MATHEMATICS-II - PRACTICAL

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

Course Objectives

Semester-II 19CHU611

This course enables the students to learn

- To solve simultaneous linear algebraic equations using various methods.
- To evaluate definite integrals using numerical techniques.
- Problem-solving through (computer language) programming.

Course Outcomes (COs)

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

- Familiarize with the programming environment for numerical methods.
- Develop proficiency in skills to solve the algebraic equations.
- Evaluate the definite integrals using computer programming techniques

List of Practical

- 1. Compute Fourier Coefficients.
- 2. Solution of simultaneous linear algebraic equations Gauss Elimination method
- 3. Solution of simultaneous linear algebraic equations Gauss Jordan method
- 4. Solution of simultaneous linear algebraic equations Gauss Jacobi method
- 5. Solution of simultaneous linear algebraic equations Gauss Seidal method
- 6. Numerical Integration Simpson's one third rule
- 7. Numerical Integration Simpson's three eighth rule
- 8. Numerical Integration Trapezoidal rule