

FACULTY OF ENGINEERING, ARCHITECTURE AND DESIGN															
ELECTRICAL AND ELECTRONICS ENGINEERING															
CURRICULUM															
1st SEMESTER								2nd SEMESTER							
C.Code	Course Name	Type	T	A	L	C	ECTS	C.Code	Course Name	Type	T	A	L	C	ECTS
CAP 101	Career Planning	C	2	0	0	2	0	CENG 154	Computer Programming	C	2	0	2	3	4
CENG 153	Introduction to Information Technologies and Programming	C	2	0	2	3	4	EEE 102	Introduction to Artificial Intelligence	C	2	2	0	3	3
CHEM 101	General Chemistry	C	3	0	1	3	5	ENG 112	English for Academic Purposes II	C	2	0	0	2	2
EEE 103	Introduction to Electrical and Electronics Engineering & Ethics	C	3	0	0	3	3	HIST 102	Ataturk's Principles and History of Turkish Revolution II	C	2	0	0	2	2
ENG 111	English for Academic Purposes I	C	2	0	0	2	2	MATH 122	Calculus II	C	4	0	0	4	6
HIST 101	Ataturk's Principles and History of Turkish Revolution I	C	2	0	0	2	2	MATH 124	Linear Algebra	C	4	0	0	4	5
MATH 121	Calculus I	C	4	0	0	4	6	PHYS 122	Physics II	C	3	0	2	4	6
PHYS 121	Physics I	C	3	0	2	4	6	TUR 102	Turkish Language II	C	2	0	0	2	2
TUR 101	Turkish Language I	C	2	0	0	2	2								
TOTAL						25	30	TOTAL						24	30
3rd SEMESTER								4th SEMESTER							
C.Code	Course Name	Type	T	A	L	C	ECTS	C.Code	Course Name	Type	T	A	L	C	ECTS
EEE 201	Circuit Analysis I	C	3	0	2	4	6	EEE 202	Circuit Analysis II	C	2	0	2	3	5
EEE 203	Electronics I	C	3	0	2	4	6	EEE 204	Electronics II	C	2	0	2	3	5
MATH 221	Differential Equations	C	4	0	0	4	6	EEE 208	Digital Electronics	C	3	0	2	4	5
MATH 225	Probability and Statistics	C	3	0	0	3	5	EEE 210	Electromagnetics Field Theory	C	3	0	0	3	5
MATH 253	Engineering Mathematics	C	2	2	0	3	4	EEE 290	Practicum I	C	0	0	0	0	3
	University Elective	E	2	0	0	2	3	OHS 204	Occupational Health and Safety I	C	2	0	0	2	2
									Departmental Elective	E				3	5
TOTAL						20	30	TOTAL						18	30
5th SEMESTER								6th SEMESTER							
C.Code	Course Name	Type	T	A	L	C	ECTS	C.Code	Course Name	Type	T	A	L	C	ECTS
EEE 307	Signals and Systems	C	3	0	0	3	6	EEE 304	Introduction to Communication Systems	C	2	2	0	3	5
EEE 309	Control Systems	C	2	2	0	3	6	EEE 306	Digital Signal Processing	C	3	0	0	3	4
EEE 311	Microprocessors and Embedded Systems	C	3	0	0	3	5	EEE 390	Practicum II	C	0	0	0	0	4
	Departmental/Non-departmental Elective	E				3	5	OHS 304	Occupational Health and Safety II	C	2	0	0	2	2
	Departmental/Non-departmental Elective	E				3	5		Departmental Elective	E				3	5
	University Elective	E	2	0	0	2	3		Departmental Elective	E				3	5
									Departmental/Non-departmental Elective	E				3	5
TOTAL						17	30	TOTAL						17	30
7th SEMESTER								8th SEMESTER							
C.Code	Course Name	Type	T	A	L	C	ECTS	C.Code	Course Name	Type	T	A	L	C	ECTS
EEE 403	Graduation Project	C	2	4	0	4	5	EEE 400	MUDU COOP	C	0	40	0	20	30
	Departmental Elective	E				3	5								
	Departmental Elective	E				3	5								
	Departmental Elective	E				3	5								
	Departmental/Non-departmental Elective	E				3	5								
	Departmental/Non-departmental Elective	E				3	5								
TOTAL						19	30	TOTAL						20	30

TOTAL ECTS															240
TOTAL COURSE CREDITS															160
ELECTIVE COURSES TOTAL ECTS															61
ELECTIVE COURSE RATIO (%)															25,42

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TOTAL COURSE CREDITS	160
ELECTIVE COURSES TOTAL ECTS	61
ELECTIVE COURSE RATIO (%)	25,42

DEPARTMENTAL ELECTIVE COURSES															
C.Code	Course Name	Type	T	A	L	C	ECTS	C.Code	Course Name	Type	T	A	L	C	ECTS
EEE 351	Electrical Machines I	E	3	0	0	3	5	EEE 458	Optimization	E	3	0	0	3	5
EEE 352	Magnetism and Magnetic Materials	E	3	0	0	3	5	EEE 459	Mobile System Applications	E	3	0	0	3	5
EEE 353	Sensors and Converters	E	3	0	0	3	5	EEE 460	Programming Techniques	E	3	0	0	3	5
EEE 354	Energy Distribution Systems (EMO)	E	3	0	0	3	5	EEE 461	Smart System Applications with Internet of Things	E	3	0	0	3	5
EEE 355	Energy Distribution Project	E	3	0	0	3	5	EEE 462	Antennas and Propagation	E	3	0	0	3	5
EEE 356	Lighting Technique	E	3	0	0	3	5	EEE 463	Solar Energy and Its Applications	E	3	0	0	3	5
EEE 357	Lighting Project	E	3	0	0	3	5	EEE 464	Optoelectronic	E	3	0	0	3	5
EEE 358	Dynamic Systems and Simulations	E	3	0	0	3	5	EEE 465	Lasers	E	3	0	0	3	5
EEE 360	Power Electronics	E	3	0	0	3	5	EEE 466	Physics III	E	3	0	0	3	5
EEE 362	Electrical Machines II	E	3	0	0	3	5	EEE 467	Transformer Design	E	3	0	0	3	5
EEE 450	Digital Control Systems	E	3	0	0	3	5	EEE 468	Power Systems Analysis (EMO)	E	3	0	0	3	5
EEE 451	Control System Design	E	3	0	0	3	5	EEE 469	High Voltage Technique(EMO)	E	3	0	0	3	5
EEE 452	Industrial Automation	E	3	0	0	3	5	EEE 470	Renewable Energy Systems	E	3	0	0	3	5
EEE 453	Robotics	E	3	0	0	3	5	EEE 471	Energy Transport Systems	E	3	0	0	3	5
EEE 454	Nonlinear Control Systems	E	3	0	0	3	5	EEE 474	Communication Electronics	E	3	0	0	3	5
EEE 455	Image Processing	E	3	0	0	3	5	EEE 475	Electrical Measurement Techniques	E	3	0	0	3	5
EEE 456	Remote Sensing	E	3	0	0	3	5	MATH 222	Numerical Analysis	E	3	0	0	3	5