



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF PRODUCTION ENGINEERING

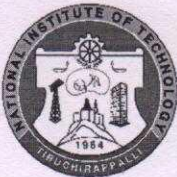
COURSE PLAN – PART I			
Name of the programme and specialization	B.Tech – Electronics and Communication Engineering (Sec A)		
Course Title	ENGINEERING PRACTICE		
Course Code	PRIR11	No. of Credits	02
Course Code of Pre-requisite subject(s)	-		
Session	July 2022	Section (if, applicable)	
Name of Faculty	Dr. Prakash Kumar	Department	Production Engineering
Official Email	prakashkumar@nitt.edu	Telephone No.	8789250832
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)			
<ul style="list-style-type: none"> • Foundry: Mould preparation for Flange and Hand Wheel, Plastic moulding / Wax moulding. • Welding: Fabrication of Butt Joint and Fabrication of Lap Joint. • Carpentry: Wood sizing exercise in planning, marking, sawing, chiseling and grooving to make; Tee Through Halving Joint and Dovetail Scarf Joint. • Fitting: Preparation of joints, markings, cutting and filling for making; Semi-circle part with the given work piece, Dovetail part with the given work piece. • Sheet metal: Fabrication of Dust Pan and Fabrication of Corner Tray. 			
COURSE OBJECTIVES			
<ul style="list-style-type: none"> • To use hand tools and machinery in Carpentry, welding shop, Foundry, Fitting shop and Sheet Metal work. • To manufacture engineering products or prototypes 			
MAPPING OF COs with POs			
Course Outcomes	Programme Outcomes (PO) (Enter Numbers only)		
1. To impart knowledge on selection of suitable manufacturing process for the typical component.	1, 2, 3, 5, 6 and 9		
2. To learn the various methods and types of welding, welding processes, sheet metal.	1, 2, 4, 7, 8 and 10		
3. To enable students to solve practical work related to Carpentry and Fitting.	1, 2, 5, 9, 10 and 11		



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4. Produce simple engineering products or prototypes.	1, 2, 4, 7, 8 and 10
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COURSE PLAN – PART II			
COURSE OVERVIEW			
<ul style="list-style-type: none"> Knowledge of contextual factors impacting the engineering discipline. Application of systematic engineering synthesis and design for manufacturing processes. 			
COURSE TEACHING AND LEARNING ACTIVITIES (Add more rows)			
S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1	Introduction to EP/ Demonstration on Experiment	
FITTING			
2	Week 2	Rectangle	Practical
3	Week 3	V Joint	Practical
WELDING			
4	Week 4	Butt Joint	Practical
5	Week 5	Lap Joint	Practical
CARPENTRY			
6	Week 6	T through Half Lap Halving Joint	Practical
7	Week 7	Scarf with Tenon Joint	Practical
FOUNDRY			
8	Week 8	Flange	Practical
9	Week 9	Hand Wheel	Practical
SHEET METAL OPERATION			
10	Week 10	Square Tray	Practical
11	Week 11	Dust Pan	Practical
12	Week 12	Viva-voce	
COURSE ASSESSMENT METHODS (shall range from 4 to 6)			



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Regular Practical Lab			70
2	End Examination*	Week 12/13	3 hrs	30

*mandatory; refer to guidelines on page 4

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

1. Feedback from the students during class committee meeting
2. End semester feedback on course outcomes

COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE

Students can contact personally 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)

- 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 faculty is available for consultation at times as per the intimation given by the faculty



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FOR APPROVAL		
Course Faculty <u>PRAKASH KUMAR</u>	CC- Chairperson <u>[Signature]</u>	HOD <u>[Signature]</u>

PROFESSOR AND HEAD
DEPARTMENT OF ELECTRONICS
AND COMMUNICATION ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI-620 015.



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.