AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF ELECTRICAL ENGINEERING RENEWABLE ENERGY SYSTEMS

MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	ME**
YES-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	9
YES-5601	THESIS PREPARATION	C	0	1	1	0	1	1
	ELECTIVE COURSE	E	3	0	3	3	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
T O T A L			20	1	21	12	30	50

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	ME**
YES-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	9
YES-5602	THESIS PREPARATION	C	0	1	1	0	1	1
YES-5701	SEMINAR	C	0	2	2	0	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
	ELECTIVE COURSE	E	3	0	3	3	5	10
T O T A L			17	3	20	9	30	50

* C : COMPULSORY - E : ELECTIVE - TH: THEORY - AP: APPLICATION - TO: TOTAL - CR: CREDIT - EC:ECTS

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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***					
			TH	**AP**	**TO**	**CR**	**EC**	**ME****
YES-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	9
YES-5603	THESIS	C	0	1	1	0	21	66
T O T A L			8	1	9	0	30	75

FOURTH SEMESTER								
COURSE CODE	**COURSE NAME**	**C/E**	**COURSE CREDIT***					
			TH	**AP**	**TO**	**CR**	**EC**	**ME****
YES-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	9
YES-5604	THESIS	C	0	1	1	0	21	66
T O T A L			8	1	9	0	30	75

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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	ME**
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5	10
YES-5001	APPLIED MATHEMATICS	E	3	0	3	3	5	10
YES-5002	INTEGRATION OF RENEWABLE ENERGY SYSTEMS	E	3	0	3	3	5	10
YES-5003	WIND TURBINES	E	3	0	3	3	5	10
YES-5004	POWER SYSTEM ANALYSIS AND DESIGN	E	3	0	3	3	5	10
YES-5005	ENGINEERING MECHANICS AND SOLAR TRACKING SYSTEM	E	3	0	3	3	5	10
YES-5006	ADVANCED ELECTRICAL MACHINES	E	3	0	3	3	5	10
YES-5007	HYDROGEN TECHNOLOGIES	E	3	0	3	3	5	10
YES-5008	POWER SYSTEM STABILITY	E	3	0	3	3	5	10
YES-5009	ENERGY SYSTEMS II	E	3	0	3	3	5	10
YES-5010	ENERGY SYSTEMS-I	E	3	0	3	3	5	10
YES-5011	GEOTHERMAL ENERGY SYSTEMS	E	3	0	3	3	5	10
YES-5012	WATER POWER PLANTS	E	3	0	3	3	5	10
YES-5013	FOSSIL ENERGY RESOURCES	E	3	0	3	3	5	10
YES-5014	ENERGY STORAGE TECHNOLOGY	E	3	0	3	3	5	10
YES-5015	ELECTRIC POWER PLANTS	E	3	0	3	3	5	10
YES-5016	POWER SYSTEM CONTROL	E	3	0	3	3	5	10
YES-5017	FUNDAMENTALS OF PC BASED DATA ACQUISITION	E	3	0	3	3	5	10
YES-5018	DESIGNING OF PC BASED DATA ACQUISION AND CONTROL SYSTEMS	E	3	0	3	3	5	10
YES-5019	ANALYSIS OF RENEWABLE ENERGY SYSTEMS DATA BY ADVANCED TECHNIQUES	E	3	0	3	3	5	10
YES-5020	MATHEMATICAL ANALYSIS AND MODELLING OF RENEWABLE ENERGY SYSTEMS	E	3	0	3	3	5	10
YES-5021	SEARCHING OF GEOTHERMAL ENERGY AND USAGE FIELD	E	3	0	3	3	5	10
YES-5051	BASICS I-FUNDEMENTALS OF SOLAR ENERGY TECHNOLOGY	E	3	0	3	3	5	10
YES-5052	BASICS II-OVERVIEW OF SOLAR ENERGY CONVERSATION	E	3	0	3	3	5	10
YES-5053	ENERGY MANAGEMENT	E	3	0	3	3	5	10
YES-5054	SUSTAINABILITY OF PROCESSES AND PRODUCT	E	3	0	3	3	5	10
YES-5055	SOLAR THERMAL ENGINEERING	E	3	0	3	3	5	10
YES-5056	PHOTOVOLTAIC ENERGY SYSTEMS	E	3	0	3	3	5	10
YES-5057	WIND ENERGY SYSTEMS	E	3	0	3	3	5	10
YES-5058	BIOMASS ENERGY SYSTEMS	E	3	0	3	3	5	10

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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	ME**
YES-5059	HYBRID SYSTEMS, HYDROGEN TECHNOLOGY & FUEL CELLS	E	3	0	3	3	5	10
YES-5060	MODELLING LOW ENERGY PASSIVE DESIGNED BULIDINGS	E	3	0	3	3	5	10
YES-5061	ADVANCED SIGNAL PROCESSING TECHNIQUES AND RENEWABLE ENERGY SYSTEM APPLICATIONS	E	3	0	3	3	5	10
YES-5062	ARTIFICIAL NEURAL NETWORK AND RENEWABLE ENERGY SYSTEM APPLICATIONS	E	3	0	3	3	5	10
YES-5063	HEURISTIC ALGORITHMS	E	3	0	3	3	5	10
YES-5064	EMBEDDED SYSTEMS APPLICATIONS ON RENEWABLE ENERGY SYSTEMS	E	3	0	3	3	5	10

ME**: ECTS for the students who came from European CountrIes for master course that Is recognIzed by MedIterranean offIce of youth.

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