

M.Sc. Integrated Natural Resource Management (INRM)

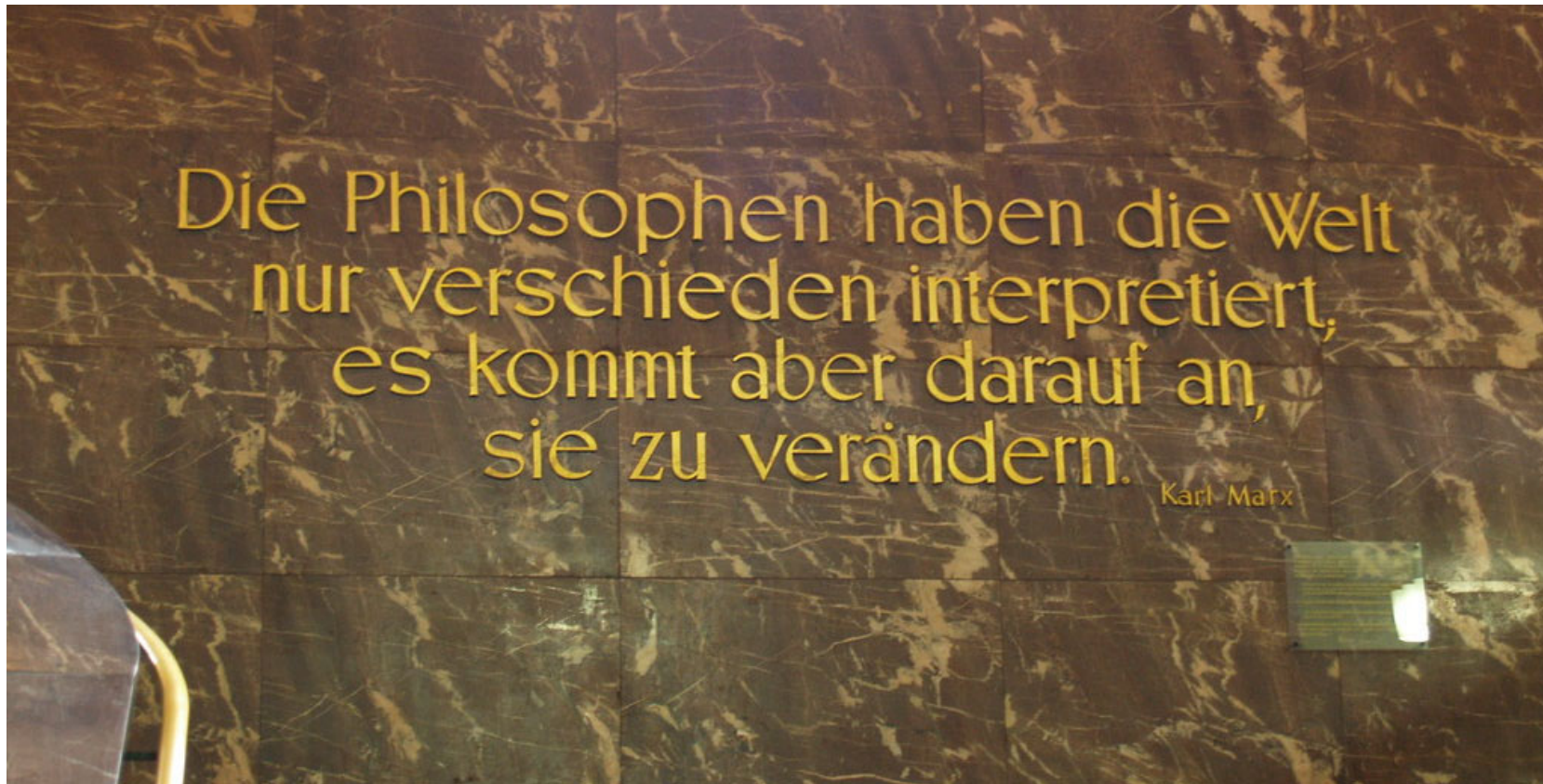
at Thae Institute / Faculty for Life Sciences

An Introduction

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Challenges for sustainable development

- Loss of biodiversity, climate change, conversion of land use, ...
- Local, regional and global pollution
- Overexploitation and degradation of living and fossil resources
- Hunger, poverty and social exclusion
- UN Sustainable Development Goals (SDGs)
- These challenges...
 - ...are, in principle, well-known, ...
 - ...we know some fixes since decades, ...
 - ...but the goals are far from being achieved yet.



“The philosophers have only interpreted the world, in various ways; the point is to change it.” (Marx, 1888, Theses on Feuerbach)

Challenges for you

- Becoming up-to-date experts on these topics in the next two years
- Becoming more smart than analysts and decision-makers in the last decades
- Converting difficulties from working in an interdisciplinary and international group into an asset
- You will be studying in one of the most outstanding sustainability science clusters in Germany, probably in Europe

Short introduction

- Study Program Director: Klaus Eisenack; support: Ines Jeworski
- Program Coordination: Deike Hesse-Wilting
- INRM student speakers team

- Who are you?
 - Continent where you come from: (1) Americas, (2) Asia, (3) Africa, (4) Australia & Oceania, (5) Europe?
 - Previous training: (1) natural sciences, (2) social sciences, (3) engineering, (4) humanities, (5) other?
 - Do you already have Moodle access?

- Challenges
 - What challenges of interdisciplinary studies do you expect?
 - What challenges with an intercultural group do you expect?

General notes: Studying in Germany

- Compared to some other countries:
 - Much freedom
 - Little guidance by professors
- Take your opportunities: you are mature students!
 - Study regulations (Studienordnung) give you many options/modules to choose from
 - Many modules let you enough time to choose your own emphasis in learning and personal development
- Deal with the limitations (66 students per professor in German average!)
 - Prepare and rework lectures (not everything trained in presence time / recordings)
 - Prepare substantive questions to ask teachers during presence time / synchronous sessions
 - Self-organize and collaborate with other students
 - In the beginning of the semester, ask teachers about their expectations (tasks, examination)
- What do you already experience or expect from a German university?

Structure of INRM

1. Compulsory Modules (“Pflichtmodule”, 4 courses / 24 ECTS)
2. Elective Compulsory Modules (“Wahlpflichtmodule”, 9 courses / 54 ECTS), that need to cover
 - At least 3 out of 4 knowledge areas (“Wissensgebiete”) of INRM
 - Two priority areas out of 6 (“Studienschwerpunkte”, each 3 courses / 18 ECTS)
 - Optional study project (12 ECTS) can replace two Elective Compulsory Modules in the knowledge areas
3. Elective Compulsory Modules outside INRM (“Überfachlicher Wahlpflichtbereich”, 2 courses / 12 ECTS)
4. Master Thesis (30 ECTS)

Plan your ECMs, but admit flexibility.

Compulsory Modules

Winter term, 1st semester

- Institutional Economics and Political Economy
- Ecosystems of Agricultural Landscapes and Sustainable Natural Resource Use
- Soil and Water Protection

Summer term, 2nd semester

- Environmental and Resource Economics

Elective Compulsory Modules within the – 4 Knowledge Areas (KA)

- ➔ Natural Sciences Applied to the Use and Protection of Natural Resource Systems
- ➔ Social Sciences Applied to the Use and Protection of Natural Resource Systems
- ➔ Advanced Methodologies for Empirical Analysis of the Interaction of Social, Natural and Technical Systems
- ➔ Management of Environmental and Natural Resource Systems

Cover at least 3 KA, each with
at least one module
[= not more than 1 KA shall
be completely unstudied in the end]
usually easy to achieve

List of Priority Areas

- I. Methodology and Modeling of Sustainability
- II. Sustainable Production Processes
- III. Sustainability Institutions and Policies
- IV. Land and Water
- V. Biodiversity and Nature Conservation
- VI. Climate Change and Renewable Energy

Cover two of them

Need to be announced at
examination office at end of second semester

Composition of Priority Areas

- Two Priority Areas must be selected
- Decision about PA needs to be made not after 2nd semester, but...
- This leaves 2-3 modules from the program for free choice

- Each priority areas offers 4-5 modules
- You need to chose at least three of modules in each selected PA (18 ECTS)

Priority Area 1: Methodology & Modeling of Sustainability

1. Human-Environmental Systems Interaction – KA III
2. Advanced Empirical Methodology for Socio-Ecological Systems Analysis - KA III
3. Geographic Information Systems (GIS) and Landscape Analysis – KA III
4. Risk and Uncertainty in Science and Policy – KA III
5. Economics of Human Development – KA II

Priority Area 2: Sustainable Production Processes

1. Practices and Organization of Organic Farming – KA I
2. Environmental Management and Information Systems – KA IV
3. Plant Pathogens in the Environment and Control Management – KA I
4. Cooperation and Cooperative Organizations – KA II
5. Public Policy Analysis: Agriculture and Food Policy – KA III

Priority Area 3: Sustainability Institutions and Policies

1. Environmental Sociology and Environmental Policy – KA II
2. Advanced Environmental and Resource Economics / ERE III – KA II
3. Cooperation and Cooperative Organizations – KA II
4. Human-Environmental Systems Interaction – KA III
5. Advanced Empirical Methodology for Socio-Ecological Systems Analysis – KA III

Priority Area 4: Land and Water

1. Irrigation and Drainage Systems – KA I
2. Land and Water Management – KA IV
3. Geographic Information Systems (GIS) and Landscape Analysis – KA III
4. Project Management - Applied to Natural Resource-based Sectors and Development Programmes – KA IV
5. Advanced Environmental and Resource Economics – KA II

Priority Area 5: Biodiversity and Nature Conservation

1. Biodiversity: Assessment, Function and Evolution – KA I
2. Biodiversity and Conservation Management – KA IV
3. Advanced Empirical Methodology for Socio-Ecological Systems Analysis – KA III
4. Integrative Fisheries Management (every even year) – KA IV
5. Advanced Environmental and Resource Economics – KA II

Priority Area 6: Climate Change & Renewable Energy

1. Agricultural Climatology and Ecophysiology – KA I
2. Climate and Energy Management – KA IV
3. Human-Environmental Systems Interaction – KA III
4. International Forest Use and Management – KA IV
5. Advanced Environmental and Resource Economics / ERE III – KA II

Further interesting offers (winter or summer term, not ECM)



From related programs at Thae Institute or IRI THSys (www.iri-thesys.org), or other unis.

- MSc Global Change Geography
 - Ecosystem Dynamics and Global Change
 - Climate and Earth System Dynamics
 - Earth Observation
- MA Philosophie
 - Climate Ethics
- MSc Agricultural Economics
 - Qualitative Research Methods
 - Intermediate Computable General Equilibrium Modelling
 - Futures of Agriculture and Food
 - European and International Agricultural Policy
 - Qualitative Research Methods
 - Multifunctional land-use
- Other universities
 - Economics of Climate Change (TU, Edenhofer)
 - Sustainable Development (FU, Lepenies)
 - Carbon Sequestration and Accounting (HNE Eberswalde)

Be careful about changing module titles

MSc. Integrated Natural Resource Management

Code		Old & some still official		New & frequently used
CM2		Environmental and Resource Economics II: Strategies and Policies		Environmental and Resource Economics
CM4		Institutional Economics and Political Economy I – Basic Concepts and Applications		Institutional Economics and Political Economy
FM7		Environmental and Resource Economics III: Environmental Institutions and Governance		Advanced Environmental and Resource Economics
FM9		Economics of Human Development		Economics of Agricultural and Rural Development
FM14		Market and Policy Analysis		Public Policy Analysis: Agriculture and Food Policy
CM1		Agroecosystems, Environment and Sustainable Natural Resource Use		Introduction to sustainable agricultural production 1
CM3		Soil and Water Protection		Introduction to sustainable agricultural production 2

First semester, compulsory



	Monday	Tuesday	Wednesday	Thursday	Friday
08-12				09:00-12:00 Agroecosystems, Environment and Sustainable Natural Resource Bellingrath-Kimura, Hillmann 1st Lect.: 19.10.	
12-20	18:00-20:00 Institutional Economics and Political Economy Eisenack 1st Lect.: 23.10.	14:00-16:00 Institutional Economics and Political Economy Eisenack 1st Lect.: 17.10.			13:00-16:30 Soil and Water Protection Riesbeck/Schweitzer 1st Lect.: 20.10.

Current semester, elective & recommended menu for 1st semester



Monday	Tuesday	Wednesday	Thursday	Friday	(Weekend) Blocks (Friday)/Saturday/Sunday
<p>10:00-14:00 Environmental Sociology and Environmental Policy (PA 3) Bonatti, Sieber</p> <p>1st Lect.: 23.10.</p>	<p>08:00-12:00 Agricultural Climatology and Ecophysiology (PA 6), Chmielewski 1st Lect.: 17.10.</p> <p>12:00-13:00 Only: 31.01.24 + Block Plant Diseases in the Environment and Control Management (PA 2) Büttner</p> <p>12:00-14:00 Public Policy Analysis: Agriculture and Food Policy (PA 2), Feindt 1st Lect.: 17.10.</p> <p>14:00-16:00 Compulsory Institutional Economics and Political Economy Eisenack 1st Lect.: 17.10.</p> <p>16:00-18:00 Study Project: Participatory Game Design (Eisenack)</p>	<p>9:00-13:00 Risk and Uncertainty in Science and Policy (PA 1) Krüger</p> <p>1st Lect.: 19.10.</p>	<p>09:00-12:00 Compulsory Agroecosystems, Environment and Sustainable Natural Resource Use ["Introduction to sustainable agricultural production 1"] Bellingrath-Kimura, Hillmann 1st Lect.: 19.10.</p> <p>12:00-14:00 Public Policy Analysis: Agriculture and Food Policy, Feindt 1st Lect.: 19.10.</p> <p>14:00-18:00 Climate and Energy Management (PA 6) Auer, Grundmann, Schuster 1st Lect.: 19.10.</p> <p>16:00-18:00 Public Policy Analysis: Agriculture and Food Policy, Feindt 1st Lect.: 19.10.</p>	<p>08:00-12:00 Environmental Management and Information Systems (PA 2) Mithöfer 1st Lect.: 20.10.</p> <p>13:00-16:30 Compulsory Soil and Water Protection ["Introduction to sustainable agricultural production 2"] Schweitzer, Riesbeck 1st Lect.: 20.10.</p>	<p>Biodiversity and Conservation Management 09:00-15:00 04.11. bis 05.11.2023 18.11. bis 19.11.2023 13.01. bis 14.01.2024 20.01. bis 21.01.2024</p> <p>Plant Diseases in the Environment and Control Management Büttner 08:30-18:00 11.03. bis 15.03.2024</p>

Typical electives in summer semester

FM1: Biodiversity: Assessment, Function and Evolution	FM 17: Land and Water Management
FM 8: Participatory Rural Innovation and Knowledge Systems	FM 21: International Forest Use and Management
FM 9: Economics of Agricultural and Rural Development	FM 22: The Role of Gender for Sustainable Resource Management
FM 10: Co-operation and Co-operative Organizations	FM 23: Project Management – Applied to Natural Resource-based Sectors and Development Programs
FM 12: Advanced Empirical Methodology for Socio-Ecological Systems Analysis	

Information for the next days

- Plan your course schedule for the winter semester & enroll courses on Moodle (Agnes)
- **Moodle access is quite essential**
- Attend first courses
- Some courses require Agnes registration for participation, or ‘Moodle keys’ which protect their course
 - You will obtain Moodle keys in the first session or by asking teachers
 - Later in the semester, registering exam participation on Agnes becomes a must
- **Please subscribe to the mailing list -- This is the only way in which we can reach you!**
- **Empty mail with subject**
‘subscribe inrm-imrd.thaer’ to ‘sympa@lists.hu-berlin.de’
- Questions?

If you are looking for advice...

- Program Coordination (contact her first for administrative counseling)
Dr. Deike Hesse-Wilting
E-Mail: deike.hesse-wilting@hu-berlin.de
- Examination Office (he's very important for you, but has much to do)
Hendrik Jahn
E-Mail: master.thaer@hu-berlin.de
- Head of Program
Prof. Dr. Klaus Eisenack
E-Mail: resource-economics@hu-berlin.de (you don't reach him via other addresses)
- INRM Student Speakers
E-Mail: inrm.berlin@gmail.com

Enjoy Studying in Berlin!

