



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF NANOSCIENCE AND NANOTECHNOLOGY



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5601	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5602	THESIS PREPARATION	C	0	1	1	0	1	
NNT-5701	SEMINAR	C	0	2	2	0	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			17	3	20	9	30	



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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5603	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

THIRD YEAR

FIFTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5605	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

SIXTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
NNT-5506	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
NNT-5606	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	E	3	0	3	3	5
NNT-5001	NANO SCIENCE AND NANO ENGINEERING	E	3	0	3	3	5
NNT-5002	ATOMIC AND MOLECULAR STRUCTURES	E	3	0	3	3	5
NNT-5003	EQUIPMENTS FOR NANOSCIENCE AND NANOTECHNOLOGY-I	E	3	0	3	3	5
NNT-5004	EQUIPMENTS FOR NANOSCIENCE AND NANOTECHNOLOGY-II	E	3	0	3	3	5
NNT-5005	SIGNAL PROCESSING TECHNIQUES	E	3	0	3	3	5
NNT-5006	VACUUM TECHNOLOGY	E	3	0	3	3	5
NNT-5007	PROPERTIES OF NANOMATERIALS	E	3	0	3	3	5
NNT-5008	PHYSICAL AND CHEMICAL NANOSTRUCTURES	E	3	0	3	3	5
NNT-5009	MATERIAL STRUCTURE AND CRYSTALLOGRAPHY	E	3	0	3	3	5
NNT-5010	ADVANCED MATERIALS CHARACTERIZATION METHODS	E	3	0	3	3	5
NNT-5011	NANOTECHNOLOGY SYSTEMS FOR ENERGY PRODUCTION	E	3	0	3	3	5
NNT-5012	MOLECULAR SENSORS AND NANOBIOSENSORS	E	3	0	3	3	5
NNT-5013	BIO-NANOTECHNOLOGICAL RESEARCH	E	3	0	3	3	5
NNT-5014	MOLECULAR BIOMIMETICS AND SYNTHETIC BIOLOGY	E	3	0	3	3	5
NNT-5015	IMMOBILIZED ENZYME AND CELL TECHNOLOGY	E	3	0	3	3	5
NNT-5016	MOLECULAR STRUCTURE OF BIOLOGICAL MATERIALS	E	3	0	3	3	5
NNT-5017	ADVANCED MOLECULAR BIOTECHNOLOGY	E	3	0	3	3	5
NNT-5018	NANOMECHANICS OF MATERIALS AND BIOMATERIALS	E	3	0	3	3	5
NNT-5019	ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE	E	3	0	3	3	5
NNT-5020	SOLAR ENERGY CONVERSION	E	3	0	3	3	5
NNT-5021	NANO FIBER PRODUCTION AND APPLICATIONS	E	3	0	3	3	5
NNT-5022	ENVIRONMENTAL NANOTECHNOLOGY	E	3	0	3	3	5
NNT-5023	NANO TECHNIQUES AND APPLICATIONS IN FOODS	E	3	0	3	3	5
NNT-5024	NANOTECHNOLOGY APPLICATIONS IN PLASMA PHYSICS	E	3	0	3	3	5
NNT-5025	STRUCTURE OF QUANTUM PARTICLES	E	3	0	3	3	5
NNT-5026	MICRO AND NANO STRUCTURES FOR FLUIDS	E	3	0	3	3	5
NNT-5027	NANOTECHNOLOGY METHODS FOR POLYMER ENGINEERING	E	3	0	3	3	5
NNT-5028	RADIATION EFFECTS IN NANO MATERIALS	E	3	0	3	3	5



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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
NNT-5029	OPTIC AND NANOELECTRONICS	E	3	0	3	3	5
NNT-5030	NANO CARBON	E	3	0	3	3	5
NNT-5031	NANO-COATINGS	E	3	0	3	3	5