ABOUT CIPSEM

CIPSEM stands for Centre for International Postgraduate Studies of Environmental Management. CIPSEM, attached to the Faculty of Environmental Sciences, is the institution at Technische Universität Dresden in charge of the UNEP/UNESCO/BMU international postgraduate training programme on environmental management. This programme is jointly organized and sponsored by:

- United Nations Environment Programme (UNEP)
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)
- Federal Environmental Agency (UBA)
- Technische Universität Dresden (TU Dresden)
- Dresden International University (DIU)

A Curriculum Committee established solely for this programme guarantees the close link to the many renowned institutes of the university.

This international environmental management training, offered by Technische Universität Dresden for the first time in 1977, has since developed into a programme of capacity building for sustainable development.

All courses are conducted in the English language. Therefore a good command of the English language is a prerequisite. The course curricula take the broad and interdisciplinary character of environmental management into account. In addition the participants are expected to contribute actively to the course work in particular by presenting case studies or course relevant environmental problems and projects of their countries. So far 1896 participants from 135 countries of Asia and the Pacific, Africa, Latin America and the Caribbean as well as Europe have successfully completed the various courses of this environmental training programme.

VENUE

The courses take place at Technische Universität Dresden, a university founded in 1928 and famous for its teaching and research traditions in environment related subjects. Dresden is the capital of the Free State of Saxony within the Federal Republic of Germany. It is a beautiful old city dating back to 1206, traditionally renowned for its arts and culture, sciences, but meanwhile also coined by its electronics industry.

Within this setting studies in Dresden surely will be of high cultural value. Here it is not only possible to visit a great variety of museums, but also to listen to exceptional concerts, enjoy extraordinary theatre performances and - of course - to visit the famous Semper Opera.

In addition, Dresden’s environs are very attractive, offering a multiplicity of natural beauty.

CIPSEM is situated not far from the centre of the city. Participants are accommodated in single study bedrooms on the 1st and 2nd floor of the student hostel “Zellescher Weg 41c”. The rooms are equipped with complete furniture, a computer connected to the internet, telephone, private shower, and a kitchenette with cooking utensils and a refrigerator. To facilitate the studies the centre also offers lecture and seminar rooms a reference library with international literature on environmental topics, access to the internet as well as a computer pool. Beside these services you may make use of the facilities for the local students such as the university’s computer pools and the well stocked main library (4.7 million books).

To encourage the course fellows to explore Dresden and its environs a ticket for using the public means of transport (buses, trams, suburban trains) in the whole region of Dresden is provided free of charge.

Moreover, the course secretariat will do its very best to support the fellows in their studies and to make them feel comfortable.

The famous skyline of the historical centre of Dresden

COURSES ON ENVIRONMENTAL MANAGEMENT

CIPSEM is offering various courses on environmental management: One main course on integrated environmental management of 6 months duration covering a broad range of environment relevant aspects and several short courses of about 2 to 4 weeks on specific topics which are of special concern for developing countries (e.g. water, soil, waste, biodiversity, mobility, tourism, urbanization, land-use, energy, climate change).
For these courses professors and experts from the various faculties of Technische Universität Dresden as well as from other German governmental and non-governmental environment related institutions, the German business sector but also experts from abroad are invited to convey and to share their knowledge and experience with the course participants.

Apart from the theoretical training there is a multitude of excursions to protected areas (e.g. National Parks, Biosphere Reserves), industrial plants equipped with pollution mitigating facilities, public utilities for energy, water supply, waste water treatment as well as waste recycling and disposal plants, environmental offices, agencies, administrations, etc. which round off the courses. They illustrate environmental problems and present ideas of successfully applied environmental management practices.

Participants acquire the ability to develop interdisciplinary strategies and take appropriate measures for a preventive and controlling protection of the environment, where ecological, socio-economic and cultural aspects are taken into account. The courses are designed to prepare the participants for their tasks of planning, coordination and management of the environment within ministries, agencies and local governments enabling them to actively support the environmentally sound and sustainable development of their countries and regions.

This training is open mainly to staff of public administration responsible for tasks in environmental protection, planning, management and economic development in ministries, agencies as well as municipalities, with a minimum qualification of a first university degree (e.g. BA, BSc).

An International Steering Committee consisting of representatives of each donor organisation selects the candidates. The Federal German Ministry for the Environment, Nature Conservation and Nuclear Safety awards up to 21 fellowships per course. This fellowship is sufficient to cover the travelling costs as well as the expenses during the stay in Germany. Accommodation in single study bedrooms in Dresden is provided at CIPSEM and is part of the fellowship.

Participants successfully completing the 6-month course are awarded a Diploma of Environmental Management; graduates from short courses are awarded a Certificate of Proficiency in the specialized field of study.

For further information, application documents or the current course programme, please visit our homepage (www.tu-dresden.de/cipsem) or contact the Course Secretariat:

CIPSEM

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TECHNISCHE
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DRESDEN
Centre for International Postgraduate Studies
of Environmental Management

ENVIRONMENTAL MANAGEMENT TRAINING PROGRAMME
AN OVERVIEW

WWW.TU-DRESDEN.DE/CIPSEM
59th Short Course on Nature Protection and Conservation of Biodiversity (SC59)

The conservation and sustainable use of biological diversity are essential elements of sustainable development strategies at all levels. But in spite of the 1992 UN Convention on Biological Diversity (CBD) as the key management instrument the current extinction rates are considerably greater than natural extinction rates and little progress has been made to meet the 2010 targets.

The course will therefore focus on the one hand on values of biodiversity, and causes as well as consequences of biodiversity loss and on the other hand on the CBD including the Conference of Parties (COP). The conservation of natural resources by sustainable land use management, by establishment of protected area networks and by ex situ activities will be covered as well. Issues for in-depth discussions are the Ecosystem approach, agricultural and forest biodiversity, the Global Strategy for Plant Conservation, invasive alien species and incentive measures.

Excursions to the International Academy for Nature Conservation on the Isle of Ylem (Baltic Sea), to various protected areas (Biosphere Reserve, National Park, SCI of NATURA 2000 of the EU), Botanical Gardens and Gene Banks are part of the curriculum and are to inform about latest developments in the field of biodiversity management. The lectures are mainly held by internationally renowned professors of Technische Universität Dresden as well as experts of the Federal Agency for Nature Conservation.

Objectives:
Participants are expected to acquire knowledge on international agreements on biodiversity and habitat conservation as well as on new concepts, methods and tools for ecosystem management. After having participated in this course they are able to actively contribute to the assessment, monitoring, conservation and sustainable use of biological diversity and thus to the implementation of the CBD in their respective countries.

Target Groups:
This course addresses mainly experts, managers and decision-makers working in fields of environment protection with special focus on nature conservation, ecosystem management and land use planning, including nature-compatible tourism development.

Award:
Participants successfully completing this course are awarded a Certificate of Proficiency in Conservation of Biodiversity.

Allowance:
EUR 450, sufficient to cover all basic living expenses during the course and additional allowances of Euro 50. to settle in, as well as Euro 50. to send home books, etc.

Duration: 3 September - 27 September 2013

60th Short Course on Climate Change Adaptation: The Soil-Water Nexus (SC60)

Water and soil are finite and vulnerable resources. In spite of the considerable progress since 1990, one third of the global population lives under water stress conditions and if there is no change in the present trends, by the year 2025 two thirds will have to face serious water problems. The availability of water in the face of increasing demand indicates the potential for disputes and conflicts over water resources. Furthermore, it is estimated that at least one fourth of the Earth’s useful land has been affected by severe degradation to a degree sufficient to reduce biomass production for food, feed, raw material and bio-energy. In the context of a continuously growing population this represents an enormous threat. While the world population has increased from 3 billion to 6.4 billion people over the last 4 decades, arable land has only increased by about 6%, mainly by converting forest to arable land, and land consumption by urbanisation additionally reduces available fertile agricultural sites. In addition, according to climate projections for the coming decades rainfall patterns will undergo distinct changes. Hence, extreme events such as droughts and floods will increase in intensity and frequency that requires adequate adaptation strategies. The course will focus on causes and dimensions of soil and water degradation, on adaptive conservation and reclamation technologies as well as on integrated soil and watershed management. Strategies for the protection of soils by sustainable land-use management will be discussed, principles of irrigation, reservoir design, and drinking water distribution will be highlighted. Excursions to various sites will inform about the latest developments in the field of soil and water management. Lectures are held by internationally renowned professors of Technische Universität Dresden and experts from other environmental institutions in Germany and abroad.

Objectives:
Participants are expected to acquire knowledge and skills to be able to contribute to the development of integrated sound strategies towards land-use, soil and water management.

Target Groups:
This course is designed mainly for managers and decision-makers with pertinent professional experience in environment protection with focus on soil, land-use, and water management. A corresponding professional background (geography, soil science, water management, etc.) is a prerequisite.

Award:
Participants successfully completing this course are awarded a Certificate of Proficiency in Climate Change Adaptation: The Soil-Water Nexus.

Allowance:
EUR 450, sufficient to cover all basic living expenses during the course and additional allowances of Euro 50. to settle in, as well as Euro 50. to send home books, etc.

Duration: 9 October - 8 November 2013

61st Short Course on Green Economy (SC61)

By 2050, it is estimated that the Earth’s population will reach more than 9 billion people. Economic growth will be necessary but cannot follow the path as we know it. Limited carrying capacity of the atmosphere, soil, water and land resources require rethinking economy. The UN-conference on sustainable development in June 2012 (Rio+20) suggests the development of a “Green economy”. It is seen to be an important instrument to achieve sustainable development.

With the majority of the global population living in urban areas already today, the urban economic sectors will play a key role in the transformation towards a green economy. The ecological footprint of cities as an indicator of sustainability demands urgent rethinking of current urban development practices. Both, the producing industries and services, as well as the public sector must develop strategies for sustainable use and consumption of energy and natural resources.

Besides the institutional framework of sustainable urban development and design, the course curriculum includes modules on technical infrastructure development for water, waste water, energy, transport and waste.

Excursions to various sites will inform about developments in the field of Green Economy. The lectures are held by internationally renowned professors of Technische Universität Dresden and experts from other environmental institutions in Germany and abroad.

Objectives:
Participants are expected to adopt new concepts for sustainable development and a green economy. After the completion of this course they should be able to actively contribute to the development of a sustainable resources management in their respective countries in general and to a green economy in particular.

Target Groups:
This course is especially designed to meet the professional demand of experts working in environmental management with special focus on urban design and development. A corresponding professional background (environmental management, geography, urban engineering, natural resources management, forestry) is a prerequisite.

Award:
Participants successfully completing this course are awarded a Certificate of Proficiency in Green Economy.

Allowance:
EUR 450, sufficient to cover all basic living expenses during the course and additional allowances of Euro 50. to settle in, as well as Euro 50. to send home books, etc.

Duration: 18 November - 13 December 2013
This 6-month course covers environmental management as an integrated interdisciplinary field. Therefore a broad range of topics is offered. The curriculum is organized in modules comprising issues of global sustainable development, environmental governance, environmental security, environmental economics and accounting, environmental awareness and public participation, applied ecology and ecosystem management, conservation of biodiversity, water management, recycling and waste management, energy for sustainable development, environmental assessment and environmental management systems, cleaner production and products and eco-efficiency, sustainable mobility, sustainable tourism as well as rural and urban land use planning. To provide survival knowledge of the German language a crash course is part of the programme. The lectures are held by professors of Technische Universität Dresden as well as experts from various national and international institutions.

A multitude of excursions to protected areas, industrial plants, public utilities for energy, water supply, waste water treatment, as well as waste recycling and disposal plants, environmental agencies and administrations etc. round off the course. They illustrate environmental problems and give ideas of successfully applied 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 research in a symposium at the end of the course.

Objectives:
Participants acquire the ability to develop interdisciplinary strategies for sustainable development and to adopt 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.

Award:
Participants having successfully completed this course are awarded a Diploma of Environmental Management.

Allowance:
Euro 450.- per month, sufficient to cover all basic living expenses during the course and additional allowances of Euro 100.- in January to settle in, as well as Euro 150.- in July to send home books, etc.

Duration: 14 January - 15 July 2014