

Courses 2024/25

Winter semester

- Process Optimization (Lecture 30h, Project form 15 h, ECTS 3);
- Industrial process modelling and simulation (Lecture 30h, Project form 45h, ECTS 5);
- Fundamentals of Process Intensification (Lecture 30h, Project form 30 h, ECTS 4);
- Process Economy (Lecture 30h, Project form 30 h, ECTS 5);
- Advanced Waste Management (Lecture 20h, Project form 10 h, ECTS 2);
- Engineering Methods in Physiology (Lecture 20h, ECTS 2);
- Advanced Materials in Chemical Engineering (Lecture 20h, Laboratory 10 h, ECTS 2);
- Multiscale Modelling (Lecture 20h, Project form 10 h, ECTS 2);

Summer semester

- Applied Transport Phenomena (Lecture 30h, Laboratory 15 h, ECTS 3);
- Process Dynamics & Control (Lecture 20h, Laboratory 10h, ECTS 2);
- Applied Fluid Mechanics (Lecture 20h, Laboratory 10 h, ECTS 2);
- Kinetics, Catalysis & Reactor Design (Lecture 30h, Project form 45 h, ECTS 5);
- Gas and Liquid Purification Processes (Lecture 30h, Laboratory 15 h, ECTS 3);
- Equipment for Heat & Mass Transfer (Lecture 30h, ECTS 2);
- Energy Conversion & Storage (Lecture 20h, ECTS 2);
- Sustainable Development in Process Engineering (Lecture 20h, Project form 15 h, ECTS 3);
- Electrochemistry for Renewable Energy (Lecture 20h, Laboratory 15 h, ECTS 3);
- Bioreactor design and modelling (Lecture 20h, Project form 15 h, ECTS 3);
- Bioconversion of waste raw materials (Lecture 30h, ECTS 2);
- Thesis workshop (Laboratory 90h, ECTS 8);
- Final degree work (ECTS 15);