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

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CN5003 QUANTITATIVE TECHNIQUES IN MANAGEMENT

DETAILED SYLLABUS

OBJECTIVES

- To study the various quantitative methods applied to the elements of management.
- To study the effect of production management, finance management, decision theory and managerial economics.

UNIT I OPERATIONS RESEARCH

Introduction to Operations Research - Linear Programming – Graphical and Simplex Methods, Duality and Post – Optimality Analysis – Transportation and Assignment Problems.

UNIT II PRODUCTION MANAGEMENT

Inventory Control - EOQ - Quantity Discounts - Safety Stock - Replacement Theory - PERT and CPM - Simulation Models - Quality Control.

UNIT III FINANCIAL MANAGEMENT

Working Capital Management – Compound Interest and Present Value methods – Discounted Cash Flow Techniques – Capital Budgeting.

UNIT IV DECISION THEORY

Decision Theory – Decision Rules – Decision making under conditions of certainty, risk and uncertainty – Decision trees – Utility Theory.

UNIT V MANAGERIAL ECONOMICS

Cost Concepts – Break-even analysis – Pricing Techniques – Game theory Applications.

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- 1. Frank Harrison, E., The Managerial Decision Making Process, Houghton Mifflin Co., Boston, 1999.
- 2. Hamdy A.Taha, Operations Research: An Introduction, Prentice Hall, 2010.
- 3. Kumar, A.C.S, Operations Research, Yes Dee Publishing Pvt Ltd, 2015.
- 4. Levin, R.I, Rubin, D.S., and Stinson J., Quantitative Approaches to Management, McGraw Hill College, 1993.
- 5. S.L.Tang, Irtishad U.Ahmad, Syed M.Ahmed, Ming Lu, Quantitative Technique for Decision making in Construction, Hongkong University Press, HKU, 2004.
- 6. Schroeder, R.G, Operations Management, McGraw Hill, 2009.
- 7. Vohra, Nd., Quantitative Techniques in Management, Third Edition, Tata McGraw-Hill Company Ltd, 2007.