SYLLABUS

1. Course title:

PUMPS, COMPRESSORS AND FANS

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 6

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:

dr.sc.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 pumps, compressors and fans.

16. Learning outcomes:

At the end of the semester / course successful students, who during the entire period of teaching continuously perform their duties, will have basic knowledge in the field of pumps, compressors and fans, and will be able to analyze, examine, sketch and evaluate the state of the given systems.

17. Course content:

- Basic characteristics of the machines for transport of liquids and gases,
- Centrifugal pumps and fans,
- Axial pumps and fans,
- Centrifugal pumps and fans regulation,
- Cavitation,
- Single and multistage pumps,
- Other types of pumps,
- The basic characteristic of fans,
- The basis of compression processes,
- Volumetric compressors.

18. Learning methods:

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

- classical lectures with video presentations,
- presentation of individual and group semester 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 - 5 points,
• Presence in exercises - 3 points,
• Semester work - 7,5-15 points,
• Tests with issues of theory and assignments - 15-30 points,
• Final exam- 24-47 points.

21. Required reading list:

1. Delalić S., Buljubašić I.: Pumpe, ventilatori i kompresori, Tuzla, 2007.
2. Krsmanović Lj., Gajić A.: Turbomašine-ventilatori, Mašinski fakultet Beograd, 2000.
3. Delalić S., Alić I.: Zbirka riješenih zadataka iz pumpi, kompresora i ventilatora, 1997,UNTZ

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