

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice



JOHANNES KEPLER
UNIVERSITÄT LINZ

Biological Chemistry

Cross Border Double Degree
Bachelor & Master Study Programs



International dual studies in the European Region Danube-Vltava
12th of October 2015 at the University of Applied Sciences
Landshut



EUROPEAN UNION
European Regional
Development Fund



EUROPEAN TERRITORIAL CO-OPERATION
AUSTRIA-CZECH REPUBLIC 2007-2013
Gemeinsam mehr erreichen. Společně dosáhneme více.



INSTITUTE OF
ORGANIC
CHEMISTRY



Double Degree Bachelor Program



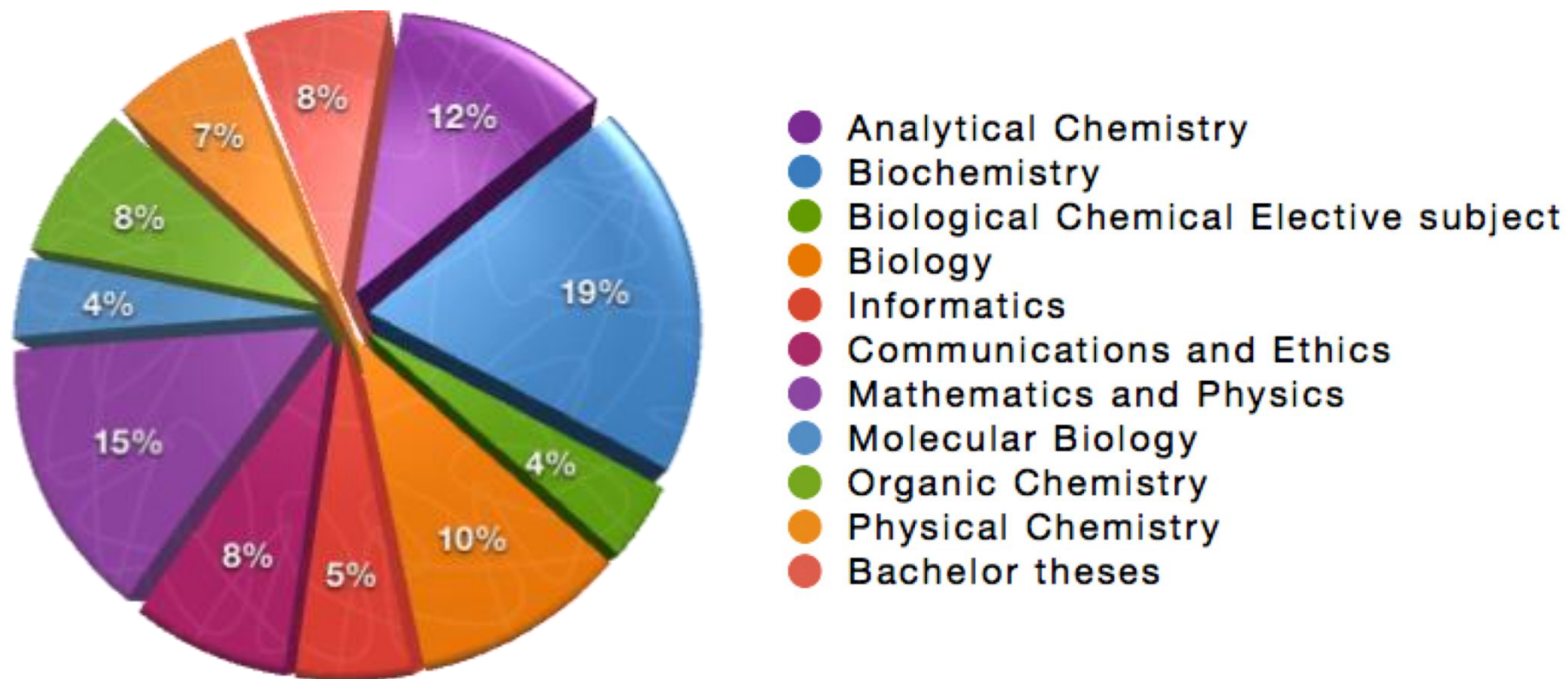
1. and 2. semester in Linz at JKU
3. and 4. semester in Budweis at SBU
5. semester in Linz
6. semester in 50% Budweis/50% Linz

129 semester hours

180 ECTS in total



Subject Distribution



Training in the laboratory

Laboratory in General Chemistry

Laboratory in Analytical Chemistry

Biochemistry Laboratory 1

Environmental Chemistry Laboratory

Methods in Molecular Biology

Biochemistry Laboratory 2

Laboratory in Organic Chemistry

Biophysics Laboratory

Laboratory of Instrumental Analysis

Laboratory in Physical Chemistry



2 Bachelor theses



Linz

3 weeks+

From chemistry to
bioinformatics

Budweis

2 months+

Practice in the Czech Academy
of Sciences





Joint Double Degree Master Program Biological Chemistry

- Duration:
 - 5 semesters (2.5 years)
 - 1. and 2. semester in Linz
 - 3. and 4. semester in Budweis
 - 5. semester (one) Master thesis for min. 6 months
- Double degree (MSc. & Mgr.)
 - 150 ECTS

Selection of modules

**Fundamentals of
Chemistry and
Technology**

**Advanced Biology
and Biochemistry**

Support courses

Free electives

**Advanced
Chemistry**

**Advanced Physical
Chemistry and
Biophysics**

**Structural
Biochemistry**

**Advances in
Biological Systems**

**Molecular and
Developmental
Biology**

**Structural Biology
Techniques**

Selection of modules

Organic Chemistry

Instrumental Analysis

Biochemical Technologies

Molecular Biology

Genetics

Protein Engineering

Computational Chemistry

Patent Law

Gender Studies

Free electives

Stereochemistry

Bioanalytics

Biotechnology

Bionics

AFM

Biophysics

Biological Materials

Nanobiomechanics

NMR

Computational Biochemistry

PET

Protein Science

Modelling of Biological Systems

Immunology

Biopharmacy

Functional Genomics

Toxicology

Cell Signalling

Virology

Molecular Phylogenetics

Electron Microscopy

Cell line cultures

X-Ray Crystallography

Fluorescence Spectroscopy

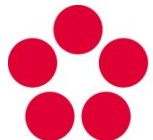


Master thesis or internship in industry



GE Global Research





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JKU
JOHANNES KEPLER
UNIVERSITÄT LINZ

Acknowledgement



Cross Border Award 2012

Univ.-Prof. Dr. Norbert Müller
Head of the Institute of Organic Chemistry at JKU

Prof. RNDr. Libor Grubhoffer, CSc.
President (rector) of the USB

www.biologicalchemistry.jku.at
www.biologicalchemistry.cz



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