



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002


## DEPARTMENT OF MECHANICAL ENGINEERING

### Value Added Courses Summary 2018-2019


Course Name	Machine Drawing
Course Duration	30 hours
Year offered	II year Mechanical Students
Course Instructors	Mr. E. Sivaselvam & Mr. G. Vinothkumar Professor/Mech. Engg, SSMIET Dindigul
Course Outcome	1. Students should be able to create sectional views to represent internal features of machine components. 2. Students should be able to create a clear and accurate Bill of Materials. 3. Students should be capable of Understanding and interpreting BOMs for manufacturing and assembly. 4. Students should be able to understand and mastery of orthographic projection techniques for representing three-dimensional objects in two dimensions.
Course Type	Self Framed
Assessment Mode	
Attendance	30 hours
Number of Participants	32
Scheme of Exam	Evaluation test through offline mode

  
Course Coordinator



  
HoD/Mech.Engg



  
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (P)  
Palani Road, Dindigul - 624 002



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
Dindigul- Palani Highway, Dindigul – 624 002.

**Department of Mechanical Engineering**

06.07.2018

Submitted To Principal

Respected sir,

Sub: Proposal for conducting value added course (**MACHINE DRAWING**)

– Reg.

We have planned to conduct the training program on “**MACHINE DRAWING**” for II, III & IV year Mechanical Engineering students. We assure that this will be very useful for the students to enhance their knowledge in the field of Design.

Your approval is requested to conduct this program.

Thanking you

1. E. S. Senthil Kumar  
6/7/18

2. G. Vinoth Kumar  
06/07

Course coordinator  
E.SIVASELVAM AP/Mech,

G.VINOTH KUMAR AP/Mech,

L. N. Senthil Kumar  
6/7/18  
HOD/MECH

S. Senthil Kumar  
6/7/18  
PRINCIPAL



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Phone : 0451 -- 2448800 -- 99 (100 Lines)

Fax: 0451 -- 2448855

Email : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

Website : [www.ssmiet.ac.in](http://www.ssmiet.ac.in)

## Department of Mechanical Engineering

Date: 06.07.2018

### CIRCULAR

It is planned to conduct a training program on "MACHINE DRAWING" for II,III & IV year B.E. Mechanical Engineering students from 16/07/2018 onwards. Students those who are interested to attend can register their name with Prof. G.VINOTH KUMAR. AP/ Mech on or before 13.07.2018.

#### Details about the program

No of students admitted	: 30 (on first come first serve basis)
Duration	: 15 days (30 hours)
Timing	: 4.30 to 6.30 pm (without disturbing remedial and coaching classes)

Attendance for the program is compulsory for all days.

1. E. S. Sivaraj  
6/7/18

2. A. V. V. V.  
06/07

#### Course coordinators

E.SIVASELVAM AP/ Mech,

G.VINOTH KUMAR AP/Mech,

L.N.  
6/7/18  
HOD/MECH

Principal  
10/7/18  
PRINCIPAL



D.D.SENTHIL KUMARAN, M.E., Ph.D., (RUS)

Principal

SSM Institute of Engineering and Technology

Kuttathupattu Village, Sindalagundu (Po),

Palani Road, Dindigul - 624 002.

# **“Hands on Training in Machine Drawing”**

**Value Added Course**

**Academic Year (2018-2019) Odd Semester**

**Total hours: 30 Hours**

**16.07.2018-10.09.2018**



**Department of Mechanical Engineering**

**SSM INSTITUTE OF ENGINEERING & TECHNOLOGY**

## **Course Coordinators :**

1. Mr. E. Sivaselvam,
2. Mr. G. Vinothkumar.



**Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)**  
Principal

SSM Institute of Engineering and Technology  
Kuttathupath Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.



# MACHINE DRAWING

## COURSE OUTLINE

- Technical Graphics is used to communicate the necessary technical information required for manufacture and assembly of machine components. These drawings follow rules laid down in national and International Organizations for Standards (ISO).
- Hence the knowledge of the different standards is very essential. Students have to be familiar with industrial drafting practices and thorough understanding of production drawings to make themselves fit in industries. The following topics have been covered to fulfill the above objectives.
- Classification of Machine Drawings, Principles of Drawings, Sectioning, Dimensioning, Limits, Fits and Tolerance, Symbols and Conventional Representation, Screw Fasteners, Key Joints, Coupling and its Types, Riveted Joints, Welded Joints, Structural Applications, Assembly Drawings, Production Drawings, Reproduction of Drawing, Introduction of Computer Aided Drafting, Introduction of Solid 3D Modeling.

## **COURSE DETAIL**

S.No.	Topics
1.	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Need of Graphical Language</li> <li>• Importance Machine Drawing Tools (from Instruments to Current Softwares)</li> </ul>
2.	<b>Projections</b> <ul style="list-style-type: none"> <li>• Designation</li> <li>• Relative position of views Examples</li> </ul>
3.	<b>Classification of Machine Drawings (with examples)</b> <ul style="list-style-type: none"> <li>• Assembly Drawing</li> <li>• Part Drawing</li> <li>• Detailed Drawing</li> </ul>
4.	<b>Principles of Drawings</b> <ul style="list-style-type: none"> <li>• Scales as per ISO standards, eg. A3 x 3 (420 x891)</li> <li>• Importance of Title Block and Part list</li> <li>• Lines types (Lines used in Machine Drawings)</li> </ul>
5.	<b>Sectioning</b> <ul style="list-style-type: none"> <li>• Cutting Planes and Section Hatching Lines</li> <li>• Half Sections</li> <li>• Aligned Sections</li> <li>• Offset Sections</li> </ul>
6.	<b>Dimensions (with examples)</b> <ul style="list-style-type: none"> <li>• Principle of Dimensioning</li> <li>• Counter Sink,</li> <li>• Counter Bore</li> <li>• Spot Faces</li> <li>• Chamfers</li> <li>• Screw Threads</li> <li>• Tapered Features</li> </ul>

*Handwritten signature*

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttibupatti Village, Erode District (Po),  
Palani Road, Dindigul - 624 502.



7.	<b>Limits, Fits and Tolerance</b> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Classifications of Fits</li> <li>• System of Fits' Computations</li> <li>• Selection of Fits</li> <li>• Method of Indicating Fits on Drawings</li> <li>• Tolerance Grade</li> <li>• Computations of Tolerance</li> <li>• Positions of Tolerance</li> <li>• Fundamental of Deviations Shaft and Hole Terminology Method of Placing</li> <li>• Limit Dimensions</li> </ul>
8.	<b>Abbreviations and Symbols</b>
9.	<b>Screwed Fastenings</b> <ul style="list-style-type: none"> <li>• Types of Bolts</li> <li>• Designation</li> <li>• Types of Nuts</li> <li>• Types of Screw Designation of Bolted Joints</li> <li>• Stud Joints</li> </ul>
10.	<b>Key Joints</b> <ul style="list-style-type: none"> <li>• Types of Key joints</li> <li>• Type of Cotter Joints</li> <li>• Types of Pin Joints and knuckle Joints</li> </ul>
11.	<b>Riveted Joints</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Rivet and Riveting</li> <li>• Classification of Rivet Terminology of Riveted Joint Types of Joints</li> </ul>
12.	<b>Welded Joints</b> <ul style="list-style-type: none"> <li>• Introduction of Welding Process</li> <li>• Types of Welded Joints</li> <li>• Representation of Welds Symbols and its conventions</li> </ul>
13.	<b>Assembly Drawings Practice</b> <ul style="list-style-type: none"> <li>• Sleeve and cotter joint</li> <li>• Spigot and socket joint</li> <li>• Gib and cotter joint</li> <li>• Knuckle joint</li> <li>• Flange coupling</li> <li>• Plummer block</li> <li>• Screw jack</li> </ul>



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
 Principal  
 SSM Institute of Engineering and Technology  
 Kuttathupatti Village-Sindalagundu (Po),  
 Palani Road, Dindigul - 624 002.

# LECTURE 1

## INTRODUCTION TO MACHINE

### DRAWING

#### 1. Graphic Language

A technical person can use the graphic language as powerful means of communication with others for conveying ideas on technical matters. However, for effective exchange of ideas with others, the engineer must have proficiency in (i) language, both written and oral, (ii) symbols associated with basic sciences and (iii) the graphic language. Engineering drawing is a suitable graphic language from which any trained person can visualize the required object. As an engineering drawing displays the exact picture of an object, it obviously conveys the same ideas to every trained eye.

Irrespective of language barriers, the drawings can be effectively used in other countries, in addition to the country where they are prepared. Thus, the engineering drawing is the universal language of all engineers.

#### 2. Importance of Graphic Language

The graphic language had its existence when it became necessary to build new structures and create new machines or the like, in addition to representing the existing ones. In the absence of graphic language, the ideas on technical matters have to be conveyed by speech or writing, both are unreliable and difficult to understand by the shop floor people for manufacturing. This method involves not only lot of time and labor, but also manufacturing errors. Without engineering drawing, it would have been impossible to produce objects such as aircrafts, automobiles, locomotives, etc., each requiring thousands of different components.

#### 3. Need for Correct Drawings

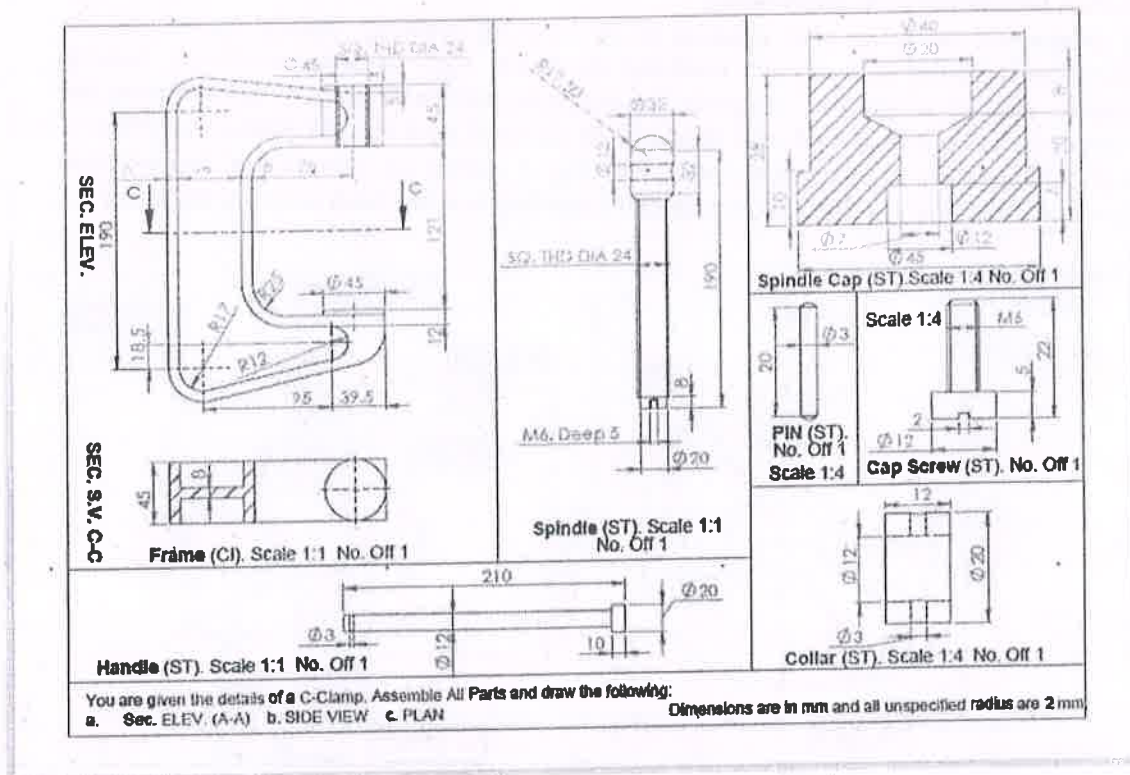
The drawings prepared by any technical person must be clear, unmistakable in meaning and there should not be any scope for more than one interpretation, or else litigation may arise. In a number of dealings with contracts, the drawing is an official document and the success or failure of a structure depends on the clarity of details provided on the drawing. Thus, the drawings should not give any scope for misinterpretation even by accident.

It would not have been possible to produce the machines/automobiles on a mass scale where a number of assemblies and sub-assemblies are involved, without clear, correct and accurate drawings. To achieve this, the technical person must gain a thorough knowledge of both the principles and conventional practice of drawing. If these are not achieved and or practiced, the drawings prepared by one may convey different meaning to others, causing unnecessary delays and expenses in production shops



**Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (RUS)**  
Principal  
SSM Institute of Engineering and Technology  
Kuttalampatti Village, Sineelaganur (P),  
Palani, Road, Dindigul - 624 002.





**Fig. 2. Part drawing Examples.**

#### 4.1.2 Assembly Drawing

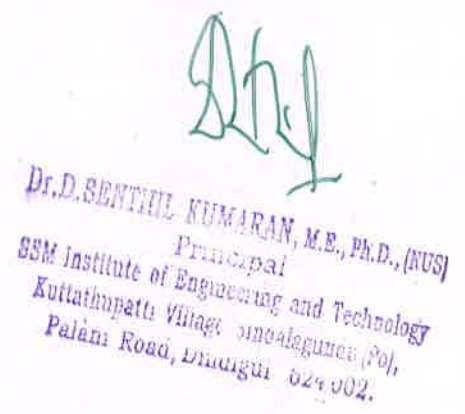
A drawing that shows the various parts of a machine in their correct working locations is an assembly drawing. Fig. 3 shows an example of an assembly drawing (Note that the drawing was drawn according to a different drawing standard).



*Dr. D. Senthil Kumar*  
**Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)**  
 Principal  
 SSM Institute of Engineering and Technology  
 Kuttathupatti Village Sindalagundu (Po),  
 Palani Road, Dindigul - 624 002.

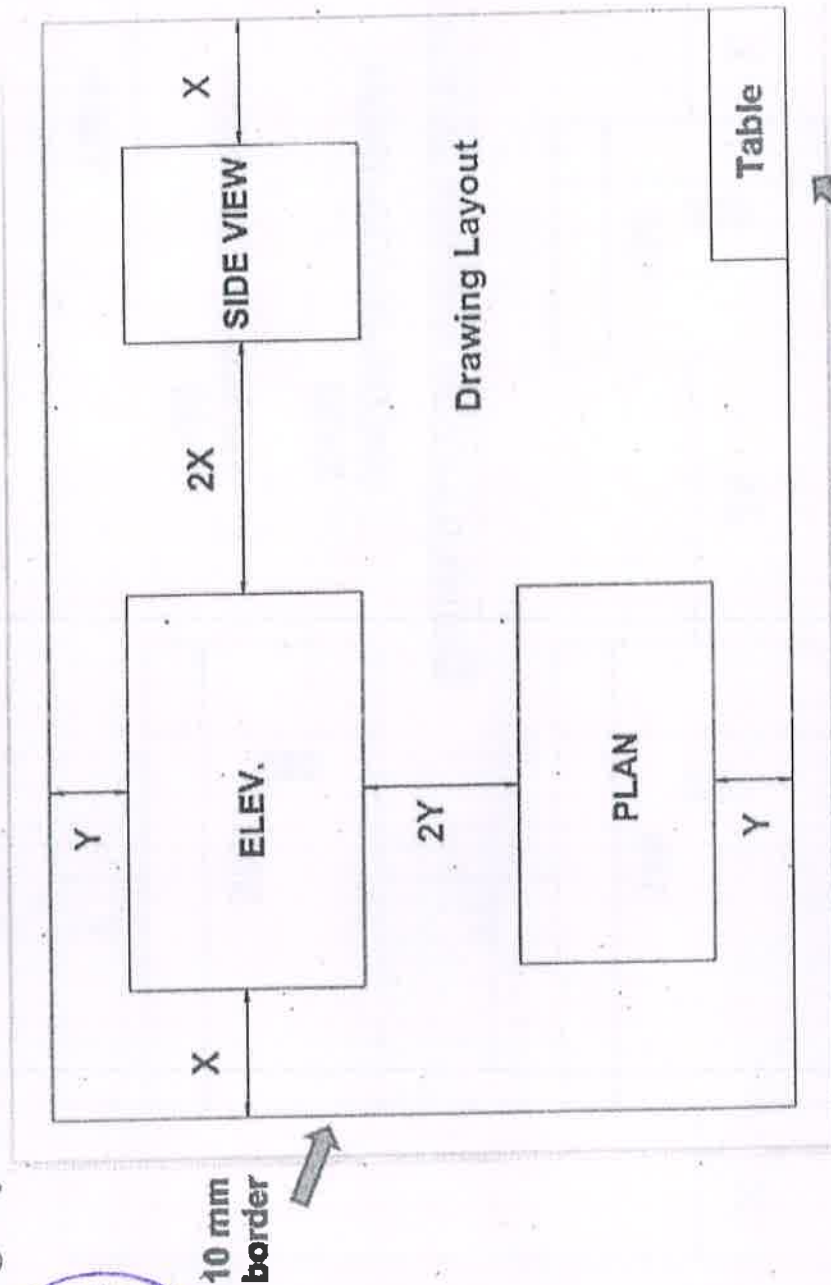


**4.1.3 Production Drawing**  
A production drawing, also referred to as working drawing, should furnish all the dimensions, limits and special finishing processes such as heat treatment, honing, lapping, surface finish, etc., to guide the craftsman on the shop floor in producing the component. The title should also mention the material used for the product, number of parts required for the assembled unit, etc. Fig. 5 shows an example of a production drawing (Note that the drawing was drawn according to a different drawing standard)



## 5. Drawing Layout

### 5.1 Drawing Layout



Write your name and seat number here with Blue ink

Fig. 7. Drawing Layout.

*[Signature]*

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttrampatti Village, Sindalagundu (Po),  
Param Road, Dindigul - 624 002.

### 5.3 Drawing Layout example solution

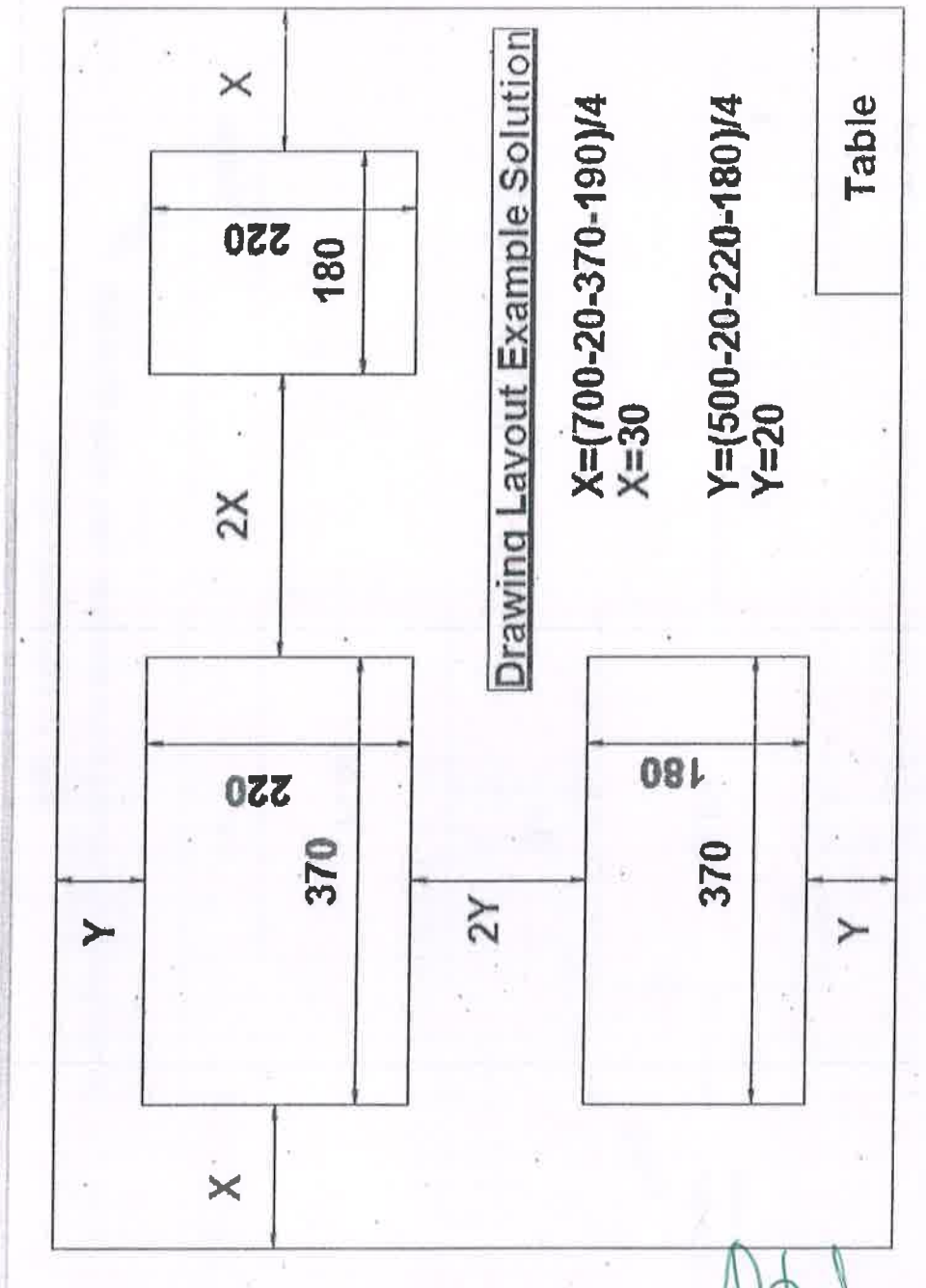


Fig. 9. Drawing Layout Example Solution.



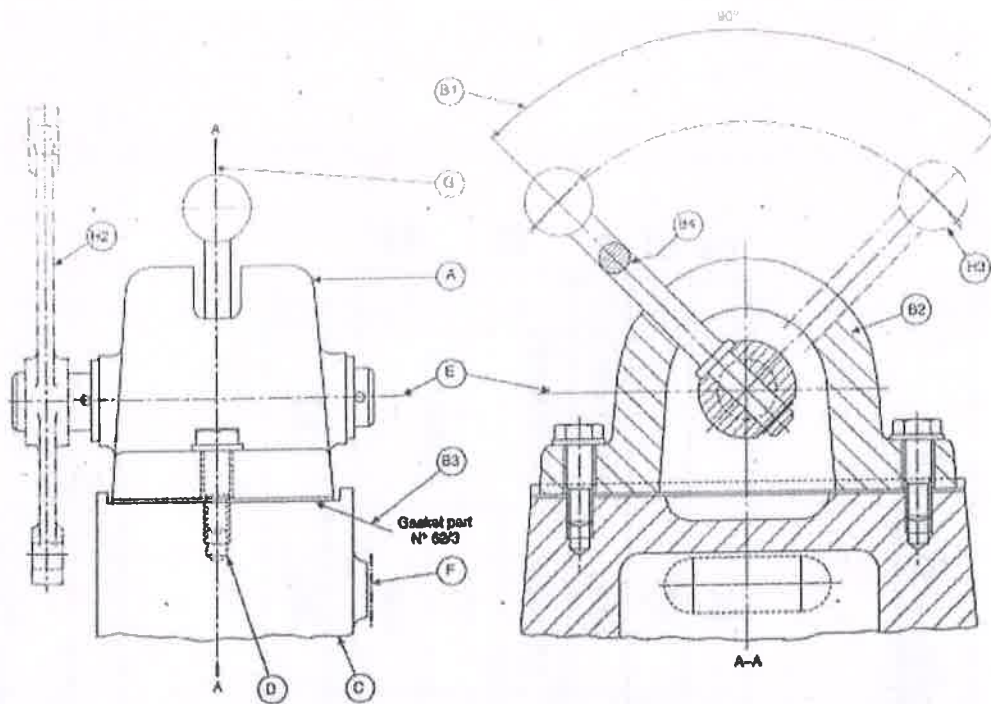
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village Sindalagundu (Po),  
Palani Road, Dindigul 624 002.

[illegible]

26/11/2019

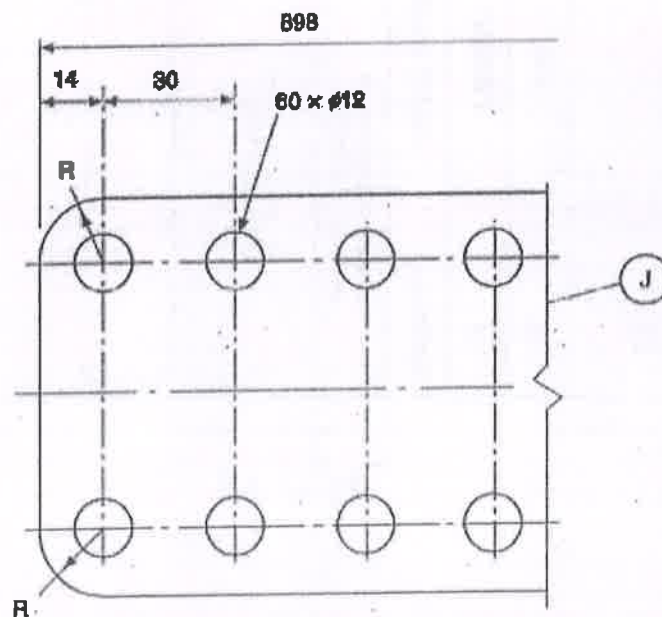
11





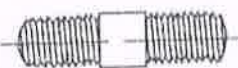
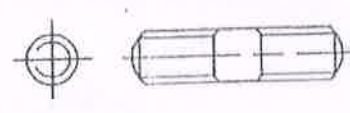
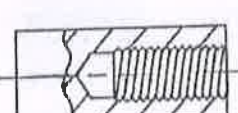

**Fig. 12.** Example of different line types.

### Interrupted view application



**Fig. 13.** Interrupted view example.

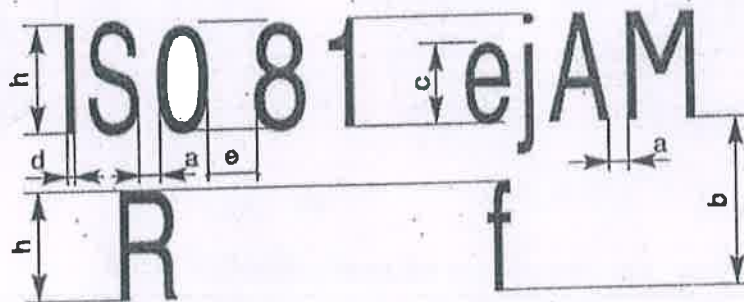


External screw threads (Detail)		
Internal screw threads (Detail)		

## 6.4 Abbreviations for Materials

Material	Abbreviation
Aluminum	AL
Bronze	BRZ
Cast Iron	C.I.
Stainless Steel	ST.

## 7. Lettering

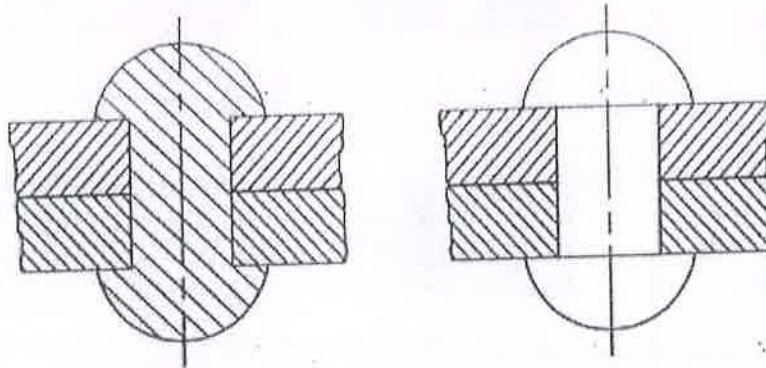


Characteristic	Ratio	Dimensions, (mm)							
Lettering height (Height of capitals)	$h$ (14/14) $h$	2.5	3.5	6	7	10	14	20	
Height of lower-case letters (without stem or tail)	$c$ (10/14) $h$	---	2.5	3.5	5	7	10	14	
Spacing between characters	$a$ (2/14) $h$	0.35	0.5	0.7	1	1.4	2	2.8	
Minimum spacing of base lines	$b$ (20/14) $h$	3.5	5	7	10	14	20	28	
Minimum spacing between words	$e$ (6/14) $h$	1.05	1.5	2.1	3	4.2	6	8.4	
Thickness of lines	$d$ (1/14) $h$	0.18	0.25	0.35	0.5	0.7	1	1.4	



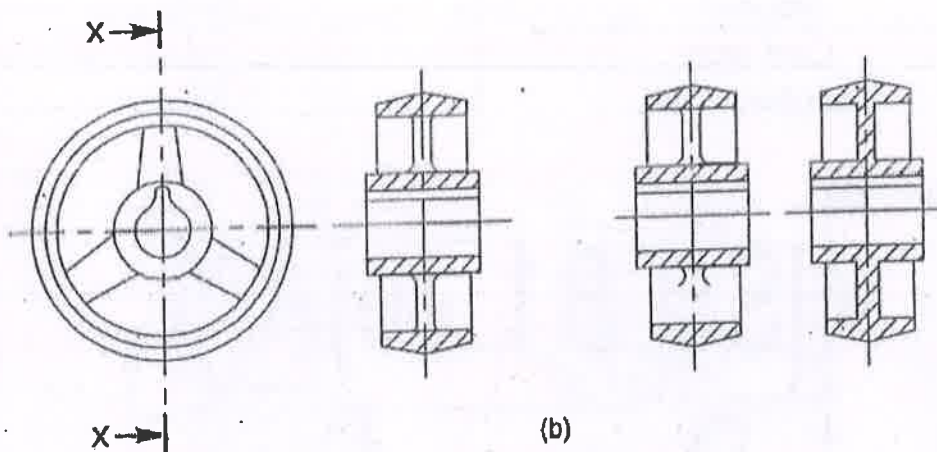
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (MUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupattu Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.

Indicate the correct and incorrect methods of sectioning of machine elements represented in Fig. 14.



**Fig. 17.** Hatching of two adjacent parts.

Indicate the correct and incorrect methods of sectioning of machine elements represented in Fig. 15.



**Fig. 18.** Hatching of two adjacent parts.

Indicate the correct and incorrect methods of sectioning of machine elements represented in Fig. 19.

*[Handwritten signature]*

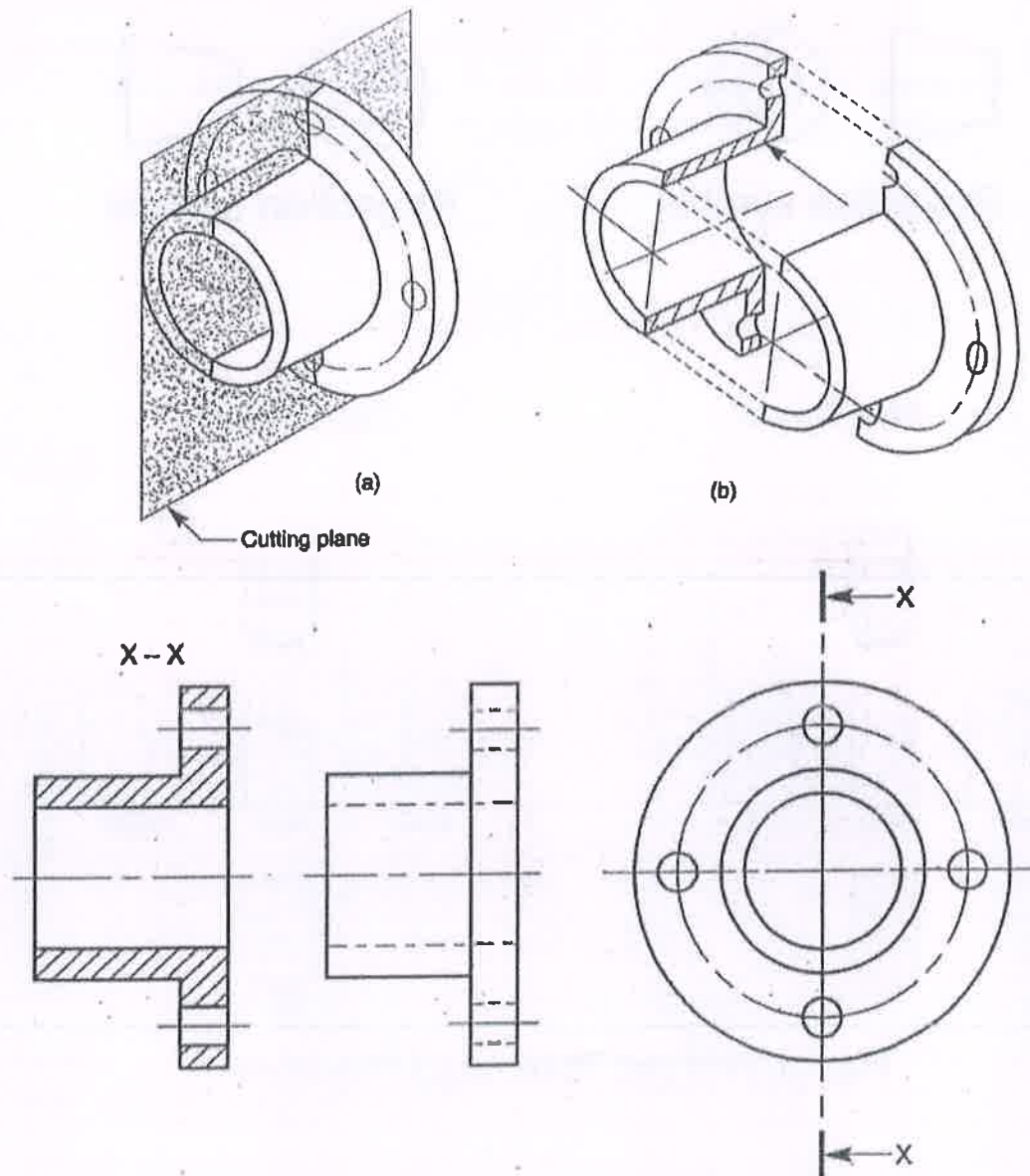
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





## 9. Sectional View

A sectional view is obtained by imagining the object, as if cut by a cutting plane and the portion between the observer and the section plane being removed. Figure 4.1a shows an object, with the cutting plane passing through it and Fig., the two halves drawn apart, exposing the interior details.



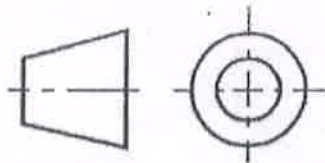
**Fig. 20. Section Example.**





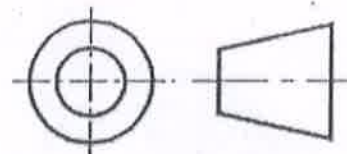
## 10. First and Third Angel Projection

First Angle



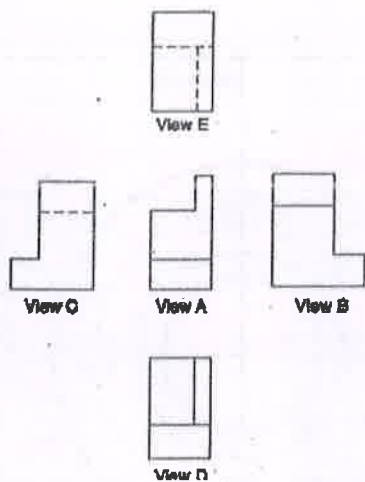
Projection symbol

Third Angle



Projection symbol

First Angle



Third Angle

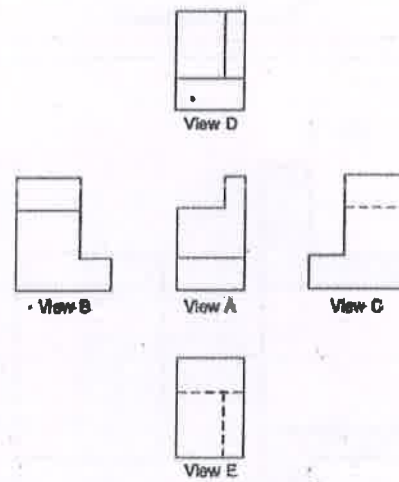
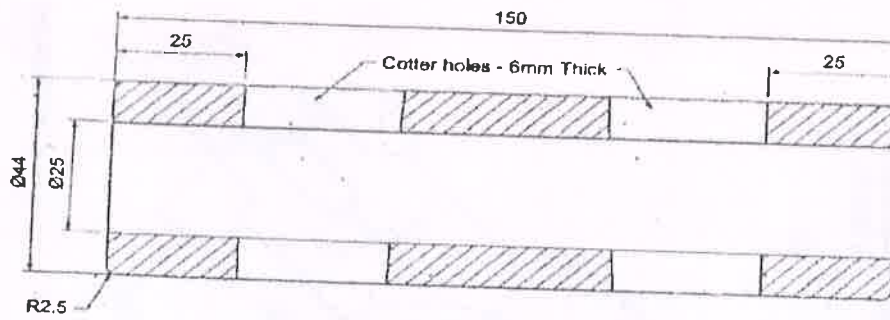


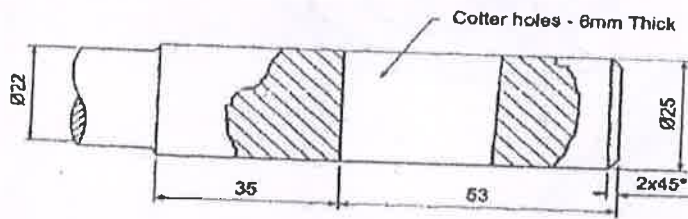
Fig. 23. First and Third Angel Projection.



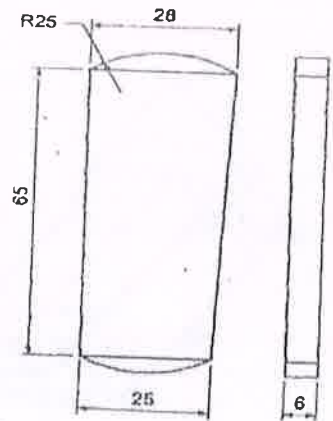
## ASSEMBLY OF SLEEVE AND COTTER JOINT



1. Sleeve



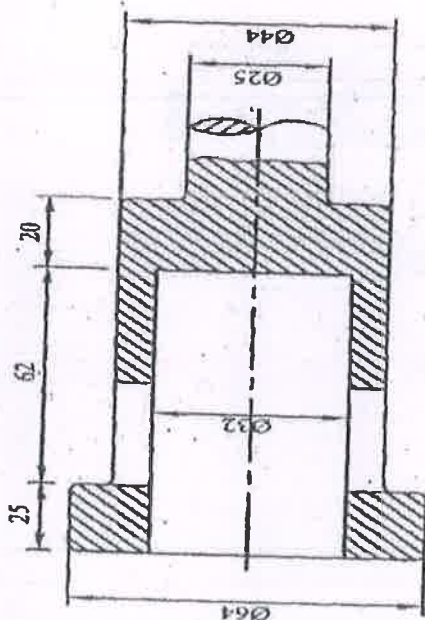
2. Connecting Rod



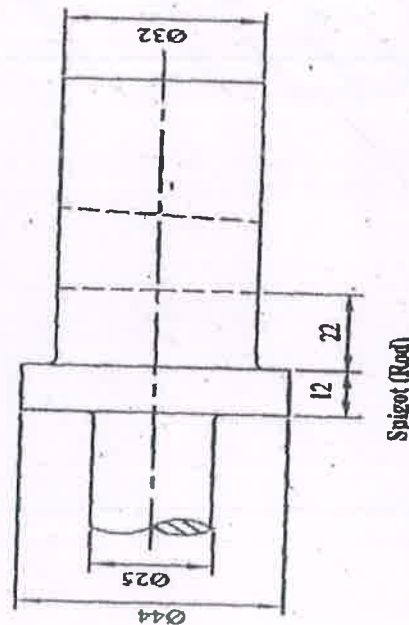
3. Cotter

Bill Of Materials			
Sl no	Description	Material	Qty
1	Sleeve	MS	1
2	Connecting rod	MS	2
3	Cotter	Steel	2

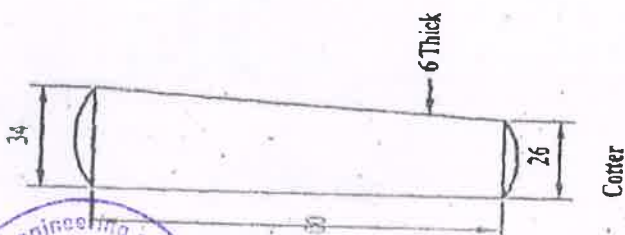
## ASSEMBLY OF SOCKET AND SPIGOT JOINT



Socket



Spigot (Rod)



Cotter

Detailed Drawing of Socket and Spigot Joint

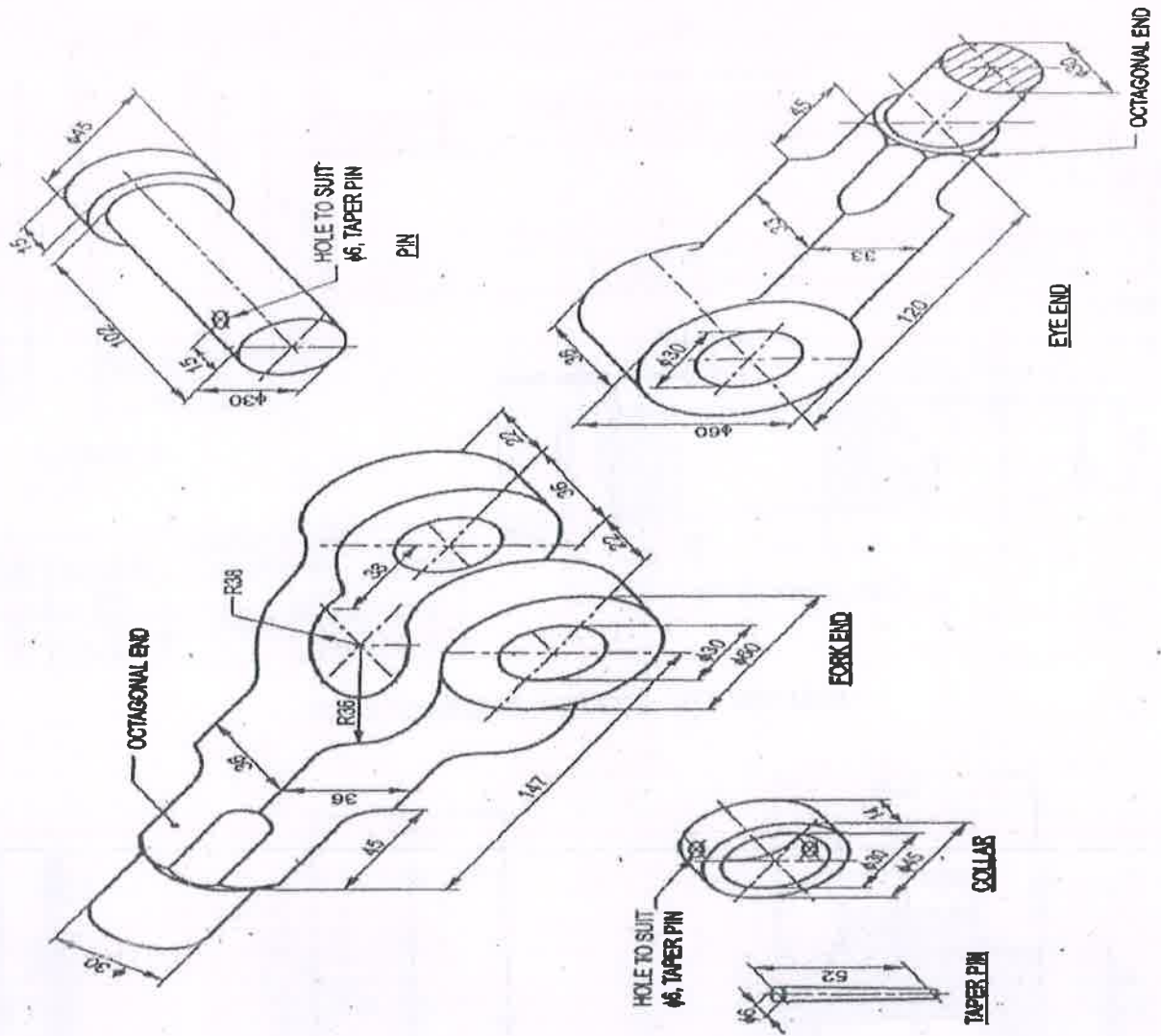
All dimensions are in mm

SCALE: 1:1



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (AUT)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupathi Village Sindalaganadu (Po),  
Palani Road, Dindigul 624 002

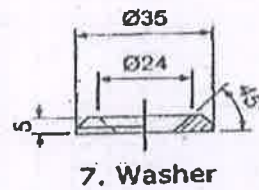
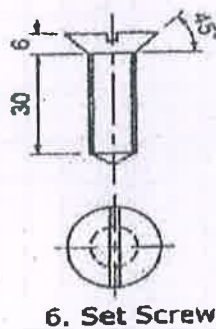
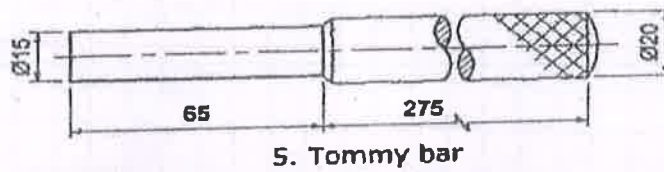
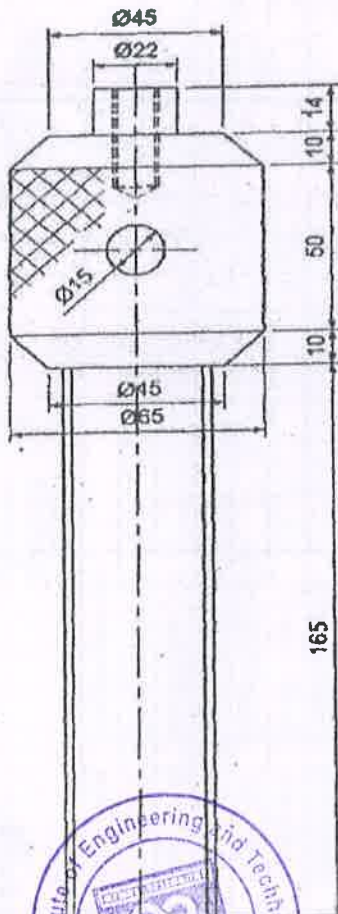
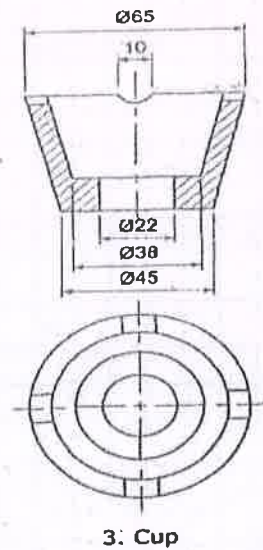
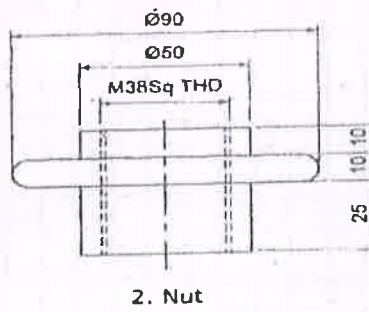
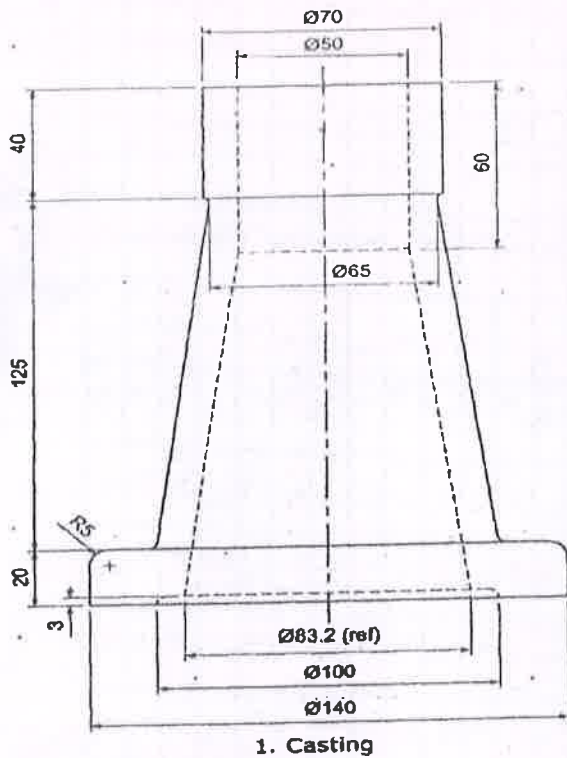
# ASSEMBLY OF KNUCKLE JOINT



Dr.D.SENTHIL KUMARAN, M.Z., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttiethupathi Village Sindalagunna (Po),  
Palani Road, Dindigul - 624 002.

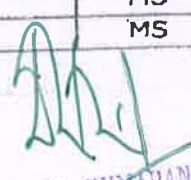


## ASSEMBLY OF SCREW JACK



Bill Of Materials			
Sl no	Description	Material	Qty
1	Casting	CI	1
2	Nut	MS	1
3	Cup	MS	1
4	Screw	MS	1
5	Tommy bar	MS	1
6	Set Screw	MS	1
7	Washer	MS	1



  
**Dr. D. SENTHIL KUMAR, M.E., Ph.D., (PUS)**  
 Principal  
 SSM Institute of Engineering and Technology  
 Kuttathupatti Village, Sindalagundu (Po),  
 Palani Road, Dindigul - 624 002.





Course Name : MACHINE DRAWING																			
S/N	Year/ Section	Reg.no.	Date	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07	27/07	28/07	29/07	30/07	31/07
1	II-A	922117114001	ADITHYAN B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2		922117114006	ARULSELVAN K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3		922117114007	ARUN KUMAR E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4		922117114018	DEEPAK RAJ D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5		922117114019	DEEPAKRAJ T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6		922117114025	DIVYA DHARSHINI K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7		922117114026	ESAKKI DURAI PANDI M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8		922117114027	ETHIRAJ YOGESH P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9		922117114028	GAJENDREN R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10		922117114030	GRACE A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	II-B	922117114043	JEGAN ROY J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13		922117114044	JEROME F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14		922117114049	KASI VISWANATHAN K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15		922117114053	MANICKAVEL V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16		922117114054	MANIKANDAN P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17		922117114055	MANIKANDARAJA M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18		922117114056	MANOJ KUMAR T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19		922117114058	MATHANRAJ G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20		922117114062	MOHAMED SYED ABUTHAHIR M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21		922117114063	MOHAMED THARIQ G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	922117114064	MONISHKUNAR M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
23	922117114065	MUJIPUR RAHMAN J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
24	922117114066	NAGARAJ A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
25	922117114067	NAGA SARAVAN B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
26	922117114075	NITHIS C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
27	922117114076	NITHIS KUMAR K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
28	922117114078	PANDIYA RAJ B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
29	922117114079	PARAMESHWARAN M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
30	922117114080	PARTHASARATHI K B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
31	II-C	922117114123	VINOTH KUMAR R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32		922117114124	VISHNU BALAJI M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33		922117114126	YOKESWARAN M S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

K.V. - 11/12/20  
Course coordinators

[Signature]



HOD/MECH

PRINCIPAL  
SSM Institute of Engineering and Technology  
Dindigul

Dr. D. SENTHIL VIGNAN M.E., Ph.D., (MUS)

Principal  
SSM Institute of Engineering and Technology  
Dindigul



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

**DEPARTMENT OF MECHANICAL ENGINEERING**

**VALUE ADDED COURSE ON MACHINE DRAWING**

(16.07.18 to 10.09.18)

**Evaluation Questionnaire for Value Added Course on Machine Drawing**

**1-The following is not included in title block of drawing sheet.**

- a. Sheet No
- b. Scale
- c. Method of Projection
- ☒ d. Size of sheet

**2-Which of the following represent reducing scale?**

- a. 1:1
- ☒ b. 1:2
- c. 2:1
- d. 10:1

**3-In first angle projection method, object is assumed to be placed in**

- ☒ a. First quadrant
- b. Second quadrant
- c. Third Quadrant
- d. Fourth quadrant

**4-The following line is used for visible outlines**

- a. Continuous thick
- ☒ b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

**5-The following line is used for dimension line**

- ☒ a. Continuous thick
- b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

**6-The dotted lines represents**

- a. Hidden edges
- ☒ b. Projection line
- c. Centre line
- d. Hatching line

**7-Hatching lines are drawn at \_\_\_\_\_ degree to reference line**

- a. 30
- ☒ b. 45
- c. 60
- d. 90

**8-In aligned system of dimensioning, the dimensions may be read from**

- ☒ a. Bottom or right hand edges
- b. Bottom or left hand edges
- c. Only from bottom
- d. Only from left side

**9-The Length:Width in case of an arrow head is**

- a. 1:1
- ☒ b. 2:1



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupattu Village, Gudalagundu (Po),  
Palani Road, Dindigul 624 002.

- c. 3:1
- d. 4:1

11- The internal angle of regular pentagon is \_\_\_\_ degree.

- ☒ a. 72
- b. 108
- c. 120
- d. 150

12- The internal angle of regular hexagon is \_\_\_\_ degree.

- a. 72
- b. 108
- ☒ c. 120
- d. 150

13- A point 'P' is above Horizontal Plane (HP) and in front of Vertical Plane (VP). The point is in

- ☒ a. First quadrant
- b. Second quadrant
- c. Third quadrant
- d. Fourth quadrant

14- The side view of an object is drawn in

- a. Vertical plane
- b. Horizontal plane
- ☒ c. Profile plane
- d. Any of the above

15- Which type of line is part of a dimension?

- a. break lines
- b. phantom lines
- ☒ c. extension lines
- d. cutting plane lines

16- Which line type is thin and light?

- a. visible lines
- b. center lines
- ☒ c. construction lines
- d. all of the above

17- Which line type is thick and black?

- ☒ a. visible lines
- b. center lines
- c. construction lines
- d. all of the above

18- The top, front, and bottom views align in this manner:

- a. Horizontally
- ☒ b. Vertically
- c. According to the planar views
- d. Parallel to the frontal plane

19- If a plane is parallel to the plane of projection, it appears:

- a. True size
- b. As a line or edge
- c. Foreshortened
- ☒ d. As an oblique surface

20- This line pattern is composed of three dashes, one long dash on each end with a short dash in the middle:

- a. Object
- b. Hidden
- c. Center
- ☒ d. Phantom



Handwritten signature in green ink.

Handwritten signature in black ink.  
 SSM Institute of Engineering and Technology  
 Kuttathupathi Village, Marudaganur (Po),  
 Palani Road, Dindigul 624 002.





**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Dindigul-Palani Highway, Dindigul - 624 002, Tamilnadu

Tel. No: 0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : ssmicdgl@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

Name: K. NATHASHKUMAR  
Reg.no: 922 117114076

Sec: 'B'

**Evaluation Questionnaire for Value Added Course on Machine Drawing**

1-The following is not included in title block of drawing sheet:

- a. Sheet No
- b. Scale
- c. Method of Projection
- d/ Size of sheet

2-Which of the following represent reducing scale?

- a. 1:1
- b/ 1:2
- c. 2:1
- d. 10:1

3-In first angle projection method, object is assumed to be placed in

- a/ First quadrant
- b. Second quadrant
- c. Third Quadrant
- d. Fourth quadrant

4-The following line is used for visible outlines

- a/ Continuous thick
- b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

5-The following line is used for dimension line

- a/ Continuous thick
- b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

6-The dotted lines represents

- a/ Hidden edges
- b. Projection line
- c. Centre line
- d. Hatching line

7-Hatching lines are drawn at \_\_\_\_\_ degree to reference line

- a. 30
- b/ 45
- c. 60
- d. 90

8-In aligned system of dimensioning, the dimensions may be read from

- a/ Bottom or right hand edges
- b. Bottom or left hand edges
- c. Only from bottom
- d. Only from left side

9-The Length:Width in case of an arrow head is

- a. 1:1
- b/ 2:1



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)  
Principal

SSM Institute of Engineering and Technology  
Kuttathupathi Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.



c/ 3:1

d. 4:1

11- The internal angle of regular pentagon is \_\_\_\_ degree.

a/ 72

b. 108

c. 120

d. 150

12- The internal angle of regular hexagon is \_\_\_\_ degree.

a/ 72

b. 108

c. 120

d. 150

13- A point 'P' is above Horizontal Plane (HP) and in front of Vertical Plane (VP). The point is in

a. First quadrant

b. Second quadrant

c/ Third quadrant

d. Fourth quadrant

14- The side view of an object is drawn in

a/ Vertical plane

b. Horizontal plane

c. Profile plane

d. Any of the above

15- Which type of line is part of a dimension?

a. break lines

b. phantom lines

c/ extension lines

d. cutting plane lines

16- Which line type is thin and light?

a. visible lines

b. center lines

c/ construction lines

d. all of the above

17- Which line type is thick and black?

a/ visible lines

b. center lines

c/ construction lines

d. all of the above

18- The top, front, and bottom views align in this manner:

a/ Horizontally

b/ Vertically

c. According to the planar views

d. Parallel to the frontal plane

19- If a plane is parallel to the plane of projection, it appears:

a/ True size

b/ As a line or edge

c. Foreshortened

d. As an oblique surface

20- This line pattern is composed of three dashes, one long dash on each end with a short dash in the middle:

a. Object

b. Hidden

c/ Center

d. Phantom



Dr. D. SENTHIL KUMAR, M.E., Ph.D., (MUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Melalagundu (Po),  
Palani Road, Dindigul 624 002.



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : ssmietdgl@gmail.com

**DEPARTMENT OF MECHANICAL ENGINEERING**

**VALUE ADDED COURSE ON MACHINE DRAWING**

(16.07.18 to 10.09.18)

**Evaluation Questionnaire for Value Added Course on Machine Drawing**

**1-The following is not included in title block of drawing sheet.**

- a. Sheet No
- b. Scale
- c. Method of Projection
- ☒ d. Size of sheet

**2-Which of the following represent reducing scale?**

- a. 1:1
- ☒ b. 1:2
- c. 2:1
- d. 10:1

**3-In first angle projection method, object is assumed to be placed in**

- ☒ a. First quadrant
- b. Second quadrant
- c. Third Quadrant
- d. Fourth quadrant

**4-The following line is used for visible outlines**

- ☒ a. Continuous thick
- b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

**5-The following line is used for dimension line**

- a. Continuous thick
- ☒ b. Continuous thin
- c. Chain thin line
- d. Short zigzag thin

**6-The dotted lines represents**

- ☒ a. Hidden edges
- b. Projection line
- c. Centre line
- d. Hatching line

**7-Hatching lines are drawn at \_\_\_\_\_ degree to reference line**

- a. 30
- ☒ b. 45
- c. 60
- d. 90


**8-In aligned system of dimensioning, the dimensions may be read from**

- ☒ a. Bottom or right hand edges
- b. Bottom or left hand edges
- c. Only from bottom
- d. Only from left side

**9-The Length:Width in case of an arrow head is**

- a. 1:1
- ☒ b. 2:1



  
Dr. D. SENTHIL KUMARAN, M.E., M.D., (PCC)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupattu Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.

~~c.~~ 3:1

d. 4:1

11- The internal angle of regular pentagon is \_\_\_\_ degree.

~~a.~~ 72

b. 108

c. 120

d. 150

12- The internal angle of regular hexagon is \_\_\_\_ degree.

~~a.~~ 72

b. 108

c. 120

d. 150

13- A point 'P' is above Horizontal Plane (HP) and in front of Vertical Plane (VP). The point is in

a. First quadrant

~~b.~~ Second quadrant

c. Third quadrant

d. Fourth quadrant

14- The side view of an object is drawn in

~~a.~~ Vertical plane

b. Horizontal plane

c. Profile plane

d. Any of the above

15- Which type of line is part of a dimension?

a. break lines

b. phantom lines

~~c.~~ extension lines

d. cutting plane lines

16- Which line type is thin and light?

a. visible lines

b. center lines

~~c.~~ construction lines

d. all of the above

17- Which line type is thick and black?

~~a.~~ visible lines

b. center lines

c. construction lines

d. all of the above

18- The top, front, and bottom views align in this manner:

a. Horizontally

~~b.~~ Vertically

c. According to the planar views

d. Parallel to the frontal plane

19- If a plane is parallel to the plane of projection, it appears:

~~a.~~ True size

b. As a line or edge

c. Foreshortened

d. As an oblique surface

20- This line pattern is composed of three dashes, one long dash on each end with a short dash in the middle:

a. Object

b. Hidden

~~c.~~ Center

d. Phantom



Dr.D.SENTHIL KUMARAN, M.E., P.E.D., (NUS)

Principal

SSM Institute of Engineering and Technology  
Kuttathupatti Village, Simalagundu (Po),  
Palani Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

Department of Mechanical Engineering

Value Added Course (2018-2019) Odd Semester

Course Name : Hands on training on Hands on Machine Drawing

Course Coordinators: E.SIVASELVAM & G.VINOTH KUMAR

## MARKS STATEMENT FOR VALUE ADDED COURSE

S.No	Reg.No	Name.of the Student	Marks Scored
1	922117114001	ADITHYAN	90
2	922117114006	ARULSELVAN K	85
3	922117114007	ARUN KUMAR E	85
4	922117114018	DEEPAK RAJ D	85
5	922117114019	DEEPAK RAJ T	75
6	922117114025	DIVYA DHARSHINI K	85
7	922117114026	M.ESAKKI DURAI PANDI	85
8	922117114027	ETHIRAJ YOGESH P	90
9	922117114028	GAJENDREN.R	75
10	922117114030	GRACE A	85
11	922117114043	JEGAN ROY J	90
12	922117114044	JEROME .F	75
13	922117114049	K KASI VISWANATHAN	85
14	922117114053	MANICKAVEL V	85
15	922117114054	MANIKANDAN P	85
16	922117114055	MANIKANDARAJA M	90
17	922117114056	MANOJKUMAR T	75
18	922117114058	MATHANRAJ G	85
19	922117114062	MOHAMED SYED ABUTHAHIR M	85
20	922117114063	MOHAMED THARIQ G	90
21	922117114064	MONISHKUMAR.M	90
22	922117114065	MUJIPUR RAHMAN	90
23	922117114066	A.NAGARAJ	85
24	922117114067	NAGA SARAVAN B	90
25	922117114075	NITHIS C	85
26	922117114076	NITHIS KUMAR K	100
27	922117114078	PANDIYA RAJ B	95
28	922117114079	PARAMESHWARAN M	90
29	922117114080	K.B.PARTTHASARATHI	90
30	922117114123	R.VINOTH KUMAR	90
31	922117114124	VISHNU BALAJI M	85
32	922117114126	YOKESWARAN M S	90



E. Sivaselvam  
Faculty Incharge

H. S. Sivaselvam  
HoD/Mech.Engg

G. Vinoth Kumar  
Principal

Dr. S. SENTHIL KUMARAN, M.B., Ph.D., (KUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttiathupatti Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmietdgl@gmail.com](mailto:ssmietdgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: 08/11/2018

NAME OF THE STUDENT	K. Nithis Kumar
YEAR	II year
CONTACT NO./ EMAIL	9944 693299. / nithis kumar 115 @gmail.com.

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathuruthi Village, Sindalaganai (PO),  
Palani, Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

## VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)


### FEED BACK FORM

DATE: 3-11-18

NAME OF THE STUDENT	T. MANOJ KUMAR
YEAR	2 <sup>nd</sup> year.
CONTACT NO./ EMAIL	8072470486 / kumarmanoj45391@gmail.com

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village - Sincalagudi Road,  
Palani Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmietdgl@gmail.com](mailto:ssmietdgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING


(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: 11/9/18

NAME OF THE STUDENT	Mohamed Ithariga G.
YEAR	2 <sup>nd</sup>
CONTACT NO./ EMAIL	/

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input type="checkbox"/> Excellent <input type="checkbox"/> Good <input checked="" type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor

  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (VUS)  
Principal  
SSM Institute of Engineering and Technology  
Kottathupatti Village, Dindigul (T.N.),  
Palani Road, Dindigul - 624 002.





# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: 8.11.18.

NAME OF THE STUDENT	JEROME
YEAR	2 <sup>nd</sup> Year.
CONTACT NO./ EMAIL	/

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttalupatti Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)


#### FEED BACK FORM

DATE: 8/11/18

NAME OF THE STUDENT	K. Kasi Viswanathan
YEAR	II <sup>nd</sup> Year
CONTACT NO./ EMAIL	95004368121 Kasi20171999@gmail.com

1. Course objective and scope in the industry (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D. (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttanurath, Village: Sivasankarapuram (PO),  
Palani Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: \_\_\_\_\_

NAME OF THE STUDENT	P. Manikandan
YEAR	II
CONTACT NO./ EMAIL	85 23 90 78 08 / manikandan1905p@gmail.com

1. Course objective and scope in the industry (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



*Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)*  
Principal  
SSM Institute of Engineering and Technology  
Kunthupatti Village Sindalaganai (PO),  
Palani Road, Dindigul - 624 002.



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING


(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: \_\_\_\_\_

NAME OF THE STUDENT	PARAMESHWARAN. M
YEAR	<del>III</del> II
CONTACT NO./ EMAIL	9092198697

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor

  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (HNS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village Sinoalagundu (Po),  
Palani Road, Dindigul 624 002.





# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

## FEED BACK FORM

DATE: 8-11-18

NAME OF THE STUDENT	M. PARAMESHWARAN
YEAR	II <sup>nd</sup> YEAR
CONTACT NO./ EMAIL	8838088751   <a href="mailto:www.parameshwaran987@gmail.com">www.parameshwaran987@gmail.com</a>

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
Explanation and Clarity (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

Tel. No:0451-2448800-899 (100 lines) Fax : 0451-2448855

E-mail : [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com)

## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

#### FEED BACK FORM

DATE: 08/11/2018

NAME OF THE STUDENT	B. PANDIYARAJ
YEAR	II
CONTACT NO./ EMAIL	6381042602 / bapandiyaraj

1. Course objective and scope in the industry (Please put ✓ mark)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
2. Knowledge and exposure of the trainer in the domain (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
3. Content coverage (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
4. Usefulness (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
5. Explanation and Clarity (Please put ✓ mark)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor

Dr. B. SENTHIL KUMARAN, M.B.A., P.D., (MUS)  
Principal  
SSM Institute of Engineering and Technology  
Katturupatti, Villupuram  
Tamil Nadu





# SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai )  
Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE OF COMPLETION



This is to certify that *Ms.GRACE.A(922117114030)* of has successfully completed the value added course on “*MACHINE DRAWING*” organized by the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul from 16.07.2018 to 10.09.2018

*[Signature]*

*[Signature]*

Event Coordinator



Hod/Mech.Engg

*[Signature]*

*[Signature]*  
Dr.D.SENTIL KUMARAN, M.Principal

Principal  
SSM Institute of Engineering and Technology  
Kattalamatti Village Sindalagudi (Po),  
Palani road, Dindigul - 624 002.





# SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai )  
Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE OF COMPLETION



This is to certify that *Ms.GRACE.A(922117114030)* of has successfully completed the value added course on “*MACHINE DRAWING*” organized by the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul from 16.07.2018 to 10.09.2018.

*SSM*



*SSM*

Event Coordinator

*h.8*

Hod/Mech.Engg

*Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)*  
Principal

*SSM*

Principal

SSM Institute of Engineering and Technology  
Kuttichappath, Village: Sindalagundu (Po),  
Palani Road, Dindigul - 624 002



# SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai)

Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE OF COMPLETION



This is to certify that *Mr.NITHIS.C(922117114075)* of has successfully completed the value added course on “*MACHINE DRAWING*” organized by the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul from 16.07.2018 to 10.09.2018

F. Srinivas

Event Coordinator

Hod/Mech.Engg

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)

Principal

Principal

SSM Institute of Engineering and Technology

Ezharipatti Village, Sindalagundu (Po),

Palani Road, Dindigul - 624 002.







# SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai)  
Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE OF COMPLETION



This is to certify that *Mr.JEROME.F (922117114044)* of has successfully completed the value added course on “*MACHINE DRAWING*” organized by the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul from 16.07.2018 to 10.09.2018

*[Signature]*

*[Signature]*

Event Coordinator



*[Signature]*

Hod/Mech.Engg

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (RUS)  
Principal

*[Signature]*

SSM Institute of Engineering and Technology  
Kumbathuruthi Village, Dindigul-624 002,  
Palani Road, Dindigul - 624 002

Principal