



## Engineering Drawing & Graphics

### **Details of Laboratory:**

#### **Lab in-charge: Mr. Palash Biswas**

The objective of this lab is to learn basics of engineering drawing or drafting as a tool for expressing an engineering design. This laboratory is scheduled for 1<sup>st</sup> and 2<sup>nd</sup> semester for all engineering students. Apart from curriculum, some additional experimental setups are there which helps the students to enhance their knowledge. Students also get opportunity to implement their ideas through various application oriented micro projects.

#### **Major Equipments:**

- 1 Drawing sheet.
- 2 Drawing board.
- 3 Mini drafter.
- 4 Eraser.
- 5 Pencils.
- 6 Protractor.
7. French curves.
8. T Scale

### List of Experiments:

Sl.	Description
1.	Line, Lettering , Dimensioning, Scale
2.	Geometrical construction of various geometrical figures, conic section
3.	Introduction of projection,Point Projection, Line projection
4.	Solid projection, sectional view
5.	Orthographic Projection isometric Projection
6.	2D drawing and drafting of Auto CAD

## Lab Occupancy

**JIS College of Engineering**  
**Lecture and Lab schedule for odd semester 2017-2018**      **STREAM/BATCH: ME-1A**  
**B.Tech – 1<sup>st</sup> Year class**

DAYS	10 am to 11 am	11 am to 12 am	12 pm to 1pm	1 to 2pm	2 to 3pm	3 to 4 pm	4 to 5 pm	5 to 6 pm	
MON				Recess					
	ME291Gr.2A(2)[PB+TS]								
TUE									
WED									
THU									
FRI									
					ME291Gr.2A(1)[PB+TP]				

**Subjects:** ME291 Engineering Drawing & Graphics

**Faculty name:** SG- Dr. Sandip Ghosh, ARS-Dr. Anal Ranjan Sengupta, SP-Dr. Suresh Prasad, DS- Mr. Dipak Shaw TP-Ms.Thia Pal, BJ-Mr. Bikash Joadder, TS-Mr. Tanmoy Sarkar DM- Mr .Dhiraj Mondal, D Majumder, RB - Mr. Rupak Bhattacharjee, MD- Mr. Mrinmoy Dum, SD-Mr.Sudip Das, SB-Mrs.Sagata Bhattacharjee

**Routine Coordinator**  
(Prof. P. Biswas)

**HOD**  
(Prof. (Dr.) S. Ghosh)

**Principal**  
(Prof. (Dr.) M. R. Dave)

**JIS College of Engineering**  
**Lecture and Lab schedule for odd semester 2017-2018**      **STREAM/BATCH: ME-1A**  
**B.Tech – 1<sup>st</sup> Year class**

DAYS	10 am to 11 am	11 am to 12 am	12 pm to 1pm	1 to 2pm	2 to 3pm	3 to 4 pm	4 to 5 pm	5 to 6 pm	
MON				Recess		ME291Gr.2B(2)[SH+TS]			
TUE									
WED									
THU									
	ME 291,Gr.ME2B(1)[SH+TS]								
FRI									

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**Principal**  
**(Prof. (Dr.) M. R. Dave)**

## Course Name: Engg. Drawing & Graphics

Course Code: ME291

**Pre requisites:** Higher Secondary with Physics, Chemistry & Mathematics

**Course Objective:** To learn basics of engineering drawing or drafting as a tool for expressing an engineering design

**Course Outcomes:** Upon successful completion of this course, the student will be able to:

1. Learn basics of drafting and use of drafting tools which develops the fundamental skills of industrial drawings.
2. Know about engineering scales, dimensioning and various geometric curves necessary to understand design of machine elements.
3. Understand projection of line, surface and solids to create the knowledge base of orthographic and isometric view of structures and machine parts.
4. Become familiar with computer aided drafting useful to share the design model to different section of industries as well as for research & development.

CO Codes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
ME 291.1	2	-	1	2	-	1	-	-	1	-	-	1	1	1	1
ME 291.2	3	-	2	2	-	1	-	-	1	1	-	1		1	2
ME 291.3	2	2	2	1	-	1	-	-	1	-	-	1		1	-
ME 291.4	1	-	2	2	2	1	-	-	1	1	-	1	1	1	3
Average	2	2	1.75	1.75	2	1	-	-	1	1	-	1	1	1	2



Drawing room



Drafter



T Scale



Set Square