www.fkit.unizg.hr

International Graduate Study

CHEMICAL AND ENVIRONMENTAL TECHNOLOGY

starting from academic year 2019–2020

University of Zagreb
Faculty of Chemical Engineering and Technology

University of Split
Faculty of Chemistry and Technology

www.strukturnifondovi.hr

Europska unija
"Zajedno do fondova EU"

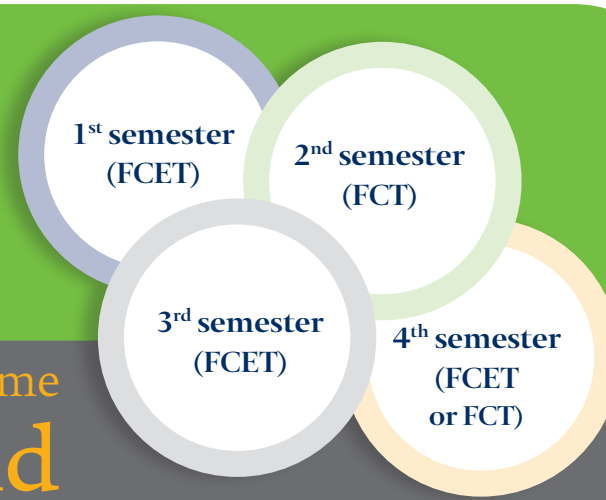
EUROPSKI STRUKTURNI I INVESTICIJSKI FONDOVI

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

FKITMCMXIX

STARTING FROM ACADEMIC YEAR 2019/2020

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



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

2 SEMESTER

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

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

4 SEMESTER

COURSE	ECTS
Mandatory	
Master Thesis	5

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