

42nd International Postgraduate Course on Environmental Management for Developing Countries (EM42)



Faculty of Environmental Sciences

Application: 03 April - 05 June 2018

Notification of acceptance: September 2018

Course period: 10 January - 12 July 2019

This 6-month course covers environmental management as an integrated interdisciplinary field. The curriculum is organized in modules comprising issues of conservation and restoration ecology, water and atmosphere, soil and land resources, sustainable urban and regional development, waste management and circular economy, renewable energy and energy efficiency. The lectures are given by professors of Technische Universität Dresden as well as experts from various national and international institutions. A multitude of excursions are also part of the course to illustrate environmental problems and exemplify successfully integrated environmental management practices. Participants are required to carry out a profound research on a specific environment-related subject and present the results of this work in a symposium at the end of the course.

Objectives: Participants acquire the ability to develop interdisciplinary strategies for sustainable development and to take appropriate measures for an environmental protection that takes ecological, socio-economic and cultural aspects into account.

Target Groups: This course is particularly designed for decision-makers of public administration both at national and local level requiring an overall-competence in environmental matters. To gain the optimum from this training course, a first university degree (BA, BSc, e.g.) is absolutely indispensable.

The nomination by the delegating institution is a mandatory prerequisite.

Participants having completed this course successfully are awarded a Diploma in Environmental Management.

CHARACTERISTICS OF OUR COURSES

Our courses are designed to prepare the participants for their tasks of environment-related planning, coordination and management within ministries, agencies and local governments as well as NGOs of their home countries. The curriculum comprises lectures, seminars, site visits and excursions, with many opportunities for inter-sectoral exchange and for expanding professional networks.

All CIPSEM courses are open to nationals of developing countries, including emerging economies. The primary target group are professionals working in public administrations. As professional exchange among participants is an essential part of the training, we require a minimum qualification of a first university degree and at least two years of hands-on experience in environmental protection. The preferable age of participants is between 25 and 45 years. Applicants need to prove a good command of the English language.

APPLICATION & PARTICIPATION

Apply via online-application-platform during the application periods for each course:

www.cipsem-apply.de

Our International Steering Committee selects 21 participants for every course.

Participants stay in our comfortable **private studio apartments** and receive a stipend of **450 Euro per month** to cover basic living expenses. Flights, health insurance etc. are provided. Our course office provides manifold assistance.

CONTACT DETAILS

Head of Curriculum Committee
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ENVIRONMENTAL MANAGEMENT TRAINING PROGRAMME FOR DEVELOPING COUNTRIES

2018/19 courses

www.tu-dresden.de/cipsem

Technische Universität Dresden
CIPSEM – Centre for International Postgraduate
Studies of Environmental Management
supported by



Federal Ministry for the
Environment, Nature Conservation,
Building and Nuclear Safety



74TH SHORT COURSE ON INTEGRATED WATER RESOURCE MANAGEMENT – QUANTITY, QUALITY, AND HEALTH (SC74)

application: 26 February - 16 April 2018
course period: 30 August - 26 September 2018

Two-thirds of the global population already live in areas affected by water scarcity at least one month per year. About 500 Million people are living in regions, in which water consumption is more than twice the amount of locally available renewable water resources.

As the population increases and lifestyles change, the demand for water will rise during the next decades. Climate change is likely to exacerbate the gap between water supply and demand. Declining water quality due to the discharge of contaminated wastewater intensifies water scarcity, endangers human health and burdens ecosystems – and consequentially hampering sustainable economic development. Affordable supply and treatment options are urgently needed.

This course constitutes a contribution to capacity building for the protection and sustainable use of the available water resources as outlined in goal 6 of the agenda 2030. The course addresses both water quantity and quality issues within integrated water management, covering the scientific background, effective governance and appropriate technologies.

The training will cover

-a basic understanding of the water cycle and the climate system,
-integrated water resources management concepts
-the strongly interlinked aspects of water quality and quantity, with emphasis on health issues, including water reuse and recovery, pollutants of emerging concern, and nature-based solutions for improving water quality
-groundwater management, including managed aquifer recharge
-urban water (water infrastructure, water purification and distribution, wastewater treatment),
-water for agriculture
-water governance and monitoring frameworks

TARGET GROUPS

This course is designed to meet the professional demand of experts preparing and implementing policy decisions as well as decision makers working in environmental protection with a specific focus on safeguarding water resources. A corresponding professional background (e.g. geology, geography, hydrology, meteorology, hydro-engineering, planning, water management) is essential. The nomination by the delegating institution is mandatory.

Participants successfully completing this course will be awarded a Certificate of Proficiency in Integrated Water Resource Management - Quantity, Quality and Health.

75TH SHORT COURSE ON SUSTAINABLE CITIES

application: 06 March - 07 May 2018
course period: 10 October - 02 November 2018

Good environmental governance at global, regional, national and local levels is essential for achieving the Sustainable Development Goals (SDGs) embarked by the United Nations. By now, one-half of the world's population is living in urban areas. Already today 70% of the world's urban population lives in Africa, Asia and Latin America. The ecological footprint of cities as an indicator of sustainability continues to grow and demands an urgent rethinking of current urban development practices.

The course will focus on the interaction between all stakeholders in Local Agenda 21 processes, implementation of these processes and their impact on the environment. Engineering, as well as social, economic and legal aspects, will be covered by lectures and seminars. Interactive role-playing and group work will be used to demonstrate the importance of public participation in urban environmental governance. Besides the institutional framework of urban governance, the course curriculum includes modules on technical infrastructure development for energy, drinking water, wastewater, urban ecosystem services, transport and solid waste, as well as housing and spatial planning.

The lectures and workshops are mainly held by internationally renowned professors of Technische Universität Dresden as well as of the Leibniz-Institute of Ecological and Regional Development Dresden (IOER). Site visits will demonstrate accomplishments and challenges of urban environmental governance.

Objectives

Participants are expected to acquire state-of-the-art expertise as well as environmental communication and mediation skills to be able to contribute to sustainable development of urban communities and their sustainable management in the respective countries.

Target Groups

This course is designed mainly for managers and decision-makers with pertinent professional experience in urban land use management and planning. The nomination by the delegating institution is mandatory.

Participants successfully completing this course will be awarded a Certificate of Proficiency in Sustainable Cities.

More details: www.tu-dresden.de/cipseu
Impressions from previous courses:
>> www.cipseu.wordpress.com

76TH SHORT COURSE ON RENEWABLE ENERGY SOURCES AND ENERGY EFFICIENCY (SC76)

application: 06 March - 07 May 2018
course period: 14 November - 07 December 2018

Nowadays, one in five people still lacks access to modern electricity. In the light of population and economic growth, world energy demand will rise by an estimated two thirds in the next three decades. Thereby, the energy sector accounts for 60% of the man-made greenhouse effect. Hence, any serious action program to combat climate change has to attend to measures leading to improved energy efficiency as well as to the expansion of renewable energy such as solar power, wind power, biomass, geothermal power and hydropower. The course will focus on renewable energy technologies, their implementation and impact on the environment. Engineering, as well as social, economic and legal aspects, will be covered. Site visits to hands-on examples will demonstrate the potential and feasibility, but also the bottlenecks towards a sustainable energy supply based on "renewables".

Objectives

After the course, participants will have acquired professional skills and knowledge on assessing the energy demand and supply situation in their countries. They will be able to actively contribute to the drafting of appropriate national energy strategies, taking the renewable energy potential of their countries into account.

Target Groups

The course will be most beneficial to specialists at upper managerial level with profound professional experience in energy management, infrastructure development, public utilities as well as the power industry. The nomination by the delegating institution is a mandatory prerequisite.

Participants successfully completing this course will be awarded a Certificate of Proficiency Renewable Energy and Energy Efficiency.