

International Training Centre for Operational Oceanography (ITCOO)

INCOIS, MoES

Govt. of India, Hyderabad, India - 90

About ITCOcean

- Approved in Dec 2012 as a part of XII Five Year plan initiatives of INCOIS.
- First set of classes started in July 2013.
- Successfully conducted 32 courses, which includes both National and International.
 - 3 weeks – 1no., 2 weeks - 6 no., 1 week - 20 no., Few days - 2 no
- Participants from 36 countries (mainly Indian Ocean Rim) participated in the courses.
- A total of ~900 students (~750 Indian, ~150 Foreign nationals) were accommodated in these courses.

Category 2 Centre (C2C)

- ITCOO was Proposed as a UNESCO Category 2 Centre in, 29thSession of IOC Assembly 20-29 June 2017.
- Formally approved in November, 2017 and approved by Cabinet, Government of India.
- We are in the process of forming our Governing Council inviting members.
- After Iran, India is the only C2C centre in IOC category.

Countries benefitted by ITCOO courses



Academic Block



Hostel Blocks



ITCOcean Courses (year 2018)

- Training on **“Discovery and Use of Operational Ocean Data Products and Services”** was conducted during 18 – 22nd June, 2018. (Number of Participants - 24 (16-Indian, 08 – foreign))
- **“Integrated Intersessional Meetings and workshop of ICG/IOTWMS”** was conducted from 26th June – 14th July, 2018.
- Training on **“Data Visualization of Marine Met data (using Ferret)”** was conducted from 27 – 31st August, 2018. (Number of Participants – 24 (14-Indian, 10 foreign))
- Training on **“Operational Ocean Services, Data and Data Products”** was conducted from 18 – 19th August, 2018 (18 coast guard officials)
- **“Fish-catch Time-Series Forecasting with R”** was conducted under NOAA-MoES collaboration from 24th – 28th August, 2018 (24 Indian participants attended).
- **“INCOIS Service Utilization Training for Indian Air Force Trainee Officers”** was conducted for Indian Air Force trainees on 10th October, 2018 (5 IAF and 3 Sri Lankan AF trainees attended)





Programme Schedule: Geospatial Techniques for Coastal Mapping and Monitoring (using QGIS) 26 - 30 November 2018



Time	Day 1	Day 2	Day 3	Day 4	Day 5
09:30 - 11:00	Welcome and Course Introduction	Introduction to Coastal Mapping and Monitoring using RS and GIS (KH Rao)	Geospatial Applications of Mangrove and Coral Reef Mapping (SK Dash)	Hands on: Converting Tabular Data into Vector Format (Chandrashekhar V)	Map composition and generation of KML (Shivakumar H)
	Introduction to Remote Sensing and GIS (KH Rao)	Geospatial Applications of Hazard Mapping (Prakash Chandra Mohanty)	Hands on: Coral Reef Mapping (Shivakumar H)	Working with secondary data (sea level, NGDC data) (Chandrashekhar V)	Open source data and geospatial tools (N. Kiran Kumar)
11:00 - 11:30	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee
11:30 - 13:00	Introduction to QGIS Software and other open source software (N. Kiran Kumar)	Hands on: Coastal Risk Assessment (Tsunami) (Prakash Chandra Mohanty)	Hands on: Mangrove Mapping (Sai Bharadwaj)	Generation of DEM using ASCII data (Sai Bharadwaj)	Test
13:00 - 14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:30	Generation of basemap and Visualization of spatial data-I (Prakash Chandra Mohanty)	Hands on: Coastal Risk Assessment (Storm Surge) (Prakash Chandra Mohanty)	Generation of coral reef and mangrove maps (Prakash Chandra Mohanty)	Generation of contours, slope and aspect using DEM (Sai Bharadwaj)	Feedback and Closing Ceremony
15:30 - 16:00	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee
16:00 - 17:30	Generation of basemap and Visualization of spatial data-II (Prakash Chandra Mohanty)	Shoreline Mapping (Prakash Chandra Mohanty)	participant Presentation on Coastal Risk assessment	participant Presentation on Feature Extraction (classification technique)	Visit to INCOIS Facilities (Tsunami, PFZ, OSF Labs, Ground station)

34TH

AND COUNTING