Aryatech SACS Advanced Training Program

Aryatech Provide the training for SACS Software. Training session is 5 Days.

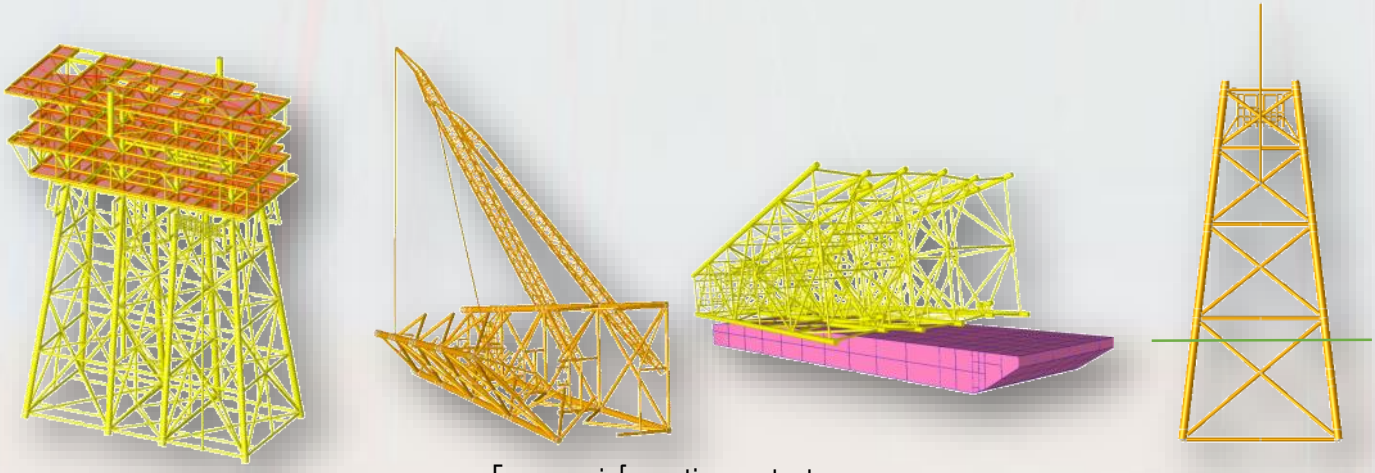
The training session provides a broad overview of the software and show new users where to find answer to questions and how to get started. The later session goes into more detail and show users how to solve specific problem. The software will be provided to the candidates on the course of training.

Certificates:

Upon completion of training, training certificates will be provided by Aryatech & Bentley

Training Material:

Software access and Training Material to each individual candidate will be provided by Aryatech Marine & Offshore.



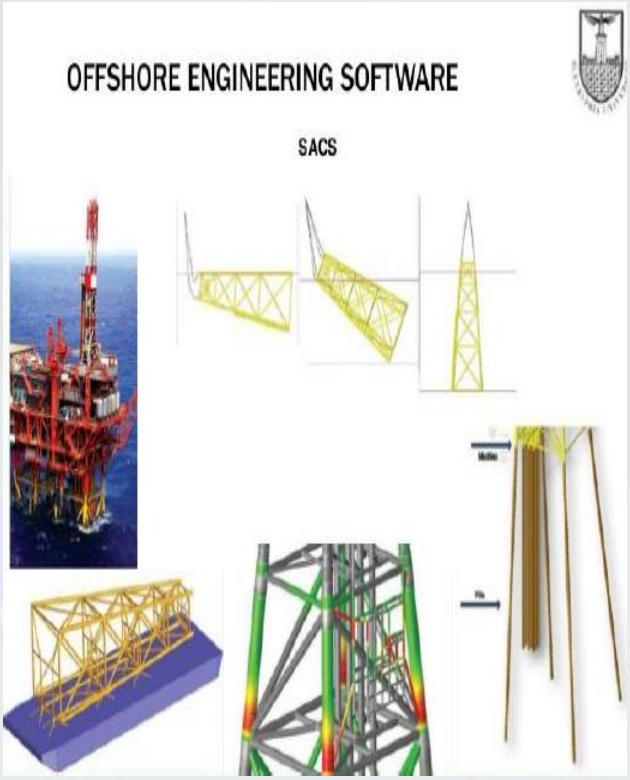
For more information contact :-
Aryatech Marine & Offshore Services Pvt. Ltd.
E-36, Hauz Khas, New Delhi:- 110016,
Contact No :- 011 46018102 / 103
Email :- Support@Aryatech.net , Website :- www.Aryatech.net

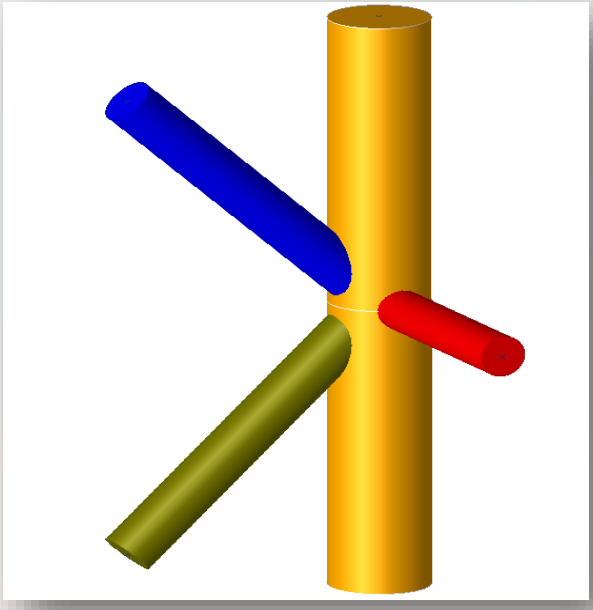
Aryatech Training Program On SACS Software

SACS TRAINING SCHEDULE

Theoretical Overview of Fatigue Analysis including Cyclic stresses, SCF, S-N curves etc.

- Codes & Standards Requirements
- Tubular & Non-Tubular Connections
- Structural Modelling Fundamentals
- Deterministic Fatigue Analysis
- Preparing model & PSI input file
- Preparing fatigue input file
- Carrying out the analysis
- Review of results





Deterministic vs. Spectral Fatigue Analysis

Spectral Fatigue Analysis

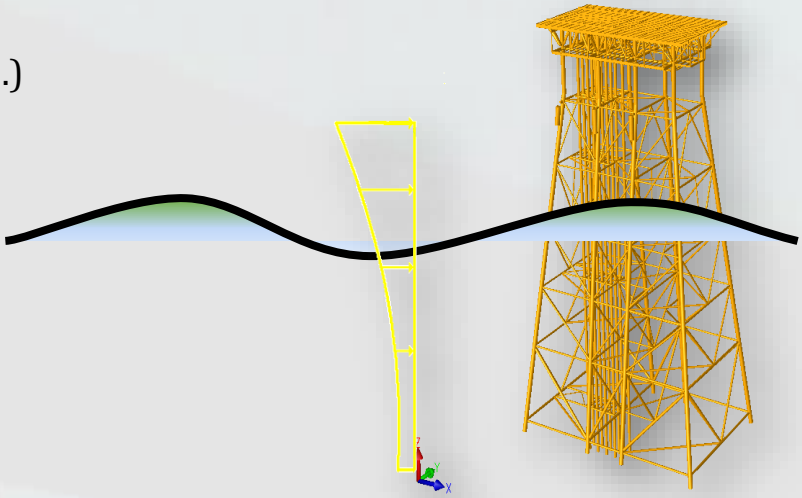
Extracting Mode Shapes

Master vs. Slave Degrees of Freedom

Lumped mass vs. Consistent mass approach

Linearizing the foundation & creation of superelement

SACS TRAINING SCHEDULE



Spectral Fatigue Analysis (contd…)

Generating Transfer Functions

Wave scatter data

Preparing Fatigue Input file

Carrying out Analysis

Reviewing & Redesigning Interactively

Fatigue due to Motion Induced Inertial Loads

Transportation Fatigue

Response Amplitude Operators (RAOs)

Introductory Demonstration of Response Amplitude

Operators (RAOs) , Tow Input file, Wave Scatter Data,

Fatigue input file, Performing the analysis, Review of results

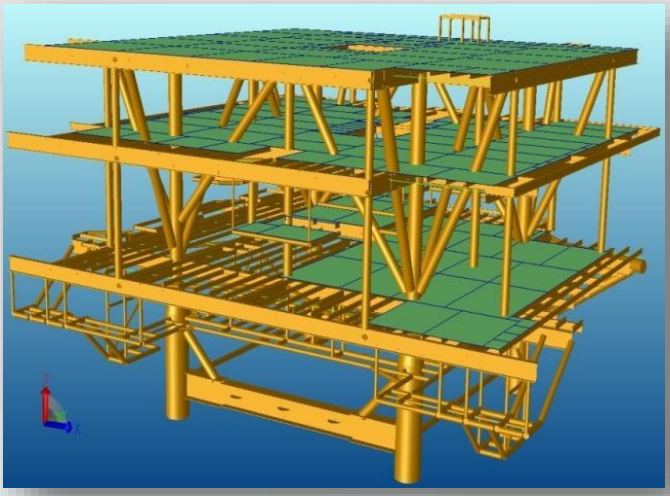
· Blast Analysis

· Dropped Object Analysis

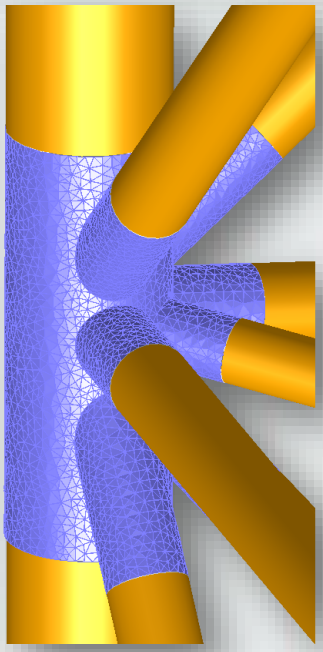
Aryatech Training Program On SACS Software

SACS TRAINING SCHEDULE

- Fatigue due to Wind Induced Fluctuating Loads
- Spectral Wind Fatigue
- Harris Force Spectrum
- Wind Spectral Data
- Wind Directional Distribution
- Preparing Input files
- Carrying out Analysis
- Reviewing of results

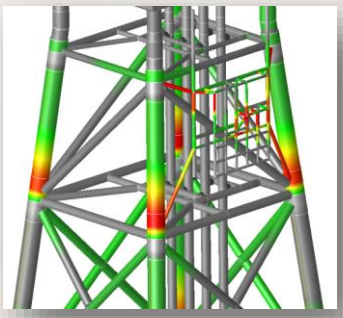


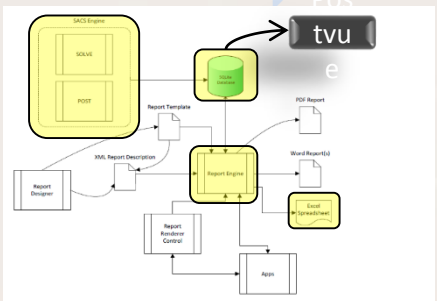
Accumulation of Fatigue Damage from various Fatigue Analysis



- **Full Plastic Collapse/Pushover**
- Collapse Basics
- Pushover Analysis – Theoretical Overview

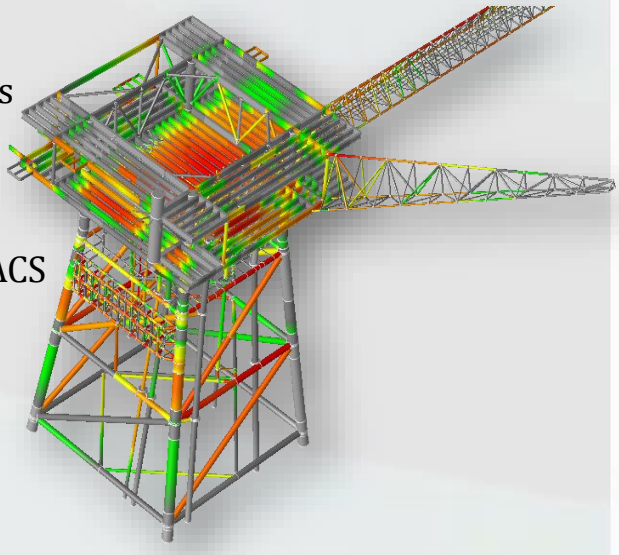
Modeling | Analysis | Design | Reporting | Collaboration



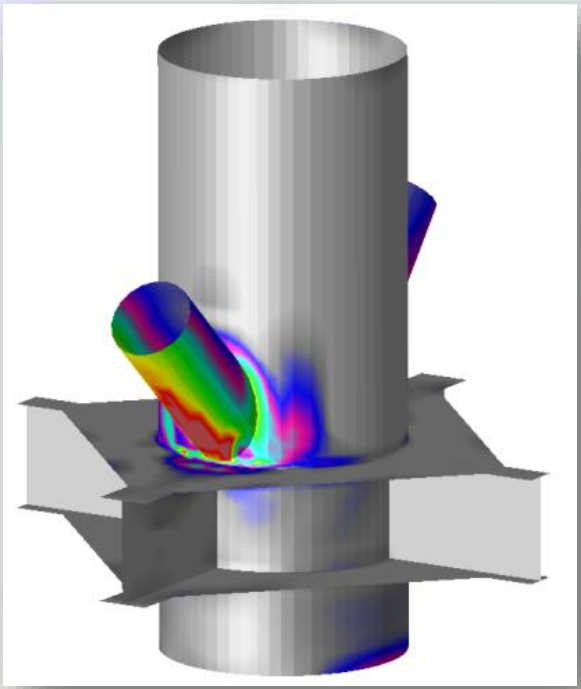


SACS TRAINING SCHEDULE

Full Plastic Collapse/Pushover (contd…)



- Reassessment of Existing Offshore Structures
- Codes & Standards Requirements
- Full Plastic Collapse/Pushover Analysis in SACS
- Joint flexibility options
- Preparing SAC IV Input file
- Preparing Collapse Input file
- Carrying out analysis
- Post-processing & Review of results



General Discussion/Doubts Session