|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study program:** Master studies Chemistry-module Chemistry teacher | | | | |
| **Course title: Nobel Prizes in Chemistry (H232C)** | | | | |
| **Name of lecturer/lecturers: Danijela A. Kostić** | | | | |
| **Type of course: elective** | | | | |
| **Number of ECTS allocated: 4** | | | | |
| **Course objectives**  **Getting to know the history of the development of chemistry in the 20th century and, within that, the most significant achievements in the field of chemistry. The importance of the Nobel Foundation and its influence on the development of chemistry and other fields.** | | | | |
| **Course outcomes**  **The possibility of observing and predicting the further development of chemistry, increasing the interest of students in doing scientific research** | | | | |
| **SYLLABUS**  *Lectures*  lfred Nobel and his foundation  Nobel Prizes in Chemistry - General Notes  Nobel prizes in the field of inorganic and physical chemistry  Nobel prizes in the field of nuclear chemistry  Nobel prizes in the field of organic chemistry and organic syntheses  Nobel Prizes in the field of natural product chemistry and biochemistry  Nobel prizes for the discovery of vitamins  Contributions of Nobel laureates to the development of industry  The most famous family of Nobelists - Curie  Women winners of the Nobel Prize in Chemistry  Nobel Prize winners from the territory of the former SFRY  The project that brought together the largest number of Nobel laureates  Great scientists who did not win the Nobel Prize  Has the Nobel Prize justified its existence?  *Practical teaching*  The theoretical lectures are followed by an analysis of the experiments that led to the discoveries that were awarded the Nobel Prize; review of wider literature in order to prepare seminar papers and their presentation | | | | |
| **References**  1.Danijela Kostić, Nobelove nagrade u hemiji, PMF, Niš, 2010,  2.www.nobelprice.org  3.Drago Grdenić, Povijest kemije, Školska knjiga , Zagreb, 2001  4. Dejan Kepić, Istorija hemije  5.V.Volkov, E.B.Voninskii, G.I.Kuznjecova, Vidajušiie himiki mira,Moskva,1991 | | | | |
| **Active teaching classes** | **Lectures 30** | | **Laboratory work 15** | |
| **Teaching mode** | | | | |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** | | | | |
| **Pre exam duties** | **Points** | **Final exam** | | **Points** |
| Activity during lectures | 10 | Written examination | | 40 |
| Seminars | 20 | Oral examination | |  |
| Teaching colloquia | 30 |  | |  |
| Seminar |  |  | |  |