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

DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

FIRST SEMESTER							
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***				
			TH	**AP**	**TO**	**CR**	**EC**
EEM-6501	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6601	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
T O P L A M			**20**	**1**	**21**	**12**	**30**

SECOND SEMESTER							
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***				
			TH	**AP**	**TO**	**CR**	**EC**
EEM-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6602	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
T O T A L			**20**	**1**	**21**	**12**	**30**

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SECOND YEAR

THIRD SEMESTER							
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***				
			TH	**AP**	**TO**	**CR**	**EC**
EEM-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6603	THESIS PREPARATION	C	0	1	1	0	1
EEM-6701	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
T O T A L			17	3	20	9	30

FOURTH SEMESTER							
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***				
			TH	**AP**	**TO**	**CR**	**EC**
EEM-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6604	THESIS	C	0	1	1	0	21
T O T A L			8	1	9	0	30

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THIRD YEAR

FIFTH SEMESTER							
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
EEM-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6605	THESIS	C	0	1	1	0	21
T O T A L			**8**	**1**	**9**	**0**	**30**

SIXTH SEMESTER							
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
EEM-6506	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6606	THESIS	C	0	1	1	0	21
T O T A L			**8**	**1**	**9**	**0**	**30**

FOURTH YEAR

SEVENTH SEMESTER							
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
EEM-6507	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6607	THESIS	C	0	1	1	0	21
T O T A L			**8**	**1**	**9**	**0**	**30**

EIGHTH SEMESTER							
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
EEM-6508	DIRECTED FIELD STUDIES	C	8	0	8	0	9
EEM-6608	THESIS	C	0	1	1	0	21
T O T A L			**8**	**1**	**9**	**0**	**30**

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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-6001	ELECTRICITY NETWORK LOSSES	E	3	0	3	3	5
EEM-6002	PROTECTION SYSTEMS IN ELECTRICAL FACILITIES	E	3	0	3	3	5
EEM-6003	LINEAR CONTROL SYSTEMS	E	3	0	3	3	5
EEM-6004	NONLINEAR CONTROL SYSTEMS	E	3	0	3	3	5
EEM-6005	ADVANCED ELECTROMAGNETIC THEORY – 1	E	3	0	3	3	5
EEM-6006	ADVANCED ELECTROMAGNETIC THEORY – 2	E	3	0	3	3	5
EEM-6007	SYSTEM DESIGN – 1 WITH FPGA	E	3	0	3	3	5
EEM-6008	SYSTEM DESIGN – 2 WITH FPGA	E	3	0	3	3	5
EEM-6009	SPECIAL LIGHTING SYSTEMS AND VIRTUAL APPLICATIONS	E	3	0	3	3	5
EEM-6010	ARTIFICIAL NEURAL NETWORK APPLICATIONS IN LIGHTING ENGINEERING	E	3	0	3	3	5
EEM-6011	OPTIMIZATION TECHNIQUES	E	3	0	3	3	5
EEM-6012	FUNDAMENTALS OF DETECTION AND ESTIMATION	E	3	0	3	3	5
EEM-6013	ADVANCED SIGNAL PROCESSING TECHNIQUES	E	3	0	3	3	5
EEM-6014	OPTIMIZATION OF RENEWABLE ENERGY SYSTEMS	E	3	0	3	3	5
EEM-6015	PHOTOVOLTAIC ENERGY SYSTEMS	E	3	0	3	3	5
EEM-6016	MODELING OF RENEWABLE ENERGY DATA	E	3	0	3	3	5
EEM-6017	EMBEDDED SYSTEM DESIGN	E	3	0	3	3	5
EEM-6018	POWER SYSTEMS INSPECTION	E	3	0	3	3	5
EEM-6019	INSPECTION OF ELECTRICAL MACHINES	E	3	0	3	3	5
EEM-6020	SMART GRIDS, MODELING AND APPLICATIONS	E	3	0	3	3	5
EEM-6021	ADVANCED IMAGE PROCESSING	E	3	0	3	3	5
EEM-6022	DIGITAL SIGNAL PROCESSING	E	3	0	3	3	5
EEM-6023	FUZZY LOGIC THEORY AND APPLICATIONS	E	3	0	3	3	5
EEM-6024	DIGITAL COMMUNICATION SYSTEMS AND APPLICATIONS	E	3	0	3	3	5
EEM-6025	ANALOG AND DIGITAL FILTER DESIGN	E	3	0	3	3	5
EEM-6026	PROGRAMMABLE CONTROLLERS	E	3	0	3	3	5
EEM-6027	ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING	E	3	0	3	3	5
EEM-6028	SMART GARMENT TECHNOLOGIES	E	3	0	3	3	5
EEM-6029	ADVANCED DIGITAL SIGNAL PROCESSING	E	3	0	3	3	5
EEM-6030	ENGINEERING APPLICATIONS WITH PYTHON	E	3	0	3	3	5
EEM-6031	SEMICONDUCTOR TECHNOLOGY	E	3	0	3	3	5

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EEM-6032	MEMS (MICRO-ELECTRO-MECHANICAL SYSTEMS)	E	3	0	3	3	5
EEM-6033	OPTOELECTRONICS	E	3	0	3	3	5
EEM-6034	INTRODUCTION TO MACHINE LEARNING	E	3	0	3	3	5
EEM-6035	SYSTEM MODELING WITH ARTIFICIAL NEURAL NETWORKS	E	3	0	3	3	5

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