

GANPAT UNIVERSITY									
FACULTY OF MANAGEMENT STUDIES									
Programme	Bachelor of Business Administration				Branch/Spec.	Logistics			
Semester	I				Version	1.0.0.0			
Effective from Academic Year			2026-27		Effective for the Batch admitted in			July 2026	
Course Code	BLOG103		Course Name			Materials Management			
Teaching Scheme					Examination Scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	03	00	00	00	03	Theory	50	50	100
Hours	03	00	00	00	03	Practical	00	00	00
Pre-requisites									
Students should have basic understanding of business management principles and introductory concepts of logistics and supply chain management.									
Course Objective									
To help Students to understand basic Principles and concept of material management and orient students on contemporary development in the field of material management.									
Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	Explain the concepts, scope, and objectives of materials management and its interface with supply chain management.								
CO2	Apply inventory management techniques such as EOQ, forecasting methods, and MRP in material planning and control.								
CO3	Analyze purchasing and procurement processes including vendor management, negotiation, and buyer-seller relationships.								
CO4	Evaluate quality control techniques, standardization, codification, and cost reduction strategies in materials management.								
Theory Syllabus									
Unit	Content								Hrs.
1	Introduction & Inventory: Materials Management, Evolution, Importance, Scope and Objectives, Interface with other functions. Supply Chain Management, Objectives, Components, Trade off Customer Service & Cost. Supply Chain Analytics. Need of Inventory, Types of Inventory, Basic EOQ Model, EOQ with discounts, Different types of Analysis. Forecasting, methods of forecasting, Material Requirement Planning (MRP), Input and output of MRP system, BOM Explosion, MRP II. Materials Handling Systems and Equipment, Economic aspects of Materials handling, Functions- Stores layout, Materials handling and storage systems.								15
2	Purchasing: Purchasing and procurement activities under Materials management, Purchasing Methods, Purchasing and quality Assurance, Purchase Cycle, Governmental purchasing practices and procedures, Negotiation & Bargaining, Vendor relations, Vendor Rating, Vendor Management, Purchase Department, Responsibility, Buyer Seller Relationship, Value Analysis.								15
3	Quality control of material: Incoming material quality control, statistical quality control (Various control charts) Inventory control & Cost Reduction techniques. Value Analysis & Value Engineering. Standardization, need and importance. Codification, concept, benefits, Integrity Pact-Standard Operating Procedure.								15
Exam: Theory 100%, Numerical 0%									
Practical Content									
Practical, assignments and tutorials are based on above syllabus.									
Text Books									
1	Materials management: procedures, text and cases - A.K. Datta								
2	Materials Management, M.M Verma, Sultan Chand Publications,2012.								
Reference Books									
1	Course Material Prepared by LSC								
2	Production and Operations Management, Chary S.N., Tata McGraw Hill Publishing Co., Ltd., New Delhi								

ICT/MOOCs Reference															
1	https://www.getyoureducation.net/course/management-of-inventory-systems?utm_source														
Mapping of CO with PO and PSO:															
Course Outcome (CO) No.	PO-CO Mapping								PSO-CO Mapping						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3	2	2	2	2	2	1	2	3	2	2	2	2	1	
CO2	3	3	3	2	2	3	2	2	3	3	3	2	3	2	
CO3	3	3	3	3	2	2	2	2	3	3	3	3	2	2	
CO4	3	3	3	3	3	2	2	3	3	3	3	3	3	2	