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| Course ID: HTH367 | Course name: CHEMICAL TECHNOLOGY | | |
| Cycle: (I) FIRST | Year: IV (FOURTH) | Semester: VIII | ECTS credits: 3 |
| Course status: MANDATORY | | Total course hours: 45 Lectures: 30 Laboratory: 15 | |
| Teaching participants: | Teachers and associates with expertise in the field to which the subject belongs. | | |
| Prerequisite for enrollment: | - | | |
| Course aims: | The study of the basic legality of hemic technology, the chemical technological processes with the consideration of concrete chemical production that have the most important economic significance. | | |
| Thematic course units: | <ol style="list-style-type: none">1. Hemical Process Industry2. The basics of technological operations3. Hemical water processing4. metallurgy5. oil6. Colors and varnishes7. Sugar production8. Manufacture of fats, oils and means of washing9. The production of cellulose and paper | | |

| | <p>10. skin processing technology</p> <p>11. New trends in the development of chemical technology</p> <p>12. The basic techniques of protecting the environment</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|--|--|----------|---------------|----------------|---------------------|---|---|---------------------|----|---|-------------|----|----|---------------|----|----|-------|-----|----|--------------------|--|--|-------|-------------|--------------|------|---|-------|-------|---|---|-------|---|---|-------|---|---|-------|---|---|--------|----|---|
| <p>Learning outcomes:</p> | <p>The student will be able to:</p> <ul style="list-style-type: none"> - mastering the knowledge of the basic legality of the hemic technology - Apply knowledge from basic technological processes, concrete chemical production that have the most important economic significance. - Apply knowledge from concrete chemical production into the development of basic techniques of protecting the environment. - Apply acquired knowledge for the development of new trends of chemical technology. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Teaching methodology:</p> | <p>1) Method of verball exposure 2) Discussion method 3) Method of visiting the economy and practical acquaintance of chemical-technological procedures</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Assessment methods and grading system:</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="background-color: #e0e0e0;">Grading criteria</th> </tr> <tr> <th style="width: 60%;">Criteria</th> <th style="width: 20%;">Maximal score</th> <th style="width: 20%;">Required score</th> </tr> </thead> <tbody> <tr> <td>1. Class attendance</td> <td>5</td> <td>3</td> </tr> <tr> <td>2. Class activities</td> <td>15</td> <td>8</td> </tr> <tr> <td>3. Midterms</td> <td>40</td> <td>22</td> </tr> <tr> <td>4. Final exam</td> <td>40</td> <td>22</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">100</td> <td style="text-align: center;">55</td> </tr> <tr> <th colspan="3" style="background-color: #e0e0e0;">Scores and grading</th> </tr> <tr> <th>Score</th> <th>Grade (B&H)</th> <th>Grade (ECTS)</th> </tr> <tr> <td style="text-align: center;">< 55</td> <td style="text-align: center;">5</td> <td style="text-align: center;">F, FX</td> </tr> <tr> <td style="text-align: center;">55-64</td> <td style="text-align: center;">6</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">65-74</td> <td style="text-align: center;">7</td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">75-84</td> <td style="text-align: center;">8</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">85-94</td> <td style="text-align: center;">9</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">95-100</td> <td style="text-align: center;">10</td> <td style="text-align: center;">A</td> </tr> </tbody> </table> | 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 | Scores and grading | | | Score | Grade (B&H) | Grade (ECTS) | < 55 | 5 | F, FX | 55-64 | 6 | E | 65-74 | 7 | D | 75-84 | 8 | C | 85-94 | 9 | B | 95-100 | 10 | A |
| Grading criteria | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. Class attendance | 5 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Class activities | 15 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Midterms | 40 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Final exam | 40 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 100 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scores and grading | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 65-74 | 7 | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75-84 | 8 | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Literature:</p> | <p>1. J.Sadadinović, Organska tehnologija, Tehnološki fakultet, Univerzitet u Tuzli,2008. Dopunska:</p> <p>2. Lj. Kostić-Gvozdinović,R.Ninković, Neorganska hemijska tehnologija, TMF, Beograd 1997.</p> <p>3. Jaganjac,A., I.Tahirović, Osnove hemijske tehnologije za studente hemije, Univerzitet u Sarajevu PMF, Sarajevo</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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4. S. Tedeši, Zaštita voda, Hrvatsko društvo građevinskih inženjera, Zagreb, 2007.

M. Bogner, M. Stanojević, O vodama, ETA, Beograd, 2006.3. P.

J. Reynolds, J. S. Jeris, L. Theodore: Handbook of Chemical and Environmental Engineering Calculations, Wiley Interscience, New York, 2002.

4. F.R. Spellman, N. E. Whiting: Environmental Engineer's Mathematics Handbook, CRC Pres, Boca Raton, New York, Washington, 2005.