Doç. Dr. Kamil B.AFACAN
Industrial Engineering	503212901	Stochastic Processes	3+0	7,5	DBF (CIF)	Y.Doç. Dr. Aykut ARAPOĞLU
Aviation Science and Technology	506701901	Aircraft Fuselage	3+0	7,5	DBF (CIF)	Doç. Dr. Melih Cemal KUŞHAN
Electrical Electronics Engineering MSc (English)	501011901	THE SCIENTIFIC RESEARCH METHODS AND ITS ETHICS	3+0	7,5	DBF (CIF)	
	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			
505702514	SENSOR TECHNOLOGY	3+0	7,5			
505702511	SIGNAL CLASSIFICATION	3+0	7,5			
505701513	SPEECH PRODUCTION AND ANALYSIS	3+0	7,5			
Electrical Electronics Engineering PhD (English)	505711501	APPLIED COMPUTER VISION FOR ROBOTICS	3+0	7,5	DBF (CIF)	
	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		
NANOSCIENCE AND NANOTECHNOLOGY MSc (English)	505602502	POLYMERIC-NANO MATERIALS PRODUCTION AND APPLICATIONS	3+0	7,5	DBF (CIF)	
	505602501	NANOMATERIALS	3+0	7,5		
	505602503	NANOMATERIAL CHARACTERIZATION	3+0	7,5		
	505602504	BASICS OF MATERIALS SCIENCE	3+0	7,5		
	505602505	NANOMATERIALS IN BIOMEDICAL ENGINEERING	3+0	7,5		
	505602506	NANOFABRICATION TECHNIQUES	3+0	7,5		
	505602507	CARBON NANOMATERIALS	3+0	7,5		
	505602508	NANOMATERIALS IN SUSTAINABLE ENERGY PRODUCTION	3+0	7,5		
	505601501	MATERIALS FOR SENSING APPLICATIONS	3+0	7,5		
	505601502	PHYSICAL PROPERTIES OF MATERIALS	3+0	7,5		