

**FACULTY
OF
CHEMICAL
TECHNOLOGY**

Discrete courses*

*courses will be opened only if a sufficient number of students register for them.

Bachelor courses

Autumn

| Course code | Course title | ECTS Credits | Semester |
|--------------------------|--|--------------|----------|
| P360B501 | Inorganic chemistry 1 | 6 | autumn |
| T350B125 | Process Engineering 1 | 6 | autumn |
| T430B136 | Food Chemistry and Analysis 1 | 6 | autumn |
| P004B001 | Principles of Biochemistry | 6 | autumn |
| T500B101 | Human Safety and Toxicology | 3 | autumn |
| T152B010 | Materials science | 6 | autumn |
| P390B301 | Organic Chemistry 1 | 6 | autumn |
| P400B001 | Physical Chemistry 1 | 6 | autumn |
| P300B503 | Chemical Analysis | 6 | autumn |
| P300B603 | Instrumental Analysis | 6 | autumn |
| T125B148 | Modeling, Optimization and Control of Biotechnological Processes | 6 | autumn |
| B230B104 | Microbiology | 6 | autumn |

Spring

| Course code | Course title | ECTS Credits | Semester |
|--------------------------|----------------------------------|--------------|----------|
| T430B117 | Food Chemistry and Analysis 2 | 3 | spring |
| T350B126 | Process Engineering 2 | 6 | spring |
| P370B002 | Polymer Chemistry | 6 | spring |
| T390B207 | Polymer Technology | 6 | spring |
| P310B001 | Biochemistry | 6 | spring |
| P390B302 | Organic Chemistry 2 | 6 | spring |
| T350B127 | Modeling of Processes | 6 | spring |
| T350B103 | General Chemical Technology | 6 | spring |
| P400B002 | Physical Chemistry 2 | 6 | spring |
| P360B502 | Inorganic chemistry 2 | 6 | spring |
| P300B010 | Instrumental Analysis | 6 | spring |
| PR00B151 | Professional Internship | 15 | spring |
| P390B003 | Organic chemistry (short course) | 6 | spring |
| B200B010 | Cell and Tissue Biology | 6 | spring |
| T430B144 | Food Chemistry and Analysis | 9 | spring |
| T430B143 | Food Microbiology and Hygiene | 6 | spring |
| T430B109 | Food Sensory Evaluation | 3 | spring |
| P004B001 | Principles of Biochemistry | 6 | spring |

Master courses

Autumn

| Course code | Course title | ECTS Credits | Semester |
|--------------------------|---|--------------|----------|
| T270M121 | Modelling of Environmental Processes and Technologies | 6 | autumn |
| T270M123 | Chemicals in Environment | 6 | autumn |
| P305M010 | Methods of Environmental Analysis | 6 | autumn |
| P352M010 | Liquid and Gas Chromatography | 6 | autumn |
| T490M107 | Product Quality Systems in Biotechnology Industry | 6 | autumn |
| T350M110 | Fluid Dynamics | 6 | autumn |
| T350M115 | Chemical Reaction Engineering | 6 | autumn |
| T350M119 | Process Optimization | 6 | autumn |
| T500M112 | Workers Safety and Health | 6 | autumn |
| T430M102 | Food Quality and Safety Management | 6 | autumn |
| T430M137 | Modern Food Toxicology | 6 | autumn |
| T430M133 | Applied Food Chemistry | 6 | autumn |
| T430M141 | Dietetic | 6 | autumn |
| T430M134 | Assessment of Functionality of Food Ingredients | 6 | autumn |
| T430M142 | Personalized Nutrition | 6 | autumn |
| T000M246 | Modern Methods in Food Analysis and Quality Control | 6 | autumn |
| T270M138 | Air Quality Engineering | 6 | autumn |
| T000M239 | Eco-entrepreneurship Project | 6 | autumn |
| T270M135 | Sustainability Management and Law | 6 | autumn |
| T000M197 | Research project | 12 | autumn |
| P390M327 | Spectroscopy of Organic Compounds | 6 | autumn |

Spring

| Course code | Course title | ECTS Credits | Semester |
|--------------------------|--|--------------|----------|
| P003M100 | Green Chemistry and Renewable Resources | 6 | spring |
| P360M106 | Thermal Analysis and X-Ray Powder Diffraction Methods | 6 | spring |
| T350M107 | Heat and Mass Transfer | 6 | spring |
| T490M113 | Plant and Microorganism Biotechnology | 6 | spring |
| T390M237 | Polymer Recycling | 6 | spring |
| T350M115 | Chemical Reaction Engineering | 6 | spring |
| T430M126 | Functional Foods and Food Supplements | 6 | spring |
| B230M100 | Applied Microbiology and Biotechnology | 6 | spring |
| T430M136 | New Food Product Development | 6 | spring |
| T270M137 | Technologies for Waste Management and Resources Recovering, | 6 | spring |
| T270M136 | Water Resources Engineering | 6 | spring |
| T000M251 | Research Project 1 | 6 | spring |
| T270M122 | Experimental Design and Data Analysis in Environmental Engineering | 6 | spring |
| T000M258 | Research project | 12 | spring |