

**Bachelor program,  
Instrumentation engineering (INEN) program, “Instrumentation engineering”  
department**

<b>Course Unit Title</b>	Bachelor's Thesis (Graduation work)	
<b>Course Unit Code</b>	BT	
<b>Type of Course Unit</b>	Compulsory	
<b>Level of Course Unit</b>	4 <sup>th</sup> year INEN program	
<b>National Credits</b>	0	
<b>Number of ECTS Credits Allocated</b>	9	
<b>Theoretical (hour/week)</b>	-	
<b>Practice (hour/week)</b>	8	
<b>Laboratory (hour/week)</b>	-	
<b>Year of Study</b>	4	
<b>Semester when the course unit is delivered</b>	8	
<b>Course Coordinator</b>	-	
<b>Name of Lecturer (s)</b>	-	
<b>Name of Assistant (s)</b>	-	
<b>Mode of Delivery</b>	Face to Face	
<b>Language of Instruction</b>	English	
<b>Prerequisites</b>	-	
<b>Recommended Optional Programme Components</b>	-	
<b>Course description:</b>		
The bachelor's thesis is independent work undertaken by the student under the guidance of academic staff as a finalization of a bachelor's degree, during the last semester.		
<b>Objectives of the Course:</b>		
The main objective of a bachelor's thesis is for the student to independently apply the theoretical and practical knowledge acquired during his/her studies at a higher education institution within the framework of a project or research project. The thesis provides the student with the opportunity to demonstrate his/her research skills, technical analysis skills and written presentation skills in the chosen field.		
<b>Practical Training Outcomes</b>		
At the end of the practical training the student will be able to		Assessment
1.	Apply technical knowledge in developing engineering products to simplify day to day conveniences	1
2.	Demonstrate capability of self-education and clearly understand the value of achieving perfection in project implementation & completion	1
3.	Demonstrate the importance of teamwork and a multi-disciplinary approach	1
4.	Demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context	1
5.	Develop technical documentation and user manual of engineering products	1
6.	Identify and analyze problems of the society and arrive at appropriate solutions	1
Assessment Methods: 1. Bachelor Thesis (Graduation work)		
<b>Course's Contribution to Program</b>		
		CL
1	Ability to develop as a specialist in the field of fundamental sciences and apply basic knowledge.	5
2	Ability to analyze and model functional and structural schemes of various purpose devices and systems.	5
3	Ability to use modern methods and tools, creation, selection, and application of engineering and information technology tools and modern devices and equipment.	5
4	The ability to use the strategy of team cooperation in the exchange of information, knowledge, and experience to achieve the set goal.	5
5	As a result of training, the ability to use engineering knowledge, mathematical models, and basic concepts of physics and chemistry in production and technological processes, automation, measurement, and control systems.	5
6	The ability to use modern software to process technical documents of devices, design their structures, and algorithmize processes.	5
7	The ability to apply artificial intelligence to improve the quality characteristics of	5

	measurement and control systems.	
8	The ability to process information acquisition, processing, and transmission processes based on schematic and programmable logical integrated circuits.	5
9	Ability to use knowledge to improve quality indicators and environmental safety of production processes.	5
10	Self-development ability to apply theoretical and experimental knowledge in solving modern engineering problems.	5

CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate, 4: High, 5: Very High)

### Course Contents

Week	Chapter	Topics	Exam
1	•	Selection and coordination of the topic of the graduation work, preparation of a preliminary plan with the supervisor	
2	•	Literature review, analytical analysis and preliminary studies	
3	•	Literature review, analytical analysis and preliminary studies	
4	•	Literature review, analytical analysis and preliminary studies	
5	•	Preparation of the technical or scientific part of the final graduation work (calculations, models, research)	
6	•	Preparation of the technical or scientific part of the final graduation work (calculations, models, research)	
7	•	Preparation of the technical or scientific part of the final graduation work (calculations, models, research)	
8	•	Obtaining practical results and their interpretation	
9	•	Obtaining practical results and their interpretation	
10	•	Writing and completing a graduation work	
11	•	Writing and completing a graduation work	
12	•	Writing and completing a graduation work	
13	•	Evaluation of the graduation work by the supervisor and making edits	
14	•	Preparing a presentation for the defense	
15			Defense of graduation work (at a university or at the enterprise)

### Recommended Sources

#### TEXTBOOK(S)

- The necessary literature and references to sources are provided to each student individually by the graduation work supervisor.

### Assessment

Attendance	0%	
Presentation	0%	
Lab	0%	
Quiz	0%	
Midterm Exam	0%	
Graduation work and presentation	50%	Written
Defense of graduation work	50%	Oral
Total	100%	

### Assessment Criteria

Final grades are determined according to the Academic Regulations of Azerbaijan State Oil and Industry University for undergraduate studies

### Graduation Work Policies

- Choose a topic in a timely manner and work according to the plan;
- Comply with the rules of plagiarism and scientific ethics;

- Follow the structure and format of the graduation work (including introduction, literature review, research and conclusion);
- Meet regularly with the supervisor;
- Submit a written report and presentation within the established deadlines.

**ECTS allocated based on Student Workload**

<b>Activities</b>	<b>Number</b>	<b>Duration (hour)</b>	<b>Total Workload (hour)</b>
Graduation work duration	14	8	112
Self-study	14	5	70
Tutorials	14	4	56
Preparation of graduation work and presentation	1	31.5	31.5
Defense of graduation work	1	0.5	0.5
<b>Total Workload</b>			<b>270</b>
<b>Total Workload/30(h)</b>			<b>9</b>
<b>ECTS Credit of the Course</b>			<b>9</b>