



Savitribai Phule Pune University

(Formerly University of Pune)



Styaniketan's

**Adv. M. N. Deshmukh Arts, Science and Commerce
College Rajur**

B.Sc. in Mathematics

(Faculty of Science & Technology)

Course Outcomes

T.Y. B. Sc. Mathematics

(As Per National Education Policy-2020)

Course Outcomes

Semester-V

MTS-341-MN : A) Integral Transform

Course type: Minor (Theory) No. of Credits: 2

Course Outcomes

1. Remember: Recall definitions and properties of Laplace transforms, Fourier series, and Fourier transforms, including standard formulas and theorems.
2. Understand: Explain concepts of piecewise continuous functions, exponential order, and Dirichlet conditions, and apply them to Laplace and Fourier transforms.
3. Apply: Apply Laplace transforms to solve linear differential equations, and use Fourier series to represent periodic functions.
4. Analyze: Analyze properties of Laplace and Fourier transforms, including shifting theorems and convergence of Fourier series.
5. Evaluate: Evaluate Laplace transforms of derivatives, inverse Laplace transforms, and Fourier transforms of standard functions.
6. Create: Apply Laplace and Fourier transforms to solve real-world problems, including initial value problems and periodic function representations.

MTS-341 MN : B) Operations Research

Course type: Minor (Theory) No. of Credits: 2

Course Outcomes

1. Remember: Recall concepts of linear programming, transportation, and assignment problems, including methods like Simplex, Big-M, and Hungarian.
2. Understand: Explain formulations and mathematical models of linear programming, transportation, and assignment problems.
3. Apply: Apply methods like Simplex, Big-M, North West Corner Rule, VAM, MODI, and Hungarian to solve linear programming, transportation, and assignment problems.
4. Analyze: Analyze types of solutions and optimality of linear programming, transportation, and assignment problems.
5. Evaluate: Evaluate solutions to linear programming, transportation, and assignment problems using Python programming.
6. Create: Formulate and solve real-world problems using linear programming, transportation, and assignment models, and implement solutions using Python.