



ALLIANCE
UNIVERSITY

Office of Recruitment,
Careers and Admissions

*Private University established in Karnataka State by Act No.34 of year 2010
Recognized by the University Grants Commission (UGC), New Delhi*

OPERATIONS MANAGEMENT SYLLABUS

Operations Management - Basics of production systems, Planning, Scheduling, Sequencing, Workplace Layouts, Locational problems of warehouses, Basics of Queueing Theory

Basics of Lean Operations - Classification of wastes, 5S, Kaizen, Jidoka, Kanban, Kaizen, Value Stream Mapping, Total Productive Maintenance

Service Operations - Service strategy, Designing the service Enterprise, Managing service operations, service blueprint, Capacity planning, queueing models, forecasting demand and managing service inventory

Supply Chain Management - Measuring supply chain performance, drivers and metrics, planning and managing inventories in supply chain, managing economies of scale, uncertainty, optimal product availability, sourcing decisions, Impact of sustainability initiatives on the supply chain, manufacturing and service applications

Workplace Design, Ergonomics - Principles of Motion Economy, principles of ergonomics

Basics of Information Systems and Impact on Operations - Basics of Business Analytics and Business Intelligence, Enterprise Management Systems, necessity, functions of ERP systems

Modern Technology interventions - Impact of technology interventions like IoT, Blockchain, Artificial Intelligence, Robotics on Manufacturing and service applications of the future.