T.C. KİLİS 7 ARALIK UNIVERSITY FACULTY OF ENGINEERING AND ARCHITECTURE DEPARTMENT OF MECHANICAL ENGINEERING UNDERGRADUATE COURSE CATALOG

1						EID C	TVEAD						
Code	1st Grade I. Semester (I. Semester)	Status	Т	U	K	ECTS	T YEAR Code	1st Grade 2nd Semester (2nd Semester)	Status	Т	U	K	ECTS
0605101		Mandatory	4	0	4	5	0605102	Mathematics-II	Mandatory	4	0	4	5
0605103	Physics-I	Mandatory	4	0	4	5	0605104	Physics-II	Mandatory	4	0	4	4
0605105	General Chemistry	Mandatory	3	1	4	4	0605106	Engineering Mechanics-I (Static)	Mandatory	4	0	4	5
0605107	Computer Aided Drawing-I	Mandatory	3	1	4	5	0605108	Computer Aided Drawing-II	Mandatory	3	1	4	5
0101101	Turkish Language-l	Mandatory	2	0	2	2	0101102	Turkish Language-II	Mandatory	2	0	2	2
0102101		Mandatory	2	0	2	2	0102102	Principles of Ataturk and History	Mandatory	2	0	2	2
0103101	of Turkish Revolution- I	Mandatory	3	0	3	3	0103102	of Turkish Revolution -II English-II	Mandatory	3	0	3	3
	TOTAL		21	2	23	26	 	TOTAL		22	1	23	26
	Social Elective Course	Elective	2	0	2	2		Social Elective Course	Elective	2	0	2	2
	Social Elective Course PERIOD TOTAL	Elective	2 25	0 2	2 27	2 30		Social Elective Course PERIOD TOTAL	Elective	2 26	0 1	2 27	2 30
	SOCIAL ELECTIVES							SOCIAL ELECTIVES					
0104101	,	Elective Elective	2	0	2	2	0104102 0105102	Physical Education-II Music-II	Elective Elective	2	0	2	2
0605001		Elective	2	0	2	2	0605002	Engineering Ethics	Elective	2	0	2	2
0605003	Basic Computer Knowledge	Elective	2	0	2	2	0105004	Computer Aided Presentation Techniques	Elective	2	0	2	2
SECOND Code	YEAR 2nd Grade I. Semester (III.	Status	Т	U	K	ECTS	Code	2nd Grade 2nd Semester (IV.	Status	Т	U	K	ECTS
	Semester)							Semester)					
0605201	Strength of Materials- I	Mandatory	4	0	4	5	0605202	Thermodynamics-I	Mandatory	4	0	4	5
0605203	Materials Science-I	Mandatory	3	1	4	5	0605204	Numerical Methods	Mandatory	3	0	3	4
0605205	Differential Equations	Mandatory	3	0	3	4	0605206	Engineering Mechanics-II (Dynamics)	Mandatory	4	0	4	5
0605207	Manufacturing Processes-I	Mandatory	3	2	5	5	0605208	Materials Science-II	Mandatory	3	1	4	5
0605209	Computer Programming	Mandatory	2	1	3	3	0605210	Manufacturing Processes-II	Mandatory	3	2	5	6
0605211	Electrotechnics	Mandatory	2	1	3	3	0111102	Occupational Health and Safety-II	Mandatory	2	0	2	2
0111101	Occupational Health and Safety-	Mandatory	2	0	2	2	+	TOTAL		19	3	22	27
0112100	Digital Literacy	Mandatory	2	0	0	3	-			.5			
	TOTAL	1	21	5	24	30	0605298	Internship-I (20 working days)	Mandatory	0	0	0	3
	PERIOD TOTAL		21	5	24	30		PERIOD TOTAL		19	3	22	30
	, , , , ,						D YEAR				لكت		
•							DIEAK						ļ
Code	Grade 3 I. Semester (V.	Status	Т	U	K	ECTS	Code	3rd Grade 2nd Semester (VI.	Status	Т	U	К	ECTS
Code 0605301	Grade 3 I. Semester (V. SEMESTER) Machine Elements-I	Status Mandatory	T	U	K			3rd Grade 2nd Semester (VI. Semester) Machine Elements-II	Status Mandatory	T	U	K	ECTS 5
	SEMESTER) Machine Elements-I					ECTS	Code	Semester) Machine Elements-II		4			
0605301	SEMESTER) Machine Elements-I	Mandatory	4	0	4	ECTS 5	Code 0605302	Semester) Machine Elements-II	Mandatory	4	0	4	5
0605301	SEMESTER) Machine Elements-I Thermodynamics-II	Mandatory Mandatory	4	0	4	5 5	Code 0605302 0605304	Semester) Machine Elements-II Machine Dynamics	Mandatory Mandatory	4	0	4	5 5
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines	Mandatory Mandatory Mandatory	3	0 1 0	4 4 3	5 5 5	Code 0605302 0605304 0605306	Semester) Machine Elements-II Machine Dynamics Heat Transfer	Mandatory Mandatory Mandatory	4 4	0 0	4 4	5 5 4
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I	Mandatory Mandatory Mandatory	3 3 2	0 1 0 1	4 4 3 3	5 5 5 5	Code 0605302 0605304 0605306 0605308	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II	Mandatory Mandatory Mandatory Mandatory	4 4 3	0 0 0	4 4 4	5 5 4
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL	Mandatory Mandatory Mandatory Mandatory	3 3 2	0 1 0 1 2	4 4 3 3 14	5 5 5 5 20	Code 0605302 0605304 0605306 0605308	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility	Mandatory Mandatory Mandatory Mandatory	4 4 3	0 0 0 1	4 4 4 2	5 5 4 5
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course	Mandatory Mandatory Mandatory Mandatory Elective Elective	3 3 2 10 2 2	0 1 0 1 2 0 0 0 0	4 4 3 3 14 2 2	5 5 5 20 2 2 3	Code 0605302 0605304 0605306 0605308 0101101	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 4 4 3 1 16 0	0 0 0 1 1 2 0	4 4 4 4 2 18 0	5 5 4 5 2 21 3
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Elective	3 3 2 10 2	0 1 0 1 2 0 0 0	4 4 3 3 14 2 2	5 5 5 20 2 2	Code 0605302 0605304 0605306 0605308 0101101	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days)	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory	4 4 3 1 16 0	0 0 1 1 2 0	4 4 4 2 18 0	5 5 4 5 2 21 3
0605301 0605303 0605305	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective	4 3 3 2 10 2 2 3 3 20	0 1 0 1 2 0 0 0	4 4 3 3 14 2 2 3 3 24	5 5 5 5 20 2 2 3 3	Code 0605302 0605304 0605306 0605308 0101101 0605398	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 4 4 3 1 16 0 3 3	0 0 0 1 1 2 0	4 4 4 2 18 0 3 3 24	5 5 4 5 2 21 3 3 3 3
0605301 0605303 0605305 0605307	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 3 20 2	0 1 0 1 2 0 0 0 4 0 0	4 4 3 3 14 2 2 3 3 24	5 5 5 20 2 2 3 3 30	Code 0605302 0605304 0605306 0605308 0101101 0605398	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective	4 4 4 3 1 1 16 0 3 3 22 3	0 0 0 1 1 2 0 0 0 2	4 4 4 2 18 0 3 3 24 3	5 5 4 5 2 21 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605011 0605011	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 20 2	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 2 3 24	5 5 5 20 2 2 3 3 3 30	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605032	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course Technical Elective Course TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective	4 4 4 3 1 1 16 0 3 3 22 3 3	0 0 0 1 1 2 0 0 0 2 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 24	5 5 4 5 2 21 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 3 20 2	0 1 0 1 2 0 0 0 4 0 0	4 4 3 3 14 2 2 3 3 24	5 5 5 20 2 2 3 3 30	Code 0605302 0605304 0605306 0605308 0101101 0605398	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective	4 4 4 3 1 1 16 0 3 3 22 3	0 0 0 1 1 2 0 0 0 2	4 4 4 2 18 0 3 3 24 3	5 5 4 5 2 21 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 2 2 2 2 2	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2	5 5 5 20 2 2 3 3 3 30 2 2 2 2 2	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective	4 4 3 1 16 0 3 3 3 22 22	0 0 0 1 1 2 0 0 0 0 2	4 4 4 4 2 18 0 3 3 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 3 20 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 2	5 5 5 20 2 2 2 3 3 3 30	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 22	0 0 0 1 1 1 2 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605017	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving	Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 20 2 2 2 2	0 1 1 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 3 3 14 2 2 3 3 24 2 2 2 2	5 5 5 20 2 2 3 3 30 2 2 2 2 2 2	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 22	0 0 0 1 1 1 2 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605033	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique	Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 3 3 20 2 2 2 2 2 2 2 2 3 3 3	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 2 2 2 2 2 2 3 3 3 3	5 5 5 20 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 22	0 0 0 1 1 1 2 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 2 3 3 20 2 2 2 2 2 2 2 2 3 3 3 3 3	0 1 0 1 2 0 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 3 3 3 3 3 3	5 5 5 20 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 22	0 0 0 1 1 1 2 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605033	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and	Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 3 3 20 2 2 2 2 2 2 2 2 3 3 3	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 3 3 3 3 3 3	5 5 5 20 2 2 2 3 3 30 2 2 2 2 2 3 3 3 3 3 3 3	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 22	0 0 0 1 1 1 2 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I	Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 2 3 3 20 2 2 2 2 2 2 2 2 3 3 3 3 3	0 1 0 1 2 0 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 3 3 3 3 3 3	5 5 5 20 2 2 2 3 3 30 2 2 2 2 2 3 3 3 3 3 3 3	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 16 0 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 1 2 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605033 0605033	SEMESTER) Machine Elements-I Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Tourse Foreign Language Ethics and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I	Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 3 3 20 2 2 2 2 2 2 3 3 3 3 3 3 3	0 1 0 1 2 0 0 0 0 4	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 3 3 3 3 3 2 2	5 5 5 20 2 2 2 2 2 2 2 2 2 3 3 3 3 FOUR?	Code 0605302 0605304 0605308 0101101 0605398 0605032 0605034 0605038 0605040 TH YEAR Code	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester)	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Status	4 4 4 3 1 16 0 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 4 5 2 21 3 3 3 3 3 3 3 3 3 3
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605037 0605039 Code 0605401	SEMESTER) Machine Elements-I Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Tourse Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory	Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 20 2 2 2 2 2 3 3 3 3 T 0	0 1 1 0 0 0 0 0 0 0 0 0 0 0 U 3	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 2 2 8 3 3 3 3 K K 3	5 5 5 5 20 2 2 2 2 2 2 2 2 3 3 3 3 FOUR ECTS 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 1 2 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 2 2 K 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605017 0605019 0605031 0605035 0605036 0605039 Code	SEMESTER) Machine Elements-I Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory Measurement Technique	Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 2 2 2 2 2 2 2 7 3 3 3 3 7 0 2	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 2 K 3 3 3 3 3	5 5 5 5 20 2 2 2 3 3 30 2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5	Code 0605302 0605304 0605308 0101101 0605398 0605032 0605034 0605038 0605040 TH YEAR Code	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project Computer Aided Engineering	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Status	4 4 4 3 1 1 16 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 2 2 K 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 6 ECTS 5
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605037 0605039 Code 0605401	SEMESTER) Machine Elements-I Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Tourse Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory	Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 3 3 20 2 2 2 2 2 3 3 3 3 T 0	0 1 1 0 0 0 0 0 0 0 0 0 0 0 U 3	4 4 3 3 14 2 2 3 3 24 2 2 2 2 2 2 2 8 3 3 3 3 K K 3	5 5 5 5 20 2 2 2 2 2 2 2 2 3 3 3 3 FOUR ECTS 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Mandatory Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 2 2 K 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 5 ECTS
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605037 0605039 Code 0605401	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory Measurement Technique TOTAL Design Applications-I Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 3 3 3 20 2 2 2 2 2 2 2 2 2 2 2 2	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 3 3 3 14 2 2 2 2 2 2 2 2 2 2 8 3 3 3 3 4 4 3	5 5 5 5 20 2 2 2 3 3 30 2 2 2 2 2 2 5 5 5 10 5 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project Computer Aided Engineering TOTAL Design Applications-II Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 2 2 4 K 3 3 6 4 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 5 10 5 5
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605039 Code 0605401	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Technical SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory Measurement Technique TOTAL Design Applications-I Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 3 3 3 14 2 2 2 2 2 2 2 2 2 2 8 3 3 3 3 4 4 3 3 3 6 4 3 3 3	5 5 5 5 20 2 2 2 3 3 3 30 2 2 2 2 2 5 5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course Technical Elective Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project Computer Aided Engineering TOTAL Design Applications-II Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 2 2 4 K 3 3 6 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 5 5 10 5 5 5 5
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605039 Code 0605401	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Course Technical Elective Course PERIOD TOTAL SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory Measurement Technique TOTAL Design Applications-I Technical Elective Course Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective	4 3 3 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 14 2 2 2 2 2 2 2 2 2 8 3 3 3 3 4 6 6 4 3 3 3 3 3 3 3	5 5 5 5 20 2 2 2 2 2 2 2 2 2 5 5 6 10 5 5 5 5 5 5 5 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course PERIOD TOTAL TECHNICAL ELECTIVES Introduction to Finite Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project Computer Aided Engineering TOTAL Design Applications-II Technical Elective Course Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5
0605301 0605303 0605305 0605307 0605307 0605011 0605013 0605015 0605019 0605031 0605033 0605035 0605039 Code 0605401	SEMESTER) Machine Elements-I Thermodynamics-II Theory of Machines Fluid Mechanics-I TOTAL Social Elective Course Social Elective Course Technical Elective Technical SOCIAL ELECTIVES Healthy Life and Sports Foreign Language Ethics and values Education Traditional Handicrafts Fine Arts TECHNICAL ELECTIVES Computer Aided Design Creative Problem-Solving Techniques Vehicle Technique Material Selection in Design and Manufacturing Professional English-I Grade 4 I. Semester (VII. Semester) Machine Laboratory Measurement Technique TOTAL Design Applications-I Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 3 3 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 3 3 3 14 2 2 2 2 2 2 2 2 2 2 8 3 3 3 3 4 4 3 3 3 6 4 3 3 3	5 5 5 5 20 2 2 2 3 3 3 30 2 2 2 2 2 5 5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Code 0605302 0605304 0605306 0605308 0101101 0605398 0605032 0605034 0605036 0605038 0605040	Semester) Machine Elements-II Machine Dynamics Heat Transfer Fluid Mechanics-II Social responsibility TOTAL Internship-II (20 working days) Technical Elective Course Technical Elective Course Technical Elective Elements Renewable Energy Sources Building Installation Engineering Economics Professional English-II 4th Grade 2nd Semester (VIII. Semester) Graduation Project Computer Aided Engineering TOTAL Design Applications-II Technical Elective Course Technical Elective Course	Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective Elective	4 4 4 3 1 1 16 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 18 0 3 3 3 3 3 3 3 3 3 2 2 4 K 3 3 6 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 4 5 2 21 3 3 3 3 3 3 3 5 6 6 6 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8

	ELECTIVE COURSES							ELECTIVE COURSES					
0605041	Natural Gas System Design. And Application.	Elective	3	1	4	5	0605040	Heat Exchangers Design and Application.	Elective	3	1	4	5
0605043	Heating System Design and Application	Elective	3	1	4	5	0605042	Machine Elements Design and Application.	Elective	3	1	4	5
0605045	Solar Energy Design. And Application.	Elective	3	1	4	5	0605044	Motor Vehicles Design and Application.	Elective	3	1	4	5
0605047	Robotic Design and Application.	Elective	3	1	4	5	0605046	Control Systems Design and Application.	Elective	3	1	4	5
0605049	Manufacturing Procedures Design and Application.	Elective	3	1	4	5	0605048	Air Conditioning Design and Application.	Elective	3	1	4	5
0605051	Construction Machinery Design and Application.	Elective	3	1	4	5	0605050	Surface Treatment Design and Application.	Elective	3	1	4	5
	TECHNICAL ELECTIVES							TECHNICAL ELECTIVES					
0605061	Composite Materials	Elective	3	0	3	5	0605060	Engineering and Nano Technology	Elective	3	0	3	5
0605063	Computer Aided Manufacturing-I	Elective	3	0	3	5	0605062	Advanced Manufacturing Methods	Elective	3	0	3	5
0605065	Plastic Materials	Elective	3	0	3	5	0605064	Computer Aided Manufacturing-II	Elective	3	0	3	5
0605067	Welding Technology	Elective	3	0	3	5	0605066	Nondestructive Inspection Methods	Elective	3	0	3	5
0605069	Heating Ventilation Air Conditioning	Elective	3	0	3	5	0605068	Introduction to Biomechanics	Elective	3	0	3	5
0605071	Heat Exchangers	Elective	3	0	3	5	0605070	Internal Combustion Engines	Elective	3	0	3	5
0605073	Hydraulic Machines	Elective	3	0	3	5	0605072	Cooling Technique	Elective	3	0	3	5
0605075	Modeling with Finite Elements	Elective	3	0	3	5	0605074	Natural Gas Technology	Elective	3	0	3	5
0605077	Energy Management	Elective	3	0	3	5	0605076	Hydraulic and Pneumatic Circuits	Elective	3	0	3	5
0605079	Transport Technique	Elective	3	0	3	5	0605078	Advanced Strength	Elective	3	0	3	5
0605081	Control Systems Design	Elective	3	0	3	5	0605080	Control Element Applications	Elective	3	0	3	5
0605083	Factory Design	Elective	3	0	3	5	0605082	Kinematic Synthesis of Mechanisms	Elective	3	0	3	5

COMPULSORY COURSES 170 ACTS (70,83%) SOCIAL ELECTIVES: 12 AKTS (5%) TECHNICAL ELECTIVES: 52 AKTS (21,67%) INTERNSHIP 6 ECTS 2,5%) 240 ECTS IN TOTAL (100%)