

COURSE STRUCTURE

2025-10118 Industrial Engineering (EN) Bachelor

1						2					
No	Course code	Title	Th	Pr	Ects	No	Course code	Title	Th	Pr	Ects
1	IE 109	Industrial Safety	1	1+0	5	1	CHE 263	Chemistry	2	1+0	5
2	MATH 161	Linear algebra and analytic geometry	2	2+0	4	2	PHYS 146	Physics	2	1+0	6
3	IE 111	Introduction to the specialty	1	1+0	4	3	MATH 192	Mathematical analysis- 1	2	1+0	4
4	XXX XXX	[NAE] Official and Academic Communication in a Foreign language-1	0	6+0	5	4	AZD 140	Official and Academic Communication in the Azerbaijani language	0	2+0	4
5	XXX XXX	[NAE] Official and Academic Communication in a Foreign language-2	0	6+0	5	5	XXX XXX	[NAE] Humanitarian elective 1	2	0+0	3
6	XXX XXX	[AE] Specialty elective subject I	2	2+0	7	6	XXX XXX	[NAE] Humanitarian elective 2	1	1+0	3
						7	XXX XXX	[NAE] Official and Academic Communication in a Foreign language-3	0	6+0	5
Subtotal: 30						Subtotal: 30					

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№	Course code	Title	Th	Pr	Ects
1	ME 263	Technological bases of production processes	2	2+0	6
2	ME 259	Material science	2	2+0	6
3	MM 120	Civil Defence	3	0+0	3
4	TRX 111	History of Azerbaijan	2	2+0	5
5	MATH 196	Mathematical analysis- 2	2	2+0	4
6	ME 243	Technical mechanics	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	MATH 215	Applied mathematics	2	2+0	4
2	PAE 220	Automation technology	1	1+0	5
3	ECON 140	Economics	2	2+0	4
4	IT 244	Programming for engineers	2	2+0	5
5	XXX XXX	[AE] Specialty elective subject II	2	2+0	6
6	XXX XXX	[AE] Specialty elective subject III	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	IE 337	System analysis and simulation	2	2+0	5
2	IE 353	Operations Research	2	2+0	5
3	IE 347	Quality management and control	2	2+0	5
4	IE 351	Work study and evaluation	2	2+0	5
5	IE 349	Metrology, standardization and certification	1	1+0	5
6	XXX XXX	[AE] Specialty elective subject IV	2	2+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	ME 354	Engineering and computer graphics	2	2+0	7
2	IE 324	Production planning	2	2+0	5
3	IE 322	Facilities Planning	2	2+0	6
4	IE 320	Ergonomics and technical design	2	2+0	6
5	XXX XXX	[AE] Specialty elective subject V	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	XXX XXX	[AE] Specialty elective subject VI	2	2+0	6
2	XXX XXX	[AE] Specialty elective subject VIII	2	2+0	6
3	XXX XXX	[AE] Specialty elective subject VII	2	2+0	6
4	XXX XXX	[AE] Specialty elective subject X	2	2+0	6
5	XXX XXX	[AE] Specialty elective subject IV	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	IE 490	Internship	0	0+0	21
2	XXX XXX	[AE] Graduation Work	0	0+0	9

Subtotal: 30

Total ECTS credits: **240**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	MINF 407	Probability and Statistics	2	2+0	6
2	MATH 362	Approximate solution methods	2	2+0	6
3	IE 204	Engineering Statistics	2	2+0	6
4	BA 408	Business Administration	2	2+0	6
5	BA 411	Marketing	2	2+0	6
6	IE 449	Project management	2	2+0	6
7	ECO 232	Waste Management	2	2+0	6
8	IE 206	Business statistics	2	2+0	6
9	IE 459	Supply chain management	2	2+0	6
10	IE 463	Logistics	2	2+0	6

11	IE 465	Risk management	2	2+0	6	
12	IE 473	Business Process Management	2	2+0	6	
13	COMP 338	Intellectual analysis of data	2	2+0	6	
14	IE 455	Regression and forecasting	2	2+0	6	
15	ACC 304	Financial Statements Analysis	2	2+0	5	
16	ECO 228	The usage of alternative energy	2	2+0	6	
17	ECO 234	Industrial ecology	2	2+0	6	
18	IE 330	Optimization Techniques2	2	2+0	6	
19	IE 453	Inventory management	2	2+0	6	
20	IE 457	Basics of production engineering	2	2+0	6	
21	IE 469	Decision analysis	2	2+0	6	
22	IE 471	Engineering ethics	2	2+0	6	
23	ACC 313	Performance management	2	2+0	6	
24	BA 401	Human Resources Management	2	2+0	6	
25	IE 498	Graduation Work: Exam	0	0+0	9	
26	IE 499	Graduation Work: Thesis	0	0+0	9	
27	ACC 222	Financial Accounting	2	2+0	5	
28	ACC 301	Managerial Accounting	2	2+0	5	
29	COMP 189	Modern programming languages	1	1+0	7	
30	COMP 172	Modern programming languages	2	2+0	7	
31	IE 433	Industrial economics	2	2+0	6	
32	ME 125	Engineering graphics	2	2+0	7	
33	IT 280	Introduction to programming for engineers	2	2+0	7	
34	ECON 435	Industrial economics	2	2+0	6	

<u>NAE - Non-Area Elective Courses</u>						
No	Course code	Title	Th	Pr	Ects	
1	COMP 115	Information Technologies	1	1+0	3	
2	IE 144	Research methods and presentation	1	1+0	3	
3	IT 113	Information management	1	1+0	3	
4	BA 108	Principles of Entrepreneurship and Introduction to Business	1	1+0	3	

5	SOC 111	Sociology	2	0+0	3	
6	PHIL 140	Philosophy	2	0+0	3	
7	SOC 155	Introduction to Multiculturalism	2	0+0	3	
8	ENG 015	English for business and academic communication-1 (reading- writing)	0	6+0	5	
9	ENG 025	English for business and academic communication-2 (listening comprehension)	0	6+0	5	
10	ENG 040	English for business and academic communication-3 (for academic purposes)	0	6+0	5	