

# M.Sc. Integrated Natural Resource Management (INRM)

at Thae Institute / Faculty for Life Sciences

## An Introduction

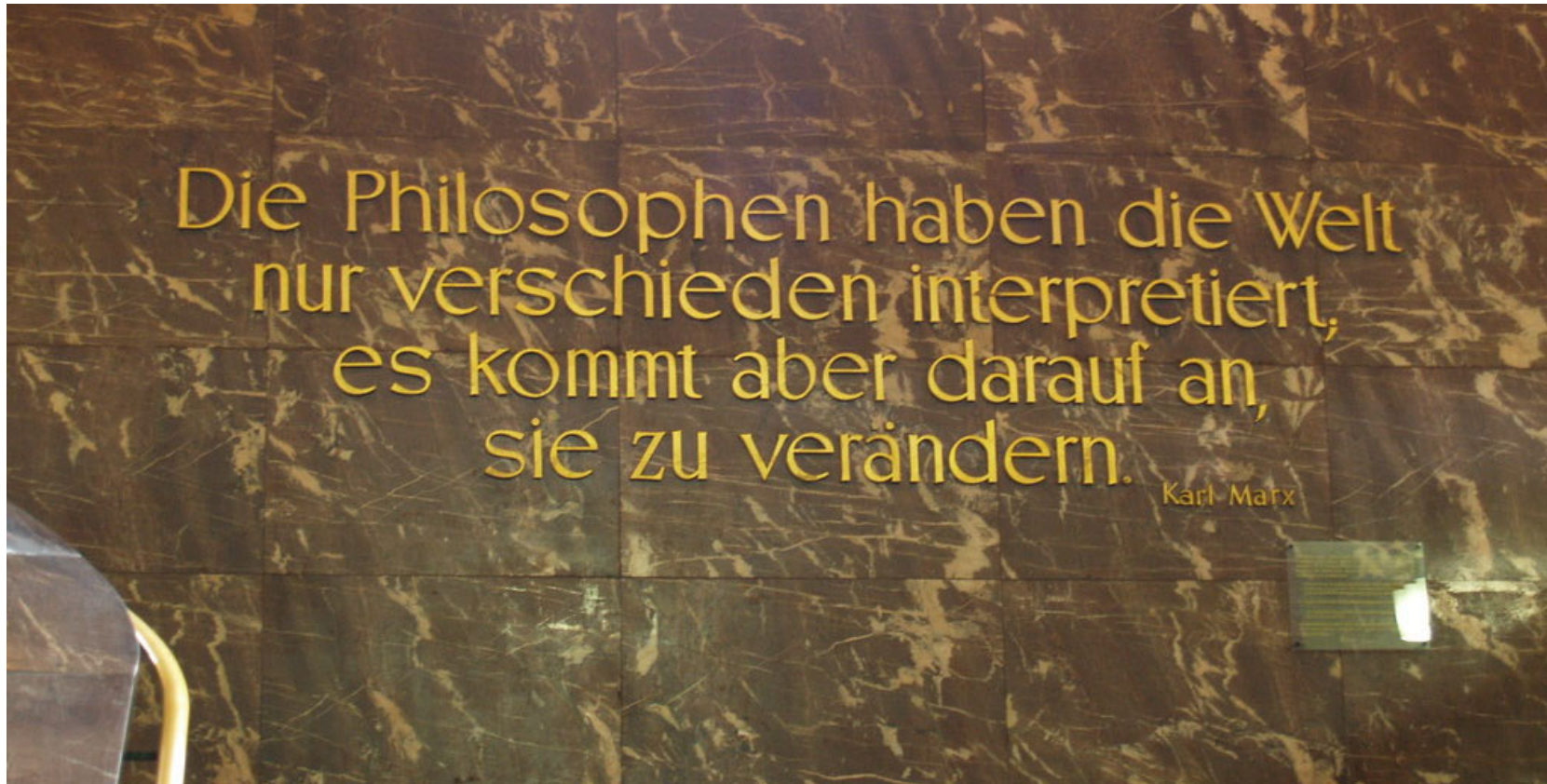
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## Challenges for sustainable development

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- 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

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- 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

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- Study Program Director: Klaus Eisenack; support: Ines Jeworski
- INRM student speakers team
  
- Who are you? Catch the dice!
  - Country where you come from?
  - Previous training / bachelor?
  - Why did you apply for INRM?
  
- Challenges
  - What challenges of interdisciplinary studies do you expect?
  - What challenges in an intercultural group do you expect?

## General notes: Studying in Germany

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- 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)
- Who has already experience with studying at a German university?
- What do you 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, (1<sup>st</sup> ) 2<sup>nd</sup> semester

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

Summer term, 1<sup>st</sup> / 3<sup>rd</sup> 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 2<sup>nd</sup> 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)

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From related programs at Thaer Institute or IRI THSys ([www.iri-thesys.org](http://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
FM22	The Role of Gender for Sustainable Resource Management	Gender Analysis in Economics (requires approval, without risk)

## Summer semester compulsory(\*)

	Monday	Tuesday	Wednesday	Thursday	Friday
08-12					
12-20	12:00-14:00 Environmental and Resource Economics Hagen  <b>1st Lect.: 14.04.</b>	14:00-16:00 Environmental and Resource Economics Hagen  <b>1st Lect.: 15.04.</b>			

(\*) Only recommended for 1<sup>st</sup> semester if you have previous training in economics (as provided in “Institutional Economics and Political Economy” in winter term)

## Winter semester, compulsory

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

# Current (summer) semester, electives & recommended menu for 1<sup>st</sup> semester



Monday	Tuesday	Wednesday	Thursday	Friday	(Weekend) Blocks (Friday)/Saturday/Sunday
<p><b>08:00-12:00</b> Biodiversity: Assessment, Function and Evolution (PA 5) Robischon, Zeller</p> <p><b>1st Lect.: 14.04.</b></p>	<p><b>08:30-12:00</b> Land and Water Management (PA 4), Schleyer, Proestou (online)</p> <p><b>1st Lect.: 22.04.</b></p>	<p><b>8:00-12:00</b> Advanced Empirical Methodology for Social-Ecological Systems Analysis (PA 1) Hamidov/Kasimov</p> <p><b>1st Lect.: 16.04.</b></p>	<p><b>08:00-12:00</b> Cooperation and Cooperative Organizations (PA 3) Hanisch, Robischon</p> <p><b>1st Lect.: 17.04.</b></p>	<p><b>13:00-17:00</b> International Forest Use and Management (PA 6) Günther-Dieng</p> <p><b>1st Lect.: 25.04.</b></p>	<p><b>Land and Water Management</b> <b>09:00-16:00</b> 10.05. - 11.05.2025 (online) 14.06. - 15.06.2025 (in presence)</p>
		<p><b>12:00-16:00</b> Gender Analysis in Economics (PA 1) Brückner/Brettin</p> <p><b>1st Lect.: 16.04.</b></p>	<p><b>13:00-17:00</b> Economics of Agricultural and Rural Development (PA 1) Brück</p> <p><b>1st Lect.: 17.04.</b></p>		

## Typical electives in winter semester

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FM 2: Agricultural Climatology and Ecophysiology	FM 15: Risk and Uncertainty in Science and Policy
FM 3: Irrigation and Drainage Systems	FM 16: Environmental Management and Information Systems
FM 4: Plant Diseases in the Environment and Control Management	FM 18: Biodiversity and Conservation Management
FM 6: Environmental Sociology and Environmental Policy	FM 19: Climate and Energy Management
FM 7: Advanced Environmental and Resource Economics	FM 20: Integrative Fisheries Management
FM 8: Participatory Rural Innovation and Knowledge Systems	FM 24: Study Project
FM 11: Human-Environmental Systems Interaction	

## Typical electives in summer semester

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FM 1: Biodiversity: Assessment, Function and Evolution	FM 17: Land and Water Management
FM 7: Advanced Environmental and Resource Economics	FM 21: International Forest Use and Management
FM 8: Participatory Rural Innovation and Knowledge Systems	FM 22: The Role of Gender for Sustainable Resource Management
FM 9: Economics of Agricultural and Rural Development	FM 23: Project Management – Applied to Natural Resource-based Sectors and Development Programs
FM 10: Co-operation and Co-operative Organizations	FM 24: Study Project
FM 12: Advanced Empirical Methodology for Socio-Ecological Systems Analysis	



## Information for the next days

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- Plan your course schedule for the 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...

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- Examination Office (s'he's very important for you, but has much to do)  
Hendrik Jahn  
E-Mail: [master.thaer@hu-berlin.de](mailto:master.thaer@hu-berlin.de)
- Head of Program  
Prof. Dr. Klaus Eisenack  
E-Mail: [resource-economics@hu-berlin.de](mailto:resource-economics@hu-berlin.de) (you don't reach him via other addresses)
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# Enjoy Studying in Berlin!

