SIMULATION LAB

II Semester: AEROSPACE ENGINEERING

Course Code	Category	Hours / Week			Credits	Maximum Marks		
		L	T	P	C	CIE	SEE	Total
B27610	CC	-	-	4	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 36				Total Classes:36		

The student shall be asked to solve various problems in aerospace application using MATLAB and ANSYS

OUTCOME:

The student will gain hands on experience in MATLAB and ANSYS, and learn to solve numerically the practical boundary value problems

LIST OF EXPERIMENTS

Grid Formulation and Analysis Using Matlab

1. Formation of 1D grid and 2D grid
2. Solution of 1D wave equation
3. Solution of 2D wave equation

Analysis of flow over submerged body using ANSYS

4. Flow over symmetrical section
5. Flow over unsymmetrical section

Thermal Analysis using ANSYS

6. 2D heat problem
7. Diffusion analysis