

**JIS College of Engineering**  
**(NAAC 'A' Accredited Autonomous Institution)**

**Syllabus for B. Tech (CIVIL ENGINEERING)**  
**4<sup>TH</sup> YEAR 8<sup>TH</sup> SEM**

**Paper Name: Project Management**

**Paper Code: HU 801B**

**Contact: 3L+1T**

**Credits: 4**

**Course contents**

1. **Project Management Concepts:** Concept and Characteristics of a Project, Importance of Project Management. [1]
2. **Project Planning:** Project Evaluation, Financial Sources, Feasibility Studies. [4]
3. **Project Scheduling:** Importance of Project Scheduling, Work Breakdown Structure and Organization Breakdown Structure, Scheduling Techniques – Gantt chart and LOB, Network Analysis – CPM/PERT. [6]
4. **Time Cost Trade-off Analysis** – Optimum Project Duration. [2]
5. **Resource Allocation and Leveling.** [2]
6. **Project Life Cycle.** [2]
7. **Project Cost** – Capital & Operating Costs, Project Life Cycle Costing, Project Cost Reduction Methods. [2]
8. **Project Quality Management:** Concept of Project Quality, TQM in Projects, Project Audit. [1]
9. **Software Project Characteristics and Management** [2]
10. **IT in Projects:** Overview of types of Software's for Projects, Major Features of Project Management Software's like MS Project, Criterion for Software Selection. [2]

**References**

1. Gopalkrishnan P. and Rama Mmoorthy: Text Book of Project Management, Macmillan
2. Nicholas John M.: Project Management for Business and Technology – Principles and Practice, Prentice Hall India, 2<sup>nd</sup> Edn.
3. Levy Ferdinand K., Wiest Jerome D.: A Management Guide to PERT/CPM with ERT/PDM/DCPM and other networks, Prentice Hall India, 2<sup>nd</sup> Edn.
4. Mantel Jr., Meredith J. R., Shafer S. M., Sutton M. M., Gopalan M. R.: Project Management: Core Text Book, Wiley India, 1<sup>st</sup> Indian Edn.
5. Maylor H.: Project Management, Pearson, 3<sup>rd</sup> Edn.
6. Nagarajan K.: Project Management, New Age International Publishers, 5<sup>th</sup> Edn.
7. Kelkar. S.A, Sotware Project Management: A concise Study, 2<sup>nd</sup> Ed., PHI.