

Lecture 1: Introduction to ANSYS

16.0 Release

A visualization of fluid flow, showing blue, wavy, translucent streamlines that represent the movement of a fluid around an object, likely an airfoil or a similar aerodynamic shape.

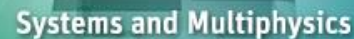
Fluid Dynamics

A 3D model of a mechanical gear or a similar component, rendered in a dark purple color. The model is shown with a bright, glowing white light source emanating from its center, highlighting its structural form.

Structural Mechanics

A visualization of electromagnetic fields, showing concentric green and white rings that represent the propagation of waves or the distribution of magnetic flux around a central point.

Electromagnetics

A 3D visualization of a complex system, featuring several blue, translucent cubes and rectangular blocks arranged in a staggered, overlapping fashion. The blocks are illuminated from within, creating a glowing effect that suggests a multi-physics simulation.

Systems and Multiphysics

Introduction to ANSYS Meshing

Agenda

Session	Lecture/Workshop	Time
Morning	Lecture 1 – Introduction to ANSYS Lecture 2 – Introduction to Workbench Lecture 3 – Introduction to Meshing	08:30 - 09:10
	Workshop 3.1 – ANSYS Meshing Basics	09:10 – 9:35
	Lecture 4 – Meshing Methods	9:35 – 10:05
	Workshop 4.1 – Mesh Methods	10:05 – 10:45
	Lecture 5 – Global Mesh Controls	10:45 – 11:15
	Workshop 5.1 – Using Global Mesh Controls	11:15 – 12:00
Lunch		12:00 – 12:30
Afternoon	Lecture 6 – Local Mesh Controls	12:30 – 13:00
	Workshop 6.1 – Using Local Mesh Controls	13:00 – 13:45
	Lecture 7 – Introduction to Advanced Topics	13:45– 14:35
	Advanced Workshops (Any 2 or 3): 7a-Mixing Tank, 7b-Automotive Aero, 7c-Combustion Chamber (2d), 7d-Assembly Meshing, 7e-Manifold	14:35 – 16:30



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75
locations

40
countries



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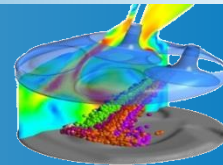
Breadth of Technologies



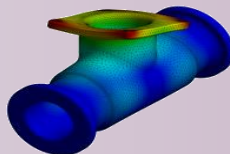
Fluid Mechanics:
From Single-Phase Flows



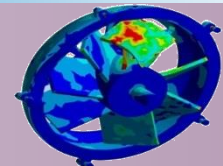
To Multiphase
Combustion



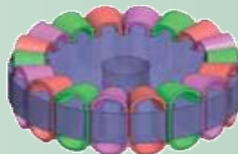
Structural Mechanics:
From Linear Statics



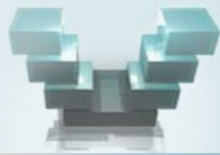
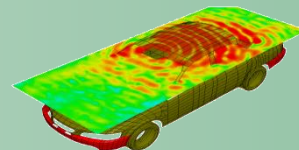
To High-Speed Impact



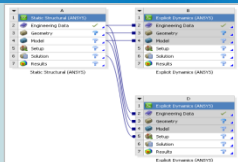
Electromagnetics: From
Low-Frequency Windings



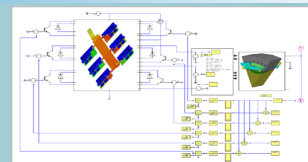
To High-Frequency
Field Analysis



Systems:
From Data Sharing



To Multi-Domain
System Analysis





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Mesh = Meshed = Meshing
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You want a meshing tutorial for ANSYS Meshing and your search has results for other products that are not of interest to you; by selecting the product facet “ANSYS Meshing” you can narrow down your results further.

Product Family

Structural Mechanics (60)

Fluid Dynamics (57)

Workbench (20)

Application Specific (18)

General (6)

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Product

ANSYS Mechanical APDL (54)

ANSYS Fluent (29)

ANSYS CFX (18)

ANSYS Polyflow (11)

ANSYS TurboGrid (7)

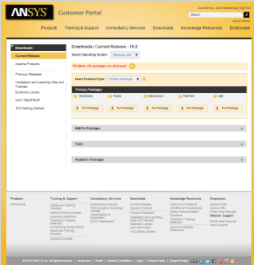
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