



**NATIONAL INSTITUTE OF TECHNOLOGY : TIRUCHIRAPPALLI – 620015  
DEPARTMENT OF PRODUCTION ENGINEERING**

COURSE PLAN – PART I			
<b>Name of the programme and specialization</b>	<b>B.Tech. – Electronic and Communication Engineering – I Semester</b>		
<b>Course Title</b>	<b>ENGINEERING PRACTICE</b>		
<b>Course Code</b>	<b>PRIR 11</b>	<b>No. of Credits</b>	<b>02</b>
<b>Course Code of Prerequisite subject(s)</b>	-		
<b>Session</b>	<b>July - 2019</b>	<b>Section (if, applicable)</b>	<b>A &amp; B</b>
<b>Name of Faculty</b>	<b>Dr. R. Jeyapaul and Dr. V. Senthilkumar</b>	<b>Department</b>	<b>Production Engineering</b>
<b>Email</b>	<b>jeyapaul@nitt.edu vskumar@nitt.edu</b>	<b>Telephone No.</b>	<b>9444290049 9500403991</b>
<b>Name of Course Coordinator(s) (if, applicable)</b>	-		
<b>E-mail</b>	-	<b>Telephone No.</b>	-
<b>Course Type (Please tick appropriately)</b>	<input checked="" type="checkbox"/> <b>Core course (Lab)</b> <input type="checkbox"/> <b>Elective course</b>		
<b>Syllabus (approved in BoS)</b>			
<p><b>Foundry</b> Preparation of sand mould for the following</p> <ol style="list-style-type: none"> <li>1. Flange</li> <li>2. Hand wheel</li> </ol> <p><b>Welding</b> Exercise in arc welding for making</p> <ol style="list-style-type: none"> <li>1. Butt joint</li> <li>2. Lap joint</li> </ol>			

**Carpentry**

Wood sizing exercise in planning, marking, sawing, chiseling and grooving to make

1. T-joint
2. Tenon-joint

**Fitting**

Preparation of joints, markings, cutting and filling for making

1. Square
2. V-joint

**Sheet metal**

Making of small parts using sheet metal

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.

**MAPPING OF COs with POs**

<b>COURSE OUTCOMES (CO)</b>	<b>Programme Outcomes (PO) (Enter Numbers only)</b>
CO1: To impart knowledge on selection of suitable manufacturing process for the typical component.	1, 2, 3, 5, 6, 9
CO2: To learn the various methods and types of welding, welding processes, sheet metal.	1, 2, 4, 7, 8, 10
CO3: To enable students to solve practical work related to Carpentry and Fitting.	1, 2, 5, 9, 10, 11
CO4: Prepare the different joints in roofs, doors, windows and furniture	1, 2, 4, 7, 8, 10
CO5: Apply the knowledge of production process in Foundry	1, 2, 3, 5, 6, 9

## COURSE PLAN – PART II

### COURSE OVERVIEW

- ▶ Knowledge of contextual factors impacting the engineering discipline.
- ▶ Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline.
- ▶ Application of systematic engineering synthesis and design processes.

### COURSE TEACHING AND LEARNING ACTIVITIES

S. No	Week / Contact Hours	Topic	Mode of Delivery
1	1 <sup>st</sup> Week / 3 Hours	Make “FLANGE PATTERN” as per the given Drawing (Foundry)	Exercise
2	2 <sup>nd</sup> Week / 3 Hours	Make “BUTT JOINT” as per the given drawing (Welding)	Exercise
3	3 <sup>rd</sup> Week / 3 Hours	Make “SQUARE TRAY” as per the given drawing (Sheet Metal)	Exercise
4	4 <sup>th</sup> Week / 3 Hours	Make “SQUARE” as per the given drawing (Fitting)	Exercise
5	5 <sup>th</sup> Week / 3 Hours	Make “T-JOINT” as per the given drawing (Carpentry)	Exercise
6	6 <sup>th</sup> Week / 3 Hours	Make “HAND WHEEL PATTERN” as per the given Drawing (Foundry)	Exercise
7	7 <sup>th</sup> Week / 3 Hours	Make “LAP JOINT” as per the given drawing (Welding)	Exercise
8	8 <sup>th</sup> Week / 3 Hours	Make “DUST PAN” as per the given drawing (Sheet Metal)	Exercise
9	9 <sup>th</sup> Week / 3 Hours	Make “V” as per the given drawing (Fitting)	Exercise
10	10 <sup>th</sup> Week / 3 Hours	Make “TENON-JOINT” as per the given drawing (Carpentry)	Exercise

### COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Internal assessment	-	-	70
2	Final assessment	12 <sup>th</sup> Week	180 Minutes	30
Total Assessment				100

**COURSE EXIT SURVEY**

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

- Feedback from the students during class committee meetings
- Anonymous feedback through questionnaire

**COURSE POLICY**

(Preferred mode of correspondence with students, policy on attendance, academic honesty and plagiarism etc.)

**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**

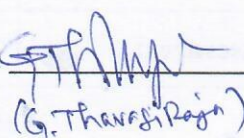
The faculty is available for consultation at times as per the intimation given by the faculty.

**FOR APPROVAL**

Course Faculty



CC-Chairperson

  
(G. Tharasi Rajan)

HOD

