# Ch. Ranbir Singh State Institute of Engineering & Technology, Jhajjar

**DEPARTMENT OF MECHANICAL ENGINEERING**

IV Yr. VII Semester (Mechanical Engineering)

### LESSON PLAN

Program : **B. Tech.**

Year & Sem. : **IV / VII**

Course No. : **PEC-ME-403G**

Course Title : **PROJECT MANAGEMENT**

Max Marks **: 75**

No. of Total Lectures **: 46**

Schedule : **3L+0T=3**

Lecturer : **Satyapal Yadav**

**Recommended Books:**

1. Project Management handbook, Cleland , D.I. and W.R. King, USA.
2. Project Management Body of Knowledge (PMBOK), Project.
3. Handbook for project-oriented organization, Rath S. Hoogland, R. and Turner, J.R.
4. Clifford F Gray, Erik W Larson, “Project Management-The Managerial Process”, Tata McGraw-Hill Publishing Co Ltd
5. Jack Meredith, Samuel J. Mantel Jr. “Project Management- A Managerial Approach”, John Wiley and Sons
6. John M Nicholas “Project Management for Business And Technology” Prentice Hall of India Pvt Ltd
7. James P Lewis “Project Planning, Scheduling And Control” Tata McGraw-Hill Publishing Co Ltd

**Lesson Plan :**

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| **Lect. No(s)** | **Ref. No.** | **Topics to be covered** |
| **Unit I** |
| 1 | 1.1 | *Project Management* : Project Management Concepts, |
| 2 | 1.2 | Project Planning, |
| 3 | 1.3 | Resource Scheduling, |
| 4 | 1.4 | Critical Chain Scheduling, |
| 5 | 1.5 | Project Quality Management, |
| 6-7 | 1.6 | Project Performance Measurement and Control, |
| 8 | 1.7 | Project Closure/Termination, |
| 9 | 1.8 | Managing Project Teams, |
| 10 | 1.9 | IT in Project. |
| 11 | 1.10 | *International Projects* : Issues in Managing International Projects. |
| 12 | 1.11 | Selection and Training of Employees, |
| 13 | 1.12 | Cross Cultural Consideration. |
| **Unit II** |
| 14 | 2.1 | *Theory & Background* : Definitions, Hard & Soft Projects, |
| 15 | 2.2 | Multi Project Management, |
| 16 | 2.3 | Program Management, |
| 17 | 2.4 | Project Phases, |
| 18-19 | 2.5 | Project Control Project Groups. Go/no go decisions. |
| 20 | 2.6 | *Idea Phase* : Idea Selection, |
| 21 | 2.7 | Development of Project Contract, |
| 22 | 2.8 | Determination of Project Organization, |
| 23-24 | 2.9 | Development of Project Order. |
| **Unit III** |
| 25 | 3.1 | *Definition Phase* : Phase Steps, |
| 26 | 3.2 | Project Description, |
| 27 | 3.3 | Project Results, |
| 28 | 3.4 | Work Breakdown Structure, |
| 29 | 3.5 | Input Management, |
| 30 | 3.6 | Project Leadership. |
| 31-32 | 3.7 | *Planning Phase* : Development of Responsibility Matrix, |
| 33-34 | 3.8 | Detail Project Planning, |
| 35-36 | 3.9 | Risk & Change Analysis, |
| 37 | 3.10 | Arranging Input. |
| **Unit IV**  |
| 38-39 | 4.1 | *Implementation Phase* : Project Monitoring & Control, |
| 40-41 | 4.2 | Project Adjustment, |  |
| 42 | 4.3 | Dealing with People. |
| 43-46 | 4.4 | *Implementation & After Care* : Evaluation and Closure of a Project. |

**(Satyapal Yadav)**

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