

ISTINYE UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

1. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
MEE101	Differential and Integral Calculus	2+2	6	EN
MEE103	Computational Thinking	3+2	7	EN
MEE105	Engineering Physics	3+1	6	EN
MEE107	Computing Literacy	2+2	5	EN
MEE109	Engineering Design	3+0	4	EN
TRK101	Turkish Language I	2+0	2	TR
Total		22	30	

3. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
MEE201	Differential Equations	2+2	6	EN
MEE203	Material Science	2+1	4	EN
MEE205	Fundamentals of Mechanical Engineering	2+2	5	EN
MEE207	Statics	2+1	4	EN
	Department Elective	2+2	5	EN
DIL101	General English 1	2+0	2	EN
ATA101	Atatürk's Principles and the History of Revolution I	2+0	2	TR
SEG001	Manifest of Istinye I	0+1	1	EN
Total		23	29	

5. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
MEE301	Thermodynamics I	2+2	4	EN
MEE303	Fluid Mechanics I	2+2	4	EN
MEE305	Numerical Methods	2+2	4	EN
MEE307	Machine Design I	2+2	5	EN
	Department Elective	2+2	5	EN
	Department Elective	2+2	5	EN
	University Elective	2+2	5	EN
Total		28	32	

7. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
MEE401	Capstone Project I	3+2	7	EN
MEE403	Finite Element Methods (FEM)	3+1	5	EN
MEE405	System Dynamics and Control	2+2	4	EN
	Department Elective	2+2	5	EN
	Department Elective	2+2	5	EN
	University Elective	2+2	5	EN
SEG003	Manifest of Istinye III	0+1	1	EN
Total		26	32	

Code	DEPARTMENT ELECTIVES	T+P	ECTS	Language Of Instruction
MEE001	Directed Research	2+2	5	EN
MEE002	Engineering Ethics	2+2	5	EN
MEE003	Engineering Economics	2+2	5	EN
MEE004	Introduction to Robotics	2+2	5	EN
MEE005	Signal Processing and Data Acquisition	2+2	5	EN
MEE006	Probability Theory and Stoch Processes	2+2	5	EN
MEE007	Biomechanics	2+2	5	EN
MEE008	Computational Fluid Dynamics	2+2	5	EN
MEE009	Heating Ventilation and Air Conditioning (HVAC)	2+2	5	EN
MEE010	Gas Dynamics	2+2	5	EN
MEE011	Gas Turbines	2+2	5	EN
MEE012	Turbomachinery	2+2	5	EN
MEE013	Internal Combustion Engines (ICEs)	2+2	5	EN
MEE014	Alternative Fuels	2+2	5	EN
MEE015	Fuel economy	2+2	5	EN
MEE016	Electrical and Hybrid Vehicles	2+2	5	EN
MEE017	Vehicle Technology	2+2	5	EN
MEE018	Renewable and Sustainable Energy	2+2	5	EN
MEE019	Acoustics and Vibration	2+2	5	EN
MEE020	Computer Aided Manufacturing (CAM)	2+2	5	EN
MEE021	Hydraulic and Pneumatic	2+2	5	EN
MEE022	MEMS Design	2+2	5	EN
MEE023	Nano Materials	2+2	5	EN
MEE024	Composite Materials	2+2	5	EN

2. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
MEE102	Linear Algebra with Applications	2+2	6	EN
MEE104	Computational Mathematics	3+2	7	EN
MEE106	Computer Aided Design	2+2	5	EN
MEE108	Electronic Physics and Systems	3+1	6	EN
MEE110	Human Body	2+2	4	EN
TRK102	Turkish Language II	2+0	2	TR
Total		23	30	

4. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
MEE202	Dynamics	2+1	4	EN
MEE204	Vector Calculus	2+2	6	EN
MEE206	Manufacturing Processes	3+1	4	EN
MEE208	Measurement and Instrumentation	1+1	2	EN
MEE210	Strength of Materials	2+2	5	EN
MEE212	Industrial Training I	0+0	0	EN
	Department Elective	2+2	5	EN
DIL102	General English 2	2+0	2	EN
ATA102	Atatürk's Principles and the History of Revolution II	2+0	2	TR
SEG002	Manifest of Istinye II	0+1	1	EN
Total		26	31	

6. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
MEE302	Heat Transfer	2+2	4	EN
MEE304	Fluid Mechanics II	2+2	4	EN
MEE306	Theory of Machines	2+2	6	EN
MEE308	Industrial Training II	0+0	0	EN
MEE310	Machine Design II	2+2	5	EN
MEE312	Thermodynamics II	2+2	4	EN
	Department Elective	2+2	5	EN
Total		24	28	

8. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
MEE402	Capstone Project II	3+2	7	EN
MEE404	Mech. Eng. Student Lab.	1+2	6	EN
	Department Elective	2+2	5	EN
	Department Elective	2+2	5	EN
	Department Elective	2+2	5	EN
SEG004	Manifest of Istinye IV	0+1	1	EN
Total		20	28	

Code	UNIVERSITY ELECTIVES	T+P	ECTS	Language Of Instruction
UNI 001	Alternative and Renewable Energy	2+2	5	TR
UNI 002	Introduction to Anthropology	2+2	5	TR
UNI 003	Nutrition Misconceptions	2+2	5	TR
UNI 004	Introduction to Modern Art	2+2	5	TR
UNI 005	Digital Media Literacy	2+2	5	TR
UNI 006	Entrepreneurship in Dietetics	2+2	5	TR
UNI 007	Intellectual History	2+2	5	TR
UNI 008	Rhetoric and Diction	2+2	5	TR
UNI 009	Rhetoric and Presentation Techniques	2+2	5	TR
UNI 010	Introduction to Philosophy	2+2	5	TR
UNI 011	Introduction to New Media	2+2	5	TR
UNI 012	Convincing and Effective Communication	2+2	5	TR
UNI 013	Communication Methods	2+2	5	TR
UNI 014	Sign Language	2+2	5	TR
UNI 015	Preventive Healthcare and Health Literacy	2+2	5	TR
UNI 016	Leadership Strategies	2+2	5	TR
UNI 017	Logistics Management	2+2	5	TR
UNI 018	Media Literacy	2+2	5	TR
UNI 019	Entrepreneurship	2+2	5	TR
UNI 020	Psychological Skills	2+2	5	TR
UNI 021	Public Speaking	2+2	5	TR
UNI 022	Health Economics	2+2	5	TR
UNI 023	Healthy Life and Physical Activity	2+2	5	TR
UNI 024	Technological Conversion in Turkish Defense Industry	2+2	5	TR
UNI 025	Introduction to Sociology	2+2	5	TR
UNI 026	International Organisations	2+2	5	TR
UNI 027	Management Skills	2+2	5	TR
UNI 028	Introduction to Optimisation	2+2	5	TR
UNI 029	Monumental Architecture of Istanbul	2+2	5	TR

DESCRIPTION

T: Theoric

P: Practice

ECTS: European Credit Transfer System