Govt. Recognised
INFOBYTE®
CAREER INSTITUTE

ANSYS WORKBENCH
(60 Hrs.) 30 Days

Day	Day wise Topic
1	☐ Introduction to FEM Techniques ☐ Introduction to ANSYS Workbench ☐ Graphical User Interface ☐ Analysis procedure
2	Engineering Data ☐ ANSYS Engineering Data source library ☐ Assigning new material ☐ Importing Material ☐ Creating user material ☐ Adding new material in current library
3	ANSYS Design Modeler ☐ Introduction to Design Modeler ☐ GUI of Design Modeler ☐ Planes and sketches ☐ Sketching ☐ 3D Modelling ☐ 3D Features to create solids
4	ANSYS Design Modeler ☐ Patterns ☐ Symmetricity ☐ Lines and surfaces ☐ Boolean operations ☐ Body transformations
5	Static structural Analysis ☐ Introduction to Static Structural Analysis ☐ Loads and Supports systems ☐ 1-D Analysis ☐ Viewing Results ☐ SFD & BMD ☐ 2-D Analysis
6	Static structural Analysis ☐ Hydrostatic pressure ☐ Remote Force ☐ Applying Moments ☐ Bearing Loads
8	Steady State Thermal ☐ Conduction, Convection and Radiation ☐ Heat flux Internal heat generation ☐ Functional boundary condition
9	Thermal - Structure Coupling Project
10	ANSYS Meshing I ☐ Introduction to FEM Techniques ☐ Global Meshing controls ☐ Local Meshing controls ☐ Generating Mesh ☐ Define element size ☐ Relevance center and number
11	Modal (Vibration Analysis) ☐ Basics of free vibration ☐ Natural frequency ☐ Number of mode shapes ☐ Modal Results
12	Explicit Dynamics ☐ Impact test analysis ☐ Crash test ☐ Non-linear and linear material failure ☐ Tensile test
13	Doubt Session
14-15	Linear Bucking
16-18	Rigid Dynamics
19	ANSYS Meshing II
20	Design Optimization ☐ Parametric Study
21	Design Optimization ☐ Design of Experiment ☐ Screening Method to optimize design
22	Topology Optimization
23	Advance Post Processing ☐ Viewing results ☐ Scoping results ☐ Exporting results ☐ Plotting graphs ☐ ☐
24-25	Transient Structure and Thermal Analysis
26-30	Major Project