Realise your Technical Aspirations

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A Finishing School for Computer Aided Structural Engineering

Regd. office
Opposite District Hospital
MP Krishnan Vaidyan Building
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ABOUT US

CASE Centre for Training and Skill Development is an unique initiative from experienced professionals in the field of Civil-Structural Engineering. Industrial demand for trained Civil-Engineers are on increase. We focus to enrich the Civil Engineering student resource to bridge the employability gap between the Industry and Academia with bespoke training programs in the field of Computational Structural Engineering.

CASE Centre offers finishing school programs in Computer Aided Structural Engineering for fresh Civil Engineering Graduates. These fast track Certification programs recognize students on Structural Engineering principles, nurtures them on Technology and CAE tools, provides them Domain knowledge with hands-on-training and grooms them with Engineering soft skills. In all, the program prepares them as Industry ready design engineers.

“We strive towards innovative pedagogy in improving the employable skills of Civil Engineering Graduates”

Venugopal S, Director & Principal Faculty
Graduated in Civil Engineering from CET(1993); Post Graduate in Structural Engineering from Indian Institute of Science Bangalore, served in the Engineering Department of major EPC companies viz. Bharat Heavy Electricals Limited BHEL, Technip Middle East, National Petroleum Construction Company Abudhabi, Sembawang Marine & Offshore Engineering Singapore.
STRUCTURAL ENGINEERING TRAINING PROGRAMS

ANALYSIS & DESIGN OF STRUCTURES USING STAAD.Pro & ETABS

The program aims at enhancing the employable skill sets of the candidate and enables him to pursue the structural designs independently. The engineer should have intimate knowledge with the software assumptions and limitations. Most importantly the engineer must know the differences in the physical structure and the analytical model.

This course gives a special emphasis on comprehension of the analytical model vis-à-vis the physical structure. Candidates are trained to perform structural analysis & design using STAAD.Pro & ETABS packages which are widely used by Structural Consultants and Engineering companies in India & abroad.

OIL & GAS – ANALYSIS & DESIGN OF OFFSHORE STRUCTURES

Working in the Oil and Gas industry is an exciting choice and a career with longevity. Analysis & Design of Offshore Structures for oil exploration is one of the most challenging and creative task for the contemporary Structural Engineer. Skilled Offshore Structural engineers are offered lucrative salaries in India & Abroad compared to other engineering sectors.

The course provides a comprehensive training package for the candidates aspiring to be an offshore Structural Engineer and also introduces them to SACS suite of Structural Analysis Package used extensively in Offshore Oil & Gas Industry.

LEARN TO....
IDEALISE
ANALYSE
INTERPRET
DESIGN &
BUILD
ANALYSIS AND DESIGN OF STRUCTURES USING STAAD.Pro & ETABS

Course Objective

➢ To provide students with a solid basis and enable them to perform the Structural Design independently through delivery of a balanced course program integrating theoretical engineering with practical application

➢ Enhancing the employable skills of the student and equip him to face the industrial job selection procedures confidently to pursue a career in Structural Engineering

STAAD.Pro V8i

- STAAD.Pro is a general purpose structural analysis program & enables the engineer to handle wide range of structures
- ETABS has emerged as an efficient and comprehensive software for the analysis & design of building systems
- Both STAAD.Pro & ETABS have inherent analytical capabilities and used extensively by Structural Consultants and Engineering Companies in India & abroad

Duration
60 hrs

Target Audience
B.Tech & M.Tech Students

Transform to a Competent Structural Engineer

Authorized Bentley Licensee for
STAAD.Pro Training
COURSE OUTLINE

- Structural modeling Techniques and Guidelines
- Gravity Loads and Application
- Wind loads and Application
  - Calculation of wind load for Open and Enclosed structures
  - Gust Effect Factor for Slender structures
- Seismic Loads and Application
  - Equivalent Lateral Force Procedure
  - Introduction to Dynamic Analysis
  - Modal Response Spectrum Analysis
  - Linear Seismic Time History Analysis
- Load Combinations
- Stability Analysis and Design
- Design of Steel Structures with case studies
- Design of Concrete Structures with case studies
- Finite Element Applications in Design
- Foundation Design
- Structural Detailing Principles
OIL & GAS - ANALYSIS AND DESIGN OF OFFSHORE STRUCTURES

ABOUT OIL & GAS CAREER

- It is estimated that nearly one-third of the world's oil comes from offshore field.
- Offshore oil and gas engineering demands highly skilled workforce for the execution of its projects and involve greater technical sophistication.
- Civil-Structural Engineer plays a vital role for the Engineering & Installation of Offshore structures for oil exploration, located in depths from shallow water to deep ocean.
- It is one of the most challenging and creative task for the contemporary Structural Engineer and requires better understanding of advanced analysis methodologies.
- Skilled Engineers are being wooed by the Oil & Gas Industry with lucrative offers.
- Major global Engineering & Construction Companies in the oil & gas sector have set up their engineering offices in Chennai, Bangalore, Mumbai & Hyderabad for execution of their global projects in view of tapping the highly skilled technical workforce in the Country.

Duration
Target Audience
80 hrs
B.Tech & M.Tech Students, Working professionals interested in job switch over to Oil & Gas

Course Objective

- Provide the basis for understanding the features of Offshore Structural Engineering in Oil & Gas Industry.
- Foster the acquisition of Analytical Skills related to Structural Engineering in Offshore Oil & Gas.
- Enhancing the employable skills required in the Oil & Gas industry to pursue a challenging career.
COURSE OUTLINE

- Introduction to Computational Structural Engineering
- Offshore Structures - Overview
  - Design Methodology
  - Gravity Loads & Environmental Loads on Offshore Structures
  - Materials & Corrosion
  - Codes & Recommendations used in Offshore Oil & Gas
- Analysis of Offshore Structures
  - Introduction to SACS suite of Offshore Structural Analysis Package
  - Geometrical Simulation of Offshore Jackets-Steel Template
  - Foundation Simulation- Non-Linear Pile Structure Interaction
- In Place (In-Service) Static & Dynamic Analysis of Offshore Structure
- Pre-Service Analysis of Offshore Structure. Typical pre-service conditions addressed are
  - Trailer Load out
  - Lift Analysis
  - Sea Transportation Analysis
- About Documentation (Drawings & Report Generation)
A LEAP FURTHER WITH...

CASE

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