

**SARDAR PATEL UNIVERSITY**  
**Programme: BBA (Information Technology Management)**  
**Semester-IV**  
**Syllabus with effect from: November/December-2012**

<b>Paper Code: UM04CBBI01</b>	<b>Total Credit:3</b>
<b>Title Of Paper: Quantitative Techniques for Management – II</b>	

<b>Unit</b>	<b>Description in detail</b>	<b>Weighting (%)</b>
<b>I</b>	<b>Regression</b> Introduction, Meaning, Definition of regression Regression coefficients and their Properties (without proof) Difference between correlation and regression. Examples of regression Coefficient & regression lines	25%
<b>II</b>	<b>Transportation and Assignment problems</b> Introduction, Meaning, mathematical formulation of transportation problem, Unbalanced Transportation Problems <b>Methods of obtaining initial basic feasible solution to transportation problem:</b> North West corner method Matrix minima method Vogel's Approximation method. <b>Assignment problem: Meaning &amp; Mathematical formulation</b> Hungarian method (minimization & Maximization) Unbalanced assignment problem	25 %
<b>III</b>	<b>Network Analysis</b> Introduction, Application Network Diagram, Activities, Event, Sequencing, Rules of Drawing Network diagram Pert & Cpm Networks Calculation Of Est, Eft, Lst And Lft, Slack	25 %
<b>IV</b>	<b>Inventory Control</b> Meaning and importance of inventory management, Costs associated with Inventory management, Lead Time, Reorder Point <b>Levels of inventory:</b> EOQ with & Without Shortages (Assumption, related formulas & Examples) Average inventory level. <b>Inventory control Approaches:</b> ABC analysis VED analysis HML analysis SDE analysis SOS analysis (Concept only)	25 %

**Basic Text & Reference Books**

- Levin & Rubin: Statistics for Management, Prentice Hall of India, New Delhi.
- R.P. Hooda: Statistics for Business and Economics, Macmillan, New Delhi.
- S.D. Sharma: Operation Research, Kedar Nath & company, Meerut.
- J.K. Sharma: Quantitative Techniques for managerial decision, Macmillan India Ltd.
- N.D. Vohra: Quantitative Techniques in Management, Tata McGraw Hill, New Delhi.
- Kanti Swroop, Manmohan, Gupta: Operation Research

