

**DEPARTMENT OF PRODUCTION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI - 620 015**

<b>COURSE OUTLINE</b>			
Course Title	Machine Drawing Practice		
Course Code	<b>PRLR14</b>	No. of Credits	<b>03</b>
Department	<b>PRODUCTION ENGINEERING</b>	FACULTY	<b>Dr. V. Senthilkumar</b>
Pre-requisites Courses	Engineering Graphics		
Course Coordinator(s) (IF APPLICABLE)	-		
Other course TEACHER(S) /TUTOR(S) Email	vskumar@nitt.edu	Telephone No	0431-2503519
Course Type	<input type="checkbox"/> Core Course <input type="checkbox"/> Elective Course <input checked="" type="checkbox"/> Laboratory Course		
<b>COURSE OVERVIEW</b>			
<p>This course is to teach the Conventions, Abbreviations and symbols used in machine drawing and drawing practice on machine components and assembly in such a way that the students can understand and use it in practical applications.</p>			
<b>COURSE OBJECTIVES</b>			
<ol style="list-style-type: none"> <li>1. To prepare the precise machine drawings for manufacture of components.</li> <li>2. To facilitate better product design.</li> <li>3. To interpret and generate suggestions about drawings.</li> </ol>			

<b>COURSE OUTCOMES (CO)</b>	
<b>Course Outcomes</b>	<b>Aligned Programme Outcomes (PO)</b>
After studying this course, students are able to:  * Prepare the precise machine drawings for manufacturing of components.  * Facilitate better product design.  * Interpret and give suggestion about the drawings.	PO 1, 2, 3, 4 and 6

<b>COURSE TEACHING AND LEARNING ACTIVITIES</b>			
<b>S.No</b>	<b>Week</b>	<b>Experiment</b>	<b>Mode of Delivery</b>
1.	Week:1	Course plan details	C&T / PPT
2.	Week:2	Experiment -1:	Theoretical(C&T / PPT), practical
3.	Week:3	Experiment -2:	Theoretical(C&T / PPT), practical
4.	Week:4	Experiment -3:	Theoretical(C&T / PPT), practical
5.	Week:5	Experiment -4:	Theoretical(C&T / PPT), practical
6.	Week:6	Experiment -5: Model Test	Objective and descriptive type
7.	Week:7	Buffer lab Class-1*	Theoretical(C&T / PPT), practical
8.	Week:8	Experiment -6:	Theoretical(C&T / PPT), practical
9.	Week:9	Experiment -7:	Theoretical(C&T / PPT), practical
10.	Week:10	Experiment -8:	Theoretical(C&T / PPT), practical
11.	Week:11	Experiment -9:	Theoretical(C&T / PPT), practical
12.	Week:12	Experiment -10:	Theoretical(C&T / PPT), practical
13.	Week:13	Buffer lab Class-2*	Theoretical(C&T / PPT), practical
14.	Week:14	Final Exam	Practical

COURSE ASSESSMENT METHODS				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Experiments (1-10)	-	-	70%
2	Final Exam	-	-	30%

**ESSENTIAL READINGS : Textbooks, reference books Website addresses, journals, etc**

*TEXTBOOK:*  
 1. Gopalakrishna, K. R., *Machine Drawing, Subhas stores, Bangalore, 16<sup>th</sup> edition, 2002.*

*REFERENCES:*  
 1. Varghese, P. L. and John, K.C., *Machine Drawing, Jovast Publishers, 1993.*  
 2. BIS, SP:46 -1988 - *Engineering Drawing Practice for Schools and Colleges, 1992.*  
 3. *Faculty of Mechanical Engineering, PSG College of Technology, Design Data Book, M/s.DPV Printers, Coimbatore, 1993.*

#### COURSE EXIT SURVEY

- Course Exit survey will be collected at the end of the semester before the start of semester examination through online. Students can log in their MIS account to give the feedback. Mid-semester anonymous feedback shall be collected to improve the teaching-learning process. Apart from this, students can share feedback during class committee meetings.

#### COURSE POLICY (including plagiarism, academic honesty, etc.)

- Attending classes regularly and continuously is required for the students to understand the concepts.
- Strict academic disciplines have to be maintained inside the class room.

#### ATTENDANCE

- Attendance will be taken in every class. If the student is not able to maintain 75% attendance, he/she is required to write the compensation assessment and obtain a minimum of 50% marks to become eligible to write the final exam.

#### ADDITIONAL COURSE INFORMATION

The faculty is available for consultation at times as per the intimation given by the faculty. Queries may also be emailed to the Course Faculty directly at [vskumar@nitt.edu](mailto:vskumar@nitt.edu)

#### FOR APPROVAL

  
Course Faculty

  
CC Chairperson

  
HOD