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SHORT INTENSIVE COURSES

Before and during the internship students will be trained on the specific topics / methodologies related to the internship programme by “short intensive courses” organised by the hosting institution and online courses provided by the TAURUS consortium.

Course title: Urban environment assessment and urban landscape design

Linked to the Internship programme:

Urban Forest Management, Environmental Assessment and Landscape Design

Edition: 2019v1

Academic coordinator: Dr. Yuanchun Yu

Duration: 7 days

GENERAL OBJECTIVES

The course aims to improve participants' understanding of environmental assessment and landscape design knowledge and technologies. Examples of environment assessment and of landscape design in China, the China's experiences on environmental assessment and landscape design will also be introduced.

COURSE STRUCTURE

General introduction:

“Urban environment assessment and urban landscape design” will introduce the basic knowledge and methods of urban environment monitoring and evaluation, including urban soil environment investigation, sampling analysis, soil heavy metal and other pollutants analysis and evaluation; Investigation, sampling and analysis of urban atmosphere and water environment; Investigation and analysis of urban ecological environment. Urban landscape design technology and some typical cases in China.

Module 1: *Urban soil environment assessment*

Lecturer: Prof. Yuanchun Yu

Dr. Yuanchun Yu is a professor in Ecology of Biological and Environmental College, and the Director of Contaminated Soil Remediation and Environmental Protection Research Institute of



NFU. His teaching and research interests focus on Forest Ecology, Urban Ecology and Environment, soil fertility and tree nutrition, soil pollution and protection. He has presided over more than 30 research projects supported by the National Ministry of Science and Technology, State Forestry Administration, the National Natural Science Fund of China(NSFC) etc. He has published more than 150 papers in reputed journals.

Lecturer: Dr. Ruhai Wang

Dr. Ruhai Wang is an engineer in experimental analysis, especially has rich experience in soil and water sample analysis. He has published more than 10 papers in reputed journals.

Module 2: *Urban air and water environment assessment*

Lecturer: Dr. Lijie Xu

Dr. Lijie Xu is an associate professor in environmental engineering of Biological and Environmental College, Her teaching and research interests focus on water and air pollution prevention. She has published more than 50 papers in reputed journals.

Module 3: *Urban ecology and environment assessment*

Lecturer: Dr. Yongbo Wu

Dr. Yongbo Wu is an associate professor in Ecology and the Vice-Dean of Biological and Environmental College of Nanjing Forestry University(NFU).His teaching and research interests focus on General Ecology, Ecological Engineering, especially on habitat restoration of degraded forest ecosystem and Eutrophication Lake, tree physiological ecology as well. He has published more than 40 articles.

Module 4: Urban landscape design

Lecturer: Prof. Qingping Zhang

Dr. Qingping Zhang is a professor in urban landscape architecture. Her teaching and research interests focus on urban landscape design, urban green space system planning and design. She has finished more than 50 landscape design works in China.

Lecturer: Mr. Wuzho Zhang



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Mr. Wuzho Zhang is an engineer of urban landscape architecture and the General manager of Nan linYao landscape design co., LTD. He has finished more than 200 landscape design works in China.

EXPECTED LEARNING OUTCOMES

Through short-term course study, lab work, field practice and visiting of practice bases, students can master the technology and method of investigation, sampling and analysis of urban soil, water, atmosphere and ecological environment, be able to apply relevant technology to evaluate urban soil, water, atmosphere and ecological environment, master the basic technology and method of urban landscape design and carry out simple landscape design.

Practical and technical skills

Investigation and sampling methods of urban soil, water and air.

Professional skills

Analysis skills of soil properties, analysis skills of urban water and air quality. Assessment skills of urban soil, water, air and environment quality. General urban landscape design skills, etc.

TEACHING METHOD

Teaching method mainly include lecture, seminar, practice and visiting of relative enterprises.

The course is structured on a total of 4 class hours per day on the program topics, Additional 24 hours will be devoted to the visiting and practices of scenic spots, forestry and horticultural enterprises, nurseries, forest farms and production practice bases, for a total of 48 hours.

ASSESSMENT

The assessment will be based on the evaluation of short written answers to programme related questions.

Suggested literature

Hu Rongjia, Liu Kang. Environmental ecology. Wuhan: Huazhong University of science and Technology Press, 2018

Liu Xiaoming. Preliminary landscape design. Beijing: China Construction Industry Press, 2019