



KKR&KSR Institute of Technology and Sciences Vinjanampadu, Guntur, Andhra Pradesh-522017

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WEBINAR 2K20 REPORT

EVENT: Webinar

DATE: 4th July, 2020,

TIME: Saturday 2.00 PM to 04:00 PM Afternoon, IST.

VENUE: Go to webinar (ONLINE)

TITLE: "WEBINAR ON ROLE OF CIVIL ENGINEERS IN OFFSHORE
OIL & GAS INDUSTRY"

ORGANISED BY: Civil Engineering Department.

CONVENOR: Deepak.K ,Asst Professor .

DETAILS OF RESOURCE PERSONS:

- K Raghavender Offshore Structural Engineer 11 years of experience M.Tech, Structural Engineering IIIT Hyderabad .work experience in L&T offshore division for two and half years.Technip and magnificently worked for 6 years on projects for Clients based companies in India ,like Ongc ,Adnoc,Bp . he has been working in Rapid Solutions based in Azerbaijan for Onshore and Offshore Projects in Caspain region of Russia.
- Saisushank Botu Offshore Structural Engineer 10 years of experience M.Tech, Structural Engineering IIT Kharagpur . employee in Offshore industry worked for almost 11years about Detailed Engineering projects He is a passionate Engineer and a good mentor.Using his abundant wisdom he worked on the projects with prestigious clients like ADNOC, ONGC, BP..

KEY POINTS:

- What are offshore structures
- Why we need to build this structures
- How these structures are designed and built in the sea
- Who are the owners and designers
- Where are carrier opportunities

DEPARTMENT OF CIVIL ENGINEERING



Organising A National Webinar On
Role of Civil Engineers in Offshore Oil & Gas Industry

SPEAKERS OF THE DAY



SAISUSHANK BOTU
 Offshore Structural Engineer
 10 years of experience
 M.Tech, Structural Engineering
 IIT Kharagpur



K RAGHAVENDER
 Offshore Structural Engineer
 11 years of experience
 M.Tech, Structural Engineering
 IIT Hyderabad

FREE REGISTRATION

Join Us By
 Go To Webinar

DATE: Saturday July 4th
 TIME: Afternoon 2.00 to 4.00PM IST

E-CERTIFICATE WILL BE ISSUED TO ALL THE PARTICIPANTS

DO YOU KNOW ?

- # What are offshore structures?
- # Why we need to build these structures ?
- # How these structures designed and built in the sea ?
- # Who are the owners and designers ?
- # Where are career opportunities..?

JOIN US AND FIND ALL THE ANSWERS FOR THE ABOVE QUESTIONS

Convener : Deepak K Asst Prof
 Co convener : Karthikeyan K Asst Prof
 Co Ordinator : Dr M Ravindra Krishna.HOD CE

REGISTER FOR THE WEBINAR THROUGH THE BELOW LINK
www.kits/civil/webinar.com

EVENT DESCRIPTION:

- **Offshore construction** is the installation of structures and facilities in a marine environment, usually for the production and transmission of electricity, oil, gas and other resources. It is also called **maritime engineering**.
- Construction and pre-commissioning is typically performed as much as possible onshore. To optimize the costs and risks of installing large offshore platforms, different construction strategies have been developed.
- One strategy is to fully construct the offshore facility onshore, and tow the installation to site floating on its own buoyancy. Bottom founded structure are lowered to the seabed by de-ballasting,
- The size of offshore lifts can be reduced by making the construction modular, with each module being constructed onshore and then lifted using a crane vessel into place onto the platform. A number of very large crane vessels were built in the which allow very large single modules weighing up to 14,000 tonnes to be fabricated and then lifted into place.



"Offshore Construction Specialists is a 'One Stop Shop' for all your Engineering and Marine Construction needs"

Keith Jackson, Managing Director

MARINE AND GENERAL ENGINEERING

OFFICE & WORKSHOP FACILITIES

UTILITY BARGE & MULTICAT SUPPORT TUG

JACKET LAUNCHES

MARINE CONSTRUCTION MANAGEMENT

FLOATOVERS

PIPELINE SHORE APPROACHES

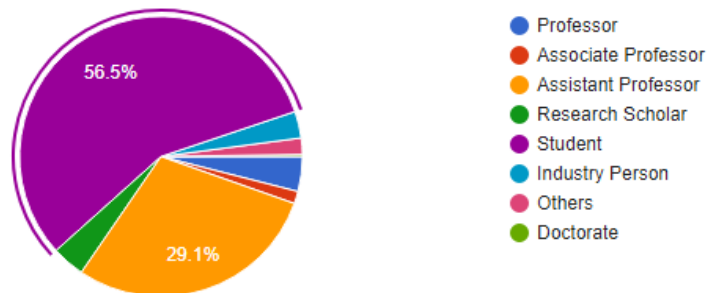
PIPELINE POST TRENCHING

PIPELINE PRE COMMISSIONING

Number of responses: 423 responses.

Designation

423 responses



- Oil platforms are key fixed installations from which drilling and production activity is carried out. Drilling rigs are either floating vessels for deeper water or jack-up designs which are a barge with lift able legs
- Both of these types of vessel are constructed in marine yards but are often involved during the construction phase to pre-drill some production wells.
- Other key factors in offshore construction are the weather window which defines periods of relatively light weather during which continuous construction or other offshore activity can take place. Safety is another key construction parameter.

3D Modelling

All physical objects including Structural items + obstruction volumes are modeled in 3D CAD system for the purpose of:

- ❖ Clash detection
- ❖ Generate Material quantities for Material Purchase Order
- ❖ Generate 2D drawings (and optical cutting data) for fabrication
- ❖ Generate Input to Weight Control Report
- ❖ Operability Review
- ❖ Planning of Installation

2:36:18 / 2:54:19

INTRODUCTION TO OFFSHORE STRUCTURAL ENGINEERING

The image is a screenshot of a video conference. On the left side, there is a vertical sidebar with five small video thumbnails of participants. The main area of the screen displays a presentation slide. The slide features a central image of a fountain pen writing the words "Thank you" in cursive on a piece of textured, light-brown paper. Below this image, two email addresses are listed: raghava.offshore@gmail.com and sai.sushank@gmail.com. At the bottom of the slide, there is a dark orange bar containing the text "INTRODUCTION TO OFFSHORE STRUCTURAL ENGINEERING" in the center, a volume icon on the right, and a play button icon on the left. The video player interface at the bottom shows a progress bar with the time "2:38:13 / 2:54:19".

At the end of the session resource persons clarified the doubts questioned by the participants and vote of thanks was delivered by Kvr.kartikeyan Asst professor .