

**Sant Gadge Baba Amravati University Amravati**  
**Diploma in Supply Chain Management (One Year Two Semester Course) [Semester 1] [CBCS]**  
**Scheme for Teaching, Learning, Examination and Evaluation**

Sr. No	Subject	Subject Code	Teaching & Learning Scheme							Examination Scheme						
			Teaching Period Per week				CREDITS			Theory			Practical		Total	Minimum
			L	T	P	Total	Theory	Practical	Total	Exam Duration	External	Internal	External	Internal		
1.	Management Principles and Business Ethics	1DISCM1	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
2.	Organizational Behaviour	1DISCM2	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
3.	Accounting for Manager	1DISCM3	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
5.	Managerial Economics	1DISCM4	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
4.	Innovation and Entrepreneurship	1DISCM5	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
6.	Lab-Accounting for Managers	1DISCM6	-	-	04	04	-	02	02	-	-	-	25	25	50	20
	<b>Total</b>		<b>20</b>	<b>-</b>	<b>04</b>	<b>24</b>	<b>20</b>	<b>02</b>	<b>22</b>						<b>550</b>	<b>220</b>

**Sant Gadge Baba Amravati University Amravati**  
**Diploma in Supply Chain Management (One Year Two Semester Course) [Semester 2] [CBCS]**  
**Scheme for Teaching, Learning, Examination and Evaluation**

Sr. No	Subject	Subject Code	Teaching & Learning Scheme							Examination Scheme						
			Teaching Period Per week				CREDITS			Theory			Practical		Total	Minimum
			L	T	P	Total	Theory	Practical	Total	Exam Duration	External	Internal	External	Internal		
1.	Principles & Practice of Logistics Management	2DISCM1	02	-	-	02	02	-	02	2 Hr.	40	10	-	-	50	20
2.	Supply Chain Management	2DISCM2	02	-	-	02	02	-	02	2 Hr.	40	10	-	-	50	20
3.	Inventory & Warehousing Management	2DISCM3	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
4.	Strategic Management	2DISCM4	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
5.	Operation Management	2DISCM5	04	-	-	04	04	-	04	3 Hr.	80	20	-	-	100	40
6.	Project	2DISCM6	-	-	08	08	-	04	04	-	-	-	50	50	100	40
7.	Internship*	2DISCM7	-	-	04	04	-	02	02	-	-	-	-	50	50	20
	<b>Total</b>		<b>16</b>	<b>-</b>	<b>12</b>	<b>28</b>	<b>18</b>	<b>04</b>	<b>22</b>						<b>550</b>	<b>220</b>

\* Internship Should be conducted after I<sup>st</sup> semester till II<sup>nd</sup> semester in vacations for minimum 60 hrs. It's 2 credits will be reflected in final semester credit grade report.

**Sant Gadge Baba Amravati University Amravati**  
**Diploma in Supply Chain Management (One Year Two Semester Course) [CBCS]**  
**SYLLABUS SEMESTER - I**

**1DISCM1 - MANAGEMENT PRINCIPLES AND BUSINESS ETHICS**

**COURSE OBJECTIVE:**

To provide students with a comprehensive understanding of the fundamental principles and practices of management, covering planning, organizing, leading, and controlling organizational resources effectively. It aims to develop managerial skills, strategic thinking, ethical decision-making, and adaptability to changing business environments.

**COURSE DETAILS:**

**Total Credit: 4**

**Hours/Week: 4**

**CONTAINS:**

<b>Unit Title</b>	<b>Topics Covered</b>
<b>Unit I</b> Introduction	Nature of Management - Management Skills the Evolution of Management Thought - Tasks of a Professional Manager - Manager - Organisational Culture Environment- Systems Approach to Management -Levels in Management <b>(14 Hrs.)</b>
<b>Unit II</b> Planning & Decision Making	Steps in Planning Process -Scope and Limitations _ Short Term and Long-Term Planning Flexibility in Planning Characteristics of a Sound Plan -Management by Objectives (MBO). Strategic Management Process Decision Making Process and Techniques. <b>(12 Hrs.)</b>
<b>Unit III</b> Nature of Organizing	Organisation Structure and Design - Authority Relationships -Delegation of Authority and Decentralisation Interdepartmental Coordinator Emerging Trends in corporate Structure, Strategy and Culture - Impact of Technology on Organisational design Mechanistic vs. Adoptive Structures - Formal and Informal Organisation. Span of control – Pros and Cons of Narrow and Wide Spans of Control - Optimum Innovation. Span - Managing Change and <b>(10 Hrs.)</b>
<b>Unit IV</b> Control	Concept of Control - Application of the Process of Control at Different Levels of Management (top, middle and first line). Performance Standards Measurements of Performance Remedial Action - An Integrated Control system in an Organisation Management by exception (MBE) - Leadership - Approaches to Leadership and Communication. <b>(12 Hrs.)</b>
<b>Unit V</b> Business Ethics	Importance of Business Ethics - Ethical Issues and Dilemmas in Business Ethical Decision Making and Ethical Leadership - Ethics Audit - Business Ethics and - CSR Models. <b>(12 Hrs.)</b>

**REFERENCE:**

- 1.Certo, S C. and Certo, T, Modern Management, 12h Edition, Prentice Hall, January 2011.
2. Griffin, R. W., Management, 1h Edition, South-Western College Publication, January 2012.
3. Koontz, H. and Weihrich, H., Essentials of Management: An International Perspective, 8Edition, Tata McGraw Hill Education Private Ltd., July 2009.
4. Mukherjee, K., Principles of Management, 2nd Edition, Tata McGraw Hill Education Pvt. Ltd., 2009.
5. Robbins, S and Coulter, M, 11h Edition, Management, Prentice Hall, January 2011.
6. Schmerhorn, J.R., Management, 1 1"Edition, Wiley, July 2012.

**1DISCM2 - ORGANIZATIONAL BEHAVIOUR**

**COURSE OBJECTIVE:**

To provide students with a comprehensive understanding of fundamental accounting principles, processes, and financial reporting. This course aims to develop analytical and practical skills in recording, classifying, and interpreting financial information for decision-making in business and organizational contexts.

**COURSE DETAILS:**

**Total Credit:** 4

**Hours/Week:** 4

**CONTAINS:**

<b>Unit Title</b>	<b>Topics Covered</b>
<b>Unit I</b> Introduction to Organisational Behaviour	Historical background of OB – Concept Relevance of OB - Contributing disciplines - to the field of OB, challenges and opportunities for OB, foundations of Individual Behaviour. Theory - social theory <b>(12 Hrs.)</b>
<b>Unit II</b> Learning and Motivation	Individual Difference - Personality concept and determinants of personality theories of personality - type of theories - trait theory - psycho analytic theory social learning theory - Erikson's stages of Personality Development Chris Argyris Immaturity to Maturity Continuum. Personality - Job fit. Perception: Meaning Process - Factors influencing perception - Attribution theory Learning: Classical, Operant and Social Cognitive Approaches – Managerial implications. Attitudes and Values: -Components, Attitude - Behaviour relationship, formation, values. Motivation: Early Theories of Motivation - Hierarchy of needs theory, Theory X and Theory Y, two factor theory, McClelland's theory of needs and Contemporary theories of motivation - Self - Determination theory, Job Engagement, Goal Setting theory, Self - efficacy theory, Re - enforcement theory, Equity theory, Expectancy theory. <b>(15 Hrs.)</b>
<b>Unit III</b> Group Dynamics	Foundations of Group Behaviour - Group and Team - Stages of Group Development-Factors affecting Group and Team Performance Group Decision making Interpersonal Communication - Communication Process – Barriers to Communication - Guidelines for Effective Communication <b>(11 Hrs.)</b>
<b>Unit IV</b> Leadership	Trait, Behavioural and Contingency theories, Leaders vs Managers Power and Politics: Sources of Power - Political Behaviour in Organisations Managing Politics. Conflict and Negotiation: Sources and Types of Conflict - Negotiation Strategies, Negotiation Process <b>(11 Hrs.)</b>
<b>Unit V</b> Organisational Culture	Concept and Importance - Creating and Sustaining Culture. Emotional Intelligence, Work Life Integration Practices. <b>(11 Hrs.)</b>

**REFERENCE:**

1. Stephen P. Robins, Timothy A. Judge and Neharika Vohra, Behaviour, 15h Edition, Organisational Pearson Education, Inc. publishing as Prentice Hall, 2013.
2. K. Aswattappa, Organisational Behaviour, Himalaya Publishing House, 10h Edition, 2012.
3. Luthans, F. Organizational Behavior, 12h Edition, Tata McGraw Hill Education, 2011.
4. McShane, S.L., Von Glinow, M.A., and Sharma, R.R., Organizational Behavior, 5h Edition, Tata McGraw-Hill Education Pvt. Ltd., 2011.
5. Blanchard, K.H., Hersey, P. and Johnson, D.E., Management of Organizational Behavior: Leading Human Resources, 9th Edition, PHI Learning, 2008.
6. Newstrom, J.W., Organizational Behavior, 12th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2010.

**COURSE OBJECTIVE:**

To provide students with a comprehensive understanding of fundamental accounting principles, processes, and financial reporting. This course aims to develop analytical and practical skills in recording, classifying, and interpreting financial information for decision-making in business and organizational contexts.

**COURSE DETAILS:**

**Total Credit:** 4

**Hours/Week:** 4

**CONTAINS:**

<b>Unit Title</b>	<b>Topics Covered</b>
<b>Unit I</b> Introduction to Accounting	Financial Accounting - Meaning - Objectives - functions. Branches of Accounting: Financial, Cost and Management Accounting - Accounting Concepts and conventions. Journal - Ledger- Trial Balance - Preparation of Final Accounts: Trading, Profit and Loss Account and Balance Sheet (problems) <b>(12 Hrs.)</b>
<b>Unit II</b> Recording Transactions	Debits and Credits, Journal Entries, General Ledger, Trial Balance, Adjusting Entries, Accrual Accounting, Prepaid and Unearned Revenue, Closing Entries <b>(12 Hrs.)</b>
<b>Unit III</b> Financial Statements	Income Statement, Statement of Retained Earnings, Balance Sheet, Statement of Cash Flows, Financial Statement Analysis, Accounting Ratios, Cash vs. Accrual Accounting, Interpreting Financial Statements <b>(12 Hrs.)</b>
<b>Unit IV</b> Accounting for Assets and Liabilities	Accounts Receivable and Bad Debt, Inventory Valuation, Property, Plant, and Equipment, Intangible Assets, Current and Non-current Liabilities, Bonds and Long-Term Debt, Leases and Contingent Liabilities, Accounting for Income Taxes <b>(12 Hrs.)</b>
<b>Unit V</b> Control and Evaluation	Cost Accounting, Budgeting and Forecasting, Accounting for Non-Profit Organizations, International Accounting Standards, Ethics in Accounting and Reporting, Audit and Assurance Services, Fraud Examination, Recent Developments in Accounting <b>(12 Hrs.)</b>

**REFERENCE:**

1. Financial Accounting – T.S. Grewal, S. Chand Publishing
2. Accounting Principles – Jerry J. Weygandt, Paul D. Kimmel, Donald E. Kieso, Wiley India
3. Financial Accounting: A Managerial Perspective – R. Narayanaswamy, PHI Learning
4. Introduction to Financial Accounting – Charles T. Horngren, Pearson Education
5. Corporate Accounting – S. N. Maheshwari & S. K. Maheshwari, Vikas Publishing

## 1DISCM4 - MANAGERIAL ECONOMICS

### COURSE OBJECTIVE:

To provide students with essential economic concepts and tools to support effective managerial decision-making, covering both micro and macroeconomic principles, market dynamics, and the impact of economic policies in business.

### COURSE DETAILS:

**Total Credit:** 4

**Hours/Week:** 4

### CONTAINS:

Unit Title	Topics Covered
<b>Unit I</b> Fundamentals of Economics	Economics-twin theme of economics- three economic problems -production possibility frontier (PPF)- Firm objectives and individual decision making- Economy model in circular flow- Externalities-Demand & Supply- Types of demand -Determinants of Demand & Supply - Types of goods- types of elasticity in D & S, Utility, Indifference curve, market equilibrium of D & S- price control mechanisms -Case study. <b>(12 Hrs.)</b>
<b>Unit II</b> Production function and Market structure	Production function-short and long run relationship- Isoquants-Isocost-Returns to scale Characteristics of Monopoly, Perfect, Monopolistic competition, Oligopoly market structure- Profit maximization, price and output relationship in long run and short run types of pricing- Case study <b>(12 Hrs.)</b>
<b>Unit III</b> Macro economics	Objectives, scope of Macroeconomics-Aggregate demand - Aggregate supply Variables of macroeconomics- output & Income determination, - unemployment -inflation, Economic growth, international trade, Business cycle, Exchange rate -National income determination and its measurement - Multiplier effect- Case study. <b>(12 Hrs.)</b>
<b>Unit IV</b> Role of Money and Economic policy	Fiscal and monetary policy -Supply & Demand for money- Keynesian theory of money and interest -IS-LM model with foreign sector- Case study. <b>(12 Hrs.)</b>
<b>Unit V</b> International Aspects of Economics	Foreign Exchange market - Exchange rate determination -Balance of payment- Trade policy - International monetary system and Financial institutions- trade organization Heckscher-Ohlin theory of trade- Case study. <b>(12 Hrs.)</b>

### REFERENCE:

1. Managerial Economics – D. N. Dwivedi, Vikas Publishing
2. Principles of Economics – N. Gregory Mankiw, Cengage Learning
3. Business Economics – H. L. Ahuja, S. Chand Publishing
4. Managerial Economics: Concepts and Applications – Thomas & Maurice, McGraw-Hill
5. Business Economics – P. L. Mehta, Sultan Chand & Sons

## 1DISCM5 - INNOVATION AND ENTREPRENEURSHIP

### COURSE OBJECTIVE:

To equip students with practical knowledge of Python programming and its application in data analysis. The course covers Python fundamentals, file handling, object-oriented programming, and essential libraries like NumPy and pandas for data manipulation and visualization.

### COURSE DETAILS:

**Total Credit:** 4

**Hours/Week:** 4

### CONTAINS:

Unit	Content
<b>Unit 1</b> Introduction	The Entrepreneur - Definition - Characteristics of Successful entrepreneur. Entrepreneurial scene in India: Analysis of entrepreneurial growth in different communities - Case histories of successful entrepreneurs. Similarities and Distinguish between Entrepreneur and Intrapreneur. <b>(14 Hours)</b>
<b>Unit 2</b> Innovation in Business	Types of Innovation - Creating and Identifying Opportunities for Innovation - The Technological Innovation Process – Creating New Technological Innovation and Intrapreneurship - Licensing - Patent Rights -Innovation in Indian Firms. <b>(11 Hours)</b>
<b>Unit 3</b> New Venture Creation	Identifying Opportunities for New Venture Creation: Environment Scanning Generation of New Ideas for Products and Services. Creating, Shaping, Recognition, Seizing and Screening of Opportunities. Feasibility Analysis: Technical Feasibility of Products and Services – Marketing Feasibility: Marketing Methods - Pricing Policy and Distribution Channels. <b>(11 Hours)</b>
<b>Unit 4</b> Business Plan Preparation	Benefits of a Business Plan - Elements of the Business Plan - Developing a Business Plan - Guidelines for preparing a Business Plan - Format and Presentation. <b>(12 Hours)</b>
<b>Unit 5</b> Financing the New Venture	Capital structure and working capital Management, Financial appraisal of new project, Role of Banks - Credit appraisal by banks. Institutional Finance to Small Industries - Incentives - Institutional Arrangement and Encouragement of Entrepreneurship. <b>(12 Hours)</b>

### REFERENCE:

1. Baringer, B., Entrepreneurship: Successfully Launching New Ventures, 3Edition, Pearson, 2011.
2. Bessant, J., and Tidd, J., Innovation and Entrepreneurship, 2rd Edition, John Wiley & Sons, 2011.
3. Desai, V., Small Scale Industries and Entrepreneurship, Himalaya Publishing House, 2011.
4. Reddy, N., Entrepreneurship: Text and Cases, Cengage Learning, 2010.
5. Roy, R., Entrepreneurship, 2nd Edition, Oxford University Press, 2011.
6. Stokes, D., and Wilson, N., Small Business Management and Entrepreneurship, 6<sup>th</sup> Edition, Cengage Learning, 2010.

## **1DISCM6-LAB- ACCOUNTING FOR MANAGERS**

### **COURSE OBJECTIVE:**

To provide managers with essential accounting tools and techniques to analyze financial data, control costs, prepare budgets, and support effective decision-making—especially in supply chain operations.

### **COURSE DETAILS:**

**Total Credit: 2**

**Hours/Week: 4**

**The list suggests a problem set. The concerned staff may modify the list as needed, ensuring a minimum of 15 practical.**

1. Preparation of Journal Entries and Ledger for a Trading Company
2. Drafting Trading, Profit & Loss Account and Balance Sheet for a Distributor
3. Inventory Valuation using FIFO, LIFO, and Weighted Average Methods
4. Computation and Interpretation of Key Accounting Ratios
  - Inventory Turnover
  - Current Ratio
  - Debt-Equity Ratio
5. Comparative and Common Size Statement Analysis
6. Vertical and Horizontal Analysis of Logistics Company Financials
7. Break-even Analysis for a New Warehouse Setup
8. Make or Buy Decision: In-house vs Outsourced Transportation
9. Key Factor Analysis in Resource Allocation for Shipping Routes
10. Sales Mix Decision for Multiple Product Lines in Distribution
11. Preparation of Flexible Budget for Varying Transport Volumes
12. Master Budget for a Supply Chain Department
13. Cash Budget Preparation for Logistics Operations
14. Zero-Based Budgeting for Warehouse Functions
15. Preparation of a Detailed Cost Sheet for a Consignment
16. Cost Allocation by Cost Centre: Transport, Warehouse, Admin
17. Activity-Based Costing in a Logistics Operation
18. Variance Analysis in Transportation Costs (Fuel, Labor, Maintenance)
19. Fund Flow and Cash Flow Statement for a Logistics Firm
20. Cost-Benefit Analysis for New SCM Technology Implementation

## **SYLLABUS SEMESTER - II**



## 2DISCM1- PRINCIPLES & PRACTICE OF LOGISTICS MANAGEMENT

### COURSE OBJECTIVE:

To provide students with a foundational and practical understanding of logistics and its role in the supply chain. The course aims to develop the ability to manage logistics functions such as transportation, warehousing, inventory, packaging, and integration, while enhancing decision-making through performance measures and cost analysis.

### COURSE DETAILS:

**Total Credit:** 2

**Hours/Week:** 3

### CONTAINS:

Unit Title	Topics Covered
<b>Unit I</b> Introduction to Logistics	Concepts of Logistics, Evolution of Logistics, Nature and Importance of Logistics, Components of Logistics Management, Competitive Advantages of Logistics, Functions of Logistics Management, Principles of Logistics, Logistics Network, Integrated Logistics System <b>(5 Hours)</b>
<b>Unit II</b> Elements of Logistics	Elements of Logistics, Inventory Carrying, Warehousing, Material Handling, Order Processing, Transportation, Demand Forecasting, Impact of Forecasts on Logistics, Logistics Performance Measurements <b>(7 Hours)</b>
<b>Unit III</b> Transportation and Warehousing	Participants in Transportation Decisions, Modes of Transportation, Factors Influencing Transport Economics, Documents in Transport Decision-Making, Functions of Warehouse, Benefits of Warehouse Services, Warehousing Alternatives, Warehouse Site Selection, Factors in Initiating Warehouse Operations, Warehouse Management Systems <b>(7 Hours)</b>
<b>Unit IV</b> Packaging and Handling	Packing and Material Handling, Functions of Packaging, Communication in Packaging, Packaging Costs, Types of Packaging Materials, Unitization, Containerization, Designing a Package <b>(4 Hours)</b>
<b>Unit V</b> Logistics Organization and Integration	Organization for Effective Logistics Performance, Centralized and Decentralized Structures, Stages of Functional Aggregation in Organizations, Financial Issues in Logistics Performance, Measures of Financial Performance, Steps in ABC Costing, Financial Gap Analysis, Integrated Logistics, Need for Integration, Activity Centres in Integrated Logistics, Role of Third-Party Logistics (3PL) <b>(7 Hours)</b>

### REFERENCE:

1. Krishnaveni Muthiah – Logistics Management and Seaborne Trade, Himalaya Publishing House
2. D.K. Agarwal – Textbook of Logistics and Supply Chain Management, Macmillan India Ltd
3. Martin Christopher – Logistics and Supply Chain Management, Pearson Education
4. Ronald H. Ballou – Business Logistics and Supply Chain Management, Pearson Education

## 2DISCM2- SUPPLY CHAIN MANAGEMENT

**COURSE OBJECTIVE:**

To equip students with the strategic and operational aspects of supply chain management, focusing on integration, planning, logistics collaboration, analytics, and innovations that enhance competitive advantage and customer value.

**COURSE DETAILS:**

**Total Credit:** 2

**Hours/Week:** 3

**CONTAINS:**

<b>Unit Title</b>	<b>Topics Covered</b>
<b>Unit I</b> Introduction to Supply Chain	Introduction to Supply Chain, Historical Perspective, Understanding Supply Chain Management, Objectives and Importance, Decision Phases, Key Issues in Supply Chain, Examples of Supply Chains, Supply Chain Strategies, Supply Chain as a Competitive Weapon, Supply Chain Becomes a Value Chain, 4PL and Principles of LIS, Factors Affecting Choice of Packaging Materials <b>(6 Hours)</b>
<b>Unit II</b> Supply Chain Synergies	Collaborating with Supply Chain Partners, Supply Chain Drivers and Design, Drivers of Supply Chain Performance, Framework for Structuring Supply Chain Decisions, Facilities (Including Warehousing), Inventory, Transportation, Information, Sourcing, Pricing, Yield Management, Revenue Management <b>(6 Hours)</b>
<b>Unit III</b> Sales and Operations Planning	Demand Management, Demand Forecasting, Aggregate Planning, Managing Supply, Demand and Inventory, Aggregate Planning in a Supply Chain – Role and Problems, Strategies, Role of IT, Implementation of Aggregate Planning, Responding to Predictable Variability, Types of Supply Chains, Creating Responsive Supply Chains, Lean and Agile Supply Chains – Characteristics <b>(6 Hours)</b>
<b>Unit IV</b> Customer Value and Risk Management	Dimensions of Customer Value, Value-Added Services, Customer Value Measures, Push-Pull Boundary, Mass Customization, Supply Chain Outsourcing, Third-Party Logistics (3PL), Fourth-Party Logistics (4PL), Managing Risk in Supply Chains, Creating a Sustainable Supply Chain <b>(6 Hours)</b>
<b>Unit V</b> Supply Chain Analytics and the Future	Use of Computer Software in Supply Chain Problems, Electronic Commerce, Emerging Mega Trends in SCM, Future of Supply Chains, Structural Flexibility, The Multi-Channel Revolution, Vision 2020 and Beyond <b>(6 Hours)</b>

**REFERENCE:**

1. Coyle, J., Langley, J., Gibson, B., & Novack, R. – A Logistic Approach to Supply Chain Management, Cengage Learning, 2009
2. Handfield, R., & Monczka, R. – Sourcing and Supply Chain Management, 5th Ed., Cengage Learning, 2012
3. Hugos, M. – Essentials of Supply Chain Management, 3rd Ed., John Wiley and Sons, 2011
4. Liu, J. – Supply Chain Management and Transport Logistics, Routledge, 2011
5. Sinha, A., & Kotzab, H. – Supply Chain Management: A Managerial Approach, Tata McGraw-Hill, 2011
6. Sople, V.V. – Supply Chain Management: Text and Cases, Pearson, 2011

## 2DISCM3- INVENTORY AND WAREHOUSING MANAGEMENT

### COURSE OBJECTIVE:

To provide students with a comprehensive understanding of inventory and warehouse management principles, techniques, and technologies. The course aims to enhance analytical and operational skills in controlling inventory, optimizing warehousing systems, and leveraging IT for effective logistics and supply chain performance.

### COURSE DETAILS:

**Total Credit:** 4

**Hours/Week:** 4

### CONTAINS:

Unit Title	Topics Covered
<b>Unit I</b> Introduction to Inventory	Definition, principles, role, functions and importance of Inventory, Types of Inventories and Inventory, Inventory Policy, Costs Associated with Inventory, management Profitability, Impact of Inventory on total logical cost - objectives Ti importance, symptoms of poor inventory management. Improving effectiveness of inventory management. <b>(12 Hours)</b>
<b>Unit II</b> Inventory Control and models	Importance and scope of Inventory control, Selective Inventory control, Inventory Models Economic Lot size, EOQ, Economic Batch Quantity [EBQ], ROL - reorder level, P model, Q model, two bin system, fair share allocation model, MRP, ABC analysis, Just in Time (JIT). Modern methods Kanban, DRP and ERP. <b>(12 Hours)</b>
<b>Unit III</b> Inventory Methods	Inventory ranking methods and Quadrant technique, FIFO, LIFO, Weighted average method, Inventory under certainly and uncertainly, Risk Management, Work in progress inventories, Finished Goods Inventories, Spare parts inventories, Use of Computers in Inventory Management _ RFID, EDI, Satellite tracking system. <b>(12 Hours)</b>
<b>Unit IV</b> Warehouse Management	Definition, Principles, Roles, Importance of Warehouses, Need for Warehousing, Warehouse selection and planning, functions and operations of a warehouse, Warehouse location, Area of Warehouse, Factors affecting warehousing cost, Warehouse layout, Design principles. <b>(12 Hours)</b>
<b>Unit V</b> Planning	codification and standardisation of the Materials, Incoming Materials Receipts, Retrieval and Transaction Processing System, Security and Loss Prevention, Consumption Based Planning_ MRP and lot sizing procedure, Forecasting parameter and result, planned order planning file consolidation, Breakbulk, Crossdocking, Mixing, Assembly_ competitive advantage, production support warehouse-ERP, Role of IT in warehousing. <b>(12 Hours)</b>

### REFERENCE:

1. Tony wild - Best Practice in Inventory Management - John Wiley and sons
2. Hadley G and Whitin T. M.: Analysis of Inventory systems, Prentice Hall
3. Naddor E, Inventory system, John Wiley
4. Buchan, J and Konigsberg E: Scientific inventory Management, Prentice Hall
5. Silver E and Peterson. R: Decision System for Inventory Management and Production, Wiley
6. Inventory Management Explained: A focus on Forecasting, lot sizing, safety stock, and ordering systems, OPS publishing

## 2DISCM4-STRATEGIC MANAGEMENT

### COURSE OBJECTIVE:

To equip students with a comprehensive understanding of strategic management processes, including strategy formulation, implementation, and evaluation. The course covers corporate policy, environmental and internal analysis, competitive strategies, corporate governance, and functional planning. It aims to develop strategic thinking and decision-making skills for effective leadership and long-term organizational success.

### COURSE DETAILS:

**Total Credit:** 4

**Hours/Week:** 4

### CONTAINS:

Unit Title	Topics Covered
<b>Unit I</b> Introduction	Strategy - Phases of Strategic Process - Strategic Decision Management- Strategic Managements making- Corporate Policy: Importance - Characteristics - Objectives - Policy Formulation and Development - Types of Business Policies Implementation of Policies. Developing a Strategic Vision - Setting Objectives - Crafting Strategy _ Strategies and Tactics -Importance of Corporate Strategy - the 7-S Framework <b>(12 Hours)</b>
<b>Unit II</b> Society and Business	Social Responsibility of Business - Corporate Governance and Ethical Responsibility -Corporate governance <b>(12 Hours)</b>
<b>Unit III</b> Environmental Analysis	Environmental Scanning_ Industry Analysis - The Synthesis of External Factors - Internal Scanning - SWOT Audit Stockholders' Expectations - Scenario planning-- Michael Porter's Framework for Strategic Management <b>(11 Hours)</b>
<b>Unit IV</b> Strategy Formulation and Choice of alternatives	Strategies modernization, diversification integration; Merger, Acquisitions and Joint ventures; Turnaround, divestment and liquidation strategies; Process of strategic choice - industry, competitor and SWOT analysis; factors affecting strategic choice; Generic competitive strategies - cost leadership, differentiation, focus, bench marking, service blue printing- Functional Strategies: Marketing. production/operations and R&D plans and polices- Personnel and financial plans and policies <b>(13 Hours)</b>
<b>Unit V</b> Strategy Implementation	Strategy Implementation - Corporate Culture Matching Organisation Structure to Strategy - Strategic Leadership Strategic Control: Strategic Control Process - Du Pont's Control Model - Balanced Score Card Strategic Management - Strategic Information System <b>(12 Hours)</b>

### REFERENCE:

1. David, F.R., Strategic Management \_ Concepts and Cases, 13th Edition, Prentice Hall, 2008.
2. Dess, G., McGraw-Hill, 2L0u0m9. pkin, G.T. and Eisner, A., Strategic Management, 3rd Edition, Tata
3. Hill, C.W.L. and Jones, G.R., Strategic Management: An Integrated Approach, 9th Edition, Cengage Learning. 2012.
4. Hitt. Ireland, Hoskisson and Manikutty, Strategic Management, 9th Edition, Cengage Learning. 2012.
5. Kazmi, A., Strategic Management and Business Policy, 3rd Edition, Tata McGrawtill Education, 2008.
6. Pearce II, J., Robinson, R.B. and Mittal, A., Strategic Management: Formulation, Implementation and Control, 12th Edition, McGraw-Hill, 2012.
7. Pitts, R. and Lei, D., Strategic Management: Building and Sustaining Competitive Advantage, 4th Edition, Cengage Learning, 2006.
8. Srinivasan. R. Strategic Management - The Indian Context, 3rd Edition, PHI Learning. 2008.
9. Wheelen, T.L. and Hunger, D., Strategic Management and Business Policy, 12th Edition. Pearson, 2010.

## 2DISCM5- OPERATION MANAGEMENT

### COURSE OBJECTIVE:

To provide students with foundational and practical knowledge of Operations Management, covering key areas such as production planning, plant location and layout, inventory control, quality management, maintenance, and service operations. The course aims to develop analytical and decision-making skills for improving efficiency and effectiveness in both manufacturing and service sectors.

### COURSE DETAILS:

**Total Credit:** 4

**Hours/Week:** 4

### CONTAINS:

Unit Title	Topics Covered
<b>Unit I</b> Introduction	Operations Management- Nature, Scope, Historical Development, Functions- Long term Vs Short term issues- A Systems Perspective- Challenges- Manufacturing Trends in India-Production Design and Process Planning- Types of Production Processes- Plant Capacity-Capacity Planning- Make or Buy Decisions- Use of Crossover Chart for Selection Processes-Types of Charts used in Operations Management. <b>(12 Hours)</b>
<b>Unit II</b> Facility Design	Plant Location: Factors to be considered in Plant Location- Location Analysis Techniques- Choice of General Region, Particular community and Site- Multiple Plant Location Decision- Plant Location Trends. Layout of Manufacturing Facilities: Principles of a Good Layout- Layout Factors- Basic Types of Layouts- Principles of Materials Handling- Materials Handling Equipment's- Role of Ergonomics in Job Design. <b>(12 Hours)</b>
<b>Unit III</b> Inventory Control and Maintenance	Basic Inventory Models- Economic Order Quantity- Economic Batch Quantity- Reorder Point-Safety Stock- Inventory Costs-Classification and Codification of Stock- ABC Classification-Materials Requirement Planning (MRP)- JIT- Implications of Supply Chain Management. Maintenance: Preventive Vs Breakdown Maintenance- Group, Replacement Vs Individual Replacement- Breakdown Time Distribution- Maintenance of Cost Balance- Procedure for Maintenance <b>(12 Hours)</b>
<b>Unit IV</b> Design Of Work Systems and Quality Control	Work Study- Objectives- Procedure- Method Study and Motion Study- Work Measurement-Time Study-Performance Rating- Allowance Factors- Standard Time Work Sampling Techniques. Quality Control: Purpose of Inspection and Quality Control Different Types of Inspection- Acceptance Sampling- The Operating Characteristic Curve- Control Charts for Variables and Attributes. <b>(12 Hours)</b>
<b>Unit V</b> Service Operations Management	Introduction to Services Management- Nature of Services- Types of Services- Service Encounter-Designing Service Organizations- Service Facility Location and Layout Service Blueprinting-Waiting Line Analysis for Service Improvement- Service Processes and Service Delivery. <b>(12 Hours)</b>

### REFERENCE:

1. Chary, S.N., Production and Operations Management, 5th Edition, Tata McGraw-Hill,
2. Gore, A. and Panizzolo, R., Operations Management, Cengage Learning India, 2012.
3. Heizer, J., Render, B. and Rajashekhar, J., Operations Management, 9th Edition, Pearson, 2009.
4. Krajewski, L., Operations Management: Processes and Supply Chains, 9th Edition, Pearson, 2011.
5. Metters, R., King-Metters, K.H., Pullman, M. and Walton, S., Replacement Vs Individual Replacement- Breakdown Time Distribution- Maintenance of Cost Balance- Procedure for Maintenance. Successful

## 2DISCM6 - Project

### COURSE DETAILS:

**Total Credit:** 04

**Hours/Week:** 04

### COs:

**On successful completion of this course, students would be able to**

- aware about the survey of literature.
- formulate the problem and apply the suitable techniques for solution
- write the dissertation /Project

Students enrolled in the Diploma in Supply Chain Management must undertake a project to demonstrate their understanding and practical application of supply chain concepts, tools, and techniques. This capstone project reflects their learning and industry readiness.

Semester II	Particulars	System of marks and Credit		
		Total Credit:02		Minimum Passing
		Practical Internal	Practical External	
Project	Submission	50	---	40
	Presentation	--	30	
	Viva-voce	--	20	
	Total Marks	50	50	

## 2DISCM7 – Internship

### COURSE DETAILS:

**Total Credit:** 02

**Total Hours:** 60

### COs:

**On successful completion of this course, students would be able to**

- be competent professionals for the industry as student exposed to the industrial environment.
- learn, understand and sharpen the real time technical skills required at the job
- quest for knowledge and its applicability on the job
- learn to apply the technical knowledge in real industrial situations
- gain experience in writing technical reports/projects
- Understand the psychology of the workers and their habits, attitudes and approach to problem solving

Semester II	Particulars	System of marks and Credit		
		Total Credit:02		Minimum Passing
		Practical Internal	Practical External	
Internship	Report Submission	30	---	20
	Presentation	--	---	
	Viva-voce	20	---	
	Total Marks	50	---	

**Sant Gadge Baba Amravati University Amravati**  
**Faculty: Commerce and Management**  
**One Year- Two Semester- Supply Chain Management**  
**Instructions for Paper Setters**  
**For Subjects having Maximum 80 Marks**

Duration of Exam – 3 Hrs		Max. Marks 80
Question No. 1	10 MCQs (2 from each unit)	Marks 10
Question No. 2	05 Fill in Blank (1 from each unit)	Marks 05
Question No. 3	05 Questions Answer in One Sentence (1 from each unit)	Marks 05
Question No. 4 to 8	Each question having internal choice (4 from each unit) as follows: Q.a) Long answer Question for 08 Marks Q.b) Short answer Question for 04 Marks OR Q.c) Long answer Question for 08 Marks Q.d) Short answer Question for 04 Marks	Marks 60

**Instructions for Paper Setters**  
**For Subjects having Maximum 40 Marks**

Duration of Exam – 3 Hrs		Max. Marks 40
Question No. 1	05 MCQs (1 from each unit)	Marks 05
Question No. 2	05 Fill in Blank (1 from each unit)	Marks 05
Question No. 3 to 7	Each question having internal choice (4 from each unit) as follows: Q.a) Long answer Question for 04 Marks Q.b) Short answer Question for 02 Marks OR Q.c) Long answer Question for 04 Marks Q.d) Short answer Question for 02 Marks	Marks 30