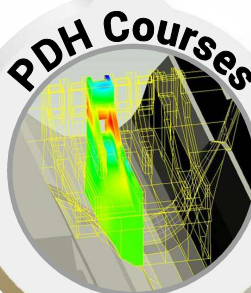
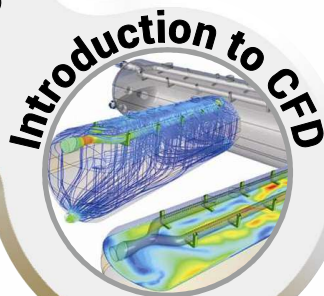
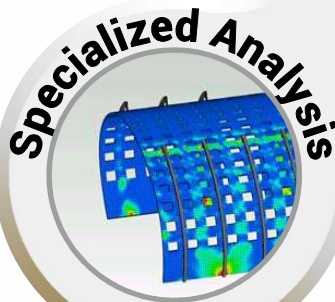
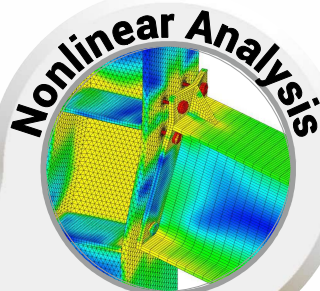
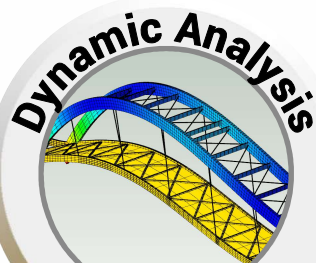


ICAEEEC

International online Computer Aided Engineering Education Center

Empowering CAE simulation e-learning in the industry



Attendees will be provided with a permanent student version of CAE software

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ICAEEEC International online

Start today and become a better engineer tomorrow

Introduction

Computer Aided Engineering encompasses a set of computer tools developed with the aim to help in the task of simulating, validating and optimizing engineering components in several fields such as aerospace, automotive, civil engineering, energy...

ICAEEEC courses focus on the more practical aspects and are programmed taking into account the experience acquired by **INGECIBER, S.A.** in different fields of the engineering. Learning these advanced tools can boost any engineer, architect or science graduate's professional career.

Methodology

The course uses an e-learning methodology, with prepared study materials and bibliography, tutorials, audiovisual resources, distance evaluation tests (mainly practical exercises using the corresponding CAE software) and evaluation exams.

Schedule

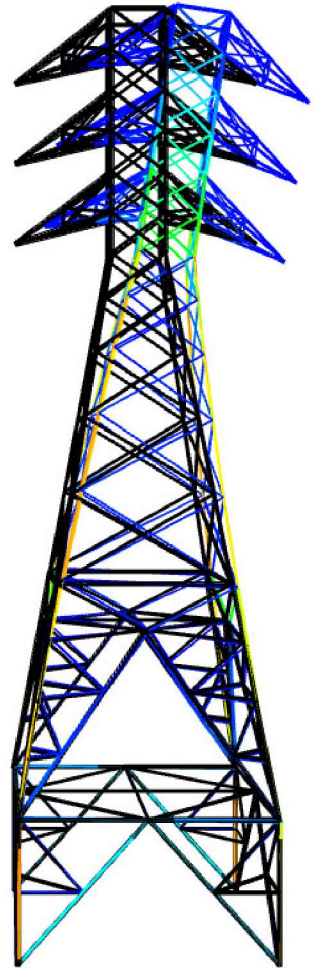
ICAEEEC has established the open enrollment/on-demand registration procedure, allowing students to begin any course at their most convenient time.

Course duration: 1 to 6 weeks , fully flexible, as no specific delivery dates are established.

Evaluation

Student evaluation will be conducted through:

- ⚙ Practical continuous assessment CAE exercises.
- ⚙ Final exam consisting of a practical exercise and a test



Software supplied

- ⚙ ANSYS
- ⚙ Patran Nastran
- ⚙ ANSYS CFX
- ⚙ XFlow
- ⚙ CivilFEM Powered by Marc
- ⚙ CivilFEM for ANSYS

Patran, Nastran, Marc, ANSYS, CivilFEM, ANSYS CFD, XFlow are registered trademarks of their corresponding manufacturers

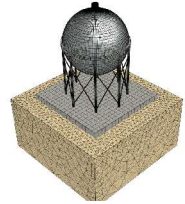
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CAE Education Center

E-learning courses

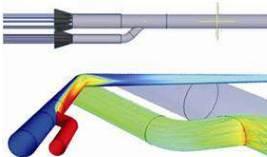
Introduction to FEM

The objective of this course is to introduce the students to the use of Finite Element analysis software so that they may acquire the basic skills to be able to work with this type of analysis during professional practice using any of the following CAE software: ANSYS, Patran Nastran, XFlow, CivilFEM powered by Marc or CivilFEM for ANSYS.



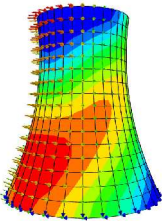
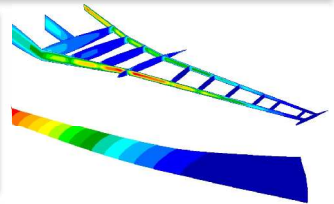
Introduction to CFD

This program gives students access to professional training in Computational Fluid Dynamics using finite volume method software (ANSYS CFX) or meshless particle based approach discretization scheme, focusing on highly transient flows (XFlow). The goal of this course is to give students a complete understanding of software and to provide them with the necessary knowledge to use it. The software can be applied directly at engineering and manufacturing companies, scientific research institutes and other advanced studies.



Dynamic Analysis

The objective of this course is to introduce students to dynamic analysis using Finite Elements software supplied, enabling them to obtain the necessary skills to be able to use the method and these CAE softwares professionally.

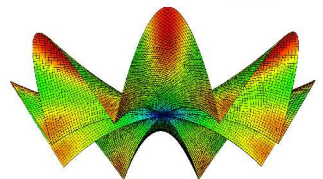


Non-linear Analysis

The objective of this course is to provide the adequate theoretical and practical background to analyze non-linear problems through numerical simulations based on the finite element method with CivilFEM Powered by Marc.

CivilFEM Specialized Analyses

- ⚙ Bridges and Civil Non-linearities with CivilFEM for ANSYS.
- ⚙ Pre-stressed Reinforced Concrete with CivilFEM for ANSYS.
- ⚙ Geotechnical Analysis and Foundations with CivilFEM for ANSYS.



E-learning PDH courses

Professional Development Hours (PDH) courses

Many state licensing boards in USA require that engineers maintain and improve their skills through continuing education courses called PDH (Professional Development Hours) each year as a requirement for license renewal. ICAEEEC PDH courses have 14 PDH and are supported by **CAE Solutions LLC.** and **Ingeciber S.A.** These courses are taught using CivilFEM Powered by Marc and attendees will be provided with a permanent student version of this software.

Intro to FEM Analysis courses

Basic Introduction to FEM Analysis
Advanced Introduction to FEM Analysis

Dynamic Analysis courses

Modal analysis
Transient analysis
Harmonic analysis
Spectrum analysis

Non-linear Analysis courses

Geometric non-linearity
Geometric NL Buckling & Collapse
Material non-linearity
Contact non-linearity
Activation & Deactivation non-linearity

Certification: Granted by **CAE Solutions LLC.** and **Ingeciber S.A.**



Certification

Certification will consist of a diploma from ICAEEEC & Ingeciber indicating successful completion of the course by the student as well as the grade obtained in the corresponding evaluation exams.



Fees

Standard courses: 450€
PDH Courses: US\$250



Contact

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28035 Madrid, Spain

Phone: +(34) 91 386 22 22

Email: secretariat@icaeec.com



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