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| **Study program:** Chemistry | | |
| **Course title:** Selected Chapters of Physical Chemistry (H330C) | | |
| **Name of lecturer/lecturers** Snežana B. Tošić | | |
| **Type of course:** Elective | | |
| **Number of ECTS allocated** 10 | | |
| **Course objectives**  Upgrade of acquired knowledge in physical chemistry acquired through previous levels of study with the aim of training students for a more complete understanding and solving specific problems. | | |
| **Course outcomes**  The student can:  - based on acquired knowledge in physical chemistry, follow and interpret the systems and problems in all fields of chemistry, especially from the perspective of thermodynamic balance, that is, the possibility of a process playing out,  - solve concrete problems in research work,  - solve specific problems in various industrial processes. | | |
| **SYLLABUS**  *Lectures*  Selected chapters from the following areas of physical chemistry: aggregate state of matter, chemical thermodynamics, chemical equilibrium, phase equilibrium, solutions and mixtures, surface phenomena, colloids, chemical kinetics, and electrochemistry. | | |
| **References**  1. Gordon M. Barrow, Physical Chemistry, The McGraw-Hill Companies, Inc., USA, 1996.  2. Engel Thomas, Physical Chemistry, Prentice Hall, Boston, 2010.  3. Peter Atkins, Julio de Paula, Physical Chemistry, Oxford University Press, New York, 2010. | | |
| **Active teaching classes** | **Lectures** 105 | **Laboratory work** |
| **Teaching mode:**  Interactive lectures, homework, seminar work, panel discussions | | |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** | | |
| **Seminar- 40 points; oral examination - 60 points** | | |