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
institutions 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
Accommodation and food can be availed of in the Institute and Viseswarya guest houses on actual payment basis for this category.

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 on or before 5th June 2015. Participants will be informed of their selection by 19th June 2015.

COURSE COORDINATOR & MAILING ADDRESS

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Mobile: +91-9434007395
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