"APPROVED"

UNEC

rector	_prof. A.J.Muradov
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(signature) " " 20___year

AZERBAIJAN STATE UNIVERSITY OF ECONOMICS (UNEC)

Code and name of the specialty: 050623- Materials engineering

EDUCATION PLAN

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

I. **SCHEDULE OF THE EDUCATIONAL PROCESS**

		Septe	mber		29 IX 5 X	0	ctob	er	27 X 2 XI	N	over	nber	r	De	ecen	nber	29 XI 4 I) I	Jan	iuary	7	26 I 1 II	Feb	oruai	ry	23 II 1 III	N	Maro	ch	3 I I	30 11 5 V	Ар	oril	27 IV 3 V		М	ay			Jun	e	,	29 VI 5 VII		July		27 VII 2 VIII		Au	qust	
	1	8	15	22		6	13	20		3	10	17	24	1	8	15 22	2	5	5	12	19		2	9	16		2	9	16	23		6 1	3 20		4	11	18	25	1	8 1	15 2	22		6	13	20		3	10	17	24
	7	14	21	28		12	19	26		9	16	23	30	7	14	21 28	3	1	1	18	25		8	15	22		8 1	15 :	22	29	1	2 1	9 26		10	17	24	31	7 1	14 2	21 2	28		12	19	26		9	16	23	· 30
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SYMBOLS:

THEORETICAL TRAINING

EXAM SESSION

EXPERIENCE

FINAL STATE







ATTESTATION //



II. PLAN OF THE EDUCATIONAL PROCESS

								Including	g	Prerequisite	Requisite	Semester	
N	Code of the subject	Name of subjects	Number of credits	Total hours	Hours outside the auditorium	Code of the subject	Lecture	Seminar	Laboratory	(required to be taught first) program of subjects	(teaching parallel intended) code of subjects	of subject teaching (fall and spring))	Weekly class load
	Total		240	7200	4890	2310	1080	990	240				
	General	subjects	30	900	465	435	90	345	0				
1	00004	Business and academic communication in Azerbaijani language	4	120	60	60		60				S2	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	subjects (general)	6	180	90	90	60	30	0				
7	00341 00830 00149 00574	1.Philosophy 2.Sociology 3. Fundamentals of law and Constitution of AR 4.Logic	3	90	45	45	30	15				S-2	3
	00317 00632	5.Ethics and aesthetics 6.Introduction to multiculturalism											
8	00402 00404	 Information technology (specialty) Information management Fundamentals of 	3	90	45	45	30	15				F-3	3
	00758 00671	entrepreneurship and introduction to business 4.Political science											

	Specialty	v subjects	120	3600	2325	1275	690	405	180			
		Linear algebra and analytical	4	120	75	45	30	15			F-1	3
9	00055	geometry	-	120	10	i.	00	10				
10	00040	Mathematical analysis	8	240	180	60	30	30			<u>S-1</u>	4
11	00891	Applied mathematics General chemistry	4	120	105	45	<u> </u>	15	15		F-2 F-1	3
13	00119	Physico-chemical	4	120	75	45	30		15		S-1	3
14	00048	General physics	6	180	120	60	30		30		F-1	4
15	00121	Applied Physics	6	180	120	<u>60</u>	<u>30</u> 30	30	30		<u>S-1</u> F_1	4
16	00046	engineering graphics	U	100	120	00	50	50			1-1	-
17	00485	Computer graphics	3	90	45	45	15	30			F –2	3
18	00562	Materials science	7	210	150	<u>60</u>	30	15	15		F-2	4
20	00120	Crystallography	4	130	75	45	30		15		5-1 F-3	3
21	00550	Materials technology	7	210	150	60	30	30			F–2	4
22	00067	Introduction to specialty	4	120	<u>60</u>	60	30	30			<u>S-1</u>	4
23	00559	Physico-chemical research	4	120	75	45	<u> </u>	30	15		<u> </u>	4
24	00556	methods of materials										
25	00555	Physics of materials	7	210	150	60	30	20	30		F-3	4
26	00679	Basics of programming Design of new materials	4	120	90	45 60	15 30	<u> </u>			S-2 F-3	<u> </u>
	00939	based on special computer	-	100		00	20				10	-
27		programs		120		45	20		15		F 4	
28	00581	Metrology, standardization	4	120	75	45	30		15		F-4	5
	00544	Material production	5	150	90	60	30	30		1	F-2	4
29	00544	equipment		120	<u> </u>	(0)	20	20				
<u> </u>	00619	Engineering economy Safety of life activities	4	120	60 75	60 45	<u> </u>	<u> </u>			F-4 F-4	4
01	00034	Civil Defense	3	90	45	45	30	15			S-3	3
	Elective	subjects (specialty	60	1800	1200	600	300	240	60			
	subjects)	1 Continuous ahomical	7	210	150	60	20	20			8.2	1
	00218	metallurgy	/	210	150	00	50	50			3-4	4
32	00580	2.Processing of metals										
	00470 00570	3.Chemical metallurgy										
	00373	recycling										
	00558	1.Industrial ecology of	8	240	180	60	30	30			S–2	4
	001/13	materials 2 Amorphous materials										
33	00143	3.Processing of thin sheet										
		materials										
	00852	4.Technology of glass										
	00551	1.Materials, social impact	7	210	150	60	30	30			F-3	4
		and social innovation										
	00163	2.Behavioral sciences for engineers										
24	00311	3.Quality Management in										
34		materials engineering										
	00546	4.Innovation and commercialization of										
	00240	Material technology										
	004(2			120	(0)	(0	20	20			Б.2	
	00463 00462	1.Introduction to ceramics 2.Ceramic processing	4	120	60	60	30	30			F-3	4
35	00347	3.Photonic materials and										
	00(40	devices										
	00049	4.Kerractory materials	5	150	00	60	20	20			6.2	1
	00212	programming	3	130	20	UU	30	30			5-3	4
	00545	2.Data science and machine										
36		learning approaches in materials engineering										
20	00802	3.Introduction to system										
	00479	security										
		4.Computer analysis and simulation										
	00295	1.Electronic Materials	5	150	90	60	30		30		S–3	4
	00979	Engineering										
37	00070	engineering										
	00669	3.Polymer Engineering										
	00547	4.Nanomechanics of materials										
	00668	1.Polymer physics	6	180	120	60	30		30		S–3	4
	00627	2.Mechanical properties of										
38	00563	engineering materials		1								
	00554	4.Electrical and magnetic										
		properties of materials										
	00293	1.Electrical, optical and	6	180	120	60	30	30			F-4	4
20		devices										
39	00229	2.Properties of dielectric and		1								
	00504	magnetic materials 3.Corrosion and corrosion										

	00931	protection 4.Processing technology of raw materials and minerals									
	00552	1.Biological indicators of	6	180	120	60	30	30		F-4	4
	00605	materials 2.Molecular Cell Biology									
40	00685	3.Advanced cell engineering 4.Organic and biological materials									
	00912										
	00478	1.Composition materials	6	180	120	60	30	30		F-4	4
41	00499	basics 2.Construction materials and manufacturing									
41	00588	3.Micro/nano process technology									
	00655	4.Basics of powder materials									
	Internsh	ip and graduation work	30	900	900						
42	00861	Internship	21	630	630					S-4	0
43	00210	Graduation work	9	270	270					S-4	0

III. TIME ALLOTTED FOR TRAINING

Academic year		Credi	it	Theoretica (we	l training ek)	Exam (we	session æk)	Practic	e (week)	Final cer (we	tification ek)	Vaca	ition
Т	F – 1	60	30	30	15	10	5					12	2
1	S – 1	00	30	50	15	10	5					14	10
п	F – 2	60	30	30	15	10	5					12	2
11	S-2	00	30	50	15	10	5					14	10
ш	F – 3	60	30	20	15	10	5					12	2
111	S -3	00	30	50	15	10	5					14	10
IV	$\mathbf{F}-4$	20 + 21x + 0//	30	15	15	5	5	14		6		2	2
1 V	Y – 4	$30 + 21^{-} + 9^{-}$	21 ^x + 9 ^{//}	15		5		14	14	0	6	2	
Total:		$210 + 21^{x} + 9$	0 ^{//} = 240	10	5	3	5	1	4	(5	3	8

	PRACTICE	Week	Credit	Semester
1	Industrial practice	14	21	S – 4

1 week for the internship is 1,5 credits.

	FINAL CERTIFICATION	Week	Credits	Semester
1	Final state attestation	6	9	S – 4

IS PRESENTED BY:

Vice-rector for teaching and learning technologies

Director of the educational-methodical Center

Acting dean of" Engineering " Faculty

Head of the Department " engineering and Applied Sciences"

Assist. Prof. E.H. Azadov

Assist. Prof. E.A. Samadov

prof. R.M. Rzayev