Who we are

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# Structure of UNU-EHS, Bonn

## Academic Programmes

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## Central Units

(Administration / Finance, Executive Office, ICT and Communication)
“The United Nations University (UNU) represents the academic arm of the United Nations system implementing research and educational programmes in the area of sustainable development, with the particular aim of assisting developing countries.

Established by the UN General Assembly in 1973 as “an international community of scholars, engaged in research, postgraduate training and dissemination of knowledge in furtherance of the purposes and principles of the Charter of the United Nations”, UNU operates through a worldwide nexus of institutes and programmes that are coordinated by UNU Centre in Tokyo.
With a systems-oriented approach that is necessary for achieving sustainable solutions to the world’s challenges, the University’s activities are clustered into five interlinking thematic areas:

1.) Peace, Security and Human Rights
2.) Human and Socio-economic Development and Good Governance
3.) Global Health, Population and Sustainable Livelihoods
4.) Global Change and Sustainable Development
5.) Science, Technology, Innovation and Society
United Nations University

The Twinning Concept

- No research “in the North on the South”
- Develop true partnership
  - Provide attractive scientific environment
- Counteract brain drain
- Institutional long-term North-South Partnership
- “South” partner has to provide 30% of funding

UNU-FLORES

- Institute for Integrated Management of Material Fluxes and of Resources
  - TU Dresden – Maputo
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UNU Institute for Natural Resources in Africa
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UNU Projects in Africa (2011)

Project database:
http://www.vie.unu.edu/project/map/priority-africa
West African Science Service Center on Climate Change and Adapted Land Use (WASCAL)
Funded by BMBF, coordinated by ZEF

Enhancing the resilience of social-ecological systems to the impacts of climate change and increased climate variability.

Major components of WASCAL:
1. Competence Center
2. Research Programme
3. Graduate Research Programme
eLearning & the role of social media
The role of Social Media: Facebook usage in Africa

University of Yaounde I, Cameroon

Kenyatta University, Kenya

University of Capetown, South Africa
UNU Bonn Expertise in E-Learning

- Integration of e-learning into Higher Education
  - Open Education
- Capacity building for e-learning in African HEIs
  - Online discussions + facilitation
  - Quality assurance in e-learning
  - Facilitation techniques
- Social Media for knowledge exchange and collaboration
Building institutional capacities & supporting the strategic integration of e-learning in Africa

Higher Teacher Training College
University of Yaoundé I, Cameroon
E-learning training in Cameroon, 2008

“Challenges and perspectives for e-learning and research development in Cameroon”

Mobilizing at grass roots level
Workshop „Integrating E-Learning into Higher Education“, Bonn, 2009

Bringing people together – Conversations that matter
Fact Finding Mission & E-learning training in Cameroon, 2009

19-23 Oct 2009 Yaoundé, Cameroon

Meeting with the university management

Training of researchers & setting up a core team for e-learning

Hands-on-practice
eSchool 1 + 2

Developing a vision and a model for e-learning at the University of Yaoundé I

Development of course templates

December 2011
ECBCheck Training:
Quality in E-Learning, Italy, 2011

Self-assessment & Peer review

http://ecb-check.org
Institutional Cooperation

MoU between University of Yaoundé I & UNU-ViE (12 Jan 2012)
Network and Collaboration

Free University Berlin, Germany
Baden-Württemberg Corporate State University, Germany
Kenyatta University, Kenya
University Yaoundé I, Yaoundé, Cameroon
University of Cape Town, South Africa

The power of networks and alliances
UNU Network in Education & E-learning

AFRICA
Series of e-learning workshops “University 2.0“ created core group of African Universities
• Pan African University (PAU) – MoU in 2013?

EUROPE
• OU Catalunya, Spain
• FU Berlin, Germany
  • Edinburgh, UK
  • Bologna, Italy
  • Grenada, Spain
• Fernuniversität Hagen, Germany

AROUND THE GLOBE
• Columbia Center for New Media Teaching and Learning
  • Commonwealth of Learning (COL)
  • UNeLearn group, UNESCO
  • UNU Institutes and Programmes
• European Foundation for Quality in E-Learning (EFQUEL)
DIMTEC NEWSLETTER
VOLUME 2 QUARTERLY BULLETIN APR - JUN 2009

UNU / UFS Vulnerability Course

DIMTEC provided a training course on Vulnerability and Disaster Risk Management in collaboration with the United Nations University Institute for Environment and Human Security (UNU-IHS).

A training course was presented on 1-5 June 2009 at the University of the Free State, on Vulnerability and Disaster Risk Management. The focus was on Social, Environmental and Economical Vulnerability, Global Warning and Early Warning Systems.

Dr. Fabrice Renould (Associate Director: United Nations University Institute for Environment and Human Security), Dr. Ing. Jānis Berziņš (Head of Section, Vulnerability Assessment: United Nations University Institute for Environment and Human Security) and Prof. Dusan Salcic (Africa Representative: United Nations University Institute for Environment and Human Security) from Bonn, Germany presented the course, together with Mr. Andries Jordaan (Director: DIMTEC) and Mr. Eugene Poolman (Chief Forecasting Specialist: Disaster Risk Reduction, South African Weather Service).

This course was the first and will be presented at the Novi Sad University, Serbia in October 2009 and September 2010 as well as in Bonn, Germany in May 2010 where it will be part of the UNU PhD block course.

Visitors from Congo-Brazzaville

Three visitors from Congo-Brazzaville came to Bloemfontein to meet with the director of DIMTEC, to get some more insight on Disaster Management Centers in South Africa. DIMTEC took them on a tour to Cape Town and George where they visited the Provincial and District Municipality Disaster Management Centers to see how they operate. Congo-Brazzaville is interested in copying the Disaster Management System in South Africa to their country. They requested the UNU and DIMTEC to assist them.
Education Programs: Block course

PhD Block course in South Africa
(23 January to 3 February 2012)
New Components of Capacity Building & Training Modules

**Presentation**
- PowerPoint or HTML/XML E-learning

**Exercise**
- Hands-on Training on GIS & Remote Sensing

**Technical Documentation**
- Compendium describing the components, curriculum etc.

**Exam**
- HTML/XML/Flash e-learning exams

**Evaluation Sheet**
- Hands-on training on GIS & Remote Sensing

**Certificate**
- Describing the components, curriculum etc.
Our Vision
To be a premier Centre of excellence in the provision of Geo-Information & Information Technology Applications in Africa & beyond

Our Mission
To provide quality Geo - Information & allied Information Communication Technology products & services in environmental & resource management for sustainable development in our Member countries & beyond
Dimensions of Vulnerability

Social Dimension
Vulnerability of different social groups,
Role of social networks (coping)

Economic and Infrastructure Dimension
Vulnerability of different economic sectors and infrastructures
(life-lines – technical)

Environmental Dimension
Environmental fragility (groundwater, land)
Dependency on environmental services

Institutional Dimension
Effectiveness and failure of structures and institutions
Modularization of eLearning Content Instructional Design

1. Course Components
2. Course Design
3. Didactical Unit
4. Content Packaging
5. Content Processing
6. Content Sharing
Modularization of eLearning Content

UNU - EHS

Context

Summer Academy  PhD Block Course  Open Lectures  Blended Program  Virtual Program  ...

Partners

Master Bonn  ...

Courses

Introduction - Terminology  Hazard  Dimension  Vulnerability Assessment  Vulnerability to Resilience  ...

Module(s)  Metadata

Components (Didactical Unit)

Learning Event  Learning Activities
Inter African Collaboration
Food for Thought

Map: http://www.yxlon.de/
Problem: Brain drain from Africa

The efficient use of ICT can help to reduce the effect of brain drain → brain gain
Utilization of the potential of professionals of the Diaspora via ICT

- Over 300,000 professionals reside outside Africa [OIM, 2010].
- More than 3,000 doctors have left Ethiopia. There are more Ethiopian doctors on the east coast of the U.S. than there are in Ethiopia.
- Between one-third to half of all graduating doctors in South Africa migrate to the U.S., United Kingdom, and Canada.
- Over 21,000 Nigerian doctors practice in the U.S.
- There are reportedly more Malawi-trained doctors in Manchester, England, than there are in all of Malawi.
Tele-Medicine, Tele-Surgery

- Surgical and radiological online expertise
- Improvement of acute care in accident surgery

© Dr. Thomas Weber, DLR
Case study: Tele-medicine

- Telemedecine: Use of telecommunications technology for medical diagnosis and patient care when the provider and client are separated by distance.

- Role of the Diaspora:
  - Remote diagnosis: acquiring medical data of patients in Africa, transmission to Diaspora professionals for assessment and subsequent feedback to Africa.
  - Remote monitoring: remotely monitoring of a patient by a professional using various technological devices.
  - Interactive services: real-time interactions (phone conversations, online communication) between patients in Africa and professionals in the Diaspora.
Genesis Telecare Experience in Cameroon (Case study)

- Start Date: April 21, 2009
- Agreement between the Ministry of Public Health and Genesis Telecare
- Engagement of the Ministry of Economy and Ministry of Public Health
- From the starting date, approximately 12,000 patients benefited from the telemedicine services
  - Tele-cardiology at urban and remote sites
  - Tele-gynecology at urban and remote sites
  - Generalist consultations at urban and remote sites

What lies ahead...

Presentation: “Management of environmental risks and natural disasters - How can e-learning help?”

Input from Partners:
- National Disaster Management Agency Cameroon
- University of Yaounde I, Cameroon

"Enhancing collaborative research and development capacities of German and Sub-Saharan African partners on IWM”

Objective: bridging the communication gap between scientists/researchers, practitioners/decision makers and the local population in the field of integrated watershed management

Partners:
- United Nations University, Bonn / Germany
- Baden-Württemberg Corporate State University, Stuttgart / Germany
  - Kenyatta University, Nairobi / Kenya
- University Yaoundé I, Yaoundé / Cameroon
- University of Cape Town, Cape Town / South Africa

E-Learning for Human Security
Policy Dialogue & Education: Using the UN-Mandate at high-level conferences

22nd Conference of Ministers for DRR
14-16 April 2010, Nairobi, Kenya

RCMRD 7th Conference of Ministers
22 November 2010, Cape Town, South Africa
For further information

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“Education is the most powerful weapon which you can use to change the world.”
Nelson Mandela