



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

| Course ID: NTH471 | | rse name: TECHNOLOGICAL CALCULATION IN TRONMENTAL PROTECTION | | | |
|------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Cycle: (I) FIRST | Year (FOU | :: IV JRTH) | Semester: VII | ECTS credits: 3 | |
| Course status: MANDATO | | ORY | Total course hours: Lectures: 30 Laboratory: 15 | 45 | |
| Teaching participants: | | Teachers and associates with expertise in the field to which the subject belongs. | | | |
| Prerequisite for enrollment: | | - | | | |
| Course aims: | | Acquiring basic knowledge and analytical laboratory skills for analysis of environmental elements. | | | |
| Thematic course units: | | analysis of environmental elements. 1. The basics of chemical engineering 2. Chemical engineering - Principles 3. The quality and treatment of air 4. Solid waste 5. Water quality and treatment 6. pollution prevention 7. Process modeling 8. Health carelessness and accident management | | | |
| Learning outcome | s: | - Describe th - evaluate th | e student will be able to: escribe the principles of hemic engineering valuate the quality of air and water valuate the degree of pollution and take prevention | | |

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| | - Apply environmental data in terms of better prevention | | | | |
| Teaching methodology: | Method of verball exposure Discussion method Research Method Method of exercises - computational | | | | |
| | Grading criteria | | | | |
| | Criteria | Maximal score | Required score | | |
| | 1. Class attendance | 5 | 3 | | |
| | 2. Class activities | 15 | 8 | | |
| | 3. Midterms | 40 | 22 | | |
| | 4. Final exam | 40 | 22 | | |
| | Total | 100 | 55 | | |
| Assessment methods | Scor | | | | |
| and grading system: | Score | Grade (B&H) | Grade (ECTS) | | |
| | < 55 | 5 | F, FX | | |
| | 55-64 | 6 | Е | | |
| | 65-74 | 7 | D | | |
| | 75-84 | 8 | С | | |
| | 85-94 | 9 | В | | |
| | 95–100 | 10 | A | | |
| | 1. M. Baerns, A. Behr, A. Brehm, J. Gmehling, H. Hofmann | | | | |
| | Onken, A. Renken: Technische Chemie, Wiley-VCH, | | | | |
| | Weinheim,2006 | | | | |
| | 2. Lin S., Water and wastewater calculations manual, in | | | | |
| | Handbook of Environmental Engineering Calculations, C.C. | | | | |
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| Literature: | Lee (ed.), McGraw-Hill, New York, 1999. | | | | |
| Electrical ci | 3. P. J. Reynolds, J. S. Jeris, L. Theodore: Handbook of | | | | |
| | Chemical and Environmental Enginering Calculations, Wiley | | | | |
| | Interscience, New York, 2002. | | | | |
| | 4. F.R. Spellman, N. E. Whiting: Environmental Enginer's | | | | |
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| | Mathematics Handbook, CRC Pres, Boca Raton, New York, | | | | |
| | Washington, 2005. | | | | |
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