

**EU Tutoring Course on “NPP mechanical systems structural analysis and codes”**

**Duration**

2 M

**Content**

The tutoring course will address the conceptual design of mechanical structure, piping and main components of a NPP and their safety and functional requirements.

It will include: the basis for safety and seismic classification, the associated design and operational requirements, the seismic design and design under dynamic loads during accident conditions, introduction to and application of structural codes for independent assessment of their behaviour in normal, transient and accident conditions.

Design basis and requirements for application of the Leak Before Break criteria and the “break exclusion concept” in some safety piping will be covered.

Familiarization with regulatory requirements and applicable standards.

**Achievements**

Consolidate knowledge of safety requirements and design of main components, mechanical systems, equipment and piping. Familiarization with available computer codes for regulatory independent assessment.