

**Faculty of Chemistry**

offers several courses within ERASMUS + mobility program for English speaking students

**2022/2023 fall semester**

The organization of the courses depends on the number of English speaking participants.

A plus “**+**” indicates that lectures/ laboratory works and seminars may be held in English.

An asterisk “**\***” indicates that lectures are held in Latvian, but all lecture materials are available in English and individual consultations are provided by the lecturer, which works with exchange students in English.

In all courses, intermediate tests and the final examinations are in English.

**Bachelor program in Chemistry**

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| **Course** | **ECTS credits** | **Total contact hours** | **Course code** | **Course part held in English** |
| **Lectures** | **Lab works** | **Seminars** |
| **Organic Chemistry II** | 9 | Lec 48Lab 64Sem 16 | Ķīmi3007 | + | + | + |
| **Heterocyclic Compounds** | 7.5 | Lec, Sem 32Lab 72 | Ķīmi4039 | + | + | + |
| **Spectroscopy of Organic Compounds** | 4.5 | Lec 15Sem 33 | Ķīmi1000 | + | + | + |
| **Kinetics and Catalyses** | 7.5 | Lec 32Lab 64Sem 16 | Ķīmi3017 | + | + | + |
| **Inorganic Chemistry II** | 9 | Lec 32, Sem& Lab 32 | Ķīmi3009 |  | + | + |
| **Nanochemistry** | 3 | Lec 32 | Ķīmi3034 | + |  |  |
| **Computer Application in Chemistry** | 4.5 | Lec 16, Sem& Lab 32 | SDSK1090 | + | + | + |
| **Biological chemistry** | 6 | Lec 32, Sem& Lab 16 | Ķīmi3037 | + | + | + |
| **Physical Chemistry II** | 6 | Lec 28, Sem& Lab 12 | Ķīmi3036 | + | + | + |

**Master program in Chemistry**

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| **Course** | **ECTS credits** | **Total contact hours** | **Course code** | **Course part held in English** |
| **Lectures** | **Lab works** | **Seminars** |
| **Organic Synthesis I** | 12 | Lec 32Lab 80Sem 32 | Ķīmi5017 | + | + | + |
| **Stereochemistry** | 6 | Lec 32Sem 32 | Ķīmi5006 | + |  | + |
| **Research Project I** | 3 | Experimental work, data analyses | Ķīmi5154 | Individual work under supervision  |
| **Research Project II** | 6 | Experimental work, data analyses | Ķīmi6000 | Individual work under supervision |
| **Organic Synthesis III (Total Synthesis, modelling)** | 6 | Lec 8Sem 56 | Ķīmi6239 | + |  | + |
| [**High Performance Chromatography**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5048)**\*** | 3 | Lec 20Lab 6Sem 6 | Ķīmi5048 |  | + | + |
| **Bioanalytical and Pharmaceutical Analyse\*** | 6 | Lec 14Lab 40Sem 10 | Ķīmi6012 |  | + | + |
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[**Chemistry of Natural Compounds**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM6235)**\*** | 6 | Lec 30Lab 2Sem 32 | Ķīmi6153 |  | + | + |
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| [**Methods of data analysis in chemistry**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5075)**\*** |

 | 3 | Lec 18Sem 14 | Ķīmi5029 |  |  | + |
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| [**Nuclear magnetic resonance spectroscopy**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM6010) |

 | 3 | Lec 12Lab 4Sem 16 | Ķīmi5170 | + | + | + |
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| [**Masspectrometry**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5051)**\*** |

 | 3 | Lec 20Lab 4Sem 8 | Ķīmi5051 |  | + | + |
| [**Practical Applications of Advanced Elemental Analysis**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5065)**\*** | 3 | Lec 4Lab 10Sem 18 | Ķīmi5039 |  | + | + |
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**[Sample Preparation in Analytical Chemistry](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5074)\*** | 6 | Lec 24Lab 20Sem 20 | Ķīmi5040 |  | + | + |
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| [**Analysis of food products**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5053)**\*** |

 | 6 | Lec 28Lab 16Sem 20 | Ķīmi5053 |  | + | + |
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| [**X-ray Methods in Chemistry**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5076)**\*** |

 | 6 | Lec 36Sem 28 | Ķīmi5126 |  |  | + |
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| [**Scanning microscopy**](https://www.lu.lv/gribustudet/katalogs/katalogi-anglu-valoda/course-catalog/?user_phpfileexecutor_pi1%5Bcourse_id%5D=2KIM5043) **\*** |

 | 3 | Lec 10Lab 16Sem 6 | Ķīmi5043 |  | + | + |
| **Analysis of waters**  | 3 | Lec 8, Sem& Lab 12 | Ķīmi5041 | + | + | + |
| **Physical chemistry of solids** | 3 | Lec 28, Sem& Lab 4 | Ķīmi5000 | + | + | + |
| **Modern analyses methods** | 6 | Lec 40, Sem& Lab 24 | Ķīmi5010 | + | + | + |