

## NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

### **DEPARTMENT OF PRODUCTION ENGINEERING**

	COURCE DI ANI	DAREN				
Name of the programme and specialization	B.Tech. – Computer Science and Engineering					
Course Title	ENGINEERING PRACTICE					
Course Code	urse Code PRIR11 No. of Cre					
Course Code of Pre- requisite subject(s)	-					
Session	July 2023	Section (if, applicable)	В			
Name of Faculty	Dr. Vimal K E K	Department	Production Engineering			
Official Email	vimal@nitt.edu	Telephone No.	7708539715			
Name of Course Coordinator(s) (if, applicable)		Tolophono No				
Official E-mail		Telephone No.				
Course Type (please tick appropriately)	Core course	Elective cou	rse 🗸 Lab			
Syllabus (approved in	Ros)					
<ul> <li>Foundry: Mould preparation for Flange and Hand Wheel, Plastic moulding / Wax moulding.</li> <li>Welding: Fabrication of Butt Joint and Fabrication of Lap Joint.</li> <li>Carpentry: Wood sizing exercise in planning, marking, sawing, chiseling and grooving to make; Tee Through Halving Joint and Dovetail Scarf Joint.</li> <li>Fitting: Preparation of joints, markings, cutting and filling for making; Semi-circle part with the given work piece.</li> <li>Sheet metal: Fabrication of Dust Pan and Fabrication of Corner Tray.</li> </ul>						
<b>COURSE OBJECTIVES</b>						
<ul> <li>To use hand tools and machinery in Carpentry, welding shop, Foundry, Fitting shop and Sheet Metal work.</li> <li>To manufacture engineering products or prototypes</li> </ul>						
MAPPING OF COs with	POs					
Course Outcomes		Programme Outcomes (PO) (Enter Numbers only)				
To impart knowledge process for the typical	ufacturing	1, 2, 3, 5, 6 and 9				
<ol> <li>To learn the various methods and types of welding, welding processes, sheet metal.</li> <li>1, 2, 4, 7, 8 a</li> </ol>						
<ol> <li>To enable students to solve practical work related to Carpentry and Fitting.</li> <li>1, 2, 5, 9, 10 and 1</li> </ol>						
the second secon	The state of the s					



# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALL

4 Produce simple engineering products as products	
<ol><li>Produce simple engineering products or prototypes.</li></ol>	1, 2, 4, 7, 8 and 10
	1, 2, 1, 1, 0 and 10

		COU	RSE PLAN – PART			
	SE OVERVIEW				and the same of	
• K	(nowledge of contextua	al factors i	mpacting the engine	ering discip	line.	
• A	application of systemati	c enginee	ering synthesis and o	design for m	anuact	uring processes.
	SE TEACHING AND LI	EARNING	ACTIVITIES		( Ad	d more rows)
S.No.	Week/Contact Hours		Topic		Мо	de of Delivery
1	Week 1	Introdu	ction to EP/ Demons Experiment	stration on		
2	Week 2	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation				Practical
3	Week 3	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation				Practical
4	Week 4	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation				Practical
5	Week 5	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation				Practical
6	Week 6	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical	
7	Week 7	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical	
8	Week 8	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical	
9	Week 9	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical	
10	Week 10	Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical	
11	Week 11		Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical
12	Week 12		Fitting, Welding, Carpentry, Foundry Sheet Metal Operation			Practical
13	Week 13	Viva-voce				
OURSE	ASSESSMENT MET	HODS (s	hall range from 4 to	6)		
.No.	Mode of Assessment		Week/Date	Duration		% Weightage
1	Regular Practical I	Regular Practical Lab				70
2	End Examination*		Week 13/14	3 hrs		30
nandato	ory; refer to guideline	es on pag	ge 4			

Page 2 of 4



#### NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

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.

programmes.				
ADDITIONAL INFORMATION	N, IF ANY			
FOR APPROVAL				
Course English	00.01	the starts	HOD Smalbha	n
Course Faculty	_ CC- Chairperson <sub>-</sub>	0-619/23	HOD	
		Kajeswan Snid	har	