SYLLABUS

1. Course title:

Directional drilling

2. Code:

DD

3. Cycle of study:

2

4. ECTS credits:

8

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester:

1 1

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	1
9.3. Laboratory/Practice classes:	0

10. Faculty:

FMGCE Tuzla

11. Department/study program:

Well Production of Mineral Resources (WPMR) / Well Engineering (WE)

12. Lecturer:

Amir Susic, ScD, Associate Professor

13. Lecturer's e-mail:

sanel.nuhanovic@untz.ba

14. Web site:

www.rggf.untz.ba

15. Course aims:

- familiar students with fundamentals of directional drilling techniques and technologies
- students will be able to understand, analyze and use a knowledge for practical problems solutions
- increase of verbal and written students communications skills
- provide a continuous work of students during the course time
- achieve a mutual communications between students and professors

16. Learning outcomes:

The students will be trained for:
- successful examination
- understanding of contents of this course for practical situations and problems solutions
- professional literature using for practical problems solutions
- individual and/or team problems solving

17. Course content:

- Introduction to directional drilling
- Importance of directional drilling and reasons for drilling deviated wells
- Reference directions
- Directional well planning
- Types of well profiles
- Trajectory calculations
- Mud motors and deflection tools
- Orientation of deflection tools
- Bottom hole assemblies (BHA)
- Well logging
- Dogleg severities and anti-collision planning
- Horizontal drilling

18. Learning methods:

- Lectures (L)
- Seminars (S)

19. Assessment methods:

L & S:
Professors and assistants make notes of students presence to L and S during the semester. Student can have max 3 unjustified absences from L and S. In the case of student justified absences, professor can enable compensation activity for those students.
Presence of L and S, continual activity and participation in the discussions will be stimulated in the final evaluation of students with max 20 points (20 % of total points number).

The final exam:
At the end of semester, students will have the final exam. Successful final exam can be made in total 80 points. Minimum required number of points for successful exams are 54 points (include points for presence L, continual activity and participation in the discussions).

20. Assessment components:

- Presence of L, S ..... max 20 points / min 14 points for satisfying
- The final exam ..... max 80 points / min 40 points for satisfying

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T O T A L ..... max 100 points / min 54 points for satisfying

Exam evaluation:

Total points < 54 ..... 5 (F)
- II - 54 - 63 ..... 6 (E)
- II - 64 - 73 ..... 7 (D)
- II - 74 - 83 ..... 8 (C)
- II - 84 - 93 ..... 9 (B)
- II - > 93 ..... 10 (A)

21. Required reading list:

- French Oil and Gas Industry Association Technical Committee: ''Directional drilling and deviation control technology'', Gulf Publishing Company, 1990. ISBN-13: 9780872012035
- J.A. Short: ''Introduction to directional and horizontal drilling'', Pennwell books, 1993. ISBN-13:9780878143955
- Any other available literature

22. Web sources:

- Any literature available on the web browser whose theme is directional drilling.

23. Applicable starting from the academic year:

2020/2021.

24. Adopted in the Faculty/Academy session:

2020.