SYLLABUS

1. Course title:

Tehnical diagnostics

2. Code:

Do not fill up

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

There is no

7. Class restrictions:

There is no

8. Duration / semester:

1 5

9. Weekly contact hours:

9.1. Lectures: 2

9.2. Seminars: 0

9.3. Laboratory/Practice classes: 1

10. Faculty:

Faculty of mechanical engineering

11. Department/study program:

Production Mechanical Engineering

12. Lecturer:

Dr. sc. Slađan Lovrić, assistant professor

13. Lecturer's e-mail:

sladjan.lovric@untz.ba

14. Web site:

www.mf.untz.ba

15. Course aims:

The main goal of the course "Technical Diagnostics" is an understanding of the concepts, tasks and role of technical diagnostics during the introduction of state-of-the-art maintenance, all to reduce the downtime (Frequency and duration) maintenance costs (total costs), and mastering the necessary theoretical and practical skills from the field of subject studies.

16. Learning outcomes:

At the end of the semester / course, successful students who continued to perform their duties throughout the academic year will be trained to apply methods and devices for technical diagnostics.

17. Course content:

The notion and significance of technical diagnostics, Tasks of technical diagnostics, Scientific basis of technical diagnostics, Anticipation of the parts of the technical system, Automation and organization of performing technical diagnosis, Subjective procedures of tehnical diagnostics, Objective procedures of tehnical diagnostics, Monitoring, systems of diagnostics, Expert systems for technical diagnosis, Diagnostics of new technological systems.

18. Learning methods:

Lectures - theoretical lectures, active two-way communication student professor, mandatory attendance of students;
Laboratory exercises;
Tests from theory - solving tests;
Seminar / Graphic Works - independent student work on solving the problem;
Consultations - Clarify any ambiguities related to the topic of the subject being studied.

19. Assessment methods:

Defense of seminar / graphic works, tests (from the theoretical part), report from laboratory exercises, final exam (oral), correction exam (written and oral).
• Defense of seminar / graphic works - student defends his work in front of the professor / assistant - answers questions asked;
• Tests (from the theoretical part) - the student solves questions in a given time period related to the subject of study;
Final Exam - oral answer to the questions asked by professors;
• Corrective Exam (written) - solving the questions asked in the given time period related to the subject of study;
• Report on laboratory exercises - submission of reports on activities related to the realization of certain laboratory exercises, answering questions asked by the assistant;
• Corrective Exam (Oral) - Oral Answer to Questions Asked.

20. Assessment components:

To get the student to get a signature in the index must be present at more than 70% of lectures and exercises.

Examination of 10 points, Theory tests (2 tests per 12,5 points) 25, Seminar work 15 points, Examination on laboratory exercises 10 points, Laboratory exercise report 5, Final exam (oral) 35,

00 to 54 points 5 (Five) ,
55 to 63 points 6 (six),
64 to 72 points 7 (seven),
73 to 81 points (Eight),
82-90 = 9, (Nine)
90-100 = 10 (Ten)

21. Required reading list:

1. Adamović Ž .: Technical Diagnostics, Department of Textbooks and Teaching Resources, Belgrade, 1997.
2. Majdančić N .: Maintenance Strategies and Maintenance Information Systems, Faculty of Mechanical Engineering in Slavonski Brod

22. Web sources:

www.mf.untz.ba

23. Applicable starting from the academic year:

2015/16

24. Adopted in the Faculty/Academy session:

01.06.2015