KHAZAR UNIVERSITY

MECHANICAL ENGINEERING

1st Year

CODE	Fall Semester	KU	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	Spring 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

2nd Year

CODE	Fall Semester	KU	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 Differnetial Equations	3	6
	Humanity*	3	6
		15	30

CODE	Spring Semester	KU	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

3rd Year

CODE	Fall Semester	KU	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	KU	ECTS
CHE 302	Heat Transfer + Lab	3	6
ME 317	Technical Drawing and Design	3	6
EENG 250	Fundamnetals 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

4th Year

CODE	Fall Semester	KU	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	KU	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
PHIL 110	Philosophy	3	6
FNLG 201	Foreign Language	3	6
FNLG 202	Foreign Language	3	6
	** Social Sciences	6	12
MGT310	Management and Organization	3	6
LAW 220	Family Law	3	6
ECON 101	Introduction to Economics	3	6
LAW 106	Constutional Law	3	6
HIST 11	World Culture and History	3	6
	Science and Technology	9	18
CMS	Computer application in Engineering	3	6
MED 315	Life Science	3	6
MATH 101	Calculus_I	3	6

Major Elective			
ME 315	Stress Analysis	3	V
ME 371	Numerical Methods for Engineers	3	V
ENGR 360	Applied Fluid Mechanics	3	VI
ME 490	Renewable Energy Systems	3	VI
ME 481	Introduction to CNC Machining	3	VII
ME 416	Mechanical Vibrations	3	VII
ME 421	Hydraulic and Pneumatic Systems	3	VII
ME 411	Heating, ventilation, and air conditioning	3	VIII
ME 453	Nondestructive Testing Methods	3	VIII
ME 440	Applied Thermal Systems	3	VIII