



Adiyaman Üniversitesi

FACULTY OF ENGINEERING

Makine Mühendisliği

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1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlIT101	Ataturk's Principles and Turkish Revolution I	2+0+0	Compulsory	2
FIZ101	Physics I	2+0+2	Compulsory	4
KIM101	Chemistry	2+0+2	Compulsory	4
MAK111	Introduction to Mechanical Engineering	2+0+0	Compulsory	5
MAK113	Technical Drawing I	2+2+0	Compulsory	5
MAT101	Calculus I	3+1+0	Compulsory	5
TD101	Turkish I	2+0+0	Compulsory	2
YD101	Foreign Language I	2+0+0	Compulsory	3
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlIT102	Ataturk's Principles and Turkish Revolution II	2+0+0	Compulsory	2
FIZ102	Physics II	2+0+2	Compulsory	4
MAK116	Statics	3+0+0	Compulsory	4
MAK118	Technical Drawing II	2+2+0	Compulsory	5
MAK120	Measurement Methods	2+0+0	Compulsory	2
MAT102	Calculus II	3+1+0	Compulsory	5
MAT104	Linear Algebra	2+0+0	Compulsory	3
TD102	Turkish II	2+0+0	Compulsory	2
YD102	Foreign Language II	2+0+0	Compulsory	3
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK203	Material Science	3+0+0	Compulsory	5
MAK205	Strength Of Materials I	3+0+0	Compulsory	5
MAK207	Dynamics	3+0+0	Compulsory	5
MAK217	Manufacturing Process I	3+0+0	Compulsory	4
MUH201	Statistics for Engineers	2+0+0	Compulsory	3
MAKSEC1	Professional Elective Courses I	3+0+0	Elective	6
SOSSEC1	Social Elective Courses	2+0+0	Elective	2
Total ECTS				30

MAK219	Programming	3+0+0	Elective	3
MAK221	Casting Technology	3+0+0	Elective	3
MAK223	Renewable Energy Sources	3+0+0	Elective	3
MAK225	Computer Aided Manufacturing	2+1+0	Elective	3
MAK227	Numerical Analysis	3+0+0	Elective	3
SOS201	Communication	2+0+0	Elective	2
SOS203	Environmental Management Systems	2+0+0	Elective	2
SOS205	Engineering Economy	2+0+0	Elective	2
SOS207	Critical Analytical Thinking	2+0+0	Elective	2
SOS209	History of Science	2+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK206	Strength Of Materials II	3+0+0	Compulsory	5
MAK220	Thermodynamics I	4+0+0	Compulsory	5
MAK222	Manufacturing Process II	2+1+0	Compulsory	4
MAK224	Introduction To AC/DC Circuits	3+0+0	Compulsory	4
MAK234	Summer Practice	0+0+0	Compulsory	0
MAT202	Differential Equations	3+0+0	Compulsory	4
MUH204	Occupational Health and Safety	2+0+0	Compulsory	3
MAKSEC2	Professional Elective Courses 2	3+0+0	Elective	3
SOSSEC2	Social Elective Courses 2	2+0+0	Elective	2
Total ECTS				30

MAK226	Engineering Materials	3+0+0	Elective	3
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MAK228	Exhaust Emissions	3+0+0	Elective	3
MAK230	Chassis and Body Parts Design	3+0+0	Elective	3
MAK232	Composite Materials	3+0+0	Elective	3
SOS202	Public Relations	2+0+0	Elective	2
SOS204	First Aid	2+0+0	Elective	2
SOS206	Environmental Pollution and Control	2+0+0	Elective	2
SOS208	Artificial Intelligence Methods	2+0+0	Elective	2
SOS210	Research and Examination Techniques	2+0+0	Elective	2

5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK319	Thermodynamics II	4+0+0	Compulsory	5
MAK321	Fluid Mechanics I	4+0+0	Compulsory	4
MAK323	Machine Elements I	3+0+0	Compulsory	4
MAK325	Heat Transfer I	3+0+0	Compulsory	4
MAK327	Mechanisms	3+0+0	Compulsory	5
MAK329	Machine Laboratory I	0+0+3	Compulsory	6
SOSSEC3	Social Elective Course 3	2+0+0	Elective	2

Total ECTS 30

SOS301	Patents and Industrial Designs	2+0+0	Elective	2
SOS303	Environmental and Ecology	2+0+0	Elective	2
SOS305	History of Art	2+0+0	Elective	2
SOS307	Sign Language	2+0+0	Elective	2
SOS309	Operation Research	2+0+0	Elective	2
SOS311	Technology and Innovation Management	2+0+0	Elective	2

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK322	Fluid Mechanics II	4+0+0	Compulsory	4
MAK324	Machine Elements II	3+0+0	Compulsory	4
MAK326	Heat Transfer II	3+0+0	Compulsory	4
MAK328	Dynamics of Machinery	3+0+0	Compulsory	4
MAK360	Summer Practice 2	0+0+0	Compulsory	0
MAKSEC3	Professional Elective Courses 3	3+0+0	Elective	12
SOSSEC4	Social Elective Course 4	2+0+0	Elective	2

Total ECTS 30

MAK330	Internal Combustion Engines	3+0+0	Elective	4
MAK332	Hydraulic Machines	3+0+0	Elective	4
MAK334	Design Of Control Systems	3+0+0	Elective	4
MAK336	Control Elements and Applications	3+0+0	Elective	4
MAK338	Welding Technology	3+0+0	Elective	4
MAK340	Die Design and Manufacturing	3+0+0	Elective	4
MAK342	Computer Aided Drawing	3+0+0	Elective	4
MAK344	Mass Transfer	3+0+0	Elective	4
MAK346	Heat Pumps	3+0+0	Elective	4
MAK348	Elastisite Teorisi	3+0+0	Elective	4
MAK350	Vocational English I	3+0+0	Elective	4
MAK352	System Modelling and Analysis	3+0+0	Elective	4
MAK354	Insulation Techniques	3+0+0	Elective	4
MAK356	Design of Heat Exchanger	3+0+0	Elective	4
MAK358	Electricity Machinery	3+0+0	Elective	4
SOS302	Entrepreneurship	2+0+0	Elective	2
SOS304	Ahi Community and Professional Ethics	2+0+0	Elective	2
SOS306	Production Planning	2+0+0	Elective	2
SOS308	Ergonomy	2+0+0	Elective	2
SOS310	Climate Change and Sustainable Management	2+0+0	Elective	2
SOS312	Career Planning and Development	2+0+0	Elective	2
SOS314	International Relations	2+0+0	Elective	2

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK429	Machine Laboratory II	0+0+3	Compulsory	4
MAK431	Senior Design Project	0+2+0	Compulsory	4
MAKSEC4	Professional Elective Courses 4	3+0+0	Elective	20
SOSSEC5	Social Elective Course 5	2+0+0	Elective	2

Total ECTS 30

MAK433	Industrial Hydraulic and Pnumatic	3+0+0	Elective	5
MAK435	Computer Aided Engineering Analysis	3+0+0	Elective	5
MAK437	Computer Programming	3+0+0	Elective	5
MAK439	Building Installation	3+0+0	Elective	5
MAK441	Heating And Ventilation Technique	3+0+0	Elective	5
MAK443	Introduction to Mechatronics	3+0+0	Elective	5
MAK445	Cooling Technique	3+0+0	Elective	5
MAK447	Thermal Turbomachines	3+0+0	Elective	5
MAK449	Manufacturing Methods of Plastics	3+0+0	Elective	5
MAK451	Introduction to Finite Element Methods	3+0+0	Elective	5
MAK453	Non-Destructive Testing	3+0+0	Elective	5
MAK455	Machine Tool Design	3+0+0	Elective	5
MAK457	Gas Turbines and Jet Propulsions Systems	3+0+0	Elective	5
MAK459	Steam Boilers	3+0+0	Elective	5
MAK461	Vocational English II	3+0+0	Elective	5
MAK463	Introduction to Fracture Mechanics	3+0+0	Elective	5
MAK465	Plasticity Theory	3+0+0	Elective	5
MAK467	Tribology	3+0+0	Elective	5
MAK469	Energy Management	3+0+0	Elective	5
MAK471	Robotics	3+0+0	Elective	5
MAK473	Mechanical Vibrations	3+0+0	Elective	5
MAK475	Introduction to Aerodynamics	3+0+0	Elective	5
MAK477	Fuels and Combustion	3+0+0	Elective	5
MAK479	Heat Treatments	3+0+0	Elective	5
MAK481	Machine Design	3+0+0	Elective	5
SOS401	Business Law	2+0+0	Elective	2
SOS403	Intellectual and Industrial Property	2+0+0	Elective	2
SOS405	Energy Saving in Industry	2+0+0	Elective	2
SOS407	Business Administration and Management	2+0+0	Elective	2
SOS409	Factory Organization and Facility Planning	2+0+0	Elective	2
SOS411	Efficiency Measurement and Analysis	2+0+0	Elective	2
SOS413	Risk Management	2+0+0	Elective	2
SOS415	Energy and Environment	2+0+0	Elective	2

8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAK404	Engineering Adaptation	0+2+0	Compulsory	15
MAKSEC5	Professional Elective Courses 5	2+0+0	Elective	15
			Total ECTS	30
MAK406	Innovation and Product Development	2+0+0	Elective	5
MAK408	Quality Control and Standard	2+0+0	Elective	5
MAK410	Efficency Management	2+0+0	Elective	5
MAK412	Computational Fluid Dynamics	2+0+0	Elective	5
MAK414	Gas Dynamics	2+0+0	Elective	5