| SUPPLY CHA | IN MANAGEMENT & INTRODU | ICTION TO SAP | |
|--------------------------------|-------------------------|---------------|-----|
| course code | 21ME641 | CIE Marks | |
| Teaching Hours/Week (L:T:P: S) | 3:0:0 | SEE Marks | 50 |
| Total Hours of Pedagogy | 50 | | 50 |
| Credits | 03 | Total Marks | 100 |
| | - 03 | Exam Hours | 03 |

Course objectives:

- To acquaint with key drivers of supply chain performance and their inter-relationships with strategy.
- To impart analytical and problem-solving skills necessary to develop solutions for a variety of supply chain management & design problems.
- To study the complexity of inter-firm and intra-firm coordination in implementing programs such as e-collaboration, quick response, jointly managed inventories and strategic alliances.
- To understand the usage of SAP material management system

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- Adopt different type of teaching methods to develop the outcomes through Power-Point Presentation and Video demonstration or Simulations.
- 2. Chalk and Talk method for Problem Solving.
- Discuss the case studies and how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- 4. Adopt collaborative (Group Learning) Learning in the class.
- 5. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information.

Module-1

Introduction: Supply Chain – Fundamentals – Evolution-Role in Economy - Importance - Decision Phases – Supplier Manufacturer-Customer chain. - Enablers/ Drivers of Supply Chain Performance. Supply chain strategy - Supply Chain Performance Measures.

Strategic Sourcing Outsourcing – Make Vs buy - Identifying core processes - Market Vs Hierarchy - Make Vs buy continuum -Sourcing strategy - Supplier Selection and Contract Negotiation. Creating a world class supply base-Supplier Development - World Wide Sourcing.

| Teaching- | Power-point Presentation Video description |
|-----------|---|
| | Power-point Presentation, Video demonstration or Simulations, Chalk and Talk Method |
| Learning | , and the medical |
| Process | |

Module-2

Warehouse Management Stores management-stores systems and procedures-incoming materials control stores accounting and stock verification Obsolete, surplus and scrap-value analysis-material handling transportation and traffic management -operational efficiency-productivity-cost effectiveness-performance measurement.

Supply Chain Network Distribution Network Design – Role - Factors Influencing Options, Value Addition – Distribution Strategies - Models for Facility Location and Capacity allocation. Distribution Center Location Models.

| Teaching- Learning Process | Power-point Presentation, Video demonstration or Simulations, Chalk and Talk Method |
|-------------------------------|---|
| | Module-3 |

Supply Chain Network optimization models. Impact of uncertainty on Network Design - Network Design, decisions using Decision trees. Planning Demand, -multiple Item -multiple location inventory management.

Pricing and Revenue Management.

| Teaching- | Power-point Presentation, Video demonstration or Simulations, Chalk and Talk Method |
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| Learning | Simulations, Chair and Tair Method |

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A DESCRIPTION OF EVERYOODS A Process W Module-4 Current Trends: Supply Chain Integration - Building partnership and trust in Supply chain Value of Information: Bullwhip Effect - Effective forecasting - Coordinating the supply chain. Supply Chain restructuring, Supply Chain Mapping - Supply Chain process restructuring, Postpone the point of differentiation - IT in Supply Chain - Agile Supply Chains - Reverse Supply chain. Future of IT in supply chain- EBusiness in supply chain. Power-point Presentation, Video demonstration or Simulations, Chalk and Talk Method Teaching-Learning **Process** Module-5 Introduction to SAP, SAP Material Management, Procurement process, Organization structure, Enterprise structure, Master data management, purchase Info record, source list, procurement cycle, purchase requisition, request for quotation, purchase order, inventory management, invoice verification, service management, transaction code Power-point Presentation, Video demonstration or Simulations, Chalk and Talk Method Teaching-Learning **Process** Course outcome (Course Skill Set) At the end of the course the student will be able to : Understand the framework and scope of supply chain management. Build and manage a competitive supply chain using strategies, models, techniques and information technology. Plan the demand, inventory and supply and optimize supply chain network. Understand the emerging trends and impact of IT on Supply chain. Understand the basics of SAP material management system

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

Continuous Internal Evaluation:

Three Unit Tests each of 20 Marks (duration 01 hour)

- First test at the end of 5th week of the semester
- Second test at the end of the 10th week of the semester
- Third test at the end of the 15th week of the semester
- Two assignments each of 10 Marks
- First assignment at the end of 4th week of the semester
- Second assignment at the end of 9th week of the semester
- Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)
- At the end of the 13th week of the semester
- The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (duration 03 hours)

- The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be reduced proportionally to 50 marks
- There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), should have a mix of topics under that module.
- The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Janat Shah, Supply Chain Management-Text and Cases, Pearson Education, 2nd edition
- Sunil Chopra and Peter Meindl, Supply Chain Management-Strategy Planning and Operation, PHI Learning / Pearson Education, 6th edition.
- David Simchi-Levi, Philip Kaminsky, Edith Simchi-Levi, Designing and Managing the Supply Chain: Concepts, Strategies, and Cases, Tata McGraw-Hill.
- 4. Ballou Ronald H, Business Logistics and Supply Chain Management, Pearson Education
- 5. Ashfaque Ahmed, The SAP Materials Management Handbook, CRC Press Publication. 2014 edition.
- Martin Murray & Jawad Akhtar, Materials Management with SAP ERP: Functionality and Technical Configuration, SAP Press; Fourth edition.
- 7. P. Gopalakrishanan, M. Sundaresan, Materials Management: An Integrated Approach, Prentice Hall India

Web links and Video Lectures (e-Resources):

- https://onlinecourses.nptel.ac.in/noc21 mg45/preview
- https://nptel.ac.in/courses/110106045
- https://www.udemy.com/course/sap-mm-training/
- https://www.udemy.com/course/sap-s4hana-mm-sourcing-and-procurement/
- https://nptel.ac.in/courses/110105095

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

Case study of companies example Amazon, Flipkart, Parle, DMart, Reliance etc can be discussed