

ASSIGNMENTS
DIPLOMA IN SUPPLY CHAIN ANALYTICS
DSCA- 1st semester
For
Fresh Admitted Students
Session 2025-26



Centre for Distance and Online Education
Guru Jambheshwar University of Science & Technology
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Compiled by:-

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CENTRE FOR DISTANCE AND ONLINE EDUCATION
Programme: Diploma in Supply Chain Analytics (DSCA)

Course Name: Management Process and Organisational Behaviour
Code: SCA-101

Sem: 1st
Total Marks=30

Important Instructions

- i. Attempt all questions from each assignment given below.**
- ii. Each assignment carries 15 marks.**
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on LMS portal.**

ASSIGNMENT-I

1. Define management. Discuss the meaning, nature, and scope of management in the context of modern organizations.
2. Critically evaluate the different schools of management thought—Scientific Management, Decision Theory School, Quantitative School, System School, and Contingency Theory.
3. Explain the planning function of management. Discuss its significance and describe various types of planning used in organizations.

ASSIGNMENT-II

1. Discuss the components of the directing function—leading, motivating, and communicating. How do these activities influence organizational success?
2. Define Organizational Behaviour. What are its major concepts, determinants, and challenges in today's dynamic environment?
3. What is Transactional Analysis? Explain its relevance and application in managing interpersonal relationships at the workplace.

CENTRE FOR DISTANCE AND ONLINE EDUCATION
Programme: Diploma in Supply Chain Analytics (DSCA)

Course Name: Supply Chain Management
Code: SCA-102

Sem: 1st
Total Marks=30

Important Instructions

- i. Attempt all questions from each assignment given below.**
- ii. Each assignment carries 15 marks.**
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on LMS portal.**

ASSIGNMENT-I

1. Define supply chain management and explain its major objectives.
2. What is supply chain strategy? Explain how competitive advantage is achieved through SCM.
3. Define sourcing and explain the sourcing function in SCM.

ASSIGNMENT-II

1. Discuss the types of forecasting methods used in demand planning.
2. Define sustainability in SCM and explain how sustainability is evaluated in supply chain practices.
3. Discuss the building blocks of supply chain strategy.

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Programme: Diploma in Supply Chain Analytics (DSCA)

Course Name: Purchase and Material Management

Sem: 1st

Code: SCA-103

Total Marks=30

Important Instructions

- i. Attempt all questions from each assignment given below.**
- ii. Each assignment carries 15 marks.**
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on LMS portal.**

ASSIGNMENT-I

1. Explain the objectives of Purchasing and Materials Management.
2. What factors are considered in the determination of material quantity?
3. Define Vendor-Process Capability and its role in maintaining quality

ASSIGNMENT-II

1. Describe the steps in Value Analysis and Value Engineering.
2. What is warehousing management? Explain its key components.
3. Describe the steps involved in International Purchasing and documentation required.

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Programme: Diploma in Supply Chain Analytics (DSCA)

Course Name: Warehouse and Inventory Control

Sem: 1st

Code: SCA-104

Total Marks=30

Important Instructions

- i. Attempt all questions from each assignment given below.**
- ii. Each assignment carries 15 marks.**
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on LMS portal.**

ASSIGNMENT-I

1. Explain the factors that have a bearing on Site selection in Warehouse location. Discuss also in detail macro & micro approached in WH selection and acquisition.
2. Discuss the important components involved in warehouse management system
3. Write a short note on the followings:
 - a) Requisitions and Replenishment of material
 - b) Receipt and Inspection of Material
 - c) Define various warehouse activities

ASSIGNMENT-II

1. Write a short note on the followings:
 - a) Define the concept of inventory and its type
 - b) Types of Inventory
 - c) Inventory Control System
2. Define the EOQ model for inventory control with its application in business.
3. Describe the various traditional and modern techniques of inventory management.

CENTRE FOR DISTANCE AND ONLINE EDUCATION
Programme: Diploma in Supply Chain Analytics (DSCA)

Course Name: Production and Operation Management
Code: SCA-105

Sem: 1st
Total Marks=30

Important Instructions

- i. Attempt all questions from each assignment given below.**
- ii. Each assignment carries 15 marks.**
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and upload the scanned copy of the assignments on LMS portal.**

ASSIGNMENT-I

1. Explain the scope and objectives of production and operations management.
2. What is facility location? Explain the factors influencing facility location decisions.
3. Describe different plant layout types with suitable examples.

ASSIGNMENT-II

1. Explain aggregate production planning and the strategies used in it.
2. What is TQM (Total Quality Management)? Explain its principles.
3. Describe scheduling in operations and explain Gantt chart with example.