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| **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 foundationNobel Prizes in Chemistry - General NotesNobel prizes in the field of inorganic and physical chemistryNobel prizes in the field of nuclear chemistryNobel prizes in the field of organic chemistry and organic synthesesNobel Prizes in the field of natural product chemistry and biochemistry Nobel prizes for the discovery of vitaminsContributions of Nobel laureates to the development of industryThe most famous family of Nobelists - CurieWomen winners of the Nobel Prize in ChemistryNobel Prize winners from the territory of the former SFRYThe project that brought together the largest number of Nobel laureatesGreat scientists who did not win the Nobel PrizeHas 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.org3.Drago Grdenić, Povijest kemije, Školska knjiga , Zagreb, 20014. Dejan Kepić, Istorija hemije5.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 |  |  |  |