Module title
Basic Laboratory Techniques and Procedures

Abbreviation
07-ASQ-ATL-162-m01

Module coordinator
Dean of Studies

Module offered by
Faculty of Biology

ECTS
5

Method of grading
Only after succ. compl. of module(s)

Duration
1 semester

Module level
undergraduate

Other prerequisites
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Contents
Seminars and workshops covering essential lab techniques. Participants are arranged into small groups and instructed by peer tutors who have practical work experience as pharmaceutical, medical or biological lab technicians and share their expertise. Topics covered include: lab protocols, recording data and results in lab notebooks, dilution series: various buffers and solutions, calculation of molarity, preparation of small amounts of different solutions and buffers, pH values, titration, pipetting precisely, measuring, weighing, common mistakes, essential lab techniques, problem solving tools, material storage, lab safety and good practice.

Intended learning outcomes
Students are able to perform essential lab techniques independently, they have learned how to avoid common mistakes and have acquired problem solving skills. They can prepare standard solutions and buffers independently and can reliably calculate various dilution series as well as molarity. Students are able to record results and protocols in a lab notebook. They have been trained in safe laboratory practices.

Courses
S (2)
Module taught in: German and/or English

Method of assessment
a) presentation (approx. 30 minutes) or b) portfolio (approx. 20 pages)
Language of assessment: German and/or English

Allocation of places
max. 15 places (lottery)

Additional information
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Referred to in LPO I
(examination regulations for teaching-degree programmes)
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Module appears in
Bachelor' degree (1 major) Biochemistry (2013)
Bachelor' degree (1 major) Biology (2011)
Bachelor' degree (1 major) Biology (2013)
Bachelor' degree (1 major) Chemistry (2010)
Bachelor' degree (1 major) Chemistry (2009)
Bachelor' degree (1 major) Geography (2010)
Bachelor' degree (1 major) Computer Science (2014)
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First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009)
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Bachelor's degree (2 majors) History (2009)
Bachelor's degree (2 majors) Italian Studies (2013)
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<td>(1 major, 1 minor) Theological Studies</td>
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First state examination for the teaching degree Sonderpädagogik Didactics in Social Science (Primary School) (2015)
First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015)
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<th>Module Description</th>
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<td>First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015)</td>
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<td>First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2015)</td>
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<td>First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Middle School) (2015)</td>
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<td>First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015)</td>
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<td>First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2015)</td>
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Bachelor's degree (2 majors) Geography (2015)
Bachelor's degree (2 majors) French Studies (2015)
Bachelor's degree (2 majors) History (2015)
Bachelor's degree (2 majors) Italian Studies (2015)
Bachelor's degree (2 majors) Spanish Studies (2015)
Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)
Bachelor's degree (2 majors) German Language and Literature (2015)
Bachelor' degree (1 major) Mathematical Physics (2016)
Bachelor' degree (1 major) Human-Computer Systems (2016)
Bachelor's degree (1 major, 1 minor) Theological Studies (2011)
Bachelor's degree (2 majors) Theological Studies (2011)
First state examination for the teaching degree Grundschule Protestant Theology (2015)
First state examination for the teaching degree Grundschule Music (2015)
First state examination for the teaching degree Grundschule Didactics in Protestant Theology (Primary School) (2015)
First state examination for the teaching degree Realschule Music (2015)
First state examination for the teaching degree Gymnasium Music (2015)
First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Primary School) (2015)
First state examination for the teaching degree Mittelschule Music (2015)
Bachelor's degree (1 major, 1 minor) French Studies (2016)
Bachelor's degree (2 majors) French Studies (2016)
Bachelor's degree (1 major, 1 minor) Italian Studies (2016)
Bachelor's degree (2 majors) Italian Studies (2016)
Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)
Bachelor's degree (2 majors) Spanish Studies (2016)
Bachelor' degree (1 major) Romanic Languages (French/Italian) (2016)
Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)
Bachelor' degree (1 major) Romanic Languages (Spanish/Italian) (2016)
Bachelor' degree (1 major) Business Information Systems (2016)
First state examination for the teaching degree Gymnasium French Studies (2016)
First state examination for the teaching degree Gymnasium Italian Studies (2016)
First state examination for the teaching degree Gymnasium Spanish Studies (2016)
First state examination for the teaching degree Realschule French Studies (2016)
Bachelor' degree (1 major) Games Engineering (2016)
Bachelor's degree (1 major, 1 minor) English and American Studies (2016)
Bachelor's degree (2 majors) English and American Studies (2016)
First state examination for the teaching degree Grundschule English (2016)
First state examination for the teaching degree Sonderpädagogik Didactics in English (Primary School) (2016)
First state examination for the teaching degree Sonderpädagogik Didactics in English (Primary School) (2016)
First state examination for the teaching degree Realschule English (2016)
First state examination for the teaching degree Gymnasium English (2016)
First state examination for the teaching degree Mittelschule English (2016)
First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016)
First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016)
Bachelor' degree (1 major) Media Communication (2016)
Bachelor' degree (1 major) Food Chemistry (2016)
Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
Bachelor' degree (1 major) Biology (2017)
Bachelor's degree (1 major, 1 minor) Geography (2017)
Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)
Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)
Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)
Bachelor' degree (1 major) Aerospace Computer Science (2017)
Bachelor' degree (1 major) Modern China (2017)
Bachelor' degree (1 major) Biochemistry (2017)
Bachelor' degree (1 major) Chemistry (2017)
Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
Bachelor' degree (1 major) Economathematics (2017)
Bachelor' degree (1 major) Games Engineering (2017)
Bachelor' degree (1 major) Computer Science (2017)
First state examination for the teaching degree Gymnasium Greek Philology (2018)
Bachelor' degree (1 major) Media Communication (2018)
Bachelor' degree (1 major) Biomedicine (2018)
Bachelor' degree (1 major) Human-Computer Systems (2018)
Bachelor's degree (2 majors) Classical Archaeology (2018)
Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)
Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)
Bachelor's degree (2 majors) Digital Humanities (2018)
First state examination for the teaching degree Grundschule Physics (2018)
First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2018)
First state examination for the teaching degree Realschule Physics (2018)
First state examination for the teaching degree Gymnasium Physics (2018)
First state examination for the teaching degree Mittelschule Physics (2018)
First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018)
First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Primary School) (2018)
Bachelor' degree (1 major) Computer Science (2019)
First state examination for the teaching degree Gymnasium Mathematics (2019)
Bachelor's degree (1 major, 1 minor) English and American Studies (2019)
Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2019)
Bachelor' degree (1 major) Indology/South Asian Studies (2019)
Bachelor' degree (1 major) Business Information Systems (2019)
Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
Bachelor' degree (1 major) Business Management and Economics (2019)
Bachelor' degree (1 major) Modern China (2019)
Bachelor' degree (1 major) Food Chemistry (2019)