

Mechanical Engineering Department Double Major Program for Department of Mechatronics Engineering

	Prerequisite	COURSE C.	COURSE NAME	Taken from	Compulsory or elective	T	A	L	ECTS
1 st YEAR FALL		CHE101	Chemistry for Engineers	Major	Compulsory	2	0	2	7
		MAT101	Calculus I	Major	Compulsory	3	2		7
		MEE101	Introduction to Mechatronics Engineering	Major	Compulsory	2	0		2
		PHY101	Physics I	Major	Compulsory	3	0	2	7
		ENG110	English I	Major	Compulsory	2	0		3
		ATA101	Principles of Atatürk & Hist. of the Turkish Rev. I	Major	Compulsory	2	0		2
		TDE101	Turkish Language I	Major	Compulsory	2	0		2
			TOTAL SEMESTER ECTS						
1 st YEAR SPRING	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7
		MEE111	Computer Aided Technical Drawing I	Major	Compulsory	2	2		3
		MEE102	Statics	Major	Compulsory	2	2		4
		PHY102	Physics II	Major	Compulsory	3	0	2	7
		ENG111	English II	Major	Compulsory	2	0		3
		ATA102	Principles of Atatürk & Hist. of the Turkish Rev. II	Major	Compulsory	2	0		2
		TDE102	Turkish Language II	Major	Compulsory	2	0		2
		MEE104	Measurement and Evaluation Technique	Major	Compulsory	1	2		2
		TOTAL SEMESTER ECTS							30
2 nd YEAR FALL		COE108	C Programming	Major	Compulsory	2	2		4
		MAT205	Differential Equations	Major	Compulsory	4	0		6
		MEE112	Computer Aided Technical Drawing II	Major	Compulsory	2	2		3
		MEE231	Materials Science	Major	Compulsory	3	0		3
		MEE241	Thermodynamics I	Major	Compulsory	3	0		4
		MEE224	Strength of Materials	Major	Compulsory	4	0		4
		MEE211	Electric and Electronic Curcuits Theory I	Major	Compulsory	2	2		3
			Non-Technical Elective I	Major	Elective	2	0		3
		TOTAL SEMESTER ECTS							30
2 nd YEAR SPRING		MEE203	Dynamics	Major	Compulsory	2	2		4
		ME222	Materials Science & Engineering II	Double Major	Compulsory	3	0		4
		MEE232	Applied Mathematics for Engineers	Major	Compulsory	3	0		4
		ME242	Thermodynamics II	Double Major	Compulsory	3	0		4
		ME262	Strength of Materials II	Double Major	Compulsory	3	0		5
		ME206	Economy for Engineers	Major	Compulsory	2	0		2
		MEE212	Electric and Electronic Curcuits II	Major	Compulsory	2	2		4
		MEE210	Electrical Machines	Major	Compulsory	2	2		4
		Non-Technical Elective II	Major	Elective	2	0		3	
		TOTAL SEMESTER ECTS							34
3 rd YEAR FALL		ME311	Machine Elements I	Double Major	Compulsory	2	2		5
		MEE314	Fluid Mechanics	Major	Compulsory	3	0		3
		MEE311	Mechanism Design I	Major	Compulsory	3	1		5
		MEE208	Numerical Methods in Engineering	Major	Compulsory	2	2		4
		ME351	Heat Transfer	Double Major	Compulsory	4	0		5
		MEE304	Manufacturing Processes	Major	Compulsory	3	0		3
			Non-Technical Elective III	Major	Elective	2	0		3
		TOTAL SEMESTER ECTS							28
3 rd YEAR SPRING		MEE301	Basic Practice I	Major	Compulsory	0	2		2
		MEE307	Mechatronic System Design I	Major	Compulsory	2	2		4
		ME322	Thermal&Fluid Engineering	Double Major	Compulsory	2	2		4
		MEE312	Mechanism Design II	Major	Compulsory	3	1		5
		ME362	Manufacturing Engineering	Double Major	Compulsory	3	0		4
		ME372	Mechanical Engineering Laboratory	Double Major	Compulsory	1	2		3
		MEE310	Automatic Control	Major	Compulsory	2	2		4
			Non-Technical Elective IV	Major	Elective	2	0		3
		TOTAL SEMESTER ECTS							29
4 th YEAR FALL		MEE401	Graduation Projects I	Major	Compulsory	0	2		4
		ME400	Summer Practice II	Double Major	Compulsory	0	2		5
		ES411	Occupational Health and Safety I	Major	Compulsory	2	0		3
		ENG4xx	Interdisciplinary Technical Elective Courses	Major or Double Major	Elective	0	2		6
		ME4XX	Departmental Elective (3 courses will be selected from ME4XX elective c.)	Double Major	Elective				18
		TOTAL SEMESTER ECTS							36
4 th YEAR SPRING		ME4DE2	Design Elective Course (Group B)	Double Major	Elective	2	3		8
		ES412	Occupational Health and Safety II	Major	Compulsory	2	0		3
		ME4XX	Departmental Elective (3 courses will be selected from ME4XX elective c.)	Double Major	Elective				18
		TOTAL SEMESTER ECTS							29
		CUMULATIVE ECTS							246