

ZENUS INFOTECH INDIA PVT. LTD.
CURRICULUM OF ANSYS

Course Duration: 6/8 Weeks*

Session 1	<ul style="list-style-type: none"> • Introduction to FEM/FEA concepts • Introduction to Ansys • Creating geometry • Generation of key points, lines,
Session 2	<ul style="list-style-type: none"> • Areas & volumes • Extruding areas, lines & key points • Work plane management, coordinate systems. • Editing geometry • Performing Boolean operations (Add, subtract, intersect)
Session 3	<p style="text-align: center;">Boolean operation- (divide, glue, partition,</p> <ul style="list-style-type: none"> • overlap) • Move/modify, • Copy& reflect geometries. • Check geometric properties. • Import geometry from other CAD software
Session 4	<ul style="list-style-type: none"> • Material Definition • Explaining about nodes & elements • Meshing • Types of mesh-Free& mapped meshing • Explaining about mesh attributes. Size controls • Meshing key points, lines, areas & volumes.
Session 5	<ul style="list-style-type: none"> • Mapped meshing. • Mesh concatenation • Mesh extrusion, • Mesh sweeping. • Hexa – tetra conversion • Define loading & boundary conditions. • Different types of loads • Different types of constraints.
Session 6	<ul style="list-style-type: none"> • Introduction to Static Structural Analysis • Beam analysis, • Truss analysis • Stresses in bars •

Session 7	<ul style="list-style-type: none"> • Stresses in composite bars, strain energy calculations • Finding out reaction solutions • Modal analysis
Session 8	<ul style="list-style-type: none"> • Transient Dynamic analysis • Over view on Non-linear analysis, • Thermal analysis
Session 9	<ul style="list-style-type: none"> • Coupled field analysis • APDL Concepts • Advanced post processing • Report generation
Session 10	<ul style="list-style-type: none"> • Modal Analysis • Impulse Loading • Sinusoidal Loading • Harmonic Loading
Session 11	<ul style="list-style-type: none"> • Transient Heat Analysis
Session 12	<ul style="list-style-type: none"> • Fluid Dynamics
Session 13	<ul style="list-style-type: none"> • Test & Review.

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