**CII – IL FUNCTIONAL EXCELLENCE COURSE COMPONENTS**

**EM-15: QUALITATIVE AND QUANTITATIVE ANALYSIS**

|  |  |  |  |
| --- | --- | --- | --- |
| **BLOCK** | **UNIT NOs** | **UNIT TITLE** |  |
| **I** |  | **QUALITATIVE TECHNIQUES** |  |
|  | 1 | Overview of qualitative approach |
|  | 2 | Various qualitative techniques |
|  | 3 | Qualitative data analysis |
| **II** |  | **STATISTICAL METHODS** |  |
|  | 4 | Fundamentals of Statistics |
|  | 5 | Probability distributions |
|  | 6 | Parametric and Non-parametric tests |  |
| **III** |  | **MATHEMATICAL METHODS** |  |
|  | 7 | Optimization techniques |
|  | 8 | Introduction to game theory |
|  | 9 | Decision analysis |  |
|  | 10 | Queuing theory |  |
| **IV** |  | **COMPUTER APPLICATIONS FOR EMPIRICAL ANALYSIS** |  |
|  | 11 | Overview of data analysis tools |
|  | 12 | Using MS Excel for data analysis |
|  | 13 | Using open source data analysis software |  |