

SYLLABUS

1. Course title:

STEAM BOILERS II

2. Code:

(max. 20 characters)

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course: Mandatory Elective**6. Prerequisites:**

None

7. Class restrictions:

None

8. Duration / semester:

1

8

9. Weekly contact hours:

9.1. Lectures:

3

9.2. Seminars:

1

9.3. Laboratory/Practice classes:

1

10. Faculty:

Faculty of Mechanical Engineering

11. Department/study program:

Energy Engineering

12. Lecturer:

Sead Delalić, Full Professor

13. Lecturer's e-mail:

sead.delalic@untz.ba

14. Web site:

www.mf.untz.ba

15. Course aims:

Acquisition of theoretical knowledge and practical skills in the field of Steam boilers.

16. Learning outcomes:

At the end of the semester / course successful students, who during the entire period of teaching continuously perform their duties, will be able to:

- have basic knowledge in the field of steam boilers,
- analyze and question the given systems,
- estimate the state of the given systems, etc.

17. Course content:

Within the course, the following thematic units will be studied:

- Preparation of coal dust, mills, burners, aerosmith canals
- Grade fuel burner characteristics
- Dynamics of the steam boiler process (flue gases), chimneys,
- Dynamics of the steam boiler process in the flow of water and steam
- Direct and indirect method of determining the rate of steam boiler utilization,
- The heat exchanger elements of the steam boilers on the side of the receiver of heat, thermal expansion
- Chemical preparation of water
- Starting and stopping steam boilers

18. Learning methods:

Teaching units of this course will be presented to students through:

- classical lectures with video presentations, and
- presentation of group and individual seminar works.

19. Assessment methods:

Assessment methods include:

- Theoretical and problem solving tests;
- Written/oral Report on performed seminar work.
- Written/oral exam.

20. Assessment components:

- Presence in classes (lectures 2.5 + practice 2.5) -5 points,
- Tests with issues of theory and assignments (2 x 15 points) - 30 points
- Seminar work (1 x 15 points) -15 points,
- Final exam- 26-50 points

21. Required reading list:

Gulič M., Brkić LJ., Perunović P. : Parni kotlovi, Beograd, 1988.
Brkić Lj., Živanović T.: Termički proračun parnih kotlova, Beograd, 1988.
Stošić N.: Parni kotlovi, Sarajevo, 1987

22. Web sources:

(max. 687 characters)

23. Applicable starting from the academic year:

2015/16

24. Adopted in the Faculty/Academy session:

01.06.2015