



Background and Objective

The global food, water and energy crises force us to develop new strategies and means of managing natural resources. Therefore, experts having a wide range of knowledge to analyse complex human-environmental systems and to develop appropriate solutions are in great demand.

Tropical and subtropical regions typically face particular challenges due to pressures from population growth and economic development combined with highly vulnerable environments.

The objective of the M.Sc. "Technology and Resources Management in the Tropics and Subtropics" (TERMA) is to provide the participants with the appropriate knowledge and skills to analyse current problems related to the usage and management of land, water, and energy resources at various scales and to develop adequate solutions towards sustainable development. To this end, the ITT emphasises a holistic approach combining technological, economic and socio-political aspects of environmental and resources management.

The master programme is embedded in the international and interdisciplinary learning and research environment of the ITT.

Career Perspectives

Graduates of the M.Sc. programme TERMA possess an in-depth knowledge of all relevant aspects of natural resources management with a focus on water, land and environment, energy or regional planning. They are familiar with interdisciplinary, solution-based, analytical skills and tools appropriate to meet the demands faced by employees at all levels in both the public and the private sectors. Graduates find employment in:

- national and international governmental and non-governmental institutions
- utilities and consultancies
- universities and research institutions worldwide



What do we expect?

In order to participate you should

- have an academic or professional background related to environmental or resources management;
- hold a bachelor degree in engineering, natural sciences, geography, agricultural or social sciences;
- be fluent in English (TOEFL of at least 550 points or equivalent);

German language skills are not necessary for enrolment, however, foreign students have to pass the DSH (German Language Test) after the first semester to continue studying at the ITT.

What do we offer?

The two-year M.Sc. Programme consists of three semesters of course modules and project work and one semester of field research for the master thesis; Classes take place from Monday to Thursday from 5 pm to 9 pm.

We provide a comprehensive foundation in the geography of tropical and subtropical regions, economics, international development and management. According to your previous studies and personal interest you can choose one of the following *focus areas*:

- Water Management
- Urban and Regional Management
- Environmental and Land Use Management
- Renewable Energy Management.



Curriculum Overview:

1st Semester	2nd Semester	3rd Semester	4th Semester
Natural Environment	Three Elective Modules of focus area <ul style="list-style-type: none"> Water, Planning, Land or Energy 	Five Elective Modules of focus area <ul style="list-style-type: none"> Water, Planning, Land or Energy 	Thesis / Field Work
Human Environment			
Environmental Economics	Team Project		
International Development			
Project Management			
Scientific Work	Research Methods	Thesis Preparation	Colloquium

Basic Module Electives Modules Project Work and Research

Teaching is practice-oriented and is based on case studies, field visits and ongoing research at the ITT. Seminars and team projects enhance your project management, analytical and intercultural communication skills. Intensive tutoring supports you to develop your scientific abilities and individual research agenda.

After graduation you will become part of the ITT Alumni community, an international network of experts on natural resources management with ample opportunities of continuing education.





Application and deadlines

We invite interested young scientists to apply for participation in the master programme.

For well qualified applicants scholarships offered by **DAAD** - "German Academic Exchange Service" and **IPSWaT** - "International Postgraduate Studies in Water Technology" are available.

Detailed information on the application process, scholarships, application form and deadline are available on the ITT webpage



ITT

The Institute for Technology and Resources Management in the Tropics and Subtropics (ITT) is offering postgraduate education since 1976. Today it carries out international master courses together with partners worldwide (Mexico, Jordan and Vietnam). TERMA students will study with participants of these master courses during common courses in Cologne. They may as well take part in study or research periods at one of the many partner universities of the ITT.

Scientists and lecturers from various disciplines and origins work together at the ITT in education and research. The projects and educational programmes cover a wide range of integrated natural resources management topics. Current research projects take place in Latin America, the Middle East, South-East Asia and Mosambique.

The constantly growing ITT Alumni community of currently around 400 professionals related to natural resources management from more than 60 countries is a special asset of the ITT. International summer schools, expert seminars and other events of continuing education assure the longevity and effectiveness of this international network.

Live and Study in Cologne

Cologne is an educational, cultural and economic centre of international rank in the heart of Europe. The historic city centre, museums, theatres, concert and opera halls, sports arenas and public gardens join the flair of a cosmopolitan city to offer ample cultural and leisure activities for every taste. With 70 000 students at 7 universities, Cologne has one of the highest student populations in Germany creating a lively and international atmosphere.

Contact

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International Master Programme

Technology and Resources Management in the Tropics and Subtropics M.Sc.

TERMA



Water Planning Land Energy