



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF PRODUCTION ENGINEERING

COURSE PLAN – PART I			
Name of the programme and specialization	B.Tech Instrumentation and Control Engineering, I Semester		
Course Title	Engineering Practice		
Course Code	PRIR11	No. of Credits	2
Course Code of Pre-requisite subject(s)			
Session	JULY 2019	Section (if, applicable)	A
Name of Faculty	Dr. P. Senthil	Department	Production Engineering
Official Email	senthil@nitt.edu	Telephone No.	3513
Name of Course Coordinator(s) (if, applicable)	-		
Official E-mail	-	Telephone No.	-
Course Type (please tick appropriately)	<input type="checkbox"/> Core course	<input type="checkbox"/> Elective course	<input checked="" type="checkbox"/> Lab
Syllabus (approved in BoS)			
<p>Carpentry Wood sizing exercise in planning, marking, sawing, chiseling and grooving to make</p> <ol style="list-style-type: none"> 1. T through half lap halving joint 2. Scarf with Tenon joint <p>Welding Exercise in arc welding for making</p> <ol style="list-style-type: none"> 1. Lap joint 2. Butt joint <p>Foundry Preparation of sand mould for the following</p> <ol style="list-style-type: none"> 1. Flange 2. Hand wheel <p>Fitting Preparation of joints, markings, cutting and filling for making</p> <ol style="list-style-type: none"> 1. Square Fitting 2. V Fitting <p>Sheet metal Making of small parts using sheet metal</p> <ol style="list-style-type: none"> 1. Square Tray 2. Dust Pan 			
COURSE OBJECTIVES			
Introduction to the use of tools and machinery in Carpentry, Welding, Foundry, Fitting and Sheet Metal Working			

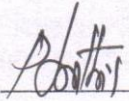
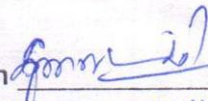
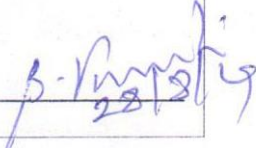


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COURSE PLAN – PART II				
COURSE OVERVIEW				
1. Making of Mould using foundry technique 2. Joining of Metal by welding process 3. Working on wood, metal and sheet metal to make some shapes				
COURSE TEACHING AND LEARNING ACTIVITIES				
S.No.	Week/Contact Hours	Topic	Mode of Delivery	
1	1st Week	Introduction to EP/ Demonstration on Experiment		
FITTING				
2	2 nd Week	Square Fitting	Practical	
3	3 rd Week	V Fitting	Practical	
WELDING				
4	4 th Week	Lap Joint	Practical	
5	5 th Week	Butt Joint	Practical	
CARPENTRY				
6	6 th Week	T through half lap halving joint	Practical	
7	7 th Week	Scarf with Tenon joint	Practical	
FOUNDRY				
8	8 th Week	Flange pattern	Practical	
9	9 th Week	Hand wheel pattern	Practical	
SHEET METAL OPERATION				
10	10 th Week	Square tray	Practical	
11	11 th Week	Dust pan	Practical	
12	12 th Week	Compensation Lab	Practical	
COURSE ASSESSMENT METHODS (shall range from 4 to 6)				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Regular Practical Lab	Every Lab class	150 mins	70%



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2	End Practical Examination *	End of semester	180 mins	30%
*mandatory; refer to guidelines on page 4				
COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)				
Online Feedback will be collected at the end of semester				
COURSE POLICY (including compensation assessment to be specified)				
MODE OF CORRESPONDENCE (email/ phone etc) Students can contact in person or through email for clarifying doubts.				
COMPENSATION ASSESSMENT POLICY If any student is not able to attend any of the lab session due to genuine reason, student is permitted to attend one compensation lab before end semester exam				
ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)				
<ul style="list-style-type: none">➤ 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				
<ul style="list-style-type: none">➤ 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.				
FOR APPROVAL				
Course Faculty <u></u> CC- Chairperson <u></u> HOD <u></u> DHANALAKSHMI K.				



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Guidelines

- The number of assessments for any theory course shall range from 4 to 6.
- Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- 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	or (Class average/2) whichever is greater.		40%

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