

COURSE STRUCTURE

2025-10140 Energy Engineering (AZ) Bachelor

1						2					
No	Course code	Title		Th	Pr	Ects	No	Course code	Title		Th Pr Ects
1	KM 116	Chemistry		2	0+2	6	1	RİY 152	Mathematical analysis- 1		2 2+0 4
2	RİY 163	Linear algebra and analytic geometry		2	2+0	5	2	MEX 124	Applied mechanics		2 2+0 6
3	FİZ 142	Physics- 1		2	1+1	6	3	FİZ 143	Physics- 2		2 1+1 6
4	TRX 111	History of Azerbaijan		2	2+0	5	4	AZD 140	Official and Academic Communication in the Azerbaijani language		0 2+0 4
5	XXX XXX	[NAE] Foreign language I		0	6+0	8	5	XXX XXX	[NAE] Non-Area Elective Course I #1		1 1+0 3
							6	XXX XXX	[NAE] Foreign language II		0 6+0 7
Subtotal: 30							Subtotal: 30				

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№	Course code	Title	Th	Pr	Ects
1	RİNF 229	Probability Theory and Mathematical Statistics	2	1+0	4
2	FİZ 148	Applied Physics	2	1+1	6
3	EM 207	Fundamentals of energy- 1	2	2+0	5
4	RİY 245	Mathematical analysis- 2	2	2+0	5
5	EEM 235	Theory of electrical circuits- 1	2	1+1	5
6	MEX 164	Engineering - computer graphics	2	2+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	RİY 202	Differential Equations	2	2+0	5
2	MEX 206	Technical thermodynamics and heat transfer	3	1+1	7
3	EEM 238	Theory of electrical circuits- 2	2	1+1	6
4	EM 208	Fundamentals of energy- 2	2	1+0	4
5	XXX XXX	[AE] Area Elective Course I #3	4	1+1	8

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	MM 120	Civil Defence	3	0+0	3
2	EM 329	Energy generation technologies	2	2+1	7
3	EEM 343	Electrical machines	3	2+1	8
4	EM 218	Energy materials	2	0+1	3
5	XXX XXX	[AE] Area Elective Course II #4	2	1+1	6
6	XXX XXX	[NAE] Non-Area Elective Course II #2	1	1+0	3

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	EM 336	Electricity production, transmission and distribution	2	2+1	7
2	EM 348	Protection of electrical systems and equipment	3	1+1	7
3	XXX XXX	[AE] Area Elective Course III #5	2	2+0	6
4	XXX XXX	[AE] Area Elective Course IV #6	2	2+0	5
5	XXX XXX	[AE] Area Elective Course V #7	2	1+1	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	XXX XXX	[AE] Area Elective Course X #11	2	2+1	7
2	XXX XXX	[AE] Area Elective Course VI #8	4	0+2	8
3	XXX XXX	[AE] Area Elective Course VII #9	3	2+1	8
4	XXX XXX	[AE] Area Elective Course VIII #10	3	2+0	7

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	EM 497	Graduation Work	0	0+0	9
2	EM 490	Internship	0	0+0	21

Subtotal: 30

Total ECTS credits: **240**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	EM 230	Steam and gas turbines	4	1+1	8
2	EM 206	Electrical equipment in energy	4	1+1	8
3	EM 331	Lighting techniques	2	1+1	6
4	EM 333	Steam generators	2	1+1	6
5	EM 350	Boiler plants	2	2+0	6
6	EM 346	Transition processes in electrical systems	2	2+0	6
7	EM 322	Electrical equipment systems	2	2+0	5
8	EM 320	Cogeneration systems and heating networks	2	2+0	5
9	EM 352	Thermal power plant auxiliary equipment	2	1+1	5

