

**DEPARTMENT OF PRODUCTION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620015.**

COURSE OUTLINE			
Course Title	<b>Manufacturing processes Lab - II</b>		
Course Code	<b>PRLR12</b>	No. of Credits	02
Department	Production Engineering	Faculty	Dr. D. Lenin Singaravelu / Mr.S.Mohan
Pre-requisites Course Code	-		
E-mail	dlenin@nitt.edu/ smoha@nitt.edu	Contact No.	9487069811/9655251150
Course Type	Core course	<input checked="" type="checkbox"/>	Elective course
Course overview			
<ul style="list-style-type: none"> <li>• Study about the different type of operations using special machines like shaping, grinding, slotting etc..</li> <li>• To know, how to machine the product for required dimensions.</li> </ul>			
Course objectives			
<ul style="list-style-type: none"> <li>• To perform all operations to produce a component of their need.</li> </ul>			

COURSE TEACHING AND LEARNING ACTIVITIES				
S. No	Week	Date	Topic	Mode of Delivery
1.	1 <sup>st</sup> Week	-	Cube Milling	Practical
2.	2 <sup>nd</sup> Week	-	Gear Cutting	
3.	3 <sup>rd</sup> Week	-	Slotting	
4.	4 <sup>th</sup> Week	-	Cube Shaping	
5.	5 <sup>th</sup> Week	-	Drilling	
6.	6 <sup>th</sup> Week	-	Surface Grinding	

7.	7 <sup>th</sup> Week	-	Slot Milling
8.	8 <sup>th</sup> Week	-	Double side Taper shaping

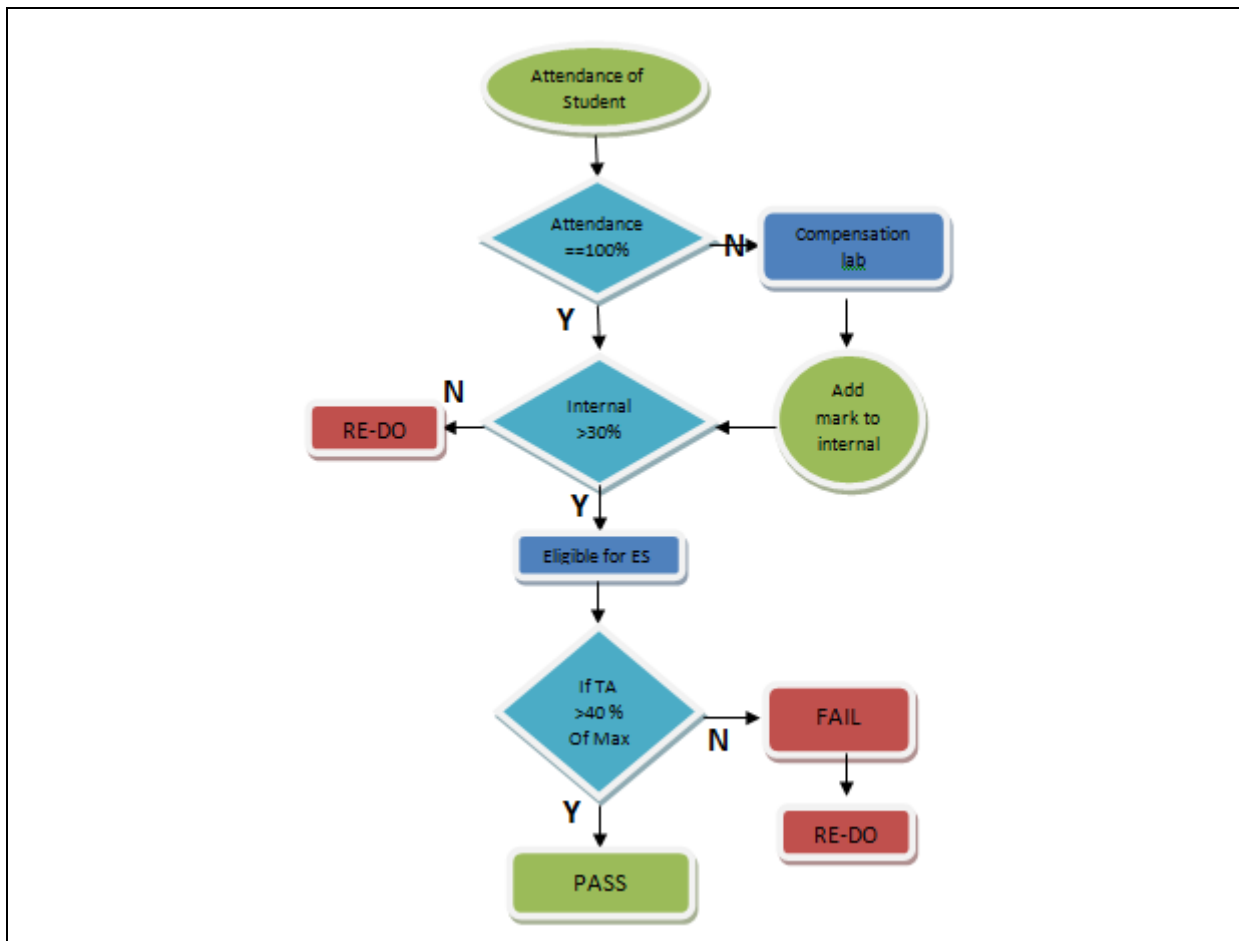
<b>COURSE ASSESSMENT METHODS</b>				
<b>S.No.</b>	<b>Mode of Assessment</b>	<b>Syllabus</b>	<b>Duration</b>	<b>% Weightage</b>
1	Regular practical lab	-	*150 Minutes	75
2	End Practical Examinations	-	180 Minutes	25
Total Assessment			23 Hrs	100

\*150 minutes for one experiment (Total – 8 Expt.)

### **ASSESSMENT**

1. Attending all the assessments is MANDATORY for every student.
2. If any student is not able to attend any of the Lab section due to genuine reason, student is permitted to attend the compensation Lab at the end of the semester
3. Students are expected to score minimum 30% of the maximum mark of the class in the internals to attend the end semester examination in addition to the attendance requirement.
4. Finally, every student is expected to score minimum 40% of the maximum mark of the class in the total assessment (internal and external) to pass the course. Otherwise the student would be declared fail and 'F' grade will be awarded. Further he can take up only re-do or summer term course.

**Refer the following flow chart for more clarity:**



### **ACADEMIC HONESTY & PLAGIARISM**

1. All the students are expected to be genuine during the course work. Taking of information by means of copying simulations, assignments, looking or attempting to look at another student's paper or bringing and using study material in any form for copying during any assessments is considered dishonest.
2. Tendering of information such as giving one's program, simulation work, assignments to another student to use or copy is also considered dishonest.
3. Preventing or hampering other students from pursuing their academic activities is also considered as academic dishonesty.
4. Any evidence of such academic dishonesty will result in the loss of marks on that assessment. Additionally, the names of those students so penalized will be reported to the class committee chairperson and HoD of the concerned department.
5. Students who honestly producing ORIGINAL and OUTSTANDING WORK will be REWARDED.

<b>ADDITIONAL COURSE INFORMATION</b>
The faculty is available for consultation at times as per the intimation given by the faculty.
<b>FOR APPROVAL</b>
Course Faculty _____ CC-Chairperson _____ HOD _____