SYLLABUS

The basic data of the subject	
Faculty:	**Faculty of Engineering and Informatics**
The title of the subject:	**Unconventional processing methods**
Level:	**Bachelor**
The status of the subject:	**Mandatory**
Year of study:	**III**
Number of hours per week:	**3**
ECTS:	**5**
Time / location:	
Professor:	**Mr.sc.Binaze Jashari**
Contact:	binaze.jashari@ushaf.net
Description of the subject:	*With changes in the processing techniques and processes, this course will bring to students the unconventional and untraditional processing techniques and processes used in metal industry.*
Objective of the subject:	*The objective of this course is to introduce students to new modern methods of metalworking.*
Expected learning outcome:	*After successful completion of the course, students will be able to:* • *know how the processing of metals with unconventional methods, ultrasound, with erosion, laser, etc.* • *determine the most rational type of processing.* • *determine the procedure for processing these types of unconventional car.* • *Acknowledge the types and constructions applied to unconventional processing and make comparisons with classic cars.*

Contribution to the student's workload (which should correspond to the student's learning outcomes)			
Activity	***Hours***	***Days/week***	***Total***
Teaching	3	15	45
Practical work	1	15	15
Contacts with the professor/consultations	1	5	5
Other exercises	-	-	-
Test/ seminars	2	8	16
Homework			
Student study time (in library or at home)	2	15	30
Final preparation for examination	2	6	12
Time spent on assessment (tests, quiz, final exam)	1	1	1
Projects, presentations	1	2	2
Total			**126**

Teaching methodology:	*Lecture, seminar, discussion, practical work*
Methods of assessment:	*Seminar: 20 %* *Intermediate test: 30%* *Exam: 50%*
Literature:	
Basic literature:	1. *Metodat jokonvencionale te perpunimit te metaleve, Dr.sc.Nexhat Qehaja,UP Prishtine*
Additional literature:	2. *1.Rumjancev E.M.,Davidov A.D.:Tehnologija elektrohemiceskoj obrabotki metalor,* 3. *2.Muren H.:Obrada odrezovanjem in odnosenjem, Fakultet za strojnistvo, Ljubljana,.*

Described Learning Plan:	
Week	**Lectures 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:
Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.