

NANOSCIENCE and NANOTECHNOLOGY

GRADUATE COURSES (MSc)

CODE	COURSE NAME	CREDITS T A C	ECTS	Dersin Türü
ENNT 601	Nanotechnology I	3 0 3	7,5	Zorunlu
ENNT 602	Nanotechnology II	3 0 3	7,5	Seçmeli
ENNT 603	Nanocharacterization I	3 2 5	7,5	Seçmeli
ENNT 604	Nanocharacterization II	3 2 5	7,5	Seçmeli
ENNT 605	Synthesis and Applications of Nanomaterials	3 2 5	7,5	Seçmeli
ENNT 606	Environmental Nanotechnology	3 0 3	7,5	Seçmeli
ENNT 607	Phase Diagrams and Calculations in Nanotechnology	3 0 3	7,5	Seçmeli
ENNT 608	Quantum Chemistry	3 0 3	7,5	Seçmeli
ENNT 609	Quantum Mechanics and Applications	3 0 3	7,5	Seçmeli
ENNT 610	Production of Composite Materials	3 0 3	7,5	Seçmeli
ENNT 611	Mechanics of Thin Solid Films	3 0 3	7,5	Seçmeli
ENNT 612	Nanotechnology in Food Industry	3 0 3	7,5	Seçmeli
ENNT 613	Computational Techniques in Nanoscience	3 0 3	7,5	Seçmeli
ENNT 614	Nanotechnology Applications in Industry	3 0 3	7,5	Seçmeli
ENNT 615	Polymer Characterization	3 0 3	7,5	Seçmeli
ENNT 616	Polymer Nanocomposites	3 0 3	7,5	Seçmeli
ENNT 617	Macromoleculer Physics	3 0 3	7,5	Seçmeli
ENNT 618	Advanced Polymer Engineering	3 0 3	7,5	Seçmeli
ENNT 619	Surface Science and Technology	3 0 3	7,5	Seçmeli
ENNT 620	Fabrication Technologies of Thin Solid Films	3 0 3	7,5	Seçmeli
ENNT 621	Nanophotonics	3 0 3	7,5	Seçmeli
ENNT 622	Introduction to Bionanotechnology	3 0 3	7,5	Seçmeli
ENNT 623	Advanced Molecular Genetics	3 0 3	7,5	Seçmeli
ENNT 624	Bionanotechnology Laboratory Techniques I	3 2 5	7,5	Seçmeli
ENNT 625	Bionanotechnology Laboratory Techniques II	3 2 5	7,5	Seçmeli
ENNT 626	Genome Analysis in Plants	3 0 3	7,5	Seçmeli
ENNT 627	Genetics Engineering Applications in Plants	3 2 5	7,5	Seçmeli
ENNT 628	Bacterial Molecular Genetics	3 0 3	7,5	Seçmeli
ENNT 629	Microbial Seconder Metabolites and Biotechnology	3 0 3	7,5	Seçmeli
ENNT 630	Genetics Identification	3 0 3	7,5	Seçmeli
ENNT 631	Industrial Enzymology	3 0 3	7,5	Seçmeli
ENNT 632	Bioinformatics	3 0 3	7,5	Seçmeli
ENNT 633	Biosensors and Application Areas	3 0 3	7,5	Seçmeli
ENT 634	Nanomaterials in Photovoltaic Technology	3 0 3	7,5	Seçmeli
ENT 635	Fundamentals of Materials Science and Engineering	3 0 3	7,5	Seçmeli
ENNT 636	Scientific Research Methods and Ethics	3 0 3	7,5	Zorunlu
	SEMINAR		0	Zorunlu
	EXPERTISE AREA COURSE	4 0 0	0	Zorunlu
ENNT 600	THESIS	0	30	Zorunlu

GRADUATE COURSES (PhD)

CODE	COURSE NAME	CREDITS T A C	ECTS	Dersin Türü
ENNT 701	Reverse Engineering	3 0 3	7,5	Seçmeli
ENNT 702	Structure-Property Relations in Composite Materials	3 0 3	7,5	Seçmeli
ENNT 703	Polymer-Matrix Composite Materials	3 0 3	7,5	Seçmeli
ENNT 704	Coating Tribology	3 0 3	7,5	Seçmeli
ENNT 705	Microporous and Mesoporous Materials	3 0 3	7,5	Seçmeli
ENNT 706	Nanocarbon Technology	3 0 3	7,5	Seçmeli
ENNT 707	Morphology of Block Copolymers and Nanostructures	3 0 3	7,5	Seçmeli
ENNT 708	Powder X-Ray Diffraction and Structure Analysis	3 0 3	7,5	Seçmeli
ENNT 709	Thermal Analysis Techniques	3 0 3	7,5	Seçmeli
ENNT 710	IR and Raman Spectroscopy	3 0 3	7,5	Seçmeli
ENNT 711	Scanning Probe Microscopy	3 0 3	7,5	Seçmeli
ENNT 712	Quantitative and Qualitative Analysis in Electron Microscopy	3 0 3	7,5	Zorunlu
ENNT 713	Fundamental Software of Informatics	3 0 3	7,5	Seçmeli
ENNT 714	Membrane Processes	3 0 3	7,5	Seçmeli
ENNT 715	Thermodynamics and Kinetics of Nanomaterials	3 0 3	7,5	Seçmeli
ENNT 716	Chemoinformatics	3 0 3	7,5	Seçmeli
ENNT 717	Bionanotechnology	3 0 3	7,5	Seçmeli
ENNT 718	Advanced Molecular Bionanotechnology	3 0 3	7,5	Seçmeli
ENNT 719	Microbial Glicobiology	3 0 3	7,5	Seçmeli
ENNT 720	Purification Techniques of Biomolecules	3 0 3	7,5	Seçmeli
ENNT 721	Characterization Techniques of Biomolecules	3 0 3	7,5	Seçmeli
ENNT 722	Protein Engineering	3 0 3	7,5	Seçmeli
ENNT 723	Bioenergy and Biofuels	3 0 3	7,5	Seçmeli
ENNT 724	Computer Based Methods in Protein Structure and Dynamics	3 0 3	7,5	Seçmeli
ENNT 725	Advanced Immunology	3 0 3	7,5	Seçmeli
ENNT 726	Environmental Bionanotechnology	3 0 3	7,5	Seçmeli
ENNT 727	Advanced Cell Biology	3 0 3	7,5	Seçmeli
ENNT 728	Pharmaceutical Chemistry	3 0 3	7,5	Seçmeli
	SEMINAR I		0	Zorunlu
	SEMINAR II		0	Seçmeli
	EXPERTISE AREA COURSE	4 0 0	0	Zorunlu
ENNT 700	THESIS	0	30	Zorunlu

