

AME7		Curriculum Table for 2020				Doc Num	TU/FA/FR
Unit:		Department of Mechatronics Engineering				Rev Issue Date:	2-10-2019
First Grade							
Fall Term/First Semester				Spring Term/Second Semester			
Code	Course Name	Theory	Practic	Credit	ECTS	Code	Course Name
MA11101	Calculus I	4	0	4	5	ME 121	Engineering Mechanics
ME 112	Engineering Drawing	1	2	3	4	MA11102	Calculus II
ME 113	Electrical Circuits and Network Analysis I	2	2	3	6	ME 108	SolidWorks & Simulation
ME 104	Computer Programming and Algorithm	2	1	3	4	ME 114	Electrical Circuits and Network Analysis II
ITL 103	Advanced English	2	0	2	3	ITL 104	Technical English
KUR 105	Kurdology I	2	0	2	3	DBT 103	Academic Debate and Critical Thinking II
DBT 101	Academic Debate and Critical Thinking I	2	0	2	3	KUR 106	Kurdology II
	Non-Technical Elective	2	0	2	3		Non-Technical Elective
Total		17	6	20.5	30	Total	

Second Grade							
Fall Term/Third Semester				Spring Term/Fourth Semester			
Code	Course Name	Theory	Practic	Credit	ECTS	Code	Course Name
MAT 211	Advanced Mathematics I	3	0	3	6	ME 212	Advanced Mathematics II
ME 217	Pneumatic & Hydraulic systems	2	2	3	5	ME 223	Theory of Machinery
ME 219	Electro-Mechanical Systems	2	2	3	6	ME 226	Manufacturing Technology
ME 221	Thermodynamics	3	0	3	4	ME 224	Digital Logic Design
ME 215	Electronic Principles and Devices	2	2	3	6	ME 227	Analogue Devices & Circuits
	Non-Technical Elective I	2	0	2	3		Non-Technical Elective II
Total		14	6	17	30	Total	

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Third Grade							
Fall Term/Fifth Semester				Spring Term/Sixth Semester			
Code	Course Name	Theory	Practic	Credit	ECTS	Code	Course Name
ME 311	Control System	3	2	4	6	ME 321	Design of transmission Systems
ME 312	Microprocessor & Programmer	2	2	3	6	ME 326	Power Electronics and Devices
ME 313	Design of Machine Elements	3	0	3	6	ME 314	Signal and Systems
ME 316	Digital Communication Systems	3	0	3	6		Technical Elective
ME 315	Technical Elective	3	0	3	6		
Total		14	4	16	30	Total	

Fourth Grade							
Fall Term/Seventh Semester				Spring Term/Eighth Semester			
Code	Course Name	Theory	Practic	Credit	ECTS	Code	Course Name
ME 411	Programmable Logic Controller (PLC)	4	2	2	6	ME 472	Renewable Energy (TE)
ME 413	Robotics	3	2	4	6	ME 422	Design of Mechatronics Systems
ME 414	Final Year Project 1 (FYP)	3	6	4	6	ME 424	Final Year Project 2 (FYP)
	Technical Elective	3	0	3	6		Technical Elective (TE)
	Technical Elective	3	0	3	6		Technical Elective
Total		10	12	16	30	Total	

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Electives							
Technical Electives				Non-technical Electives			
Code	Course Name	Theory	Practic	Credit	ECTS	Code	Course Name
ME 361	Industrial Mechatronics	3	0	3	6	TUR 121	Turkish I
ME 461	Robotics and Machine Vision System	3	0	3	6	TUR 122	Turkish II
ME 363	Fundamentals of NanoScience	3	0	3	6	TUR 221	Turkish III
ME 362	Process Planning and Cost Estimation	3	0	3	6	TUR 222	Turkish IV
ME 364	Solid Modelling	3	0	3	6	GBN 201	Ecology
ME 462	Theory of Screw in Robotics	3	0	3	6	BUS 221	Marketing
ME 463	Instrumentation and Measurement	3	0	3	6	BR 114	Fundamental of Management
ME 464	Sensors and Vision System	3	0	3	6	BUS 113	Fundamental of Economics
ME 465	Medical Mechatronics	3	0	3	6	BUS 408	Total Quality Management
ME 365	Micro Electro Mechanical Systems	3	0	3	6	BUS 343	Entrepreneurship
ME 325	CNC Machine & Metrology	3	0	3	6	BUS 327	Production Management
ME 367	Digital Mobile Communication	3	0	3	6	BUS 335	Cost Accounting
ME 466	Advanced Microprocessor & Microcontroller	3	0	3	6	BUS 324	Operations Research
ME 467	Wireless Sensors Networks for Robotics	3	0	3	6	ME 111	Industrial Engineering
ME 468	PCBA Based Programmable Logic Array	3	0	3	6		
ME 469	Digital Image Processing	3	0	3	6		
ME 470	Automotive Electronics	3	0	3	6		
ME 471	Laser Technology	3	0	3	6		
ME 472	Renewable Energy	3	0	3	6		
ME 473	Electric Vehicle	3	0	3	6		
ME 412	Embedded System and Real Time	3	0	3	6		
ME 315	Mechatronics Instrumentation	3	0	3	6		

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