**Modul A01: Theories and Methods of Research**

*Theories and Methods of Research: An Introduction to Philosophy of Science for Scientists and Engineers*

Vorlesung, SWS: 2  
Reydon, Thomas (verantwortlich)

**Mo wöchentlich 12:15 - 13:45 23.10.2017 - 29.01.2018 1146 - B313**

This lecture course offers an introduction to the philosophy of science for students in the sciences and in engineering disciplines. Questions that will be addressed are, among others: How do the sciences and the engineering disciplines work? How are they able to produce reliable knowledge? Do the engineering disciplines produce knowledge of the same sort as the sciences? Is there such a thing as the scientific method? (Spoiler alert: No, there isn’t.) What is the structure of a good scientific explanation? And so on. We will also look at reasoning methods such as induction and deduction, and at methods of theory testing such as falsification. The course will be offered in English only. It is a mandatory course in the M.Sc. programs "International Horticulture" and "Water Resources and Environmental Management", and an optional course in the M.A. program Philosophy of Science, but conditional upon the availability of seats the course is open to all interested participants from the sciences, the engineering disciplines, and elsewhere.

**Bemerkung**

Die Arbeitssprache der Vorlesung ist Englisch.

**Modul A02: Intercultural Communication and Ethics**

*A02 Intercultural Communications and Leadership Ethics*

43140, Seminar  
Bodrozic, Zlatko

**Bemerkung**

Block, separate Ankündigung  
Wochenendseminar

**Modul A03: Scientific Research Colloquium 1**

*A03 Scientific Research Colloquium 1*

41916, Vorlesung, SWS: 3, ECTS: 5  
Stützel, Hartmut (verantwortlich)

**Fr wöchentlich 15:00 - 18:00 08.12.2017 - 02.02.2018 4105 - E011**

Start Nov./Dez. 2017 seperater Aushang

**Modul B01: Biostatistics**

**Modul D01: Leadership and Responsible Management**

*D01 Leadership and Responsible Management*

41918, Seminar  
Lentz, Wolfgang

**Fr wöchentlich 13:00 - 15:00 27.10.2017 - 02.02.2018 4136 - 017**

**Sa wöchentlich 08:15 - 11:45 28.10.2017 - 03.02.2018 4136 - 017**
Modul D04: Planning, Management and Evaluation of Projects

Compulsory optional modules for respective field of competences

Modul C03: Physiological Aspects of Ornamental Crop Production 1

Modul C05: Introduction to Fruit Science
Planning and Evaluation of Development Projects

172803, Vorlesung, SWS: 2, ECTS: 5
Waibel, Hermann

Mi wöchentlich 12:45 - 14:15 ab 25.10.2017 1502 - 013

C05 Introduction to Fruit Science

41924, Vorlesung, SWS: 2, ECTS: 3
Knoche, Moritz (verantwortlich)

Di wöchentlich 08:15 - 10:00 4131 - 004

Modul C10: Plant Breeding 1
C10 Plant Breeding 1

41666, Vorlesung, SWS: 2, ECTS: 3
Linde, Marcus (verantwortlich)

Do wöchentlich 10:15 - 11:45 19.10.2017 - 01.02.2018 4105 - E211

Modul C13: Horticultural Economics
C013 Horticulture Economics

41901, Vorlesung, SWS: 2, ECTS: 3
Waibel, Hermann (verantwortlich)

Bemerkung BLOCK: contact Ms Grundstedt, Room: Conti R15 (1503)

Modul C14: Horticultural Marketing
C14 Horticultural Marketing

41907, Vorlesung, SWS: 2, ECTS: 3
Kunze, Dagmar (verantwortlich)

Do wöchentlich 14:15 - 16:00 19.10.2017 - 01.02.2018 4112 - 020

Bemerkung zur Gruppe Raum 4112 - 020

Modul C15: Environmental Economics

Optional modules for specific fields of competence

Modul C07: Postharvest Physiology of Fruit
M 14 / C07 Postharvest Physiology of Fruit
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<td>172876 / 76476, Vorlesung, SWS: 2, ECTS: 5</td>
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<td>41925, Vorlesung/Experimentelle Übung, SWS: 4, ECTS: 6</td>
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<td>Maiß, Edgar (verantwortlich)</td>
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Learning objectives Use of biotechnological applications for improvement of plant protection schemes. Course Content Lecture Introduction to fundamental methods and techniques in plant biotechnology; Composition and structure of nucleic acids; Expression of genes in pro- and eucaryotes; Molecular diagnostics of plant pathogens; Transformation of micro organisms and plants; Principle of pathogen-derived resistance; Transgenic plants with resistances to viruses, bacteria and fungi; Transgenic plants resistant to insects (B. thuringiensis, Protease inhibitors); Herbicide tolerant crops; Use of conventional resistance genes in plant biotechnology; Risk assessment studies of transgenic plants in agroecosystems; Future and ethics of plant biotechnology Tutorial Total nucleic acid purification from a transgenic plant; Amplification of introduced genes from a transgenic plant by PCR; RT-PCR to detect mRNA of a transgene in plants DAS ELISA


Modul C24: Principles of Systems Modelling
Principles of systems modelling (M21 / C24)

40030, Vorlesung/Theoretische Übung, SWS: 4, ECTS: 6
Moualeu-Ngangue, Dany Pascal (begleitend)| Stützel, Hartmut (verantwortlich)

Di wöchentl. 16:15 - 18:00 17.10.2017 - 30.01.2018 4112 - 020
Stützel, Hartmut

Mi wöchentl. 16:15 - 18:00 18.10.2017 - 31.01.2018 4112 - 020
Moualeu-Ngangue, Dany Pascal