



COURSE PLAN – PART I			
Name of the programme and specialization	B.Tech. (Production Engineering)		
Course Title	PROJECT MANAGEMENT		
Course Code	PROE11	No. of Credits	3
Course Code of Prerequisite subject(s)	-	-	-
Session	Jan 2023	Section (if, applicable)	-
Name of Faculty	R.Rajesh / Kiran K. John	Department	Production Engg.
Email	414119005@nitt.edu 414121002@nitt.edu	Telephone No.	9043210541 / 7025711330
Name of Course Coordinator(s) (if, applicable)	Dr.D Lenin Singaravelu		
E-mail	--	Telephone No.	---
Course Type	<input type="checkbox"/> Core course <input checked="" type="checkbox"/> Elective course		
Syllabus (approved in BoS)			
PROE11 PROJECT MANAGEMENT			
<p>Introduction - Project Management: An Overview-Types, Characteristics of Projects-Project life cycle. Identification of investment opportunities-Screening and Selection</p> <p>Project Appraisal, Market and demand analysis-market survey-demand forecasting methods-Technical analysis-manufacturing process, materials-product mix, plant location-project charts and layouts.</p> <p>Financial analysis – cash flows for project appraisal- Investment evaluation using capital budgeting techniques - net present value, profitability index internal rate of return, payback period, accounting rate of return</p> <p>Mathematical Techniques for project evaluation – Linear programming, goal programming, Network technique for Project Management – CPM, PERT, Multiple projects and constraints, scheduling. Performance metrics for project evaluation.</p> <p>Organization systems for project implementation- Work Breakdown-coordination and control-Project Management Soft wares, Role of AI in project management</p>			

COURSE OBJECTIVES

- To enable the students to understand the methods for project identification and appraisal.
- To plan and schedule a project with resource and environmental constraints.
- To develop quantitative methods for project selection, risk assessment, monitoring and control.

COURSE OUTCOMES (CO)

Course Outcomes	Aligned Programme Outcomes (PO)
1. Understand the process and approaches for executing projects	1,2,3,5,7
2. Develop and analyze quantitative models for project selection and scheduling	1,2,3,7
3. Apply engineering and management principles to manage real time projects considering constraints.	1,2,3,7
4. Apply tools for managing complex projects	1,2,3,5,7
5. Analyse the outcome and offer suggestions for improvement	1,2,3,4,7,10,11

COURSE PLAN – PART II**COURSE OVERVIEW**

The aim of this course is to enable the students to understand the concepts of project management, market and demand analysis, Financial analysis, and systems approach and to handle the complex tasks of time estimation and project scheduling, including PERT and CPM.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1	Introduction - Project Management: An Overview Types, Characteristics of Projects Project life cycle	PPT
2	Week 2	Identification of investment opportunities Screening and Selection Project Appraisal Market and demand analysis	
3	Week 3	Market survey - demand forecasting methods Technical analysis - manufacturing process Materials - product mix	
4	Week 4	Plant location Project charts and layouts	
5	Week 5	Financial analysis – cash flows for project appraisal Investment evaluation using capital budgeting techniques Net present value	
6	Week 6	Profitability index internal rate of return	

		Payback period Accounting rate of return	PPT
7	Week 7	Mathematical Techniques for project evaluation Linear programming, goal Programming	
8	Week 8	Network technique for Project Management – CPM, PERT	
9	Week 9	Multiple projects and constraints Scheduling	
10	Week 10	Performance metrics for project evaluation Organization systems for project implementation	
11	Week 11	Work Breakdown Coordination and control	
12	Week 12	Project Management Soft wares Role of AI in project management	
13	Week 13	Compensation Week	-
14	Week 14	End Semester	-

COURSE ASSESSMENT METHODS (shall range from 4 to 6)				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Cycle test -1	Week-5	60 Minutes	20
2	Cycle test -2	Week-10	60 Minutes	20
3	Assignment		---	10
CPA	Compensation Assessment	Week-12	60 Minutes	20
4	Final Assessment	Week-14	120 Minutes	50
COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)				
Mention the ways in which the feedback about the course is assessed and indicate the attainment also: <ul style="list-style-type: none"> • Feedback from the students during class committee meetings. • Anonymous feedback through questionnaire (Mid of the semester & End of the semester) 				
COURSE POLICY (including compensation assessment policy to be specified)				
MODE OF CORRESPONDENCE (email/ phone etc.)				
1. All the students are advised to check their NITT WEBMAIL regularly. All the correspondence (schedule of classes schedule of assessment course material any other information regarding this course) will be done through their webmail only.				
2. Queries (if required) may be emailed to me / contact me on Monday and Friday with prior intimation for any clarifications				

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- **At least 75% attendance in each course is mandatory.**
- **A maximum of 10% shall be allowed under On Duty (OD) category.**
- Students with **less than 65% of attendance** shall be prevented from writing the final assessment and **shall be awarded 'V' grade.**

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION, IF ANY

FOR APPROVAL

Course Faculty [Signature] CC- Chairperson [Signature] HOD [Signature] 10/01/22 c. S. Ti. N. L.

1) [R. RAJESH]

2) [Signature]
[Kiran K. John]