



# GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

(Declared as Deemed to be University u/s 3 of UGC Act, 1956)

Visakhapatnam | Hyderabad | Bengaluru

Accredited by **NAAC** with **A++** Grade

Website: [www.gitam.edu](http://www.gitam.edu)

## GITAM SCHOOL OF BUSINESS

Department of Operations & Supply Chain

PhD in Management: Operations & Supply Chain

PhD Entrance Test Syllabus - 2024-2025

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### PhD in Management: Operations & Supply Chain

#### 1. General Management

Introduction to management – management thought – functions and principals of management: Planning – planning premises, types and steps in planning – decision making and forecasting, steps in decision making – management by objectives (MBO) and decision tree analysis – organizing structure, type of organizations, principals of organising, delegations, and decentralisation of authority – line and staff functions – leading-leadership, styles of leadership, theories of leadership – Blake and Mouton’s managerial grid- motivation, process, Maslow’s McGregor and Hertzberg theories of motivation – controlling – importance, process of controlling – techniques of controlling.

#### 2. Operations

Production vs Operations; Role and scope of production management; Plant location – Importance, factors, location decision methods; Plant Layout – Importance, Types, layout planning and analysis; production planning and control – product design, aggregate planning, forecasting, master schedule, scheduling, routing, loading, material control, material requirement planning; Work study – motion study, work measurement; statistical quality control, Just in Time, Quality Circles, Inventory Management; role and scope of operations research.