

Gujarat Technological University
MASTERS IN TECHNOLOGICAL MANAGEMENT-MTM
DUAL DEGREE PROGRAMME
Semester X

Subject: MATERIALS MANAGEMENT

SUBJECT Code: 4210101

COURSE OBJECTIVES:

- The objective of the course is to introduce theory and practice of management of materials
- The course exposes students to real life business scenarios, situations and provides scope for developing analytical thinking.

Course Contents:

Module No	Module Content	Weightage
1	Integrated Materials Management. Corporate Policy and Materials Management. Organization and Control. Materials Research. Materials Planning and Budgeting. ABC Analysis. Codification and Standardization. Source Selection.	14
2	Creative Purchasing. Purchase Systems. Price Forecasting. Buying Seasonal Commodities. Purchasing Under Uncertainty. Purchasing of Capital Equipment. International Purchasing. Import Substitution: Prospects and Retrospects. Public Buying. Legal Aspects in Buying. Insurance Buying. Buyer-Seller Relationship and Ethics.	21
3	Stores Management. Stores Systems and Procedures. Incoming Materials Control. Stores Accounting and Stock Verification. Obsolete, Surplus and Scrap Management. Value Analysis. Material Handling. Transportation and Traffic Management.	14
4	Inventory Management in India. Economical Ordering Quantity. Practical Inventory Systems. Operation Research Techniques in Materials Management, Role of PERT in Materials Management, Computers in Materials Management, Evaluation of Materials Management.	21

5	Students must Materials Management Systems and Practices in any manufacturing organization having turnover of not less than 100 lakhs during accounting year immediately preceding year of study. The manufacturing organization must have been subject to Tax Audit under Income-tax Act 1961.	(20 Marks of CEC – Internal)
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Text Books

Sr. No	Author	Name of Text Book	Publisher Edition
1	Gopalakrishnan P. and Sundaresan M	Materials Management : An Integrated Approach	PHI , Latest

Reference Books

Sr. No	Author	Name of Reference Book	Publisher Edition
1	Dean S. Ammer	Materials Management and Purchasing	Taraporevala Publications Latest Edition
2	B.K. Roy Chowdhury	Management of Materials	S. Chand & Sons Latest Edition
3	Gary J. Zenz	Purchasing and the Management of Materials	Wiley , latest

Scheme of Evaluation:

A	Final University Exam	70 Marks
B	Institute – Midterm Exam	30 Marks
C	Internal Evaluation	30+20 = 50 Marks

Session Plan: The course duration is of 36 sessions of 75 minutes each i.e. 45 hours

Sessions No.	Topic
1-2	Integrated Materials Management. Corporate Policy and Materials Management.
3-5	Organisation and Control. Materials Research. Materials Planning and Budgeting.
6-7	ABC Analysis. Codification and Standardisation. Source Selection.
8-9	Creative Purchasing. Purchase Systems.
10-11	Price Forecasting. Buying Seasonal Commodities. Purchasing Under Uncertainty.
12- 14	Purchasing of Capital Equipment. International Purchasing. Import Substitution: Prospects and Retrospects
15-16	Public Buying. Legal Aspects in Buying. Insurance Buying.
17-18	Buyer-Seller Relationship and Ethics in Buying
19 -20	Stores Management. Stores Systems and Procedures.
21-22	Incoming Materials Control. Stores Accounting and Stock Verification.
23-24	Obsolete, Surplus and Scrap Management. Value Analysis.
25-26	Material Handling. Transportation and Traffic Management
27-28	Inventory Management in India. Economical Ordering Quantity. Practical Inventory Systems.
29-30	Operation Research Techniques in Materials Management,
31-32	Role of PERT in Materials Management ,
33-36	Computers in Materials Management, Evaluation of Materials Management