



# EiABC

Ethiopian Institute of Architecture,  
Building Construction and City Development  
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Addis Ababa University  
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## PhD Program in Environmental Planning at EiABC, Addis Ababa University

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**IAU/ACUP International Seminar On Doctoral Education and  
Research Training in Sub-Saharan Africa 12-13, July 2012, Addis Ababa**

# Environmental Planning at EiABC, AAU

- The first PhD program in Environmental Planning in the country
- Program Started: Nov. 2010
- Duration of study: 4 years
- Host: Chair of Ecosystem Planning & Management, and  
Chair of Environmental Planning and Landscape Design

# Objective

- to educate future advisors, educators and decision makers that will lead, support and advance interdisciplinary training, research and consultancy in the field of environmental planning.

# Program Focus Area

- 1. Urban Environmental Planning and Management**
- 2. Planning for Natural Area Management**
- 3. Planning for Working Landscape Management**

# Graduate Profile

The graduates will develop the knowledge and skills that enable them to:

- Apply theoretical and methodological principles to strategic development, environmental plan and policy preparation
- Do interdisciplinary research to issues related to ecosystem management both in the built and natural environment
- Use scientific data and results as a basis for environmental planning and ecosystem evaluation when proposing and implementing development activities both in the built and natural environment

## Admission Requirement

Applicants with Master degree in

- Environmental planning,
- Environmental science,
- Urban and Regional Planning,
- Landscape ecology,
- Physical geography,
- Natural Resources Management, and
- other related fields

## Admission requirements

- Submission of a preliminary research theme of the intended PhD research
- English proficiency test
- Entrance examination

# Program structure

- The PhD program is a seminar and research based
- The teaching methodology is based on student centered seminar structure



# PhD Seminar

## General Environmental Planning

1. Regional planning
2. Environmental Policy and the Economics of Environmental Protection
3. Environmental Assessment

## Environmental Planning of the Built Environment

### Urban Environmental Planning and Management

## Environmental Planning of the Natural Areas and Working Landscapes

1. Planning for Ecosystem Management
2. Planning for Watershed Management

# PhD Research

- PhD students are expected to demonstrate the ability to acquire *depth of knowledge* by performing doctoral research in a chosen area of Environmental Planning, leading to a PhD dissertation.

# Dissertation

- Dissertation is a requirement for a Ph.D. degree in Environmental Planning at EiABC, AAU
- In the dissertation, the candidate is required to demonstrate:
  - *Knowledge of the literature relevant to the dissertation*
  - *The ability to design an investigation, and to gather and analyze information*
  - *The ability to present information in a manner consistent with publication in the relevant discipline*
  - *Critical appraisal of own work relative to that of others*
  - *A significant and original contribution to science*

# Staff Profile: Staff based at EiABC

No	Academic position	Fields of Specialization
1	Professor	Aquatic Ecology
2	Asso. Prof.	Environmental Planning
3	Asst Prof.	Landscape Planning
4	Asst. Prof.	Landscape Ecology
5	Asst. prof.	Watershed management
6	Asst. Prof.	GIS and Remote Sensing

# Staff profile (visiting professors)

No	Academic position	Fields of Specialization
1	Professor	Vegetation Management (Uni. Hannover)
2	Professor	Landscape Planning and Nature Conservation (Uni. Hannover)
3	Assoc. Professor	People and Protected Area Management (Uni. Hannover)
4	Senior Researcher	Socio-economics (Uni. Bonn)

# Time Frame

YEAR I	YEAR II	YEAR III	YEAR IV
<ul style="list-style-type: none"><li>• Research Method for Environmental Planning</li><li>• GIS and Remote Sensing for Environmental Planning</li><li>• PhD Seminar</li><li>• Research proposal Preparation</li></ul>	<ul style="list-style-type: none"><li>• PhD research proposal defense</li><li>• PhD Research</li></ul>	<ul style="list-style-type: none"><li>• PhD Research</li></ul>	<ul style="list-style-type: none"><li>• PhD Research</li><li>• Graduation</li></ul>

# Current PhD students

- Year I = 6 students (1 female)
- Year II = 9 students
- For next academic year = 8 applicants

# Current PhD students' research topics

- Impact of land use/land cover change on habitat quality of Nech Sar National Park: Implication for Conservation Planning
- Climate change adaptation of cities: the role of urban green space and its planning in Addis Ababa
- Assessment of the success of Blate Watershed Restoration Project based on ecosystem attributes, and socio-economic and institutional factors
- Biophysical and socio-economic impact of unplanned industrialization in the outskirts of Addis Ababa
- Integrated land-water use management on Lake Ziway catchment
- The environmental predicament in the Blue Nile basin of Ethiopia: the land, livelihoods and conservation planning
- Planning for green building in Hawasa city, southern Ethiopia



# Challenges

- **Poor infrastructure**
  - Office space for students
  - Internet
  - Journals and reference books
- **Insufficient supervisors**
- **Unattractive salary for university professors**

# Steps taken to overcome the challenges

## I. Seeking additional financial and technical support from donors

**DAAD** Deutscher Akademischer Austausch Dienst  
German Academic Exchange Service

- support secured for 4 years,
- additional support requested together with TUM



Support secured for 3 years

- **DANIDA**: support requested together with Copenhagen university and Ardhi University of Dar es Salaam

# Steps taken to overcome the challenges

2. Establishment of partnership with European universities for joint PhD research supervision and academic exchange



# Steps taken to overcome the challenges

## 3. Use of resources in other colleges of AAU

- College of Natural Sciences
- College of Social Sciences
- College of Development Studies

# Steps taken to overcome the challenges

## 4. Use of resources outside AAU

- United Nations Economic Commission for Africa
- International Livestock Research Institute

**THANK YOU**