

SYLABUSI

The basic data of the subject			
Academic unit:	Faculty of Engineering and Informatics		
The title of the subject:	Unconventional processing methods		
Level:	Bachelor		
The status of the subject:	Elective		
Year of study:	III		
Number of hours per week:	4		
ECTS:	5		
Time / location:			
Professor:	Mr.sc.Binaze Jashari		
Contact:	binaze.jashari@ushaf.net		
Discription of the subject:	Mechanical processing methods. Mechanical-anodic machining. Thermoelectric processing methods. Electro-erosion processing. Laser processing. Electronic and ionic vortex processing. Plasma processing. Electrochemical processing methods. Chemical processing methods. Chemical-mechanical processing. Combined processing methods. Electroreduction chemical processing. Electroreduction -mechanical processing. Electrochemical corrosion polishing. Analysis of processing characteristics by unconventional methods.		
Objectiv of the subject:	Introducing students to the newest metalworking methods.		
Expected learning outcome:	Upon completion of this course the student will be able to: <ul style="list-style-type: none"> • Know how to process metals using unconventional methods, ultrasound, erosions, laser, electron beam, etc. • Be able to determine the most rational type of processing. • Determine the processing mode with these types of unconventional machines. 		
Contribution to the student's workload (which should correspond to the student's learning outcomes)			
Activity	Hours	Days/week	Total
Lectures	2	15	30
Theoretical/laboratory exercises	2	15	30
Practical work	1	15	15
Contacts with the professor/consultations	1	8	8
Other exercises	-	-	-
Test/ seminars	2	2	4
Homework	1	15	15
Student study time (in library or at home)	2	15	30
Final preparation for examination	1	15	15
Time spent on assessment (tests, quiz, final exam)	1	1	1

Projects, presentations	1	2	2
Total			150 orë
Teaching methodology:	Lecture, seminar, discussion, practical work		
Methods of assessment:	Activity and seminar work: 20pike Exam I: 40 Pike Exam II: 40 Pike Total: 100 points Evaluation of the final exam, estimated at 80% of success, with a further building of the grade final with the other high criteria highlighted.		
Literature:			
Basic literature:	Metodat jokonvencionale te perpunimit te metaleve, Dr.sc.Nexhat Qehaja, UP Prishtine		
Additional literature:	1.Rumjancev E.M., Davidov A.D.: Tehnologija elektrohemiceskoj obrabotki metalor, 2.Muren H.: Obrada odrezovanjem in odnosenjem, Fakultet za strojninstvo, Ljubljana, 1995.		
Described Learning Plan:			
Week	Lecture to be taught		
First week:	Introduction. Mechanical processing methods.		
Second week:	Mechanical-anodic machining.		
Third week:	Thermoelectric processing methods.		
Fourth week:	Students practice in Ferizaj metal construction factory.		
Fifth week:	Electro-erosion processing		
Sixth week:	Laser processing.		
Seventh week:	Electronic and ionic vortex processing.		
Eighth week:	Plasma processing		
Ninth week:	Electrochemical processing methods.		
Tenth week:	Students practice in Ferizaj metal construction factory		
Eleventh week:	Presentation of seminar papers by students.		
Twelfth week:	Students practice in Ferizaj metal construction factory		
Thirteenth Week:	Chemical processing methods. Chemical-mechanical processing.		
Fourteenth Week:	Combined processing methods. Electrochemical corrosion polishing.		
Fifteen week:	Evaluation and presentation of seminar papers		

Academic Policies and Rules of Conduct:
<i>Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.</i>