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1. THEME OF THE COURSE:

Today the importance of offshore and coastal engineering cannot be overestimated.

With gradual progress of human settlements towards the coast, the importance and risk of coastal structures has vastly increased.

With greater emphasis on port and harbours and increased coastal shipping, especially the creation of minor ports, the importance of port and harbour engineering cannot be underestimated.

With oil exploration moving onto more deeper waters, the design of novel floating platforms is now a key issue.

Ocean energy is becoming more important by the day and new designs are being tried out to harness them. Amongst them wave energy devices are significant.

Oceanography and ocean circulation are assuming greater significance in today's environment due to extreme events occurring in the oceans such as large waves and cyclones. This impacts the design of coastal and ocean structures.

Lastly, the design of marine vehicles is no less important since most of the oil recovery from offshore basins is done from ships and offshore platforms. The transportation of oil is mostly done by oil tankers. A glimpse into the area of ship design and production will greatly help in the understanding of the complete marine activity.

The course addresses these major concerns.

2. The Major Topics covered:

- Offshore structure types
- Marine Operations
- Ocean energy devices
- Oceanography
- Ocean hydrodynamics
- Coastal engineering
- Port and Harbour engineering
- Offshore structure reliability
- Ocean circulation
- Marine design and Production
- Finite element methods
- Offshore structure motions

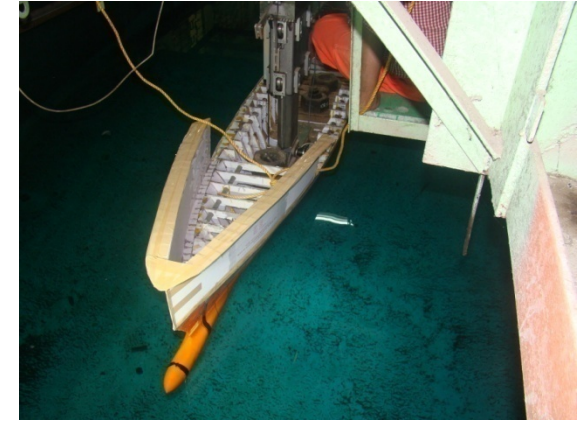
IIT KHARAGPUR

The institution has the largest campus amongst the sister institutions. Of late the campus has been extensively renovated and roads widened with a number of good restaurants. Participants are requested to bring umbrellas and raincoats with them, since July is a rainy season at Kharagpur.

OCEAN ENGINEERING & NAVAL ARCHITECTURE DEPARTMENT

The Department of Ocean Engineering was established in 1952 as the Department of Naval Architecture. It was the first of its kind in the country. Over the next 63 years of its existence, the Department has made significant contributions to the development of shipbuilding, shipping and marine related industries in the country. In addition to

teaching and training at the various levels of bachelors, masters and doctoral programs, the Department is also actively involved in various research and industrial projects sponsored by government, research organizations and industry.



ELIGIBILITY

The teachers, engineers, technologists and scientists from AICTE affiliated colleges/universities/NITs/IITs, industries and R&D organizations with background of ocean engineering and naval architecture and related fields may participate in this short term course.

HOW TO APPLY

Eligibility for Participation:

Category-1 (AICTE/TEQIP Sponsored Teachers)

Teachers from AICTE/TEQIP approved Colleges/Institutions/Universities. Participants should fill up the registration form given alongside, with a certificate from Head of the

institution stating he/she is sponsored. The course fee and accommodation charges are waived for such teachers. The number of seats for this category is **30**.

Category-2 (Non-AICTE/Industry participants)

Professional engineers from industry and other teachers can also apply in the enclosed form. The number of seats is limited to **20**.

Course fee for this category is **Rs.15000.00**

Category – 3 Students :

Students can enrol with fee **Rs.2000.00**

Accommodation and food can be availed of in the Institute and Visweswarya guest houses on actual payment basis for these categories.

Course fee includes lecture notes and refreshments. Since the number of seats is limited, participants are requested to apply early. Selection will be made on first come first serve basis. The course fee is to be paid by demand draft in favour of '**CEP-STC, IIT, Kharagpur**', payable at **Kharagpur**.

Send your applications in the form enclosed by **13th.July, 2015**.

COURSE COORDINATOR & MAILING ADDRESS

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Phone: +91-3222 – 283770

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Fax: +91-3222 – 255303

REGISTRATION FORM

Name: _____

Designation: _____

Sex (M/F): _____

Organization: _____

Highest Academic Qualification: _____

Address: _____

Phone/Fax: _____

Email: _____

Accommodation required, Yes/No: _____

Details of bank draft: Amount Rs. _____

Draft No. _____ Dated: _____

Issuing Bank: _____

Date: _____ Signature: _____

Place: _____

Certificate from organization:

Approval for AICTE/TEQIP sponsored candidates: We approve the above applicant is a faculty of our organization and recommended for the course.

Date: _____ Signature & seal of Head of organization

Short Term Course
On

OFFSHORE & COASTAL ENGINEERING

July 13 – 17, 2015

Continuing Education Programme of
Indian Institute of Technology
Kharagpur



Organised by Department of Ocean
Engineering & Naval Architecture
IIT Kharagpur – 721302, India

