

Learning outcomes for Chemistry Doctoral Studies

| No. | After Chemistry Doctoral Studies, a graduate achieves the following learning outcomes |
|---------------------------|---|
| Knowledge | |
| EK_W01 | Possesses the extended knowledge of the basic fields of chemistry |
| EK_W02 | Has knowledge of the latest developments in the field of the chosen specialty of chemistry |
| EK_W03 | Knows modern research techniques used in chemistry |
| EK_W04 | Knows modern methods of presentation of his/her research results |
| EK_W05 | Knows and uses modern teaching methods and techniques of checking knowledge |
| EK_W06 | Knows and applies the principles of health and safety in chemical laboratories |
| EK_W07 | Knowledgeable about the protection of intellectual property, raising funds for research and creating research projects |
| EK_W08 | Knows two modern foreign languages (including English) |
| Skills | |
| EK_U01 | Critically analyzes the current state of chemical knowledge |
| EK_U02 | Can search scientific literature, use databases, select information |
| EK_U03 | Can formulate and solve scientific problems of chemistry independently, using appropriate research techniques |
| EK_U04 | Describes his/her own results in publications, presents them at conferences, seminars |
| EK_U05 | Demonstrates permanent ability to self-study |
| EK_U06 | Develops scientific topics in which he specializes |
| EK_U07 | Demonstrates initiative and the ability to adapt the research topics to the needs of economy |
| Social competences | |
| EK_K01 | Shows an active, responsible attitude and scientific initiative, understands the problems of the university environment |
| EK_K02 | Is aware of the function of science in economy and the life of man, understands the relationship between science and industry |
| EK_K03 | Strives for the introduction of innovative scientific solutions |
| EK_K04 | Able to organize teamwork, also in interdisciplinary groups |
| EK_K05 | Honestly assesses the effects of his/her own work, his/her colleagues' and students' |
| EK_K06 | Takes care of propagating knowledge of chemistry outside the university environment, inspires others to acquire knowledge |
| EK_K07 | Obeys ethical standards, respects the work of others, takes care of university property |