

UTTAR PRADESH TECHNICAL UNIVERSITY LUCKNOW



SYLLABUS

of

Humanities (NHU-501 & NHU-601)

3rd Year (V & VI Semester)

(Effective from Session 2015-2016)

NHU-501: Engineering Economics

L T P

2 0 0

Unit-1 Introduction to Engineering Economics and Managerial Economics

Concept of Efficiency, Theory of Demand , Elasticity of Demand, Supply and Law of Supply indifference Curves, Budget Line, Welfare Analysis, Scope of Managerial Economics, Techniques and Applications of Managerial Economics.

Unit-2 Market Structure

Perfect Competitions Imperfect- Monopolistic, Oligopoly, duopoly sorbent features of price determination and various market conditions.

Unit-3 Demand Forecasting and cost Estimation

Characteristics of Forecasts, Forecasting Horizons, Steps to Forecasting, Forecasting Methods, Seasonal Adjustments, Forecasting Performance Measures, Cost Estimation, Elements of cost, Computation of Material Variances Break-Even Analysis.

Unit-4 Management Aspects

Functions of Management, Project Management, Value Engineering, Project Evaluation, Decision Making.

NHU-601: INDUSTRIAL MANAGEMENT

L T P

2 0 0

Unit-I

Introduction: Concept, Development, application and scope of Industrial Management.

Productivity: Definition, measurement, productivity index, types of production system, Industrial Ownership.

Unit-II

Management Function: Principle of Management – Time and motion study, work simplification – process charts and flow diagrams, Production Planning.

Unit-III

Inventory Control: Inventory, Cost, Deterministic Models, Introduction to supply chain management.

Unit-IV

Quality Control: Process control, SQC, Control charts, Single, Double and Sequential Sampling, Introduction to TQM.