

M. Tech. – I Semester - I

Subject Name: Project Planning and Appraisal

Subject Code: MTTC14106

Type of course: PE - II

Prerequisite: Basic Knowledge on the project planning concepts and management.

Rationale: To understand the Concepts of Project Formulation from planning to execution of projects, Feasibility analysis in Project Management and network analysis tools for cost and time estimation, Fundamentals of project analysis and appraisal, How projects are implemented, monitored and evaluated.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	150
3	0	2	4	60	25	15	30	20	

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests **CA2:** Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems **TEE:** Term End Examination **TEP:** Term End Practical Exam (Performance and viva on practical skills learned in course) **CA3:** Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

Sr. No.	Topics	Teaching Hrs.	Module Weightage
1	Project Formulation Generation and screening of project ideas, project identification, preliminary analysis, market, technical, financial, economic and ecological-pre-feasibility report and its clearance, project estimates and techno-economic feasibility report, detailed project report, different project clearances required	10	20%
2	Project Appraisal NPV, BCR, IRR, ARR, urgency-payback period, assessment of various methods, Indian practice of investment appraisal, international practice of appraisal, analysis of risk, different methods for selection of a project and risk analysis in practice, ownership structures; BOT, BOLT, BOOT models.	10	25%
3	Project Control And Monitoring Parameters of project performance, time, cost and quality and their interrelationships, schedule and cost control tools and techniques, performance reporting, audit, corrective and preventive actions, fund flow control, management information system and application of management software.	15	30%

4	Regulatory Frameworks Governing Projects National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation; National Environmental Policy (2006) – Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP), PPP based projects, guidelines for formulation of project using PPP mode, standard procedure of formulating tender contract documents for the government and multilateral organizations.	10	25%
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Suggested Specification table with Marks (Theory/Practical):

% Distribution of Marks					
R Level	U Level	A Level	N Level	E Level	C Level
20%	20%	20%	10%	20%	10%

Legends: R: Remembrance, **U:** Understanding; **A:** Application, **N:** Analyze, **E:** Evaluate **C:** Create and above Levels (**Revised Bloom’s Taxonomy**)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Text Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Projects Preparation, Appraisals, Budgeting and Implementation	Prasanna Chandra	Tata Mc Graw Hill Publishing Co., Ltd., New Delhi. (ISBN: 978-0074516287)	1995	3 rd
2	Project Planning Appraisal & Control	Dr. Sanjeev Bansal, Dr. Ritu Wadhwa	Kojo Press (ISBN: 978-9388955201)	2007	1 st
3	Manual for the preparation of Industrial Feasibility Studies	United Nations Industrial Development Organization	(IDBI Reproduction) Bombay (ISBN 92-1-106269-1)	1987	2 nd
4	Construction Accounting and Financial Management	Steven J. Peterson	Pearson Education International, NJ.(ISBN: 978-0132675055)	2011	3 rd

5	Construction Project Management	Kumar Neeraj Jha	Pearson Education International, New Delhi. (ISBN: 978-9332542013)	2012	2 nd
6	Project Management and Appraisal	Sitangshu Khatua	Oxford University Press (ISBN: 978-0198066903)	2015	1 st

Course Outcome:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % weightage
CO-1	Formulate project concept and its feasibility study. (R,U,A – Cognitive Level)	10%
CO-2	Demonstrate different methods of appraisals. (A,N, E – Cognitive Level)	20%
CO-3	To control the ongoing construction projects by using different tools and methods. (A,N, E, C – Cognitive Level)	20%
CO-4	Explore different assessment methods of project appraisal. (R,U, A,N,E – Cognitive Level)	30%
CO-5	Understand the regulatory frameworks governing projects (A,N, E, C – Cognitive Level)	20%

LIST OF PRACTICALS: (Minimum ----- performed.)

1. Prepare case study on project formulation.
2. Project cash-flow forecasting and analysis.
3. Project on market Analysis and Appraisal
4. Project on monitoring methods.
5. Project on evaluation methods

List of Open Source/learning website:

- <https://www.adb.org/documents/handbook-integrating-risk-analysis-economic-analysisprojects>
 - Asian Development Bank Handbook on economic analysis.
- <https://www.adb.org/documents/guidelines-economic-analysis-projects>
 - Guidelines for the economic analysis of projects
- <https://www.adb.org/documents/handbook-borrowers-financial-management-andanalysis-projects>
 - Guidelines for financial management and analysis
- <https://projects.worldbank.org/en/projects-operations/products-and-services/brief/projectcycle>
 - World Bank Project Cycle