



B. J. VANIJYA MAHAVIDYALAYA

(Autonomous)

(Grant-In-Aid)

(Affiliated to Sardar Patel University)

Vallabh Vidyanagar- 388 120, Dist. Anand, Gujarat, India

Accredited with CGPA of 2.78 on four-point scale at B++ Grade by NAAC

Syllabus as per the NEP 2020 with effect from June – 2026

Bachelor of Business Administration (B.B.A.) (General)

Semester – V

Course Code	UM05MIBBA02	Title of the Course	Materials & Operations Management
Total Credits of the Course	04	Hours per week	04

Course Objectives:	1) To equip learners with essential concepts and techniques in materials management and industrial purchasing to enhance efficiency and decision-making in supply chain processes. 2) To provide a comprehensive understanding of storekeeping practices and the principles of logistics and supply chain management to optimize inventory and enhance operational efficiency. 3) To explore foundational knowledge of operations management and production processes to effectively design and manage efficient workflows and plant layouts in a modern business context. 4) To provide a practical understanding of production planning, control, and work design through a blend of theoretical concepts and real-world examples to enhance operational efficiency and productivity.
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Course Content		
Unit No.	Description	Weightage (%)
1	Materials Management & Industrial Purchasing (Theory 30% & Examples 70%) Materials Management • Concept of Materials Management & Material Planning • Classification of Materials • Importance of Materials Management • Factors Affecting Materials Planning Industrial Purchasing • Meaning of Industrial Purchasing • Purchase Procedure • Centralised v/s Decentralized Purchasing • Vendor selection (Examples of Vendor Performance Rating)	25%



2	Storekeeping & Logistics and Supply Chain Management Storekeeping • Meaning of Storekeeping • Importance of Storekeeping • Store Location, Stores Layout and Stores Records Logistics and Supply Chain Management • Concept of Logistics and Supply Chain Management • Modes of Transportation • Functions of Warehousing & Packaging • Need for Supply Chain Management	25%
3	Operations Management & Production Process Operation Management • Meaning of operation management • Importance of Operations management • Role and responsibility of operations managers in modern business environment. Production Process and Plant Layout • Concept of production process and plant layout • types of production process (Job, Lot, Batch and Mass Production) • Factor affecting plant layout • Types of plant layout (Process, Product and Fix layout)	25%
4	Production Planning, Production Control & Work Design (Theory-30% Examples - 70%) Production Planning and Production Control • Concept Production Planning and Production Control • Routing, scheduling, dispatching and follow up • importance of production control (Examples on Critical Path Method) Work Design • concept of work design, Method study and Time Study • objectives of Time study • Computation of standard time (Examples)	25%

Teaching-Learning Methodology	The course would be taught /learnt through ICT (e.g. Power Point Presentation, Audio-Visual Presentation), Lectures, Group Discussions, Quizzes, Assignments, Case Study and Browsing E- Resources.
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Internal and External Examination Evaluation

Sr. No.	Details of the Evaluation / Exam Pattern	50 Marks (%)	25 Marks (%)
1	Class Test (at least one)	15 (30%)	10 (40%)
2	Quiz (at least one)	15 (30%)	05 (20%)
3	Active Learning	05 (10%)	----
4	Home Assignment	05 (10%)	05 (20%)
5	Class Assignment	05 (10%)	----
6	Attendance	05 (10%)	05 (20%)
Total Internal (%)		50 (100%)	25 (100%)
Final Examination (%)		50 (100%)	25 (100%)

Sr. No.	Course Outcomes: Having completed this course, the learner will be able to
1	Apply principles of materials management in planning, purchasing and vendor evaluation.
2	Perform storekeeping activities efficiently and explain logistics and supply chain functions.
3	Explain operations management concepts and assess production processes and plant layouts.
4	Use production planning and control tools and calculate standard time using work design methods.
5	Students will grasp the importance of operations management and the critical role of operations managers in today's business environment.
6	Students will understand the concepts of production planning and control, including routing, scheduling, dispatching and applications of the Critical Path Method (CPM).
7	Students will learn the fundamentals of work design, including method and time study and computation of standard time through practical examples.

Sr. No.	Suggested References:
1	Materials Management by K. Shridhar Bhat, Himalaya publication.
2	Production Management by Chunawalla and Patel.
3	Logistics Management by Satish C. Ailawadi & Rakesh P. Singh PHI.
4	Production Management by L.C. Jhamb, Everest Publication.
5	Production and Operation Management by S.N. Chary, Tata McGraw Hill.
6	Modern Production Management by E.S. Buffa.

Sr. No.	On-Line Resources available that can be used as Reference Material
1	https://youtu.be/oSoU4msV2ss
2	https://youtu.be/XE-Tdox0VIU
3	https://youtu.be/4-QU7WiVxh8
4	https://youtu.be/ZI81JQO1hDo
5	https://youtu.be/IZPO5RclZEo
6	https://youtu.be/pX9mjXKt6PU
7	https://youtu.be/szJgPfe-4MU
8	https://youtu.be/YR5jjIeloTg