

MECHANICAL ENGINEERING

CODE	Fall Semester	RU	ECTS
AZLL 101	Azerbaijan Language	3	6
MATH 101	Calculus I	3	6
CHEM 111	General Chemistry	3	6
ENGL 101	English Foundations I	4	8
	Social Sciences**	3	6
	Credit	16	32

CODE	Syllabus/Semester	KU	ECTS
AZH150	Azerbaijan History	3	6
MATH102	Calculus II	3	6
PHSC 111	Physics I	3	6
ENGL 102	English Foundation II	4	8
ME 201	Introduction to Mechanical Engineering	3	6
	Azerbaijani Culture	2	4
	Credit	18	36

CODE	Fall Semester	CR	ECTS
ENGL 216	ESP for Mechanical Engineering	3	6
ENGR 205	Engineering Mechanics (Statics)	3	6
PHSC 112	Physics II	3	6
MATH 310	Applied Differential Equations	3	6
	Humanity*	3	6
		15	30

CODE	Spring Semester	CU	ECTS
ME 262	Dynamics	3	6
ME 351	Materials Science	3	6
CIV 303	Strength of Materials + Lab	3	6
CMS 115	Computer Application in Engineering	3	6
	Humanity*	3	6
	Credit	15	30

CODE	Fall Semester	CR	ECTS
ENGR 210	Fluid Mechanics + Lab	3	6
ENGR 303	Thermodynamics	3	6
CMS 140	Fundamentals of Computer Programming	3	6
ME 363	Manufacturing Technologies	3	6
	Major Elective	3	6
	Credit	15	30

CODE	Spring Semester	CU	ECTS
CHE 302	Heat Transfer + Lab	3	6
ME 317	Technical Drawing and Design	3	6
EENG 250	Fundamentals of Electrical Engineering	3	6
MED 315	Life Sciences	3	6
	Major Elective	3	6
	Credit	15	30

CODE	Summer Semester	KU	ECTS
ME 395	Summer internship	6	12
	Credit	6	12

CODE	Fall Semester	CR	ECTS
ME 420	Theory of Machines	3	6
ME 361	Machine Element I	3	6
ECON	Engineering Economy	3	6
ME 450	Metrology and Quality Control	3	6
	Major Elective	3	6
	Credit	15	30

CODE	Spring Semester	CU	ECTS
ME 475	System Dynamics and Control	4	8
ME 402	Machine Element II	3	6
ENV 305	Health, Safety & Environment	3	6
	Major Elective	3	6
	Credit	13	26

	* Humanity Courses List:	6	12	Major Elective		
PHIL 110	Philosophy	3	6	ME 315	Stress Analysis	3 V
FNLG 201	Foreign Language	3	6	ME 371	Numerical Methods for Engineers	3 V
FNLG 202	Foreign Language	3	6	ENGR 360	Applied Fluid Mechanics	3 VI
				ME 490	Renewable Energy Systems	3 VI
	** Social Sciences	6	12	ME 481	Introduction to CNC Machining	3 VII
MGT310	Management and Organization	3	6	ME 416	Mechanical Vibrations	3 VII
LAW 220	Family Law	3	6	ME 421	Hydraulic and Pneumatic Systems	3 VII
ECON 101	Introduction to Economics	3	6	ME 411	Heating, ventilation, and air conditioning	3 VIII
LAW 106	Constitutional Law	3	6	ME 453	Nondestructive Testing Methods	3 VIII
HIST 11	World Culture and History	3	6	ME 440	Applied Thermal Systems	3 VIII
	Science and Technology	9	18			
CMS	Computer application in Engineering	3	6			
MED 315	Life Science	3	6			
MATH 101	Calculus_I	3	6			