

AMPR19 PRODUCTION PLANNING AND CONTROL

UNIT-1 INTRODUCTION

- 1.1 Objectives and benefits of planning and control-Functions of production control-Types of production-job- batch and continuous
- 1.2 Product development and design-Marketing aspect
- 1.3 Functional aspects-Operational aspect-Durability and dependability aspect aesthetic aspect.
- 1.4 Profit consideration-Standardization, Simplification & specialization- Break even analysis- Economics of a new design.

UNIT-2 WORK STUDY

- 2.1 Method study, basic procedure-Selection-Recording of process- Critical analysis,
- 2.2 Development- Implementation- Micro motion and memo motion study- work measurement
- 2.3 Techniques of work measurement- Time study- Production study- Work sampling- Synthesis from standard data- Predetermined motion time standards.

UNIT-3 PRODUCT PLANNING AND PROCESS PLANNING

- 3.1 Product planning-Extending the original product information
- 3.2 Value analysis-Problems in lack of product planning-Process planning and routing
- 3.3 Pre requisite information needed for process planning
- 3.4 Steps in process planning-Quantity determination in batch production
- 3.5 Machine capacity, balancing-Analysis of process capabilities in a multi product system.

Reference Books:

1. Samson Eilon, "Elements of Production Planning and Control", Universal Book Corpn.1984
2. Elwood S.Buffa, and Rakesh K.Sarin, "Modern Production / Operations Management", 8th Edition, John Wiley and Sons, 2000.
3. Kanishka Bedi, "Production and Operations management", 2nd Edition, Oxford university press, 2007.
4. Melynck, Denzler, " Operations management – A value driven approach" Irwin Mcgraw hill.