SYLLABUS

1. Course title:

Technical standards and regulations

2. Code:

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

Attend lectures on technical standards and regulations.

7. Class restrictions:

(max. 150 characters)

8. Duration / semester:

1

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:

Power Mechanical Engineering, Production Engineering, Mechatronics

12. Lecturer:

Ph.D. Seniha Karić, assistant professor

13. Lecturer's e-mail:

seniha.karic@untz.ba

14. Web site:

www.mf.untz

15. Course aims:

The aim of the course is to give students knowledge in the field of technical standards and regulations, in order to independently be able to use literature or documents containing certain standards, classification standards and interpret them.

16. Learning outcomes:

Based on the knowledge acquired during the hearing of cases, students will be able to distinguish standards on various grounds. Know calculated after the mark standards relating to specific technical field. Analyze and interpret know and choose which of the standards and regulations apply.

17. Course content:

• Standards, basic concepts
• Standards, national and international standards,
• Modern standardization
• International Organization for Standardization (ISO, IEC, ITU)
• European Organization for Standardization (CEN, CENELEC, ETSI)
• National Organization for Standardization (BAS)
• International Classification Standard (ICS)
• Ways of making standards
• The levels of compliance, methods of taking and labeling Standards
• Standard numbers, standard width measures, standard diameter, curvature standards, standards for cones and slopes
• tolerances, terms and definitions, quality tolerance, determination of basic tolerance Position tolerance zone, marking tolerance
• type of bearing, bearing systems, Selection and bearing tolerances, the positioning field tolerancijaskih
• Measurement and verification of linear measure, complex tolerance
• Quality surface treatment
Symbols in the drawings in mechanical engineering

18. Learning methods:

Lectures presents the theoretical part of the material with appropriate practices, in order to facilitate the understanding and adoption of material with multimedia resources.
Laboratory exercises with tasks in this field.
Preparation and presentation (defense) of individual and group seminar.

19. Assessment methods:

After half of the semester, students in writing to take the test (the first mid-term), which includes previously treated topics with lectures and exercises. The test consists of 10 theoretical multiple choice questions. A student on the first prelim and homework assignments can achieve a maximum of 15 points (50% of which is made is transient). After the end of the semester students take the writing test in writing (second mid-term) covering the treated topics with lectures and exercises in the second part of the semester. The test consists of theoretical multiple-choice questions and one task. Student on the second prelim and homework assignments can achieve a maximum of 15 points (50% of which is made is transient). 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 students are required to make individual or group seminar that will cover one of the topics to be covered. Seminar papers are in written and electronic form submission pedmetnom teacher for review and then present and defend orally on the basis of which is evaluated. For done and defended seminars student can achieve 15 points. Also, the presence and continuous activity in lectures and exercises throughout the semester, the student can achieve from 0 to 5 points.
The final exam consists of two parts: written and oral. The right exit on the final exam is given to students who have completed the subject and defend the seminar. The written part of the exam consists of theoretical questions that cover the entire material and one task, where students can achieve 30 points of which at least 15 points.
At the oral examination the student answers questions from the program of the subject treated in class. Oral exam can be taken if a student answers to most questions. If the student does not pass the oral exam reversed him and points to the written part of the final exam. The maximum number of points a student can achieve at the oral exam is 20. In order for students to take the oral exam should have at least the previous 34 earned points. If the student does not have the minimum for taking the oral exam, achieved credits with written exam he cumulatively add up and added to the makeup exam, which is required to pass a written and oral exam to. The makeup exam is taken as final. To the student passed the exam must achieve a minimum of 54 points.

20. Assessment components:

Rating exam is based on the total number of points a student earned by completing pre-exam requirements and exams, according to the quality of the acquired knowledge and skills, and contains a maximum of 100 points, and is determined according to the following scale:
The obligation of student credits
The presence of lectures
and training 5
Seminar 15
Mini tests 2X15
Total prerequisites given 50
Final exam written (theory) 30
oral 20

21. Required reading list:

1. Tanović E. (2012) Standardizacija, Institut za standardizaciju BiH, Sarajevo
2. Muratović P.(1997), Elementi strojeva, Mašinski fakultet Tuzla
3. Popović P., Živković V. (2011) Osnovi standardizacije i metrologije, Beograd

22. Web sources:

23. Applicable starting from the academic year:

2015/16

24. Adopted in the Faculty/Academy session:

01.06.2015