

Course Outline Model (Syllabus)		
Faculty	Geoscience	
Department:	MATERIALS AND METALLURGY	
Level:	Bachelor	
The code of subject:	6	
Subject:	QUALITY ASSURANCE IN METALLURGY	
Subject status:	Elective	(Compulsory or elective)
Semester:	Winter	(Winter/ Summer)
Total hours:	2 + 2	(According to approved program)
ECTS:	4	(According to approved program)
Schedule/Hall	/	
Academic year:		
Professor:	Prof. Ass. Izet Ibrahim	
Assistant:		
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BRIEF CONTENT OF SUBJECT	Key concepts on quality, total quality management and quality control costs. Methods for preventive quality assurance. Error presentation possibilities and impact analysis. Quality assurance aids. Methods for statistical quality control. Methods for ascertaining errors	
AIMS	During the lectures and exercises we will provide information on preventive methods and those of total quality management, we will also provide information on the differentiation of products and services based on their quality. It will also provide tools and methods for quality assurance and control in terms of cost and effectiveness and train students for a professional quality control activity in the unit.	
EXPECTED LEARNING OUTCOMES	During this study module, students will achieve; 1. define the key concepts of quality; 2. describe the methods for preventive control and total quality management, 3. demonstrate methods for static quality control; 4. demonstrate the program for management and quality control in metallurgy; 5. categorize the basic and supporting tools for achieving quality, safety and health in the industry.	
	Weeks	Topic and Readings
	Week - I	The notion of quality and costs for quality control.
	Week - II	Quality control and management systems.

	Week - III	Setting the quality standard.
	Week - IV	General Quality Management.
	Week - V	Total quality tools.
	Week - VI	Methods for preventive quality assurance. Case study – topic definition
		Exam- I
	Week - VII	Quality management according to the ISO 9001 standard.
	Week - VIII	Standardization and Certification
	Week - IX	Error possibilities and impact analysis.
	Week - X	Cost an quality
	Week - XI	Quality assurance aids.
	Week - XII	Methods for statistical quality control.
	Week - XIII	Methods for ascertaining errors.
	Week - XIV	Health and Safety Management in the Metallurgical Industry.
	Week - XV	Health and Safety Management in the Metallurgical Industry.
		Exam -II
LITERATURE	Basic literature: 1. V. Nakuçi, Menaxhimi i Cilësisë, Tiranë, 2000 2. I. Ibrahim, Sigurimi i Cilësisë në Metalurgji, skriptë, UMIB, Mitrovicë, 2019, 3. J. R. Evans, W.M. Lindsay, The Management of Control of Quality, WEST 1999 Supplementary literature: 1. V.Dukovski, menaxhment na kvalitetot, Universitet Sv. Kiril i Metodij, Skopje 2003. 2. B.Popov, Z.Todorov, Obezbedjenje kvaliteta, Nauka, Beograd 1998. 3. R.Barisic, Savremene tehnicka kontrola, proizvodnje, tehnicka knjiga, Beograd; 4. ISO 8402, Quality management and quality assurance Vocabulary, 1994; 5. ISO 9001:2015;	
TEACHING METHODOLOGY	Lectures, discussions, case studies, presentations by students, practical work, assignments, preparation of reports from study visits, and group work of students.	

	Contribution to student workload (which should correspond to student learning outcomes 1 ECTS credit = 25 hours)			
	Acitivity	hour	Days/Weeks	Totally
	Lectures	2	15	30
	Exercise sessions – theoretical/laboratory	1	15	15
	Field exercises	4		4
	Practical work	4	2	8
	Consultations with the professor / assistant	4		4
	Colloquiums / seminars	2	2	4
	Independent tasks (work)	2	3	6
	Student self study time (in library or at home)	1	15	15
	Final exam preparation	7	1	7
	Time spent in assessment (tests, quizzes, final exams)	1	3	3
	Projects, presentations, etc.	1	1	1
EVALU ATION	Evaluation methods [according to the Statute and Regulation of UMIB Studies]			
	Test- I	25 %		
	Compilation of reports from the study visit	10 %		
	Assignments and courses during the semester	20 %		
	Interpretation and presentation of seminary work	20 %		
	Test- II	25 %		
	Final exam	40 % (students who have not succeeded in intermediate tests)		

ACADEMIC POLICIES	The criteria for regular attendance and the rules of etiquette are set during the organization of the lesson. <u>Students who have not participated in more than seven lectures, will not be able to be subject to any of the evaluation criteria.</u> Further instructions: • Computer work Written works must be computer written. In the works it is obligatory to respect the criteria for both the visual and the content aspect of the required works. During the works it is required to respect the spelling rules and APA style • Ethics in teaching The different semester papers should be papers of each student. There will be no tolerance for copying, "borrowing" from the Internet or any other material. The same or similar works will have negative evaluations in the final evaluation of the student. • Deadlines In agreement with the students, the deadlines for submitting works will be determined. There will be no tolerance for delays in the submission of works. Failure to arrive at the time when the assignment is explained does not justify the student for not submitting the paper. The deadline will be given earlier. If you are going to travel abroad, then you need to submit the paperwork in advance. The student has the right to request a consultation with the professor whenever he / she deems it reasonable and necessary for the performance of his / her work. • Rules of conduct and academic policies: - o active participation of students in lectures - o participation in discussion, comments and free expression of opinion, opinion and academic position (with arguments) - o Mandatory independent work and use of additional sources of information (various scientific websites, scientific journals, conference proceedings, etc.) - o Respecting lecture schedules without compromising academic freedom (silent cell phones) - o respecting the word, thoughts and ideas of colleagues - o low tolerance for late arrivals and departures without any valid reason - o preparation and equipping with relevant lectures (obligation of the teacher).
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