Govt. College, Amargarh

Syllabus for Operation Research

Mathematics Department

Duration: - 1 Month

Sr. No.	Topics
1.	Introduction to Operations Research
2.	Linear Programming: Formulation and Graphical Solution
3.	Linear Programming: Simplex Method
	Transportation and Assignment Problem
	Decision Theory: Decision Trees and Expected Value
	Game Theory: Basics and Applications

Learning Outcomes:-

- Understand the foundational concepts and principles of Operations Research.
- Formulate and solve linear programming problems using graphical and simplex methods.
- Analyze and solve transportation, assignment, and network optimization problems.
- Apply integer programming techniques and inventory management models to realworld scenarios.
- Evaluate queuing systems, make informed decisions using decision trees, and analyze strategic interactions using game theory.

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• Evaluation Process:-

Grading Categories

- a) Group Discussion (Interactive Session) 60%
- b) Assessments 30%
- C) Class Participation 10%

Grading Scale

100-90% A 89-80% B 79-70% C 69-60% D 59-0% E

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