

OceanTeacher Global Academy (OTGA)

Training Course: Geospatial Techniques for Coastal Mapping and Monitoring

26-30 November, 2018, Hyderabad, India

Overview

Geospatial science provides vital information on the sustainable use of the coastal resource and planning. It is an imperative use such techniques for managing densely populated coastal environs. This course provides an overview of GIS applications pertaining to coastal mapping. It will provide the basic GIS mapping techniques on coastal erosion, mangrove and coral reef using open source GIS tools. Course also includes data acquisition, processing, analysis and interpretation of coastal spatial data. In addition extensive hands on sessions will be conducted to use tools for preparation of thematic base maps for coastal monitoring.

Aims and Objectives

- To Provide an introduction to GIS for marine applications
- Utilization of open source spatial data
- To provide hands on GIS applications pertaining to coastal zones (Erosion, Mangrove, Coral Reef) using open source GIS tools
- Generation of thematic map

Learning Outcomes

- Knowledge on understanding of spatial data: raster and vector models
- Core tasks involved in the GIS analysis process including data acquisition, management, manipulation and analysis, and presentation and output
- Use of QGIS, GRASS tools and Plug-in tools
- Creating and editing spatial data
- Basic understanding of coastal and marine GIS data applications

Target Audience

Target audiences include, but are not limited to, the following:

- Ocean and coastal data managers
- Staff and researchers working on marine GIS applications
- University graduates

NOTE: priority will be given to participants originating from the **Indian Ocean Rim** countries. UNESCO is committed to promote gender equality. Therefore, applications from women are strongly encouraged.

Course Pre-requisites:

- Candidates should have a working knowledge of marine data and formats and preferably be working in institution which is responsible for the management of marine data
- This training course is not an introduction to GIS so candidates are expected to have some previous experience in the use of GIS
- Working knowledge of English
- Participants should preferably bring their own laptops.

A certificate of participation will be issued to all successful students.

Course dates:

26-30 November, 2018

Duration: 5 working days

(~ 30 hours classroom sessions, plus eventual online assignments)

Course Venue:

ITCOcean, INCOIS, Hyderabad, India

Lecturers:

- R S Mahendra
- N Kiran Kumar
- Prakash C Mohanty
- Sai P Bharadwaj
- H Shivakumar
- Chandra Sekhar V

Period for Applications:

12-30 September 2018

Application process:

Please fill in the online application form on
<https://otga.wufoo.eu/forms/sffl4tq19xhopa/>
or <https://bit.ly/2NCN5VF>

All information available and how to apply here:

<http://bit.ly/2ACZY9r>

No tuition fee applies. A limited number of fellowships is available.

Contacts:

OTGA India Regional Training Centre Coordinator:
Dr TVS Udaya Bhaskar itcoocean@incois.gov.in
OTGA Coordinator: Dr. Claudia Delgado
(c.delgado@unesco.org)

Useful sites:

www.ioode.org
www.oceanteacher.org
www.oceanexpert.net
<http://www.incois.gov.in/ITCOOcean/index.jsp>