



DEPARTMENT OF PRODUCTION ENGINEERING

COURSE PLAN – PART I			
Name of the programme and specialization	M. Tech INDUSTRIAL ENGINEERING AND MANAGEMENT		
Course Title	PROJECT MANAGEMENT		
Course Code	PR 672	No. of Credits	3
Course Code of Pre-requisite subject(s)	-	-	-
Session	January 2019	Section (if, applicable)	-
Name of Faculty	Dr. S. Prasanna Venkatesan	Department	Production Engineering
Official Email	prasanna@nitt.edu	Telephone No.	0431-2503514
Name of Course Coordinator(s) (if, applicable)	--		
Official E-mail		Telephone No.	
Course Type (please tick appropriately)	<input type="checkbox"/> Core course <input checked="" type="checkbox"/> Elective course		
<b>Syllabus (approved in BoS)</b>			
<p>Introduction - Project Management: An Overview – Types, Characteristics of Projects – Project life cycle. Identification of investment opportunities - Screening and Selection, Project Appraisal,</p> <p>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 Mathematical Techniques for project evaluation – Linear programming, goal programming, Network technique for Project Management – CPM, PERT, Multiple projects and constraints, scheduling.</p> <p>Organization systems for project implementation- Work Breakdown-coordination and control- Project Management Soft wares</p>			



<b>Course objectives</b>	
<ol style="list-style-type: none"> <li>To enable the students to understand the methods for project identification and appraisal.</li> <li>To plan and schedule a project with resource and environmental constraints.</li> <li>To develop quantitative methods for project selection, risk assessment, monitoring and control.</li> </ol>	
<b>MAPPING OF COs with POs</b>	
<b>Course Outcomes</b>	<b>Programme Outcomes (PO) (Enter Numbers only)</b>
1. Understand the process and approaches for executing projects	3, 5, 6, and 7
2. Develop and analyze quantitative models for project selection and scheduling	
3. Apply engineering and management principles to manage real time projects considering constraints	

<b>COURSE PLAN – PART II</b>			
<b>COURSE OVERVIEW</b>			
Project Management deals with the methods and techniques that helps in effective planning and execution of tasks or a group of tasks from the concept to successful commissioning with in a predetermined cost and time.			
<b>COURSE TEACHING AND LEARNING ACTIVITIES</b>			( Add more rows)
S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	1	Project Management: An Overview,Types, Characteristics of Projects,	Using one note and stylus
	2	Project life cycle, Identification of investment opportunities - Screening and Selection, Project Appraisal,	
	3	Market appraisal, market survey	
	4	Demand forecasting methods	Using Excel and OM explorer
	5	Demand forecasting methods, Technical appraisal, Financial appraisal introduction	Using one note and stylus
2	<b>Test I</b>		
3	6	Financial analysis- cash flows for project appraisal	Using one note and stylus
	7	Investment evaluation using capital budgeting techniques, NPV, IRR	
	8	PBP, PI, ARR,	



	9	Quantitative models for project selection	Using one note and stylus, GAMS tutorial
	10	Network techniques for project management, crashing	
4	<b>Test II</b>		
5	11	Project implementation, risk management	PPT
6	12	Work break down structure	
7	13	Performance measures, softwares	
8	<b>End Semester</b>		

**COURSE ASSESSMENT METHODS (shall range from 4 to 6)**

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Test 1	End of 5 week	1hr	20
2	Test 2	End of 10 week	1hr	20
3	Assignment/Objective test	End of week 12	30 min	10
4	Final Assessment*	End of week 13	3hr	50

**ESSENTIAL READINGS : Textbooks, reference books Website addresses, journals, etc**

1. S.Choudry "Project Management", ", Tata McGraw Hill,27th Ed, 2006
2. Prasanna Chandra, "Projects – Planning, Analysis, Financing, Implementation and Review", Tata McGraw Hill,4th Ed, 1997
3. Mike Field and Laurie Keller, "Project Management", Thompson Business press, 2002
4. Gido and Clements, "Successful project management", 2nd edition; Thompson south-western, 2003
5. John M Nicholas, "Project Management for business and technology", 2nd edition, Pearson Education Asia, 2001
6. <http://nptel.ac.in/courses/110104073/>

**COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)**

**Course Exit survey will be collected at the end of the semester before the start of semester examination through online. Students can log in their MIS account to give the feedback. Mid-semester anonymous feedback shall be collected to improve the teaching-learning process. Apart from this, students can share feedback during class committee meetings.**



**COURSE POLICY** (including compensation assessment to be specified)

Attending classes regularly and continuously is required for the students to understand the concepts.

Participation in the discussions is mandatory during the tutorial classes.

If any student is not able to attend any of the continuous assessments (1 and 2) due to genuine reason, student is permitted to attend a retest/compensation assessment with 20% weightage. A candidate may appear for retest only once.

Attending the end semester is a must.

**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**

The Course faculty is available for consultation based on prior appointment to his email at - [prasanna@nitt.edu](mailto:prasanna@nitt.edu)

**FOR APPROVAL**

Course Faculty  CC- Chairperson  HOD 



**Guidelines**

- a) The number of assessments for any theory course shall range from 4 to 6.
- b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	2017	2016	2015	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

- e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- f) Absolute grading policy shall be incorporated if the number of students per course is less than 10.
- g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.