

SUMMER COURSE 2012

2-19 July 2012

Faculty of Civil Engineering
Universiti Teknologi Malaysia

Managing Water Environment in Tropical Countries



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

INTRODUCTION

This International Summer Course is organized by Department of Environmental Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM). This course will serve as one of UTM's elective courses for undergraduate students.

This course is designed to expose participants to the various aspects of water quality management for river catchments, reservoirs and lakes. It will emphasize on some key issues in monitoring and assessment of water quality and the impact of water pollution to the environment. The participants will find a wide range of material covered and its quantitative nature through project works will be of benefit to them.

Assessment will be based on both individual and group presentation related to the projects that are assigned within the duration of the program. In addition, assessment will also be made based on the prepared project report. At the end of the course, participants should be able to apply the knowledge through proper sampling and monitoring methods of river water quality. Participants will also be able to work in a team to plan mitigating and control measures for water pollution.



PROGRAMME DETAILS

Credits : 3 credits
Duration : 3 weeks
Dates : 2nd – 19th July 2012
Location : Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia
Fees : USD475 (including accommodation and transportation)

CONTACT DETAILS

Dr. Khalida Muda
Summer Course Coordinator
Email : khalida@utm.my
Mobile No.: +6013-7776169

Dr. Muhamad Ali Muhd. Yuzir
Email: muhdaliyuzir@utm.my
Mobile No.: +6019-7073567

En.Zulkifli bin Osman
Email: zulkifli@utmspace.edu.my
Mobile No.: +6019-7701110

LECTURE TOPICS

- Water management issues in developing countries
- Environmental water related issues
- Institutional & legislative framework
- Water pollution sources
- River rehabilitation
- Sustainable water management
- Water demand management
- Water quality monitoring
- Laboratory analysis



LEARNING OUTCOME

Participants are expected to be able to:

- Acquire fundamental knowledge on water resources and demand management in tropical countries
- Recognize the challenges of water quality management in tropical countries
- Describe the efforts (research and practices) in managing water quality in tropical countries
- Propose the best management practice in managing water in tropical countries

FIELD TRIPS

- River pollution: Melana River, Skudai River, Tukang Batu River
- Sampling area: UTM River
- Estuary: Merambong Seagrass
- River and Mangrove: Kuala Selangor Firefly Park
- River rehabilitation: Gombak River and Kelang River, Malacca River Cruise
- Flood control facilities: SMART Tunnel
- Man-made wetland: Putrajaya Wetland Park
- Nature river: Endau Rompin Nature Park Selai River

