



AFYON KOCATEPE UNIVERSITY

GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
EEM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
EEM-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	
EEM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
EEM-5602	THESIS PREPARATION	C	0	1	1	0	1	
EEM-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	



AFYON KOCATEPE UNIVERSITY

GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING



MASTER (MSc) PROGRAM

SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
EEM-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
EEM-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	
EEM-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
EEM-5604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING



MASTER (MSc) PROGRAM

ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5
EEM-5001	ENGINEERING MATHEMATICS	E	3	0	3	3	5
EEM-5002	COMPUTER PROGRAMMING LANGUAGES	E	3	0	3	3	5
EEM-5003	COMPUTER CIRCUIT DESIGN	E	3	0	3	3	5
EEM-5004	MECHATRONICS	E	3	0	3	3	5
EEM-5005	POWER SYSTEM ANALYSIS-I	E	3	0	3	3	5
EEM-5006	POWER SYSTEM ANALYSIS-II	E	3	0	3	3	5
EEM-5007	CONTROL SYSTEMS ANALYSIS-I	E	3	0	3	3	5
EEM-5008	CONTROL SYSTEMS ANALYSIS-II	E	3	0	3	3	5
EEM-5009	SCALAR FIELD PROBLEMS IN ENGINEERING	E	3	0	3	3	5
EEM-5010	NUMERICAL ANALYSIS	E	3	0	3	3	5
EEM-5011	SYSTEM DESIGN AND ANALYSIS	E	3	0	3	3	5
EEM-5012	POWER SYSTEM STABILITY	E	3	0	3	3	5
EEM-5013	DYNAMICS OF ELECTRICAL MACHINES-I	E	3	0	3	3	5
EEM-5014	DYNAMICS OF ELECTRICAL MACHINES-II	E	3	0	3	3	5
EEM-5015	FINITE ELEMENT METHOD IN ELECTRICITY	E	3	0	3	3	5
EEM-5016	POWER SYSTEM CONTROL	E	3	0	3	3	5
EEM-5017	ELECTRICAL MACHINES HARMONICS	E	3	0	3	3	5
EEM-5018	POWER SYSTEM HARMONICS	E	3	0	3	3	5
EEM-5019	NEURAL NETWORKS AND APPLICATIONS	E	3	0	3	3	5
EEM-5020	FUZZY LOGIC AND APPLICATIONS	E	3	0	3	3	5
EEM-5021	INDUCTION MOTOR CONTROL-I	E	3	0	3	3	5
EEM-5022	INDUCTION MOTOR CONTROL-II	E	3	0	3	3	5
EEM-5023	ELECTRICITY ARTIFICIAL INTELLIGENCE APPLICATIONS-I	E	3	0	3	3	5
EEM-5024	ELECTRICITY ARTIFICIAL INTELLIGENCE APPLICATIONS-II	E	3	0	3	3	5
EEM-5025	ADVANCED POWER ELECTRONICS	E	3	0	3	3	5
EEM-5026	POWER PLANTS	E	3	0	3	3	5
EEM-5027	ENERGY EFFICIENCY AT LIGHTING	E	3	0	3	3	5
EEM-5028	MODELING OF ELECTRICAL CIRCUITS	E	3	0	3	3	5
EEM-5029	ELECTRONIC MEASUREMENT METHODS	E	3	0	3	3	5
EEM-5030	PROCESS CONTROL INSTRUMENTATION TECHNOLOGY	E	3	0	3	3	5



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING



MASTER (MSc) PROGRAM

ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
EEM-5031	SEMICONDUCTOR POWER CONVERTERS	E	3	0	3	3	5
EEM-5032	DESIGN AND OPTIMIZATION OF ELECTRICAL MACHINES	E	3	0	3	3	5
EEM-5033	IMAGE PROCESSING	E	3	0	3	3	5
EEM-5034	ADVANCED IMAGE PROCESSING AND APPLICATIONS	E	3	0	3	3	5
EEM-5035	OBJECT ORIENTED PROGRAMMING	E	3	0	3	3	5
EEM-5036	COMPUTER AIDED ENGINEERING LIGHTING APPLICATIONS	E	3	0	3	3	5
EEM-5037	LIGHTING ENGINEERING AND PHOTOMETRY	E	3	0	3	3	5