RĪGAS TEHNISKĀ UNIVERSITĀTE

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Study programme "Chemistry"

Main attributes

Title	Chemistry
Identification code	KDK0
Education classification code	51441
Level and type	Doctoral (Third Cycle) Studies
Higher education study field	Chemistry, Chemical Technologies and Bio-Technology
Head of the study field	Māris Turks
Department responsible	Faculty Of Natural Sciences And Tehnology
Head of the study programme	Māris Turks
Professional classification code	
The type of study programme	Full time
Language	Latvian, English
Accreditation	06.07.2016 - 31.12.2023; Accreditation certificate No 2023/17-A
Volume (credit points)	192.0
Duration of studies (years)	Full time studies - 4,0
Degree or/and qualification to be obtained	Doctor of Science (Ph.D.) in Natural Sciences / –
Qualification level to be obtained	The 8th level of European Qualifications Framework (EQF) and Latvian Qualifications Framework (LQF)
Programme prerequisites	Master of Engineering Sciences in Chemistry, Master of Chemistry

Description

Abstract	The study program is accreditated for the period 14.11.2007.-31.12.2013.
Aim	To offer the knowledge adequate the highest qualification in chemistry. After the graduating the doctoral studies students get the Dr. Chem. degree.
Tasks	To prepare the sudent for independent work planning and organizing to be sure it is possible to do the scientific research process and also academical work in future.
Learning outcomes	As a result of the studies at this academical level students get the knowledge and skills necessary for doing research process independently and to be able to analyse the obtained experimental results, and also to plan and organize the scientific work.
Final/state examination procedure, assessment	The assessment system of study results is based on RTU regulations on the assessment of studies learning outcomes (protocol no. 539) approved on the March 29, 2010. The assessment methods for each subject are defined by the responsible academic staff according to the goals, tasks and applied teaching methods of corresponding course. The assessment methods are explained to students at the beginning of the semester. The main assessment methods used by teachers are following: 1) written or oral examinations during the session; 2) written or oral individual work whose results can include presentation; 3) project that can be evaluated according to the student's contribution to group work; 4) regular tests during semester; 5) combination of the previously mentioned methods. Assessment of each subject is determined in 10 grade scale or in case of the test with the pass/fail. The public defence of the one´s Doctoral Thesis is also evaluated in 10 grade scale.
Description of the future employment	After the doctoral studies the young specialists can do the scientific research and to lead the research group, and also to have a pedagogical career.
Special enrollment requirements	Masters degree in chemistry.
Opportunity to continue studies	Different kind of courses to have a professional growth and a life long education by choice.

Courses

No	Code	Name	Credit points
A		**Compulsory Study Courses**	**15.0**
1	KOK625	Advanced Organic Chemistry	5.0
2	KVK676	Advanced Physical Chemistry	5.0
3	KNF610	Advanced Analytical Chemistry	5.0
B		**Compulsory Elective Study Courses**	**21.0**
B1		**Field-Specific Study Courses**	**21.0**
1	KOK624	Contemporary sythesis methods	8.0
2	KOK637	Stereoselective Sythesis	8.0
3	KOS601	Medicinal Chemistry (selected chapters)	7.0
4	KOS602	Heterocyclic Chemistry (selected chapters)	7.0
5	KOK621	Physical Methods of the Investigation of Organic Compounds	8.0
6	KVK611	Fuel Chemistry	15.0
7	KOS610	Lipid Chemistry	15.0
8	KNF601	Theoretical Analytical Chemistry	8.0
9	KNF602	Selected Section of Instrumental Analytical Chemistry	7.0
10	KNF603	Metrology in the Analytical Chemistry	8.0
11	KNF604	Analytical Chemistry of Objects	8.0
12	KNF606	Provision of Quality in the Analytical Chemistry	7.0
13	KNF605	Organics Complexing Reagents	7.0
14	KNF673	Kinetics of Chemical Processes	10.0
15	KNF672	Colloidal Chemistry	5.0
16	KNF684	Kinetics and Catalysis	10.0
17	KNF686	Physical Chemistry II	15.0
18	KNF675	Kinetics of Electrode Processes	5.0
19	KVK614	Specialized Research Seminars	6.0
20	KOS614	Specialized Research Seminars	6.0
C		**Free Elective Study Courses**	**6.0**
E		**Final Examination**	**150.0**
1	KOS009	Research Work	150.0
2	KVK009	Research Work	150.0