

MF5014 MANUFACTURING MANAGEMENT

DETAILED SYLLABUS

OBJECTIVES

To introduce the concepts of manufacturing management and various manufacturing management functions to the students.

UNIT I PLANT ENGINEERING

Plant location– Factors affecting plant location– Techniques– Plant layout - principles – Types- Comparison of layouts – Materials handling – Principles – Factors affecting selection of Materials handling system – Types of materials handling systems – Techniques.

UNIT II WORK STUDY

Method study – Principles of motion economy – steps in method study – Tool and Techniques– Work measurement – Purpose – stop watch time study – Production studies – work sampling– Ergonomics – Value analysis.

UNIT III PROCESS PLANNING AND FORECASTING

Process planning – Aims of process planning – steps to prepare the detailed work sheets for manufacturing a given component – Break even analysis – Forecasting – Purpose of forecasting – Methods of forecasting – Time series – Regression and Correlation – Exponential smoothing.

UNIT IV SCHEDULING AND PROJECT MANAGEMENT

Scheduling – Priority rules for scheduling – sequencing – Johnson’s algorithm for job sequencing – job M machine problems – Project Network analysis – PERT/CPM – Critical path –Floats – Resource leveling – Queuing analysis.

UNIT V PERSONNEL AND MARKETING MANAGEMENT

Principles of Management – Functions of personnel management – Recruitment – Training – Motivation – Communication – conflicts – Industrial relations – Trade Union – Functions of marketing– Sales promotion methods – Advertising – Product packaging – Distribution channels – Market research and techniques.

Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
Question Papers
Results and Many more...

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REFERENCES

1. Dr. R. Kesavan, C. Elanchezian, and B.Vijayaramnath, Principles of Management – Eswar Press – Chennai – 2004
2. Dr. R. Kesavan, C.Elanchezian and B.Vijayaramnath, Production Planning and Control, Anuratha Publications, Chennai – 2008
3. Dr. R. Kesavan,C. Elanchezian and T.Sundar Selwyn, Engineering Management – Eswar Press, Chennai – 2005
4. Martand T. Telsang, Production Management, S.Chand & Co., 2007