“APPROVED”

UNEC

rector_____prof. A.J.Muradov

(signature)

“_____” _____ 20__ year

MINISTRY OF EDUCATION OF THE REPUBLIC OF AZERBAIJAN

FORM №1

AZERBAIJAN STATE UNIVERSITY OF ECONOMICS
(UNEC)

EDUCATION PLAN

Code and name of the specialty:
050622– Machine engineering

(for undergraduate level)
Study period 4 years (8 semesters)

I. SCHEDULE OF EDUCATION PROCESS

	September				29 IX 5 X	October				27 X 2 XI	November				December				29 XII 4 I	January				26 I 1 II	February				23 II 1 III	March				30 III 5 IV	April				27 IV 3 V	May				June				29 VI 5 VII	July				27 VII 2 VIII	August			
	1 7	8 14	15 21	22 28		6 12	13 19	20 26		3 9	10 16	17 23	24 30	1 7	8 14	15 21	22 28		5 11	12 18	19 25		2 8	9 15	16 22		2 8	9 15	16 22	23 29		6 12	13 19	20 26		4 10	11 17	18 24	25 31	1 7	8 14	15 21	22 28		6 12	13 19	20 26		3 9	10 16	17 23	24 30
1	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	=	=	=	=	=	=
2	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	=	=	=	=	=	=
3	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	=	=	=	=	=	=
4	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	=	=	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P								

SYMBOLS: THEORETICAL TRAINING [ ] EXAM SESSION [: :] PRACTICE [X] FINAL STATE ATTESTATION [//] VACATION [=]

II. PLAN OF EDUCATIONAL PROCESS

№	Code of the subject	Name of subjects	Number of credit	Total hours	Hours outside the auditorium	Auditorium hours	Including			Prerequisite (required to be taught first) program of subjects	Requisite (teaching parallel intended) code of subjects	Semester of subject teaching (fall and spring)	Weekly class load
							Lecture	Seminar	Laboratory				
	Total		240	7200	4920	2280	1095	930	255				
	General subjects		30	900	345	555	90	345	0				
1	00004	Business and academic communication in Azerbaijani language	4	120	60	60		60				S–1	4
2	00005	History of Azerbaijan	5	150	90	60	30	30				F–1	4
3	00052	Business and academic communication in a foreign language-1	4	120	60	60		60				F–1	4
4	00073	Business and academic communication in a foreign language-2	3	90	45	45		45		00052		S–1	3
5	00932	Business and academic communication in a foreign language-3	4	120	60	60		60		00073		F–2	4
6	00933	Business and academic communication in a foreign language-4	4	120	60	60		60		00932		S–2	4
	Elective subjects (general subjects)		6	180	90	90	60	30					
7	00341 00830 00149 00574 00316 00632	1. Philosophy 2. Sociology 3. Fundamentals of law and Constitution of AR 4. Logic 5. Ethics and aesthetics 6. Introduction to multiculturalism	3	90	45	45	30	15				S–3	3
8	00402 00404 00758 00671	1. Information Technologies 2. Information management 3. Fundamentals of entrepreneurship and introduction to business 4. Political science	3	90	45	45	30	15				S–3	3
	Specialty subjects		120	3600	2310	1290	705	435	150				
9	00055	Linear algebra and analytic geometry	4	120	75	45	30	15				F–1	3
10	00040	Mathematical analysis	8	240	180	60	30	30				S–1	4
11	00891	Applied mathematics	4	120	75	45	30	15				F–2	3
12	00009	Physics	8	240	180	60	30		30			F–1	4

13	00024	Chemistry	5	150	90	60	30		30			F–1	4
14	00065	Introduction to specialty	4	120	75	45	30	15				F–1	3
15	00680	Principles of programming	5	150	105	45	30	15				F–2	3
16	00095	Theoretical mechanics	6	180	120	60	30	30				S–1	4
17	00047	Descriptive geometry and engineering graphics	5	150	90	60	30	30				F–1	4
18	00485	Computer graphics	3	90	45	45	15	30				F–3	3
19	00542	Theory of machines and mechanisms	6	180	120	60	30	30				F–2	4
20	00549	Resistance of materials	6	180	120	60	30	15	15			F–2	4
21	00560	Material science	5	150	90	60	30	15	15			F–2	4
22	00080	Principles of electrical engineering and electronics	4	120	60	60	30		30			S–1	4
23	00086	Heating technique	4	120	75	45	30		15			S–1	3
24	00581	Metrology, standardization and certification	4	120	75	45	30		15			F–3	3
25	00538	Principles of machine production technology	7	210	150	60	30	30				S–2	4
26	00537	Machine design	7	210	150	60	30	30				F–3	4
27	00619	Economy of engineering	4	120	60	60	30	30				S–3	4
28	00543	Normalization of quality in machine building	5	150	90	60	30	30				F–3	4
29	00301	Processing methods and tools	6	180	120	60	30	30				S–2	4
30	00155	Principles of automation	3	90	45	45	30	15				S–3	3
31	00370	Security of life activity	4	120	75	45	30	15				S–3	3
32	00034	Civil defense	3	90	45	45	30	15				S–3	3
	Elective subjects (On specialty subjects)		60	1800	1245	555	300	135	105				
33	00879 00565 00876	1. Thermodynamic engineering 2. Fluid engineering 3. Thermal engineering	6	180	135	45	30		15			S–2	3
34	00459 00831 00718	1. Heat transfer 2. Cooling technique 3. Drying technique	8	240	180	60	30	15	15			F–3	4
35	00773 00283 00584	1. Industrial acoustics and mechanical vibration 2. Theory of elasticity 3. Control of mechanical systems	8	240	180	60	30	15	15			S–3	4
36	00211 00497 00743	1. Steam boilers 2. Condensation technique 3. Digitally controlled devices	8	240	180	60	30	15	15			S–3	4
37	00585 00224 00753 00606	1. Mechatronics 2. Internal combustion and turbo engines 3. Introduction to robotics 4. Motors	7	210	135	75	30	30	15			F–4	5
38	00233 00797 00688 00835	1. Dynamics and control 2. System dynamics and simulation 3. Gas dynamics 4. Statistics	5	150	105	45	30		15			F–4	3
39	00166 00286 00300	1. Renewable energy sources and their use 2. Electric energy and transformations 3. Basics of using scientific technologies	5	150	105	45	30	15				F–4	4
40	00639 00667 00670 00656	1.Nanocomposites 2.Theory of plasticity 3. Polymer technology 4.Rub metallurgy	5	150	90	60	30	15	15			F–4	4
41	00189 00687 00539	1. Repair engineering 2. Welding technique 3. Finite element method of machine engineering	4	120	75	45	30	15				F–4	3
42	00780 00623 00417	1. Industrial management 2. Fundamentals of management for engineers 3. Innovations, technologies and investments	4	120	75	45	30	15				F–4	3
	Practice and graduation work		30	900	900								
43	00861	Practice	21	630	630							S–4	0
44	00210	Graduation work	9	270	270							S–4	0

Academic year		Credits		Theoretical training (week)		Exam session (week)		Practice (week)		Final attestation (Week)		Vacation	
I	F – 1	60	30	30	15	10	5					12	2
	S – 1		30		15		5						10
II	F – 2	60	30	30	15	10	5					12	2
	S – 2		30		15		5						10
III	F – 3	60	30	30	15	10	5					12	2
	S – 3		30		15		5						10
IV	F – 4	$30 + 21^{x} + 9^{//}$	30	15	15	5	5	14		6		2	2
	F – 4		$21^{x} + 9^{//}$						14		6		
Total:		$210 + 21^{x} + 9^{//} = 240$		105		35		14		6		38	

III. TIME ALLOTTED FOR TRAINING

PRACTICE		Week	Credits	Semester
1	Industrial Practice	14	21	S - 4

1 week of the internship period is 1.5 credits.

FINAL ATTESTATION YEKUN		Week	Credits	Semester
1	Final State Attestation	6	9	S – 4

IS PRESENTED BY:

Vice-rector for teaching and training technologies — **Assoc. A. Y. Rzayev**

Director of the teaching-methodical center — **Assoc. E.H. Azadov**

Acting dean of the "Engineering" faculty — **Assoc. E.E. Samadov**

Head of the department "Engineering and applied sciences" — **prof. R.M. Rzayev**