

COURSE STRUCTURE

2025-10114 Manufacturing Engineering (AZ) Bachelor

1					
No	Course code	Title	Th	Pr	Ects
1	MŞN 107	Descriptive geometry and engineering graphics	2	2+0	5
2	RİY 161	Linear algebra and analytic geometry	2	2+0	4
3	KM 110	Chemistry	2	0+1	5
4	FİZ 150	Physics	4	1+1	8
5	XXX XXX	[NAE] Foreign language I	0	6+0	8
Subtotal: 30					

2					
No	Course code	Title	Th	Pr	Ects
1	RİY 138	Mathematical analysis	4	2+0	8
2	MŞN 201	Material science	2	1+1	5
3	EEM 223	Fundamentals of electrotechnics and electronics	2	0+1	4
4	MM 120	Civil Defence	3	0+0	3
5	MŞN 104	Computer graphics	1	2+0	3
6	XXX XXX	[NAE] Foreign language II	0	6+0	7
Subtotal: 30					

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№	Course code	Title	Th	Pr	Ects
1	MŞN 203	Theoretical mechanics	3	2+0	6
2	MŞN 205	The resistance of materials	3	1+1	6
3	KOMP 219	Fundamentals of programming	1	2+0	5
4	AZD 140	Official and Academic Communication in the Azerbaijani language	0	2+0	4
5	MEX 103	Introduction to the specialty	2	0+0	4
6	RTRX 111	History of Azerbaijan	2	2+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	MŞN 214	Heat technics	2	1+0	4
2	RİY 215	Applied mathematics	2	2+0	4
3	MŞN 212	Processing methods and tools	2	1+1	6
4	MŞN 208	Theory of machines and mechanisms	3	1+1	6
5	XXX XXX	[NAE] Non-Area Elective Course II #2	1	1+0	3
6	XXX XXX	[AE] Area elective course VIII #8	3	1+1	7

Subtotal: 30

5

No	Course code	Title	Th	Pr	Ects
1	MŞN 305	Machine design	4	1+1	7
2	MŞN 307	Fundamentals of machine manufacturing technology	2	2+1	7
3	İQT 157	Engineering economics	2	0+0	4
4	PAM 321	Fundamentals of automation	2	1+0	3
5	MŞN 301	Quality standardization in mechanical engineering	2	2+0	5
6	SM 115	Work Safety	2	0+0	4

Subtotal: 30

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No	Course code	Title	Th	Pr	Ects
1	XXX XXX	[AE] Area elective course VII #7	2	2+0	6
2	XXX XXX	[AE] Area elective course V #5	3	1+1	7
3	XXX XXX	[AE] Area elective course III #3	2	0+1	4
4	XXX XXX	[AE] Area elective course IV #4	2	1+0	3
5	XXX XXX	[AE] Area elective course VI #6	3	1+1	7
6	XXX XXX	[AE] Area elective course XII #12	2	0+1	3

Subtotal: 30

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No	Course code	Title	Th	Pr	Ects
1	MŞN 431	Metrology, standardization and certification	2	0+1	4
2	XXX XXX	[NAE] Non-Area Elective Course I #1	1	1+0	3
3	XXX XXX	[AE] Area elective course X #10	3	2+1	8
4	XXX XXX	[AE] Area Elective Course IX #9	2	2+2	8
5	XXX XXX	[AE] Area elective course XI #11	3	1+1	7

Subtotal: 30

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No	Course code	Title	Th	Pr	Ects
1	MŞN 497	Thesis	0	0+0	9
2	MŞN 490	Internship	0	0+0	21

Subtotal: 30

Total ECTS credits: **240**

AE - Area Elective Courses

No	Course code	Title	Th	Pr	Ects
1	MŞN 304	Hydraulics and hydraulic machines	2	0+1	4
2	MŞN 306	Pneumatic circuits	2	0+1	4
3	MŞN 302	Flow mechanics	2	0+1	4
4	RİY 316	Fundamentals of mathematics	2	1+0	3
5	RİY 304	Numerical methods	2	1+0	3
6	RİNF 461	Probability theory and mathematical statistics	2	1+0	3
7	MŞN 340	Fundamentals of Casting Production	3	1+1	7
8	MŞN 338	Technological equipment	3	1+1	7
9	MŞN 336	Welding technology	3	1+1	7

10	MŞN 328	Metal cutting machines and tools	4	1+1	8	
11	MŞN 330	Technological machines	4	1+1	8	
12	MŞN 332	Designing metal cutting machines	4	1+1	8	
13	MŞN 322	Lifting machines	3	2+0	7	
14	MŞN 320	Lifting and transporting machines	3	2+0	7	
15	MŞN 324	Non-stop transport vehicles	3	2+0	7	
16	MŞN 401	Tribology	3	1+1	7	
17	MŞN 403	Tribotechnics	3	1+1	7	
18	MŞN 405	Diagnostic tools	3	1+1	7	
19	MŞN 409	Automation of Technological Processes in Machine Building	2	2+2	8	
20	MŞN 411	Computer-aided design and production	2	2+2	8	
21	MŞN 407	CAD / CAM systems in mechanical engineering	2	2+2	8	
22	MŞN 415	Turbochargers	3	2+1	8	
23	MŞN 413	Internal combustion engines	3	2+1	8	
24	MŞN 417	Thermodynamics	3	2+1	8	
25	MŞN 421	Mechanical vibrations	3	1+1	7	
26	MŞN 419	Machine dynamics	3	1+1	7	
27	MŞN 423	Quality control in production	3	1+1	7	
28	MŞN 344	Alternative energy systems	2	0+1	3	
29	MŞN 346	Green energy technologies	2	0+1	3	
30	MŞN 342	Renewable energy sources and devices	2	0+1	3	

<u>NAE - Non-Area Elective Courses</u>						
No	Course code	Title	Th	Pr	Ects	
1	SOS 150	Introduction to Multiculturalism	1	1+0	3	
2	FEL 120	Logic	1	1+0	3	
3	SOS 180	Ethics and aesthetics	1	1+0	3	
4	HUQ 110	Constitution of Republic of Azerbaijan and Fundamentals of Law	1	1+0	3	
5	FEL 159	Philosophy	1	1+0	3	
6	SOS 110	Sociology	1	1+0	3	
7	MEX 479	Research methods	1	1+0	3	
8	Bİ 108	Principles of Entrepreneurship and Introduction to Business	1	1+0	3	

9	KOMP 367	Information management	1	1+0	3	
10	IT 264	Information Technology (Mechanical Engineering)	1	1+0	3	
11	DBI 137	Politology	1	1+0	3	
12	ENG 131	Official and Academic Communication in English- 1	0	6+0	8	
13	RUS 151	Official and Academic Communication in Russian- 1	0	6+0	8	
14	RUS 152	Official and Academic Communication in Russian- 2	0	6+0	7	
15	ENG 132	Official and Academic Communication in English- 2	0	6+0	7	