



**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	
<b>TOTAL</b>			<b>20</b>	<b>1</b>	<b>21</b>	<b>12</b>	<b>30</b>	

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	
<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>20</b>	<b>9</b>	<b>30</b>	



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**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	
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	

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	
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	



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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
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



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**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