**CII – IL FUNCTIONAL EXCELLENCE COURSE COMPONENTS**

**FE-11: LOGISTICS AND SUPPLY CHAIN MODELING**

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| **BLOCK** | **UNIT NOs** | **UNIT TITLE** |  |
| **I** |  | **FUNDAMENTALS OF OPTIMIZATION MODELS** |  |
|  | 1 | Introduction to models and modeling systems |
|  | 2 | Linear programming |
|  | 3 | Mixed integer programming |
| **II** |  | **LOCATION AND PRODUCTION DECISIONS** |  |
|  | 4 | Location and Layout Decisions |
|  | 5 | Production Planning & Control Decisions |
| **III** |  | **INVENTORY MODELS** |  |
|  | 6 | Cycle Inventory Models |
|  | 7 | Safety Stock Models |