**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: MSc(IT) Name of the Teacher: Jasdeep Kaur**

**Subject: Systems Approach to Management and Optimization Tech**

**Period : 1st and 5th**

**Paper : MS-14 Room No : 205**

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| **S. No** | **Date From** | | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | | Concepts of Computer Based Systems: Data, Information, Information Systems, Model of computer based information system. |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Basics of Operations Research (OR): Origin and Development of OR, Characteristics of OR, Models in OR,  OR and Decision Making, Role of Computers in OR, Limitations of OR |
| Week 3 | August 6, 2018 | August 11, 2018 | | Linear Programming: Mathematical Formulation,Graphical representation |
| Week 4 | August 13, 2018 | August 18, 2018 | | Introduction to Management Information System, Decision Support System and Knowledge Based Systems. |
| Week 5 | August 20, 2018 | August 25, 2018 | | Simplex method, Duality in Linear  programming, Dual Simplex Method. |
| Week 6 | August 27, 2018 | September 1, 2018 | | The Revised Simplex Method, Sensitivity Analysis. |
| Week 7 | September 3, 2018 | September 8, 2018 | | Special types of Linear Programming problems: Transportation |
| Week 8 | September 10, 2018 | September 15, 2018 | | Accounting Information System: Characteristics, sample system, subsystems for filling  customer order. |
| Week 9 | September 17, 2018 | September 22, 2018 | | order replenishment stock, performing general ledger processes; features. |
| Week 10 | September 24, 2018 | September 29, 2018 | | Use of Accounting Information System Package-Tally. |
| Week 11 | October 1, 2018 | October 8, 2018 | | Assignment problems. |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | Marketing Information System: Basic concepts, model, subsystems including Marketing Research, Marketing  Intelligence, Product, Place,Promotion and Pricing subsystems. |
| Week 13 | October 29, 2018 | November 3, 2018 | | Dynamic Programming: Deterministic & Probabilistic Dynamic Programming. |
| Week 14 | November 5, 2018 | November 10, 2018 | | Manufacturing Information System: Model and subsystems including Accounting information, Industrial  Engineering, Inventory, Quality and Cost Subsystems. |
| Week 15 | November 12, 2018 | November 17, 2018 | | Financial Information System: Model and Subsystems including Forecasting, Funds Management and Control Subsystems. |
| Week 16 | November 19, 2018 | November 22, 2018 | | Integer Programming: Introduction, Branch and Bound Techniques. Binary Linear Programming, Assignment and Traveling salesman problems. |
| Week 17 | November 26, 2018 | December 1, 2018 | | Human Resources Information Systems: Model and Subsystems including human resources research. Human resources intelligence, HRIS Database, HRIS output. UNI |
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