



UNIVERSITETI / UNIVERSITY
"ISA BOLETINI"
MITROVICË

Course Curriculum Model (Syllabus)			
Faculty:		FACULTY OF MECHANICAL AND COMPUTER ENGINEERING	
Department:		Economics Engineering	
Level:		Bachelor	
Code of the course:		211 EE	
Course:		Professional Prcatice	
Course Status:		Mandatory	Mandatory/Elective
Semester:		(IV)	Winter/Summer
Number of hours per week:		2+2	
ECTS:		5	
Time / location:			
Year of studies:		2024/2025	
Lecturer:		Msc. Blerina Voca	
Assistant:			
Contact details:		Professor	Assistant
Email:			
Telephone:			
C o u r s e d e s c r i p t i o n	This course is designed to equip students in the BSc Economics Engineering program with the essential skills and knowledge needed for successful professional engagement in the field. It integrates principles of engineering, economics, and business, emphasizing practical applications and ethical considerations. Students will explore topics such as effective communication, project management, economic analysis in engineering, and the integration of economic principles in the design and production of machinery.		
P u r p o s e (G o a l s)	The purpose of the course "Professional Practice” in Economic Engineering is to prepare students enrolled in the BSc Economics Engineering program for successful and ethical professional engagement in their future careers. The course aims to equip students with a comprehensive skill set, integrating principles of engineering, economics, and business. Gain practical insights into the operation of machinery production systems, including the use of software for Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM).		

Learning outcomes	Upon successful completion of the course students are expected to achieve the following learning outcomes:
	• Demonstrate proficient written and oral communication skills for professional contexts. • Collaborate effectively within teams, showcasing strong interpersonal skills. • Apply project management principles to plan, schedule, and allocate resources for engineering projects. • Effectively manage risks and solve problems encountered during project implementation. • Apply economic theories and principles to analyze engineering decisions. • Conduct cost-benefit analyses and economic evaluations to inform decision-making processes. • Demonstrate practical insights into the operation of machinery production systems. • Utilize software tools for Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM) in a production environment. • Apply economic principles to influence design decisions and project optimization. • Develop strategies for cost optimization and efficiency improvement in machinery design and production. Prepare detailed and structured economic reports on engineering projects.

Contribution in the load of student (which should correspond with results of gain of the student)			
Activity	Hours	Days/Weeks	Total
Lectures			
Exercises Theoretical /Laboratory			
Practical work (Lab work)			
Contacts with teacher/consultations			
Practice in field	8	20	80
Testing's, seminars			
Homework			
Time of self-study of student (in library or at home)			
Final preparation for exam			
Time spent in evaluation			
Projects, presentations, etc.			
Total			160
Methodology of teaching:	Work in the Industry Facilities		
Report between practical and theoretical part of study:	Theoretical part (%)	Practical part (%)	
	10%	90%	
Basic literature:	Based on the project, and the proposal of the mentor / supervisor.		
Module program:	It is formed for each student separately, in agreement with the management of the Faculty or Institution in which he/she realizes professional internships, in accordance with the needs of the profession for which the student is trained.		
Teaching methodology:	Criteria for verification of knowledge: At the end of the course, the student should defend the work (Note Diary) of professional practice, a criterion for verifying the knowledge gained during the realization of practical training, illustrating it with a concrete example.		

- Description of the stages of the technological process and the role of technology in improving production efficiency.
- Production Capacity and Type of Production:
- Description of production capacity and type of production machinery.
 - Analysis of the use of actual production capacity and its improvement through new technologies.
- Operation of Machine Made Systems:
- Explanation of the operation of machine production systems in the chosen company.
 - Identification of challenges and opportunities for improvement of existing systems.
- Software and Programming of CAD/CAM Systems:
- Description of the software used for the design and programming of the production machinery.
 - Demonstration of skills in programming CAD/CAM systems for the improvement of technological processes.
- Preparation of Technological Processes:
- Detailing the technological processes used in the production of the machine.
 - Identification of frequently occurring issues and their resolution.
- Economic Analysis of the Project:
- Calculation of production cost and identification of economic resources used in projects of manufactured cars.
 - Use of economic evaluation tools to assess the yield of investments in production.
 - Analysis of opportunities for increasing production capacity and identification of economic strategies to improve efficiency.
 - Using economic analysis to optimize the use of resources and reduce costs.
- Direct Practical Knowledge:
- Use of different equipment and technologies in this industry.
 - Communication and cooperation with the production team and other engineers in the company.
- Conditions:
- It is formed for each student separately, in agreement with the management of the faculty or institution in which professional practice is carried out and in accordance with the needs of the profession for which the student is qualified.

Assessment Active participation in the project and presentation. Detailed and structured experience and project report. Demonstration of acquired skills and assessment of students' contribution in the field of Economic Engineering.					
100%					

Literature	
L i t e r a t u r e	1. According to the proposal of the mentor/supervisor

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Mitrovica; 29/04/2023

Msc. Blerina Voca