SYLLABUS

1. Course title:

Clamping and Cutting tools

2. Code:

(max. 20 characters)

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

Materials I and II, Cutting Technology I and II, Machine Components I and II, Science of material strength

7. Class restrictions:

no restrictions

8. Duration / semester:

1 6

9. Weekly contact hours:

9.1. Lectures:	2
9.2. Seminars:	1
9.3. Laboratory/Practice classes:	0

10. Faculty:

Faculty of Mechanical Engineering

11. Department/study program:

Production Engineering, Manufacturing engineering

12. Lecturer:

dr.sc. Adnan Mustafić, docent

13. Lecturer's e-mail:

adnan.mustafic@untz.ba

14. Web site:

www.untz.mf.ba

15. Course aims:

Adopt basic knowledge about cutting and clamping tools: function, design and construction and their application.

16. Learning outcomes:

Based on the subject matter, the student will acquire basic professional-theoretical knowledge in calculation, construction and application of clamping and cutting tools and successfully solve practical tasks on practical jobs and further advancing in the profession and occupation.

17. Course content:

- Introductory considerations, constructions and calculations of clamping tools and accessories,
- Calculation of accuracy of clamping and auxiliary accessories,
- Construction of special clamping and auxiliary accessories,
- Construction of universal accessories,
- Aggregate auxiliary accessories,
- Auxiliary clamping tools for numerically controlled machine tools,
- Accessories for processing on aggregate machine tools,
- Standardization and typing of new tools and accessories,
- Types of cutting tools and their application,
- Construction characteristics of cutting tools,
- Tool monitoring and management.

18. Learning methods:

In order of successful learning within the subject the following activities are planned:
- Lectures - theoretical lectures, active two-way communication student - teacher, the obligatory presence of students; segment of active participation in the teaching of students will include and deal with a given topic by the student and public defense of the same.
- Exercises;
- Tests of the theory and problems - solving tests and problems;
- Seminar work - independent work of students in solving the above problem, consultations.

19. Assessment methods:

After half of the semester, students take the first colloquial exam that includes previously treated themes. Colloquial exam consists of a theoretical part and problem solvings. On the first colloquial exam students can achieve a maximum of 15 points.
After completing the semester students take second colloquial exam that includes previously treated themes which consists of a theoretical part and problems where they can achieve a maximum of 15 points. Colloquial exams are prepared by the teacher to the students in a given period of time were able to respond to questions posed from the problems of the attached material. Both tests taken by all students in the course at the same time thereby achieving uniformity of the level of knowledge that is being tested, as well as the conditions under which the student takes the exam.
As part of the pre-exam activities, students are required to make of the individual seminar that will cover specific topics from the contents of the subject. Students essay submitted in writing by the subject teacher to review and assessment, and then orally presented and answer the questions asked on exposed themes. Exercises are performed problems and calculation examples of areas that were carried out in class. As part of laboratory exercises in order to be program of construction of one of the clamping system or specially intended for cutting tools.

The final and makeup exam is oral type, and the maximum number of points that can be achieved on the final exam is 50, and the right for the final exam is defended seminar and earn 50% of points on partial knowledge tests.
Assessment of students recognized as a cumulative exam if the result reached after each individual test is 50% or more of total scheduled or required knowledge and skills.
In order for the student to pass the subject must achieve a minimum of 54 cumulative points of which a minimum of 24 points at the final oral exam.

20. Assessment components:

Exam grade is based on the total number of credits a student gained fulfilling exam prerequisites and passing exams and contains a maximum of 100 points, according to the following scale:

Students' obligations	Points
Presence in classes	5+5
Seminar + Activity	10
Colloquial test	30
Total prerequisites	50
Final exam from	24 to 50

21. Required reading list:

1. Tanović, Lj., Jovičić, M.,(2011): Alati i pribori, projektovanje i proračun konstrukcija, Mašinski fakultet u Beogradu
2. Prgomelja, N., Stančević, S.,(2002): Konstrukcija alata i pribora, Beograd
3. Šolaja, V., (1995): Pomoćni pribori, Beograd

22. Web sources:

www.avxhome.se/ebooks/engeneering_technology/1466584343.html, [11.6.2015]
www.avxhome.se/ebooks/engeneering_technology/184996052.html, [11.6.2015]

23. Applicable starting from the academic year:

2015/2016

24. Adopted in the Faculty/Academy session:

01.06.2015