



International Graduate Study **CHEMICAL AND ENVIRONMENTAL TECHNOLOGY**



University of Zagreb
Faculty of Chemical Engineering and Technology
University of Split
Faculty of Chemistry and Technology



Više informacija o EU fondovima na stranici Ministarstva
regionalnoga razvoja i fondova Europske unije
<http://www.strukturnifondovi.hr>



STARTING FROM ACADEMIC YEAR 2019/2020

- in the field of technical sciences
- two academic years
- four semesters
- 120 ECTS credits

1st semester
(FCET)

2nd semester
(FCT)

3rd semester
(FCET)

4th semester
(FCET
or FCT)

Graduate Study Programme Chemical and Environmental Technology

1
SEMESTER

COURSE

ECTS

Mandatory

Environmental Engineering	5
Process Analytical Technology	5
Process Design and Economics	5
Technical Catalysis	5

Elective

Nanotechnology	5
Polymer Materials Engineering	5
Renewable Energy Sources	5
Separation Technologies	5
Trends in Biotechnology	5

COURSE

ECTS

Mandatory

Sustainable Technologies and Development	5
Environmental Remediation Technologies	5
Environmental Management Tools	5

Elective

Corrosion Engineering in Environmental Protection	5
Ecotoxicology	5
Modern Analytical Methods for Water and Air Quality Monitoring	5
Methods for Advanced Material Characterization	5
Product Life Cycle Assessment	5

2
SEMESTER

3
SEMESTER

COURSE

ECTS

Mandatory

BAT in Chemical Industry	5
Technology Management and Innovation	5

Elective

Advanced Water Treatment Technologies	5
Air Pollution and Control	5
Chemometrics	5
Electrochemical Energy Storage and Conversion	5
Enzymatic Technologies	5
Integrated Chemical Systems	5
Modern Methods of Organic Synthesis	5
Solid Waste Recycling and Treatment	5

COURSE

ECTS

Mandatory

Master Thesis	5
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4
SEMESTER

Visit
www.fkit.unizg.hr/en
www.ktf.unist.hr

STUDY PROGRAMME OBJECTIVES

- develop deep awareness of environmental challenges faced by industry and society
- acquire specialist expertise in development and optimization of sustainable chemical technological processes minimizing their environmental impact
- apply problem solving skills to complex multidisciplinary challenges using advanced chemical and environmental engineering tools and concepts
- study and apply in practice innovative and emerging chemical technologies to solve global environmental challenges
- adopt project planning and innovation management skills required by contemporary business