

DEPARTMENT OF PRODUCTION ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN- PART I			
Name of the programme and specialization	B.Tech Production Engineering		
Course Title	MANUFACTURING PROCESSES LAB- I		
Course Code	PRLR10	No. of Credits	02
Course Code of Pre-requisite subject(s)	PRPC12		
Session	July. 2018	Section (if, applicable)	A & B
Name of Faculty	Dr.-Ing. M .Duraiselvam Dr. V. Anandakrishnan	Department	PRODUCTION ENGINEERING
Email	durai@nitt.edu krishna@nitt.edu	Telephone No.	0431-2503509 0431-2503521
Name of Course Coordinator(s) (if, applicable)	-		
E-mail		Telephone No.	
Course Type	<input checked="" type="checkbox"/> Core course <input type="checkbox"/> Elective course		
Syllabus (approved in BoS)			
EXERCISE-1 : Step turning EXERCISE-2 : Taper turning and parting off EXERCISE-3 : Knurling EXERCISE-4 : Thread cutting EXERCISE-5 :Boring EXERCISE-6 : Eccentric turning EXERCISE-7 : Copy turning			
COURSE OBJECTIVES			
➤ To perform all lathe operations to produce a component of their need.			
COURSE OUTCOMES (CO)			
Course Outcomes	Aligned Programme Outcomes (PO)		
1. Summarize the machine tool construction	1,3,5,12		
2. Create work pieces by turning, boring using lathe and drilling machine.	1,2,3,5,11		
3. Utilize different machine tool attachments	1,3,5,11		

COURSE PLAN – PART II

COURSE OVERVIEW

This course will provide knowledge about fundamental of machines and its functions. It explores the operations that can be performed in the machines.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1	Introduction to machines and safety guidelines	Practical
2	Week 2	Step turning	
3	Week 3	Taper turning and parting off	
4	Week 4	Knurling	
5	Week 5	Thread cutting	
6	Week 6	Boring	
7	Week 7	Eccentric turning	
8	Week 8	Copy turning	

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S. No.	Mode of Assessment	Duration	% Weightage
1.	Observation and record	For every exercise	20 %
2.	Work completion	For every exercise	20%
3.	Accuracy and finishing	For every exercise	20 %
4.	Viva voce	For every exercise	10 %
5.	Final Examination	Three hours	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. Class committee meetings
2. Feedback through MIS

COURSE POLICY (preferred mode of correspondence with students, policy on attendance, compensation assessment, academic honesty and plagiarism etc.)

MODE OF CORRESPONDENCE (email/ phone etc)

krishna@nitt.edu
0431-2503521

ATTENDANCE

1. At least 75% attendance in each course is mandatory.
2. A maximum of 10% shall be allowed under On Duty (OD) category.
3. Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

COMPENSATION ASSESSMENT

1. Attending all the practical classes are MANDATORY for every student.
2. Relative grading will be adopted for the course.

ACADEMIC HONESTY & PLAGIARISM

1. Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
2. Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
3. 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.
4. The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION

Contact the Course Teacher : **Dr. V. ANANDAKRISHNAN**

Room No.: MTB304 / 2nd Floor / Manufacturing Technology Building

Timings: Office Hours

Email ID: krishna@nitt.edu

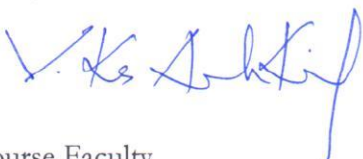
Telephone No.: 0431-250-3521

FOR APPROVAL

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2.



Course Faculty

1. Dr.-Ing.M.Duraiselvam
2. Dr.V.Anandakrishnan

CC-Chairperson

Dr. C. Sathya narayanan



HOD

Dr. P. Sathya