



Süleyman Demirel Üniversitesi Mevlana Exchange Programme Course List



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*Please note that there are two Civil Engineering departments: one in Faculty of Technology and the other in Faculty of Engineering. Incoming Civil Engineering students choose courses from both of these departments.

FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES

Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Economics	IKT-423	Economic Relations Between Turkey and the EU	EUs historical enlargement process. A historical assessment of Turkey-EU relations. Effects of Customs Union on Turkey. Assessment of Maastricht Criteria in terms of Turkey and the new EU members. Assessment Euro zone in terms of optimal money area. Full membership process and assessment of current situation. A general assessment on Turkey's full membership to the EU.	5,00	Prof.Dr. Levent KÖSEKAHYAOĞLU leventkosekahyaoglu@sdu.edu.tr +90 246 211 30 72
Department of Business Administration	ISL-316	E-Commerce	Overview of Electronic Commerce (EC), E-Marketplaces (Auctions, Portals etc.), E-Tailing Products and Services, Online Marketing and Online Consumer Behavior, Business- to-Business E-Commerce, E-Government and E-Learning, Web 2.0, Social Networks and Search Engine Optimization, E-Commerce Security, Payment Solutions and Order Fulfillment, E-Commerce Strategy and Global Issues, Legal, Ethical and Tax Issues, Launching an E-Commerce Business, E-Commerce Business Analysis Term Project.	5,00	Assoc.Prof. M. Zihni TUNCA mustafatunca@sdu.edu.tr +90 246 211 30 36
Department of Econometrics	EKO-201	Statistical Analysis I	Probability in Univariate and Multivariate Random Variables, Probability Density Functions, Cumulative Distributions, Joint Density Functions, Independent Random Variables and Conditional Probability Functions, Expected Values of a Random Variable and its Functions, Properties of One Dimension Expected Value Operator, Expected Value in Joint Density Functions, Properties of One Dimension Expected Value Operator in Joint Density Functions, Conditional Expected Value, Variance of Random Variables	4,00	Assist. Prof. Aliye A. KAYIŞ aliyekayis@sdu.edu.tr

			and Properties of Variance, Conditional Variance, Moments and Limit Theorems.		
Department of Public Administration	KYO206	Public Policies	The concepts of policy and public policy, the content, characteristics and dimensions of public policies, the principles and values involved in public policy making process, decision making and public policy making processes, the theories of public policy making, actors in the public policy making, public participation, policy measures taken by welfare state, international and national labor movements, social assistance and social security systems, measures against discrimination, poverty, income inequalities, social and economic exclusion, public policy in an international perspective	6,00	Prof.Dr. Hüseyin GÜL huseyingul@sdu.edu.tr +90 246 211 44 84
FACULTY OF THEOLOGY					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
		Islamic Thought and Philosophy 1-2	The historical and philosophical background to Islam. Sources of Islamic thought. The Qur'an, The Hadith, Scholarly Consensus, Reasoning. Beliefs, rituals, and relations. The Five pillars of Islam Impact of thought on culture. Ground discussions on thought and philosophy. School of thoughts. Divergence in sciences. Mutekallimun, Maturidi, Asharites, Cabriyya, Mutazilates. Kindi, Farabi, Ibn Sina, Ghazali, Ibn Rushd traditions.	6,00	Assoc. Prof. Latif Hacinebioğlu hacinebioglu@yahoo.com +90 246 211 45 78
		Islamic History and Civilisation (I-II)		5,00	Prof. İsmail Hakkı Göksoy ismailgoksoy@sdu.edu.tr +90 246 211 45 20

FACULTY OF FORESTRY					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Forest Engineering	ORM-105	Introduction to Forest Engineering	Principle concepts in forestry, Development of product and services in forest ecosystems, Environment-forestry relationships, Management of forest resources, Hazards and protection measures in forestry, Management and organization of forestry sector, One daily field trip	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr +90 246 211 39 41
Department of Forest Engineering	ORM-256	Plant Nutrition	Concept of plant nutrition and nutrient cycle, Nutritional elements, Diagnosis of nutritional disorders and treatment options, Fertilization in forestry and nursery, Effects of cultural practices on plant nutrition and nutrient cycle, An applied independent study and a seminar on a related subject	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr +90 246 211 39 41
Department of Forest Engineering	ORM-355	World Forestry	Global forest resources, Distribution of world forestry by continents, Economical, ecological and social functions of forest resources, Woody and non-wood forest products, Role of forests in biodiversity, climate change and carbon sequestration, Influence of recent global development on Turkish forestry	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr +90 246 211 39 41
Department of Forest Engineering	ORM-451	Vocational English I	English grammar, Basic terminology in forestry, English synonyms, Reading, Oral communication in English on forestry related subjects, Oral presentation in English, Translation from English	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr +90 246 211 39 41
Department of Forest Engineering	ORM-452	Vocational English II	Basic terminology in forestry and their synonyms in English, Reading and speaking in English, Oral presentation, Translation into English, Evaluation	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr

			of the results of a scientific study, Preparation of a CV		+90 246 211 39 41
Department of Forest Engineering	ORM-802	Forest Science	Principle concepts in forestry, Development of product and services in forest ecosystems, Environment-forestry relationships, Management of forest resources, Hazards and protection measures in forestry, Management and organization of forestry sector, One daily field trip	3,00	Assist. Prof. Nevzat GÜRLEVİK nevzatgurlevik@sdu.edu.tr +90 246 211 39 41
Department of Forest Engineering	01OEM5149	Chemical Materials from Biomass	This course will introduce you to the fascinating world of lignocellulosic material . Students will have knowledge on lignocellulosic materials especially on wood, its components and chemicals and products from it.	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	01OEM5146	Cellulosic Copolymers	Cellulose, grafting methods and characterization .	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	OEM-203	Forest Products Chemistry	Wood macroscopic and microscopic structure, cellulose hemicellulose lignin and extractive materials. Wood modification and wood component modification	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	OEM-204	Wood Adhesives	Classification of adhesives according to specification, variables on wood-adhesive bonding, adhesion theories, adhesives in Department of Forest Engineering forest products industry, experimental approaches for determining bonding performance of woods	5,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	OEM-308	Paper Manufacturing	Water chemistry, Stock Preparation Paper Machine Wet End Additives Paper Machine Wet End Operations, Paper Machine Dry End Operations, Other Paper and Paperboard Formers and Products Surface Treatments,	4,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr

			Finishing Operations, Paper End Uses Properties and Testing of Pulp and Paper Process Control		+90 246 211 39 57
Department of Forest Engineering	OEM-357	Ligno Cellulosic Polymer Chemistry	Introducing the students with the methods of polymer synthesis and analysis of cellulose chemistry and derivatives	5,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	OEM-452	Wood Modification Techniques	Wood chemistry and functionality, Reactivity and accessibility of cellulose, hemicelluloses and lignin, Chemical modification of cellulose and lignin Chemical modification of solid wood, Determination of physical, mechanical and chemical properties of chemically modified wood	5,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	01OEM5102	Pulping Chemistry	Carbohydrate and Lignin Chemistry, pulping and testing properties of pulp	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	OEM-455	Paper Cardboard Packaging Technology	Giving basic information on Paper paperboard packaging production techniques, folding and packaging design and chemicals	5,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	01OEM5104	Bleaching Chemistry	Lignin Chemistry Bleaching Cl, ClO ₂ , H ₂ O ₂ , O ₂ , O ₃ TCF ECF Bleaching methods	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57
Department of Forest Engineering	01OEM5108	Wood Polymer Composites	Definition, Classification polymers, Wood Structure and Chemistry, Adhesion and Adhesion Theory, Wood Plastic Composite Production Methods, Utilization	6,00	Assoc. Prof. Birol ÜNER biroluner@sdu.edu.tr +90 246 211 39 57

Department of Forest Engineering	01OEM5111	Mechanics of Wood and Wood Composites	Analyses and design of wood beams and frames under different loading conditions	6,00	Assoc. Prof. Ergün GÜNTEKİN ergunguntekin@sdu.edu.tr +90 246 211 39 67
Department of Forest Engineering	01OEM5112	Computer Aided Design	Utilization of some commercial software in solid modeling	6,00	Assoc. Prof. Ergün GÜNTEKİN ergunguntekin@sdu.edu.tr +90 246 211 39 67
Department of Forest Engineering	01OEM9506	Nondestructive Test Methods	General information on nondestructive testing. Mechanical techniques and their application. Acoustic methods and their applications. Thermal method and its applications.	6,00	Assoc. Prof. Ergün GÜNTEKİN ergunguntekin@sdu.edu.tr +90 246 211 39 67
Department of Forest Engineering	01OEM9507	Engineered Wood Products	Introduction to engineered wood products for mechanical applications. Manufacture of engineered wood products. Engineering design.	6,00	Assoc. Prof. Ergün GÜNTEKİN ergunguntekin@sdu.edu.tr +90 246 211 39 67
Department of Forest Engineering	01OEM5128	Glues and Gluing Techniques	Classification of glues, performance expectations from adhesive bonded materials, adhesion principles	6,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	01OEM5109	Special Topics in Pulp and Paper Industry	Conventional papermaking processes, alternative new papermaking processes, general structure of paper industry to environment, new environmentally friendly pulping and paper Technologies	6,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	01OEM5145	Bleaching Techniques of Pulp	Determination residual lignin on pulps, preparation of pulps for bleaching, conventional pulp bleaching techniques, alternative pulp	6,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr

			bleaching techniques, quality and optical control on bleached pulps		+90 246 211 39 75
Department of Forest Engineering	01OEM5106	Cellulose and its derivatives	Consideration cellulose's chemical and physical properties and converting to various cellulose based products	6,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	OEM-208	Fiber Technology		4,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	OEM304	Ligno Cellulosic Composites	Manufacturing process of lignocellulosic composites, Test methods and end use areas	6,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	OEM307	Wood Surface Finishing	Classification of wood surface finishing agents, introduction of surface finishing stages, introduction to protective and decorative surface chemicals, determination of quality level for practiced surface finishing	4,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	OEM355	Industrial Materials	Iron and steel based materials, structural properties, alloys, material test methods, wood-polymer composites, textiles, sunglasses, glasses	5,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75
Department of Forest Engineering	OEM358	Paper Recycling	Classification of used paper products, definition of recycling process stages, the effects of some variables on cellulose fibers during recycling, utilization of recycled fibers for papermaking, one daily field study	5,00	Assoc. Prof. H. Turgut ŞAHİN halilsahin@sdu.edu.tr +90 246 211 39 75

Department of Landscape Architecture	PEM102	History of Landscape Design	Influences of lifestyles, traditions, religions, wars, and wealth to landscape art through history, Origin and historical trend of concept of gardening, Early Ages, Middle Ages, and Italian and French renaissance, Classical and romantic concepts of gardens in 17th., 18th., and 19th. Centuries, Chinese, Japanese, English, French and American gardening, Development trends of Turkish gardening and modern concepts in gardening in the 20th century	3,00	Assoc. Prof. Halil ÖZGÜNER halilozguner@sdu.edu.tr +90 246 211 39 76
Department of Landscape Architecture	PEM209	Planting Design	Design concepts, Principles of design, Planting design, Historical perspective, Planting materials, Visual properties of plants, Structural characteristics of plants, Plant associations and compositions, Principles of visual composition in planting design, Ecological aspects of planting design, Planting design techniques, Project work	5,00	Assoc. Prof. Halil ÖZGÜNER halilozguner@sdu.edu.tr +90 246 211 39 76
Department of Landscape Architecture	01PJM5151	Sustainable Landscape Management	Concept of sustainability. Historical development of sustainability concept. National and international policies on sustainability. Sustainable landscape planning and design. The plant and construction materials used in landscape design practices. Sustainable landscape practices. The social dimensions of landscape sustainability. The community and the landscape professional's view on sustainable landscape. Project works.	5,00	Assoc. Prof. Halil ÖZGÜNER halilozguner@sdu.edu.tr +90 246 211 39 76
FACULTY OF HEALTH SCIENCES					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Physiotherapy and Rehabilitation	FTR-303	Orthopedic Physiotherapy	Rheumatoid Arthritis And Rehabilitation Ankylosing Spondylitis And Rehabilitation Osteoarthritis And Rehabilitation Kongenital Hip Dislocation And Rehabilitation	4,00	Assist. Prof. Zeliha Başkurt zbaskurt@sdu.edu.tr +90 246 211 47 69

FACULTY OF TECHNOLOGY					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Electrical-Electronics Engineering	FIZ-125	Pyhsics I	Measurements and Physical Quantities; Vectors; Motion in 1D and 2D; Force and Motion I; Force and Motion II; Kinetic Energy and Work; Potential Energy and Conservation of Energy; Systems of Particles and Linear Momentum; Conservation of Momentum and Collisions; Rotational Motion; Rolling, Torque, and Angular Momentum	8,00	Assist. Prof. Mehmet Uzunkavak mehmetuzunkavak@sdu.edu.tr +90 246 211 14 34
Department of Electrical-Electronics Engineering	FIZ-126	Physics II	Electric Charge; Electric Fields; Gauss? Law; Electric Potential; Capacitance; Current and Resistance; Circuits; Magnetic Fields; Magnetic Fields Due to Currents.	3,00	Assist. Prof. Mehmet Uzunkavak mehmetuzunkavak@sdu.edu.tr +90 246 211 14 34
Department of Civil Engineering	INM-218	Earthquake engineering & Soil Dynamics	Earthquake response of SDOF systems; geotechnical considerations of earthquake engineering and foundation vibrations. Seismic surveying; ground motion during earthquakes; determination of soil properties for ground response analysis;dynamic properties of soils; soil structure interaction effects; soil liquifaction; dynamic analysis of earthfill dams and rockfill dams; settlements resulting from earthquakes, lateral earth pressures during earthquakes;foundation vibrations.	4,00	Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr
Department of Civil Engineering	INM-303	Soil Mechanics I	Basic principles of soil mechanics and fundamentals of application in engineering practice; origin of soil; determination and interpretation of soil properties for engineering purposes (mechanical analysis of soil, particle-size distribution curve, particle shape, weight-volume relationships, plasticity); engineering soil composition and texture classification; permeability and seepage; soil compaction;		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr

			consolidation; in-situ stresses; stresses in a soil mass; compressibility of soil and settlement; shear strength; shallow and deep foundations; bearing capacity of foundations.		
Department of Civil Engineering	INM-209	Engineering Geology for Civil Engineers	Soil and rock types, engineering properties of soils and rocks, methods of site site investigation, exploratory drilling, in situ testing; site excavations; blasting; rock slopes; treatment of soft soils.		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr
Department of Civil Engineering	INM 304	Soil Mechanics II	Lateral earth pressures; fundamentals of retaining structures-retaining structure types; analysis and design of retaining walls, anchored bulkheads,braced cuts, tie back cuts, mechanically stabilized earth, and slurry trench walls; slope stability; sub-surface exploration; Landfill liners and geosynthetics; Soil improvement; soil liquefaction and geotechnical earthquake engineering fundemantals.		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr
Department of Civil Engineering	INM-331	Engineering of Energy Structures	Renewable energy; wind and solar energy structures (feasibility, planning and design: structure types, site investigations, power calculation, structural loads, foundation design, costs); Hydro-electric projects (small hydro design principles, dams and hydro-power plants, site investigations, feasibility and planning)		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr
Department of Civil Engineering	INM-320	Dams & Hydroelectric Structures	Hydro-power & dam engineering (types of dams, design principles of earthfill and rockfill type dams, gravity dam design, instrumentations of dams, failures of dams, dams & environment, spillway structures, outlet structures, inlets, conduits and tunnels, hydropower plant and turbine design)		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr
Department of Civil Engineering	INM-328	Slope Stability Analysis	Seepage and ground water flow; flow net; slope failure types, stability of infinite and finite slopes, circular and non-circular slope analysis; total and effective stress methods of slope analysis;		Assist.Prof. Uğur Şafak Çavuş ugurcavus@sdu.edu.tr

			selection of soil parameters; stability of earthfill dams and embankments; filters for dams; slope stability software usage.		
FACULTY OF AGRICULTURE					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Animal Science	ZTB252	Animal Biotechnology		4,00	Assoc. Prof. Sulhattin Yaşar sulhattinyasar@sdu.edu.tr +90 246 211 86 05
Department of Animal Science	ZTB251	Animal Food Safety		4,00	Assoc. Prof. Sulhattin Yaşar sulhattinyasar@sdu.edu.tr +90 246 211 86 05
Department of Animal Science	ZTB327	Animal Production in European Union and Turkey		3,00	Assoc. Prof. Sulhattin Yaşar sulhattinyasar@sdu.edu.tr +90 246 211 86 05
Department of Animal Science	ZTB413	Poultry Nutrition		6,00	Assoc. Prof. Sulhattin Yaşar sulhattinyasar@sdu.edu.tr +90 246 211 86 05

Department of Agricultural Biotechnology	TBT201	Biochemistry		Assoc.Prof. Yaşar KARAKURT ykarakurt@ziraat.sdu.edu.tr +90 246 211 85 42
	TBT5020	Basic Principles of Biochemistry		Assoc.Prof. Yaşar KARAKURT ykarakurt@ziraat.sdu.edu.tr +90 246 211 85 42
	TBT5200	Molecular Laboratory Methods		Assoc.Prof. Yaşar KARAKURT ykarakurt@ziraat.sdu.edu.tr +90 246 211 85 42
	TBT5210	Plant Biotechnology and its Applications		Assoc.Prof. Yaşar KARAKURT ykarakurt@ziraat.sdu.edu.tr +90 246 211 85 42
	TBT5220	Plant Molecular Biology and Genetics		Assoc.Prof. Yaşar KARAKURT ykarakurt@ziraat.sdu.edu.tr +90 246 211 85 42

	TEB422	Agricultural Marketing	Importance of agricultural marketing at micro and macro level, its working principals, stages from production decision to final consumer and relevant case studies from Turkey and the world	4,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00
	GDM321	Food Marketing		3,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00
	01TRE5141	Agricultural Commodity Markets		6,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00
	01TRE5130	Food Economics		6,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00
	01TRE5133	Agricultural Marketing Research		6,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00
	01TRE5150	European Project Cycle Management (PCM)		6,00	Assoc. Prof. Fatma Handan Giray handangiray@sdu.edu.tr +90 246 211 85 00

FACULTY OF ENGINEERING					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Civil Engineering	INS-206	Fluid Mechanics		6,00	Prof. Dr. Mustafa Erol KESKİN erolkeskin@sdu.edu.tr +90 246 211 11 92
Department of Civil Engineering	INS-301	Hydraulics		5,00	Prof. Dr. Mustafa Erol KESKİN erolkeskin@sdu.edu.tr +90 246 211 11 92
Department of Civil Engineering	INS-215	Probability and Optimization in Engineering		4,00	Assist. Prof. Soner UZUNDURUKAN uzers@mmf.sdu.edu.tr +90 246 211 12 04
Department of Civil Engineering	INS-205	Strength of Materials 1		5,00	Assist. Prof. Mehmet AVCAR mehmetavcar@sdu.edu.tr +90 246 211 12 18
Department of Civil Engineering	INS-202	Strength of Materials 2		4,00	Assist. Prof. Mehmet AVCAR mehmetavcar@sdu.edu.tr +90 246 211 12 18
Department of Civil Engineering	INS-106	Statics		4,00	Assist. Prof. Mehmet AVCAR mehmetavcar@sdu.edu.tr +90 246 211 12 18

Department of Textile Engineering	TKS-403	Nonwoven Technology		5,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Textile Engineering	TKS-469	Nonotechnology and Textile Applications		4,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Textile Engineering	TKS-480	Polymer Composite Structures		6,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Textile Engineering	TKS-255	Introduction to Polymer Technology		6,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Textile Engineering		Nanotechnology and Nanofibers		6,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Textile Engineering		Nonwoven Technologies		6,00	Assist. Prof. M.Fatih CANBOLAT fatihcanbolat@sdu.edu.tr +90 246 211 11 88
Department of Electronics & Com. Engineering	EHM-252	Signals and Systems			Assist. Prof. Evren EKMEKÇİ evrenekmekci@sdu.edu.tr

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Department of Electronics & Com. Engineering		Numerical Techniques in Electromagnetics			Assist. Prof. Evren EKMEKÇİ evrenmekci@sdu.edu.tr +90 246 211 13 62
Department of Industrial Engineering	END-458	Expert Systems		4,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18
Department of Industrial Engineering	END-307	Ergonomics		4,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18
Department of Industrial Engineering	END-303	Engineering Economics		5,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18
Department of Industrial Engineering	END-311	Modern Production Systems		4,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18
Department of Industrial Engineering	END-336	Management Information Systems		2,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18

Department of Industrial Engineering	END-308	Facilities Planning		3,00	Prof. Hasan Hüseyin ÖNDER honder71@gmail.com +90 246 211 15 18
Department of Industrial Engineering		Design of Experiments and Analysis		6,00	Assist. Prof. Gültekin ÖZDEMİR gultekinozdemir@sdu.edu.tr +90 246 211 12 92
Department of Computer Engineering	BIL-211	Data Structures and Algorithms		7,00	Assist. Prof. Habil KALKAN habilkalkan@sdu.edu.tr +90 246 211 13 80
Department of Computer Engineering	BIL-313	Fundamentals of Image Processing		7,00	Assist. Prof. Habil KALKAN habilkalkan@sdu.edu.tr +90 246 211 13 80
Department of Computer Engineering	BIL-302	Computer Networks		4,00	Prof. Akif KUTLU akutlu@hotmail.com +90 246 211 13 75
Department of Computer Engineering	BIL-405	Artificial Intelligence		5,00	Assoc. Prof. Bayram ÇETİŞLİ bayramcetisli@sdu.edu.tr +90 246 211 15 63

Department Of Chemical Engineering		Green Chemistry & Sustainable Development (Graduate and Undergraduate students)		4,00	Assist. Prof. Mehmet GÖNEN gonen19@gmail.com +90 246 211 13 91
Department Of Food Engineering	GDM-211	Fluid Mechanics	Introduction to unit operations of food engineering and momentum transfer. General concepts of fluid flow. Newtonian and non-Newtonian fluids. Macroscopic mass, momentum and energy balances. Friction factors, flow around submerged objects. Dimensional analysis. Flow metering and transport devices.	4,00	Assist. Prof. Erkan KARACABEY erkankaracabey@sdu.edu.tr +90 246 211 1624
Department Of Food Engineering	GDM-302	Food Engineering Operations II	Boiling and condensation, evaporation and concentration. Drying and crystallization. Equilibrium processes, membrane separation processes. Mechanical separation processes.	3,00	Assist. Prof. Erkan KARACABEY erkankaracabey@sdu.edu.tr +90 246 211 1624
FACULTY OF DENTISTRY					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Dentomaxillofacial Radiology	DIS305	Oral Diagnosis and Radiology I	Radiation and x-rays, X-ray machine and production of X-rays, Factors controlling the X-ray beam, Interactions of X-rays with matter, Radiation effects on the oral cavity, Sources of radiation and radiation protection, X-ray film, Image characteristics, Projection geometry and intraoral radiographic	5,00	Assist. Prof. Dr. Derya YILDIRIM dtderya_yld@yahoo.com +90 246 211 87 70

			<p>techniques, Processing x-ray film, common causes of faulty radiographs, quality and infection control, Normal radiographic anatomy, guidelines for prescribing dental radiographs, Anamnesis, Examination methods, Intraoral examination, Extraoral examination, Neurologic examination and examination of muscles, Systemic diseases and the importance in dentistry.</p>		
Department Of Endodontics	2101122	Endodontics II	<p>History of endodontics, aim and content Root canal anatomy and access cavities Endodontic equipment Determination of working length Lateral compaction technique Embriology, histology, physiology, ultrastructure of the pulp Shaping of the root canal(conventional step-back technique) Pulpal inflamations</p>	6,00	<p>Prof. Dr. Ayşe Diljin KEÇECİ diljink@med.sdu.edu.tr + 90 246 211 87 82</p>
Department Of Endodontics	2101123	Endodontics III	<p>Pulpal pathosis Root-canal medicaments Rotary systems in root canal shaping Contemporary root canal obturation techniques Diagnosis and planing in endodontic treatment Vital pulp therapy Isolation in endodontics Retreatment Endodontic microbiology</p>	7,00	<p>Prof. Dr. Ayşe Diljin KEÇECİ diljink@med.sdu.edu.tr + 90 246 211 87 82</p>
Department Of Endodontics	2101327	Endodontics IV	<p>Embriology, histology, anatomy and physiology of periapical tissue Periapical diseases Approach to the patient in endodontics Endodontic emergencies Endo-periodontal lesions</p>	6,00	<p>Prof. Dr. Ayşe Diljin KEÇECİ diljink@med.sdu.edu.tr + 90 246 211 87 82</p>

			Endodontic surgery Endodontic complications Trauma Bleaching therapies Post-endodontic restorations Endodontic success and failure		
Department Of Orthodontics	DIS-304	Orthodontics I	Definition and Goals of Orthodontic Treatment Definition of Normal Occlusion Concepts of Growth and Development Early Stages of Development Later Stages of Development Growth Patterns in the Dentofacial Complex Primary Dentition and Permanent Dentition Etiology of Orthodontic Problems Congenital Anomalies Cleft lip and Palate - Craniofacial Anomalies Skeletal Anomalies in Orthodontics Analysis and Diagnostic Records Cephalometry Biologic Basis of orthodontic Therapy Anchorage TMJ dysfunctions	6,00	Prof. Dr. Hakan Türkkahraman kahraman@med.sdu.edu.tr + 90 246 211 33 14
Department Of Orthodontics	DIS-403	Orthodontics II	Preventive and Interceptive Treatment Removable Appliances Extra-oral Appliances Fixed Appliances Eruption Problems and Treatment Alternatives Space Related Problems and Treatment Alternatives Myofunctional Treatment Functional Appliances Treatment of Class II Problems Treatment of Openbite Problems Treatment of Transversal Problems Treatment of Class III Problems Treatment of Preadolescent Children	6,00	

			Treatment of Adults Orthognathic Surgery Distraction Osteogenesis in orthodontics Cleft and Palate Treatment Retention		
Department Of Pediatic Dentistry	DIS308	Pediatic Dentistry I	Development and morphology of the primary and permanent teeth Eruption of teeth; local, systemic and congenital factors that influence the process Dental materials Non pharmacologic management of children Ideal treatment methods Radiographic techniques	4,00	Prof. Dr. Zuhal KIRZIOĞLU zuhalkirzioglu@gmail.com +90 246 211 88 33
Department Of Pediatic Dentistry	DIS405	Pediatic Dentistry II	Dental caries in the children and adolescents Preventive dentistry Management of trauma to the teeth and supporting tissues Infection and pain control for the child and adolescent Prosthodontic treatment of the child and adolescent Management of the medically compromised patient and oral findings of diseases	6,00	Prof. Dr. Zuhal KIRZIOĞLU zuhalkirzioglu@gmail.com +90 246 211 88 33

Department Of Prosthetic Dentistry	DIS206	Prosthetic Dentistry I	The knowledge of fabricating complete dentures, the knowledge of fabricating crown and bridge prosthesis, The student should know the terminology for complete dentures, the indications and functions of complete dentures, clinical procedures of complete prosthesis, the laboratory procedures of complete dentures, the terminology for crown and bridge prosthesis, structural units of crown and bridge prosthesis, indications for crown and bridge prosthesis, classifications for crown and bridge prosthesis, basic laboratory procedures for crown and bridge prosthesis, the basic clinical procedures for crown and bridge prosthesis	16,00	Assoc. Prof. Dr. Erdal Eroğlu prostodontist@hotmail.com +90 246 211 882255
Department Of Prosthetic Dentistry	DIS407	Prosthetic Dentistry III	Treatment planning in fixed prosthesis Tooth preparation, retraction and impression procedures in fixed partial prosthesis. Try in sessions of fixed partial prosthesis. Cementation procedures in metal reinforced fixed partial prosthesis. Temporary crowns and fabrication techniques Major connectors in removable partial prosthesis. Cementation procedures in fixed partial prosthesis. Shade selection, tooth form and esthetics in fixed partial prosthesis. Obtaining oral hygiene with fixed partial prosthesis. All-ceramic restorations. Failures in fixed partial prosthesis, techniques to remove crown prosthesis. Repair techniques in fixed partial dentures. Resin bonded applications in prosthetic dentistry. Prosthetic rehabilitation of endodontically and surgically compromised	11,00	Assist. Prof. Dr. Işın Kürkçüoğlu isinkurk@gmail.com +90 246 211 8819

			<p>teeth. Prosthetic rehabilititon of endodontically and surgically compromised teeth. Precision attechments in fixed partial prosthesis. Esthetics in Prosthetic Dentistry.</p> <p>Direct and Indirect retainers and minor connectors in removable partial prosthesis. Clasps in removable partial prosthesis, Surveying the study model in removable partial prosthesis. Treatment planning in removable partial prosthesis and Kennedy Classification. Laboratory procedures in metal framed removable partial prosthesis. Precision attachments in removable partial prosthesis. Base plate and wax rimming. Face bow and interocclusal recordings. Tooth selection, tooth aligning and try in session in complete dentures. Finishing of complete dentures and delivery to the patient. Problem solving after delivery of complete dentures. phonetics in complete dentures.</p>		
FACULTY OF ARTS & SCIENCES					
Department	Course Code	Course Name	Course Content	Course Credit	Lecturer and Contact Information
Department of Physics	FIZ-101	Physics I (Mechanics I)	Physics and Measurement, Physical Quantities and Vectors, Motion in One Dimension, Motion in Two Dimension, The Laws of Motion, Work and Kinetic Energy, Potential Energy and Conservation of Energy, Impuls-Linear Momentum and Collisions, Center of Mass and Equilibrium, Static Equilibrium and Elasticity.	8,00	Prof. İskender AKKURT iskenderakkurt@sdu.edu.tr +90 246 211 40 33
Department of Physics	FIZ-102	Physics II (Electricity and Magnetism I)	Electric Charge and Force, Electric Fields, Gauss's Law, Electric Potential, Capacitance, Current and Resistance, Direct Current Circuits, Magnetic Fields, Magnetic Fields Due to Currents, Inductance and Faraday's Law.	7,00	Prof. İskender AKKURT iskenderakkurt@sdu.edu.tr +90 246 211 40 33

Department of Physics	FİZ-407	Nuclear Physics I	Introduction to nuclear physics, Rutherford scattering, properties of nucleus, nuclear models, radioactivity.	5,00	Prof. İskender AKKURT iskenderakkurt@sdu.edu.tr +90 246 211 40 33
Department of Physics	FİZ-106	Introduction to Computational Physics	General Information about Computers, Operating systems, Software Packages:Excel\ Maple, Mathcat, Matlab etc., Excel Basics, Solving Algebraic Equations, Slope, Fitting Data Sets, Mathematical Modeling of physics problems.	5,00	Assoc. Prof. Erdal DİKMEN erdaldikmen@sdu.edu.tr +90 246 211 40 41
Department of Physics	FİZ-211	Unix and Linux Systems	Unix and Linux Operating Systems, Overview, Unix File System, Unix Commands, X-Window, Unix Text Editors, Some graphic tools, C and Fortran Programming in Unix.	4,00	Assoc. Prof. Erdal DİKMEN erdaldikmen@sdu.edu.tr +90 246 211 40 41
Department of Physics	FİZ-404	Plasma Physics	Definition of Plasma, Debye Length, Plasma Frequency, Drift motions, Bohm criteria, Sheath, Presheat, Diffusion, Magnetic Diffusion, Cold Plasmas, Magnetized and Unmagnetized Plasmas, Plasma Production techniques, Kinetic Theory	5,00	Prof. Lütü ÖKSÜZ lutfioksuz@sdu.edu.tr +90 246 211 17 96
Department of Physics	FİZ-414	Solar Energy	Solar energy, its geometry its radiation and collector. Active and passive systems. Radiation and collector calculation. Climatic conditions and applications.	5,00	Assist. Prof. Murat KALELİ muratkaleli@sdu.edu.tr +90 246 211 42 47
Department of Physics	FİZ-416	Semiconductor Physics	Quantum mechanics and statistical physics of electrons, electrons in crystals, band structure of semiconductors, pure and doped semiconductors, transport phenomena in semiconductors, junctions in semiconductors.	5,00	Assist. Prof. Murat KALELİ muratkaleli@sdu.edu.tr +90 246 211 42 47
Department of Physics	FİZ-808	Thin Film Coating Systems	1. Introduction to thin films and their applications? 2. Why thin films? 3. Understanding	3,00	Assist. Prof. Murat KALELİ

			thin film growth process 4. Introduction to Vapor deposition techniques I. Physical vapor deposition (PVD) a) Thermal growth method b) E-beam deposition method c) RF/DC Sputtering method d) Pulsed Laser Deposition (PLD) II. Chemical vapor deposition (CVD)5. Introduction to solution deposition techniques a) Chemical Solution Deposition (CSD) b) Electrochemical solution deposition (ECD) c) Classical and Ultrasonic spray pyrolysis d) Sol-gel deposition method e) Spin coating method f) Dipping method 6.Thin film monitoring and analyzing techniques. 7.Basic thin film characterization techniques. a) Electrical characterization b) Optical characterization c) Structural characterization.		muratkaleli@sdu.edu.tr +90 246 211 42 47
Department of Chemistry	KİM-101	General Chemistry I	Atomic Structure (Historical Development of Atomic Theory, Subatomic particles, Quantum Numbers, The Periodic Table and Some Atomic Properties); Molecular Structure and bonding (Lewis Structures, VSEPR Theory, Molecular Orbital Theory); Chemical compounds (Types of chemical compounds and their formulas, Mole concept, oxidation states, nomenclature); Chemical Bonding (Covalent, ionic and metallic bonds); Chemical Reactions (Stoichiometry and Limiting Reactant); Gases (The Simple Gas Laws); Liquids; Solids, Intermolecular Forces; Solutions (Type of Solutions, Solution Concentration)	8,00	Assist. Prof. Sibel DİKMEN sdikmen@fef.sdu.edu.tr +90 246 211 41 64
Department of Chemistry	KİM-102	General Chemistry II	Acids and Bases (Strong acid and strong bases, weak acid and weak bases, polyprotic acids, The common ion effect in acid-base equilibria, Buffer solutions); Chemical Kinetic (Zero order, first-order, second- order reactions, The effect of temperature on reaction rates); Chemical Equilibrium (Relationships involving equilibrium	6,00	Assist. Prof. Sibel DİKMEN sdikmen@fef.sdu.edu.tr +90 246 211 41 64

			constants, Le Chatelier's Principle, Examples about equilibrium calculations); Solubility(Solubility product constant, The common ion effect in solubility equilibria, Solubility and pH); The complex formation and the effect on solubility equilibria; Radioactive properties of compounds.		
Department of Chemistry	KİM-205	Inorganic Chemistry I	Atomic theories, periodic trends, chemical bonding, molecular geometry, molecular orbital theory, solids, and intermolecular interactions.	6,00	Assist. Prof. Sibel DİKMEN sdikmen@fef.sdu.edu.tr +90 246 211 41 64
Department of Chemistry	KİM-206	Inorganic Chemistry II	Acids and bases, coordination compounds, coordination chemistry, metal and nonmetal	6,00	Assist. Prof. Sibel DİKMEN sdikmen@fef.sdu.edu.tr +90 246 211 41 64
Department of Chemistry	KİM-209	Organic Chemistry I	Alkynes, alkyl halides, substitution and elimination reactions, alcohols, ethers, aldehydes and ketones	6,00	Assist. Prof. Serdar ATILGAN serdaratilgan@sdu.edu.tr +90 246 211 41 68
Department of Chemistry	KİM-210	Organic Chemistry II	Carboxylic acid, amides, amines, nitriles, ester and its general properties, synthesis and reactions. Aromaticity and electrophilic aromatic substitution reactions.	6,00	Assist. Prof. Serdar ATILGAN serdaratilgan@sdu.edu.tr +90 246 211 41 68
Department of Chemistry	KİM-309	Instrumental Analysis	Principles of Spectroscopic Methods, Molecular Ultraviolet/Visible Absorption Spectroscopy, Molecular Fluorescence and Phosphorescence Spectroscopy, Atomic Fluorescence Spectroscopy, Infrared Absorption Spectroscopy, Raman Spectroscopy and Laser, Electron Spin Resonance Spectroscopy, Nuclear Magnetic	4,00	Assist. Prof. Serdar ATILGAN serdaratilgan@sdu.edu.tr +90 246 211 41 68

			Resonance Spectroscopy, Atomic Absorption Spectroscopy, Atomic Emission Spectroscopy.		
Department of Mathematics	MAT-101	Analysis-I	Fundamental conceptions of mathematical analysis, set and number conceptions, functions and special functions, sequence of real numbers, convergence, upper and lower limits, properties of continuous functions, derivative, higher order derivative, geometric and physical meaning of the derivative, derivative and some related theorems, indefinite limits, drawing curves.	6,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23
Department of Mathematics	MAT-102	Analysis-II	Indefinite integral, methods of the indefinite integrals, Properties of the Riemann integral and some related theorems, Applications of Riemann integral (Calculation of Area, length of arc, volume and surface area), The Generalized integrals and properties	8,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23
Department of Mathematics	MAT-201	Analysis-III	Infinite series, convergence tests for positive series, sequences and series of functions, uniform convergence, Power series, Taylor series , Maclaurin series, vector valued functions and multi-variable calculus.	8,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23
Department of Mathematics	MAT-202	Analysis-IV	n-dimensional Euclidean space, definition, Euclidean distance or Euclidean metric, topological structures, Multiple Integrals, cylindrical and spherical coordinates, applications of double integrals and triple integrals, applications of multiple integrals. Line integrals: Line integrals of vector fields, alternative forms, properties, closed curves, dependence on path of integration, exact differentials in three independent variables, Green's theorem. Surfaces and surface integrals: Gauss divergence theorem, Green's theorem in the plane, Stokes's theorem. Fourier series: Convergence of the mean, trigonometric series, convergence of trigonometric series, Dirichlet conditions, Fourier	8,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23

			coefficients, Cesaro summability of Fourier series, Fourier integrals, Elliptic functions, Introduction to measure: Measure of open sets, inner and outer measure, properties of measurable sets, measurable functions, Lebesgue integral of a bounded functions		
Department of Mathematics	MAT-305	Complex Variables I	Complex numbers: Definitions and examples Stereographic projection: Definitions and examples Basic Functions: exponential, trigonometric, hyperbolic, logarithmic, inverse trigonometric and inverse hyperbolic functions Mapping by basic functions. Limits, continuity of complex functions Analytic Functions: Derivative and Cauchy-Riemann equations, analytic functions, harmonic functions and applications	6,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23
Department of Mathematics	MAT-306	Complex Variables II	Integrals: Contours, Contour integral, antiderivative, Cauchy-Goursat theorem, simply and multiply connected domains, Cauchy integral formula, derivatives of analytic functions, Liouville's theorem and fundamental theorem of algebra, maximum moduli of functions. Series: Taylor series, Laurent series, absolute and uniform convergence of power series, integration and differentiation of power series. Residues and poles: Residue theorems, singular points, zeros and poles of order m. Applications of residues: Improper integrals, improper integrals involving sines and cosines, definite integrals	5,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23

Department of Mathematics	MAT-409	Real Analysis	Linear spaces, linear mappings, step functions, sets of measure zero, measurable sets and measurable functions, Lebesgue Integrals on measurable sets, Riemann-Stieltjes integral.	5,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23
Department of Mathematics	MAT-407	Functional Analysis I	Metric Spaces: Metric space , examples of metric spaces , Hölder and Minkowski inequalities for sums. Completeness: Complete metric spaces and completion of a metric space. Normed spaces: Definition and examples, Banach spaces, vector space , properties of normed spaces, finite dimensional normed spaces and subspaces. Operators: Definition and examples, linear operators , bounded and continuous linear operators. Functionals: Linear functionals , linear operators and functionals on finite dimensional spaces, spaces of operators and dual spaces.	5,00	Assoc. Prof. Ahmet ŞAHİNER ahmetsahiner@sdu.edu.tr +90 246 211 41 23

Department of Mathematics	MAT-408	Functional Analysis II	<p>Inner product spaces: Hilbert spaces, inner product space , Hilbert space and properties of inner product spaces.</p> <p>Orthonormality: Orthogonal complements and direct sums , series related to orthonormal sequences and sets, total orthonormal sets and sequences.</p> <p>Operators: Legendre , Hermite and Laguerre, polynomials, representation of functionals on Hilbert spaces, Hilbert-adjoint operator, self adjoint operator , unitary and normal operators.</p> <p>Hahn-Banach Theorem: Fundamental theorems for normed and Banach spaces, Zorn's Lemma , Hahn-Banach theorem, Hahn-Banach theorem for complex vector spaces and normed spaces, adjoint operator, reflexive spaces, Category theorem, uniform boundedness theorem , strong and weak convergence , open mapping and closed graph theorems, Banach fixed point theorem.</p>	5,00	<p>Assoc. Prof. Ahmet ŞAHİNER</p> <p>ahmetsahiner@sdu.edu.tr</p> <p>+90 246 211 41 23</p>
Department of Mathematics	MAT-303	Abstract Algebra I	<p>Arithmetic: The division theorem, the Euclidean algorithm and its consequences, linear diophantine equations, modular arithmetic, congruence of integers, linear congruences, the arithmetic of remainders.</p> <p>Groups: Definitions and examples, subgroups, normal subgroups, quotient groups, homomorphism, isomorphism and automorphism.</p> <p>Structure Theorems: Direct products, finitely generated abelian groups, Sylow Theorems.</p>	4,00	<p>Assist. Prof. Barış Bülent KIRLAR</p> <p>bariskirlar@sdu.edu.tr</p> <p>+90 246 211 41 26</p>
Department of Mathematics	MAT-304	Abstract Algebra II	<p>Content Rings: Definition and examples, elementary properties of rings, types of rings, subrings and characteristic of a ring.</p> <p>Ideals and homomorphisms: Ideals, homomorphisms, sums and direct sums, maximal</p>	4,00	<p>Assist. Prof. Barış Bülent KIRLAR</p> <p>bariskirlar@sdu.edu.tr</p>

			and prime ideals, nilpotent and nil ideals. Factorizations domains: Unique factorizations domains, principle ideal domains, Euclidean domains, polynomial rings. Field theory: Field extension, fundamental theorem, finite fields		+90 246 211 41 26
Department of Mathematics	MAT-209	Linear Algebra I	Vectors, the standard vector space, Sub-vector spaces, inner product, inner product space, matrices and matrix spaces, elementary row-column operations, vector spaces belonging to the base, some features, dimensions of subspace, direct sum space, Permutations and Determinants, inverse matrices, additional matrix, Coordinate Transformations, Linear Equation Systems and Solutions. Homogeneous linear equation systems and Solutions.	6,00	Assist. Prof. Barış Bülent KIRLAR bariskirlar@sdu.edu.tr +90 246 211 41 26
Department of Mathematics	MAT-210	Linear Algebra II	Linear Transformations, Linear Transformations of Vector Spaces, Image and kernel of linear transformation, Transition Matrices, Matrix representations of linear transformations, Eigenvalues and eigenvectors, Minimal polynomial and the Cayley-Hamilton Theorem, Similarity transformations and Diagonalization. Linear Programming, Quadratic forms and quadratic surfaces, classification of quadratic surfaces	6,00	Assist. Prof. Barış Bülent KIRLAR bariskirlar@sdu.edu.tr +90 246 211 41 26
Department of Mathematics	MAT-207	Probability and Statistics I	Probability: Counting, Permutation, Combination, Probability Definition, Conditional Probability, Bayes Theorem. Random Variable: Definition of a random variable, probability function, distribution function, expected value and variance of a random variable, joint distributions, some discrete distributions. Continuous Distributions: Normal Distributions and Standard Normal Distributions.	6,00	Assist. Prof. Cüneyt TOYGANÖZÜ cuneyttoyganozu@sdu.edu.tr +90 246 211 41 02

Department of Mathematics	MAT-208	Probability and Statistics II	Data: Data description, stem-and-leaf plot, histogram, looking at data with median and quartiles. Point Estimation: Definition of estimator, sampling distribution, confidence intervals, hypothesis testing. Linear Regression: Linear association of two random variables, correlation, regression analysis	6,00	Assist. Prof. Cüneyt TOYGANÖZÜ cuneyttoygozusu@sdu.edu.tr +90 246 211 41 02
Department of Mathematics	MAT-103	Mathematical Reasoning I	Propositions. Truth tables. Logical equivalencies. Logical implications. Methods of proofs of implications and equivalences. Mathematical Induction. Quantifiers. Sets, subsets, set operations, the laws of set theory. Cartesian product. Relations. Inverse relations. Composition of relations. Equivalence relations. Equivalence classes and Partitions. Order relations: Partial order, total order, well order. Functions. Injective, surjective and bijective functions. Composition of functions and inverse of functions	5,00	Assist. Prof. Duygu ARUĞASLAN ÇİNÇİN duyguarugaslan@sdu.edu.tr +90 246 211 42 80
Department of Mathematics	MAT-104	Mathematical Reasoning II	Binary operations, groups, subgroups and homomorphism of groups. Number systems: Natural numbers, integers, rational and real numbers. Well-ordered sets, axiom of choice. Equipollent sets, finite and infinite sets. Countability of sets.	6,00	Assist. Prof. Duygu ARUĞASLAN ÇİNÇİN duyguarugaslan@sdu.edu.tr +90 246 211 42 80
Department of Mathematics	MAT-203	Differential Equations I	First Order Differential Equations : Concept of differential equation, Separable equations, Homogeneous equations, Linear Equations and Bernoulli Equations, Exact Differential Equations and Integral factor, Riccati Equation. Differential Equations Not Solved For The Derivative: The Existence and Uniqueness for differential equations not solved for the derivative, Different Types, The method of parameter, The Lagrange equation, Clairants equation, Singular solutions	6,00	Assist. Prof. Duygu ARUĞASLAN ÇİNÇİN duyguarugaslan@sdu.edu.tr +90 246 211 42 80

			and the method of is finding. Higher Order Differential Equation : The Existence and Uniqueness theorem for an n-th order differential equation, The most elementary cases of the n-th order, linearly dependent and linearly independent functions, the Wronskian determinant, A fundamental system of solutions, A general solution, Ostrogradsky-Liouville formula, Homogeneous linear differential equations with constant coefficients, Non homogeneous linear differential equation with constant coefficients, Euler?s equation.		
Department of Mathematics	MAT-204	Differential Equations II	Boundary Value Problems : Boundary value problems, Green?s function and properties, A method for constructing Green?s function, Eigenvalues and Eigenfunctions. Systems of Differential Equations : Fundamentals, The Existence and Uniqueness theorem for system of Differential equations, Elementary types of rest points, Lyapunov?s second method, Test for stability, based on First Approximation, Integrating a system of differential equations by reducing it to single equations of higher order system of linear differential equations, Systems of linear differential equations with constant coefficients..	6,00	Assist. Prof. Duygu ARUĞASLAN ÇİNÇİN duyguarugaslan@sdu.edu.tr +90 246 211 42 80
Department of Mathematics	MAT-307	Numerical Analysis I	What is Numerical Analysis?: Definition, goal and properties of numerical analysis. Error Analysis : Error sources, error types. Numerical solutions of nonlinear equations: Bisection Method, Fixed-point iteration, Newton-Raphson method, Regula - Falsi Method, Secant method. Numerical solutions of nonlinear equation systems: Newton method, Fixed point method. Numerical solutions of linear equation systems:	4,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK sirmagok@sdu.edu.tr +90 246 211 42 82

			Newton's Method, Gaussian elimination, LU factorization, Gauss Jordan method, Gauss Seidel Method, Jacobi method, least squares method. Eigenvalue problems: To find the largest and smallest eigenvalues of a matrix, Power method, Inverse power method.		
Department of Mathematics	MAT-308	Numerical Analysis II	Interpolation and polynomial approximation, Numerical differentiation, Numerical integration, Numerical solutions of differential equations, Boundary-value problems, initial-value problems	4,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK sirmagok@sdu.edu.tr +90 246 211 42 82
Department of Mathematics	MAT-403	Applied Mathematics I	Fourier series: ortogonal systems of functions ,trigonometric systems and Fourier series,expansion of functions to Fourier series,properties of Fourier coefficients ,sufficient conditions for expanding to Fourier series,examples,Fourier series in complex form Fourier integral and transformations :definitions ,properties of Fourier integral ,sine and cosine Fourier integrals ,Fourier transformation and properties,examples Laplace transformations: definitions and properties of Laplace transformations,examples,expansion theorems for inverse transformation,convolutions,applications to linear differential equations with constant coefficients. Mathematical models of some bvp for PDE: physical interpretation of some boundary value problems for diffusion and wave equations,Fourier and Laplace methods for solving of bvp for PDE,D?richlet and Neumann problems for Laplace equation.	5,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK sirmagok@sdu.edu.tr +90 246 211 42 82
Department of Mathematics	MAT-404	Applied Mathematics II	Functionals, A necessary condition for an extremum. Integral types functionals; A necessary condition for single variable	5,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK

			functionals, Euler-Lagrange equation. A necessary condition for multivariable functionals, geodesics of surface. Variational problems in parametric form. Variational problems with subsidiary conditions. Isoperimetric problems. Variable endpoint problem. Broken extremals. Transversality conditions. Sufficient conditions for an extremum. Jacobi's condition, Weierstrass function.		sirmagok@sdu.edu.tr +90 246 211 42 82
Department of Mathematics	MAT-411	Partial Differential Equations I	First order equations: Lagrange method, Cauchy problem, Lagrange-Charpit method. Second order equations: Some solutions methods, classification, hyperbolic, parabolic, elliptic equations, adjoint operator, Green formula.	5,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK sirmagok@sdu.edu.tr +90 246 211 42 82
Department of Mathematics	MAT-412	Partial Differential Equations II	Properties of harmonic functions, spherical harmonics Initial value and boundary value problem: wave equation, heat equation.	5,00	Assist. Prof. Sırma Zeynep ALPASLAN GÖK sirmagok@sdu.edu.tr +90 246 211 42 82
Department of Archaeology	ARK-228	History of Ancient Society	This lecture deals with the history of the ancient society in order to understand the social life of the past. Social structures, burial customs, industrial processes and weddings will be discussed with help of ancient sources and archaeological evidences.	3,00	Assoc. Prof. Bilge HÜR MÜZLÜ hurmuzlu@fef.sdu.edu.tr +90 246 211 41 88
Department of Archaeology	ARK-405	Roman Architecture I	Introduction to the architecture of the Roman Imperial period	4,00	Assist. Prof. Fikret ÖZCAN foezcan@hotmail.com +90 246 211 41 87

Department of Archaeology	ARK-406	Roman Architecture II	Principles in the architecture of the Roman Imperial Period	3,00	Assist. Prof. Fikret ÖZCAN foezcan@hotmail.com +90 246 211 41 87
Department of Archaeology	ARK-303	Hellenistic Architecture I	The architecture of the Hellenistic Period		Assist. Prof. Ayça GERÇEK aycaozcan@sdu.edu.tr +90 246 211 43 08
Department of Archaeology	ARK-303	Hellenistic Architecture II	What makes the architecture of the Hellenistic Period special		Assist. Prof. Ayça GERÇEK aycaozcan@sdu.edu.tr +90 246 211 43 08
Department of Philosophy	FEL-101	Introduction to Philosophy	General introduction to philosophy?s basic problems, concepts, currents and sub-fields.	4,00	Assoc. Prof. Ismail Hacı NEBİOĞLU hacinebioglu@yahoo.com +90 246 211 45 78
Department of Philosophy	FEL-201	Philosophical Concepts	Ide, experimentation	5,00	Assoc. Prof. Ismail Hacı NEBİOĞLU hacinebioglu@yahoo.com +90 246 211 45 78
Department of Philosophy	FEL-102	Classical Logic	Symbolic thinking and the characteristics of reasoning	6,00	Assoc. Prof. Ismail Hacı NEBİOĞLU hacinebioglu@yahoo.com +90 246 211 45 78
Department of Philosophy	FEL-203	Philosophy in the 17th Century	Characteristics of 17th century philosophy Epistemology of Bacon Epistemology, ethics and philosophy of politics of	6,00	Assist. Prof. Deniz SOYSAL dsoysal@fef.sdu.edu.tr

			Hobbes The dualism and the problem of substance in Descartes? philosophy The ontological system of Spinoza The monadology of Leibniz		+90 246 211 42 54
Department of Philosophy	FEL-204	Philosophy in the 18th Century	To discuss the basic problems and concepts of the 18th century philosophy with reference to the original texts of relevant philosophers.	6,00	Assist. Prof. Deniz SOYSAL dsoysal@fef.sdu.edu.tr +90 246 211 42 54
Department of Philosophy	FEL-310	Nietzsche	Reading some selected texts of Nietzsche His views on epistemology, philosophy of history, ethics and social philosophy His thoughts on the relation between christianity and nihilism	4,00	Assist. Prof. Deniz SOYSAL dsoysal@fef.sdu.edu.tr +90 246 211 42 54
Department of Philosophy	FEL-413	Heidegger	Reading some selected texts of Heidegger in order to understand key concepts of his philosophy.	7,00	Assist. Prof. Deniz SOYSAL dsoysal@fef.sdu.edu.tr +90 246 211 42 54
Department of Philosophy	FEL-109	Plato	Reading some selected texts of Plato Plato?s special place in the history of philosophy His idea of virtue	3,00	Assist. Prof. Deniz SOYSAL dsoysal@fef.sdu.edu.tr +90 246 211 42 54
Department of Turkish Literature And Language	TDE-203	The Old Turkish Literature I	Techniques, aesthetics and world of images and similes; a general introduction of the Turkish Classical Literature of the 16th century and analyses of selected texts.	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com

					+90 246 211 38 71
Department of Turkish Literature And Language	TDE-204	The Old Turkish Literature II	Analyses of selected texts by poets of the Turkish Classical Literature living in the 16th century and the introduction of prose of the related century.	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com +90 246 211 38 71
Department of Turkish Literature And Language	TDE-303	The Old Turkish Literature III	17th century classical Turkish literature, Nef'i and Nabi	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com +90 246 211 38 71
Department of Turkish Literature And Language	TDE-304	The Old Turkish Literature IV	17th century classical Turkish literature, Şeyhülislam Yahya ve şiirleri, literary style called Sebki Hindi, Naili, Neşâti, biographical sources	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com +90 246 211 38 71
Department of Turkish Literature And Language	TDE-403	The Old Turkish Literature V	Description and explanation of general features of 18th century's Divan Literature and analysis of selected poems.	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com +90 246 211 38 71
Department of Turkish Literature And Language	TDE-404	The Old Turkish Literature VI	Description of general features of 19th century's Divan Literature and analysis of selected poems and prose's.	4,00	Assoc. Prof. Menderes COŞKUN menderescoskun@yahoo.com +90 246 211 38 71