17CHU511	MATHEMATICS-I PRACTICAL	4H – 2C

Instruction Hours / week: L: 0 T: 0 P: 4	**Marks:** Internal: **40**	External: **60** Total: **100**
		End Semester Exam**:** 3 Hours

Course Objectives

This course enables the students

- To develop skills for quantitative estimation using computer language.
- To code various differentiation and integration methods in a modern computer language.
- To plot the graphs of function

Course Outcomes (COs)

On successful completion of this course, the student will be able to

- Solve complicated matrix related problems like matrix inverse and matrix multiplication.
- Acquire problem-solving skills through computer programming.
  Plot various functions and parametric curves.

List of Practical

1. Matrix addition.
2. Matrix multiplication.
3. Inverse of a matrix.
4. Transpose of a matrix
5. Plotting of graphs of function $e^{ax + b}$, log(ax + b), 1/(ax + b), sin(ax + b), cos(ax + b), |ax +b| and to illustrate the effect of a and b on the graph.
6. Plotting the graphs of polynomials of degree 4 and 5 and the derivative graph.
7. Sketching parametric curves. (Eg. Trochoid, Cycloid, Epicycloid, Hypocycloid).
8. Obtaining surface of revolution of curves.

Signature of the HOD