

5 Day Post-Sale Training on ANSYS Electronics Desktop – HF & LF Electromagnetics

Day	Topics	Sub Topics	Lab Session
High Frequency Electromagnetics			
Day 1	<i>Introduction to ANSYS HFSS</i> Meshing and Mesh Operations	Introduction to HFSS and its Capabilities	<ul style="list-style-type: none"> Design and Analysis of a simple Patch Antenna with all the results Wired Dipole design and Analysis
		ANSYS Electronics Desktop, 3D Design Set up, 3D Modeler, Adaptive Meshing	
		Introduction to Adaptive meshing, number of passes, Convergence criteria, Max ΔS value	
Day 2	HFSS <i>Boundary Conditions and Excitations</i>	Perfect E Boundary, Radiation Boundary (ABC), Perfectly Matched Layers (PML)	<ul style="list-style-type: none"> UWB Antenna Design and Analysis Frequency selective surfaces
		HFSS Solution Types, Excitations: Wave Ports, Lumped Ports	
Day 3	HFSS <i>Post Processing & Results</i>	Post Processing Quantities, Formats, Creating Reports & Report Editor, Field Overlays, Radiation Computation, Animating Field Quantities Parametric Analysis & Optimetrics	<ul style="list-style-type: none"> Bandpass Filter Design in 3D Layout MIMO Antenna Design
Low Frequency Electromagnetics			
Day 4	Introduction to ANSYS Maxwell <i>Geometry Operations</i>	Maxwell Solution Method, Error Evaluation, Maxwell Design Types, RMXprt, Maxwell 2D, 3D, GUI, Solvers, File Structure, Directories, Libraries	<ul style="list-style-type: none"> Transformer Design Linear Actuator Design
		Maxwell Geometry, Parametrization, 2D and 3D Geometry Transfer, Simulation Region, CAD Integration	
Day 5	Electrical Machines - Analysis & Circuit Design <i>RMxpert & Simplorer</i>	Maxwell – Mesh Operations, Static Electric & Magnetic Solvers, Transient Solvers,	<ul style="list-style-type: none"> Rotating Machines Working with Simplorer & Workbench Demonstration
		Maxwell Post Processing, Solution Data, Field Overlaps, Report Plots, Fields Calculator, Output Variables	