



**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
<b>TOTAL</b>			<b>20</b>	<b>1</b>	<b>21</b>	<b>12</b>	<b>30</b>	<b>50</b>

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
<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>20</b>	<b>9</b>	<b>30</b>	<b>50</b>



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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
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>75</b>

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
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>75</b>



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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	E	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	GEOHERMAL 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 ACQUISITION 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 GEOHERMAL 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

**ME\*\***: ECTS for the students who came from European Countries for master course that is recognized by Mediterranean office of youth.