

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

II year Mechanical Students

Professor/Mech. Engg, SSMIET

Mr. E. Sivaselvam & Mr. G. Vinothkumar

1. Students should be able to create sectional views to

2. Students should be able to create a clear and accurate

3. Students should be capable of Understanding and

4. Students should be able to understand and mastery of orthographic projection techniques for representing three-

represent internal features of machine components.

interpreting BOMs for manufacturing and assembly.

DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Courses Summary 2018-2019

Machine Drawing

Bill of Materials.

30 hours

Dindigul

Course Name **Course Duration** Year offered

Course Instructors

Course Outcome

Course Type

Assessment Mode

Attendance **Number of Participants** Scheme of Exam

30 hours

Self Framed

Evaluation test through offline mode

dimensional objects in two dimensions.

F. Stirnel

Course Coordinator

Engineorin



HoD/Mech.Engg

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., [HUS] Principal SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Pa,

Palam Road, Dindigul - 624 002



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

ONVOIGUL-625

E.SIVASELVAM AP/Mech,

G.VINOTH KUMAR AP/Mech,

HOD/MECH

PRINCIPAL

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

SSM Institute of Engineering and Technology Kuttathupatti Village Sindalagundu (20). Palani Road, Dindigul - 624 002.



Dindgul - Palani Highway, Dindigul - 624 002.

Phone: 0451 - 2448800 - 99 (100 Lines) = Email: <u>ssmietdgl@gmail.com</u> =

Fax: ()451 - 2448855 Website: 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

Duration

Timing

: 30 (on first come first serve basis)

: 15 days (30 hours)

: 4.30 to 6.30 pm (without disturbing

remedial and coaching classes)

Attendance for the program is compulsory for all days.

1. G. Starred

Course coordinators
E.SIVASELVAM AP/ Mech,
G.VINOTH KUMAR AP/Mech,

HOD/MECH

PRINCIPAL

DI.D.SERTHIL KUMARAN, M.R., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology Kuttathupath 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 Engagering and Technology
Kuttathupath Village Sindalagundu (Po),
Palam Road, Dinungul - 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

	Topics
1	Introduction
	Need of Graphical Language
	Importance Machine Drawing Tools (from Instruments to Current Softwares) Projections Output Descriptions Output Descriptions Descri
2.	Projections Projections
	Designation
	Relative position of views Examples
3.	Classification of Machine Drawings (with examples)
	Assembly Drawing
	Part Drawing
	Detailed Drawing
4.	Definated
4.	Principles of Drawings
-	Scales as per ISO standards, eg. A3 x 3 (420 x891)
1	Importance of Title Block and Part list
1	 Lines types (Lines used in Machine Drawings)
5.	
V .	Sectioning
	Sectioning • Cutting Planes and Section Hatching Lines
	Cutting Planes and Section Hatching Lines
	 Cutting Planes and Section Hatching Lines Half Sections
	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections
	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples)
	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections
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	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces
	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces Chamfers
5.	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces Chamfers
5.	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces Chamfers Screw Threads
5.	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces Chamfers Screw Threads Tapered Features Dr.D.SENTHIL KHMARAN, M.E., Ph.D., INU.
5.	 Cutting Planes and Section Hatching Lines Half Sections Aligned Sections Offset Sections Dimensions (with examples) Principle of Dimensioning Counter Sink, Counter Bores Spot Faces Chamfers Screw Threads

7	Limits, Fits and Tolerance
	• Definitions
1	Classifications of Fits
-	System of Fits` Computations Selection of Fits
- 2	
1	 Method of Indicating Fits on Drawings Tolerance Grade
	 Computations of Tolerance Positions of Tolerance
1	
1	 Fundamental of Deviations Shaft and Hole Terminology Method of Placing Limit Dimensions
8.	Entite Differisions
	Abbreviations and Symbols
9,	Screwed Fastenings
(3)	Types of Bolts
1	• Designation
1	Types of Nuts
	Types of Screw Designation of Bolted Joints
	Stud Joints
10.	Key Joints
	• Types of Key joints
ł.	Type of Cotter Joints
l)	Types of Pin Joints and knuckle Joints
11.	Riveted Joints
	• Introduction
	Rivet and Riveting
	• Classification of Rivet Terminology of Rivet
	Classification of Rivet Terminology of Riveted Joint Types of Joints
12.	Welded Joints
	Introduction of Welding Process
	• Types of Welded Joints
	Representation of Welds Symbols and its conventions
13.	Assembly Drawings Practice
İ	Sleeve and cotter joint
-	 Spigot and socket joint
-1	Gib and cotter joint
	Knuckle joint
	Flange coupling
	Plummer block
	Screw jack
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Dr.D.SENTHIC KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village Sindalagundu (Po),
Palani Road, Dindigut - 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 to others, eausing unnecessary delays and expenses in production of the drawing to others.

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal SSM lastitute of Engunering and Technology Kuttatanpatti Village Sinaatagunan (19), Paran, Read, Dindigdi 02-002.

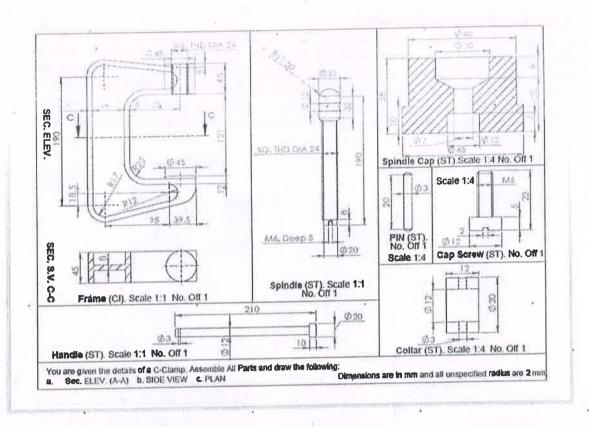


Fig. 2. Part drawing Examples.

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).



Principal
SSM Institute of Engineering and Technology
Kuttuthupatti Village Sindalagundu (Po),
Palan. 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)

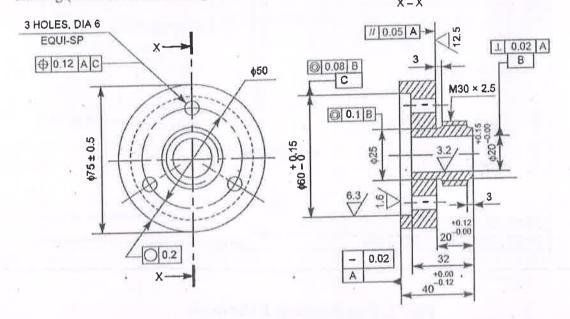


Fig. 5. Production drawing of a machine component



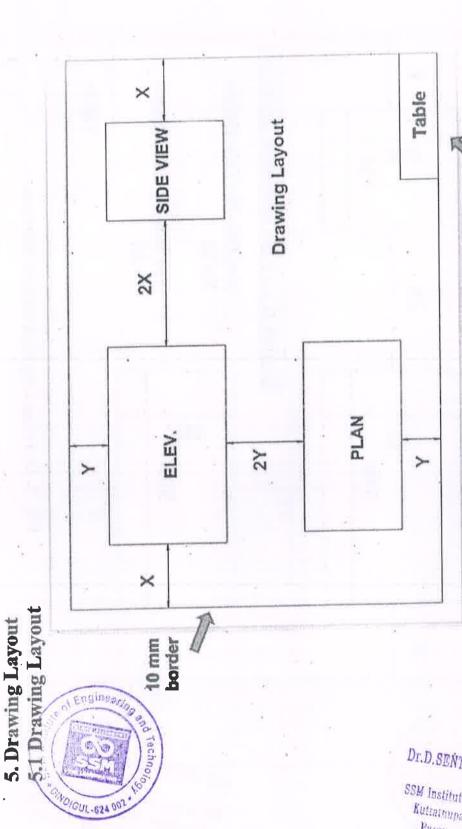
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Write your name and seat number here with Blue ink Fig. 7. Drawing Layout.

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5.3 Drawing Layout example solution

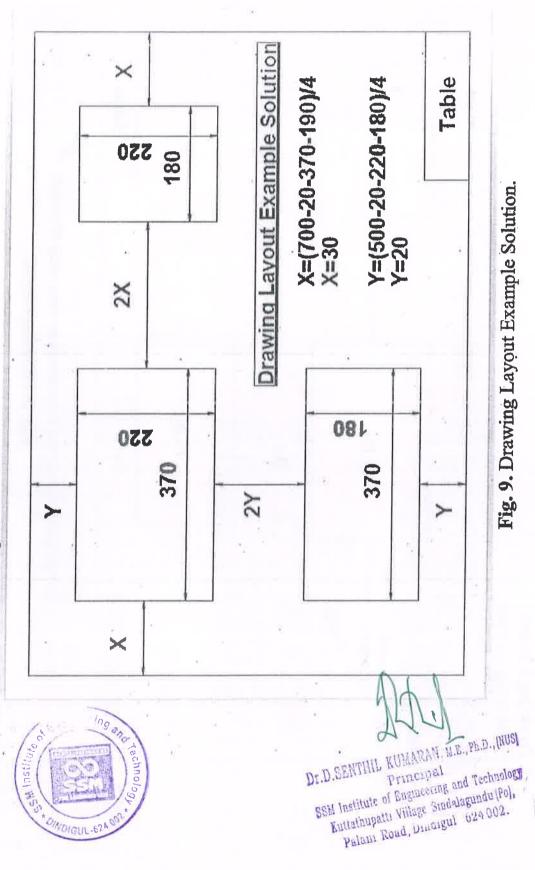


Fig. 9. Drawing Layout Example Solution.

5.5 An example of filled table

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Fig. 11. Filled-Drawing Table.

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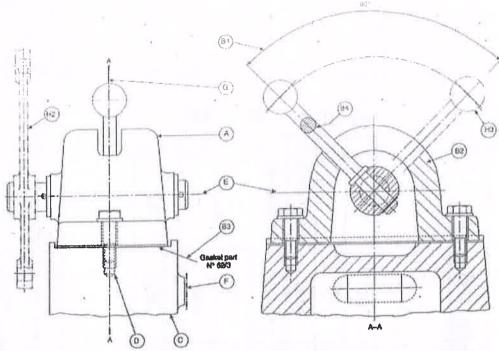
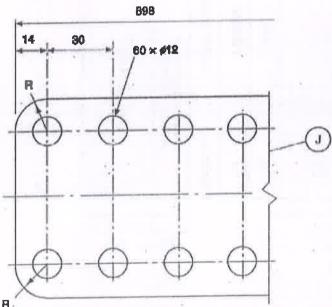
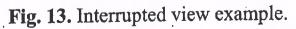


Fig. 12. Example of different line types.

Interrupted view application



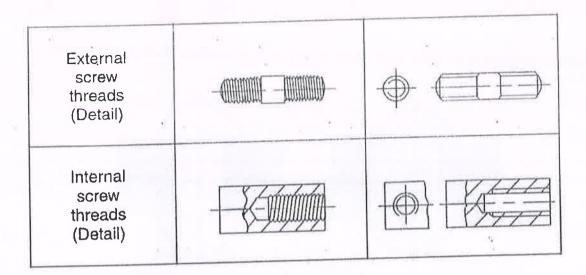




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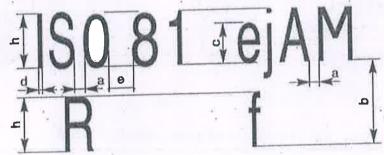
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6.4 Abbreviations for Materials

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

7. Lettering



Lettering height h (14/14)h 2.5 3.5 6 7 10 14 20 (Height of capitals) Height of lower-case letters c (10/14)h 2.5 3.5 5 7 10 14 (without stem or tail) 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 1.4 2 1.8	Characteristic	Ratio			Di	imensi	ons, (mi	m)			A
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100 15 15 9 Hittis 42 10 10 11	Spacing between characters	-			5	0.7	1 D.SE	1.4 NTAIL	2	2.8	M.E., Ph.D., (4
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Indicate the correct and incorrect methods of sectioning of machine elements represented in Fig. 14.

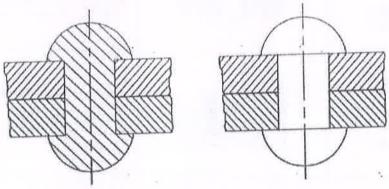


Fig. 17. Hatching of two adjacent parts.

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

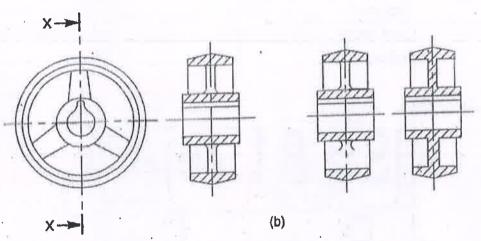


Fig. 18. Hatching of two adjacent parts.

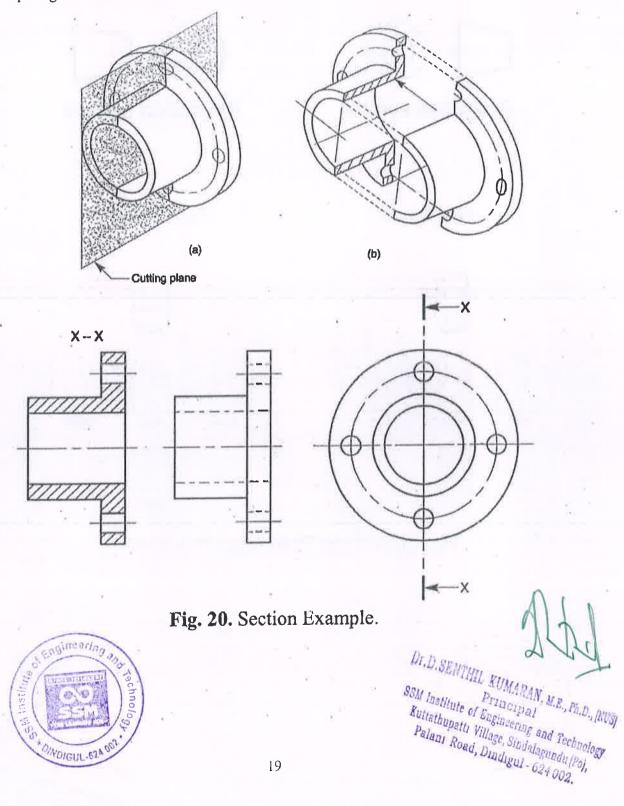
Indicate the correct and incorrect methods of sectioning of machine elements represented in Fig. 19.

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.



10. First and Third Angel Projection

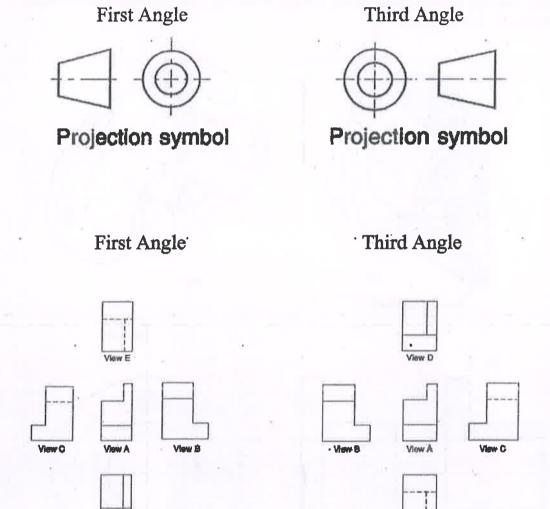


Fig. 23. First and Third Angel Projection.



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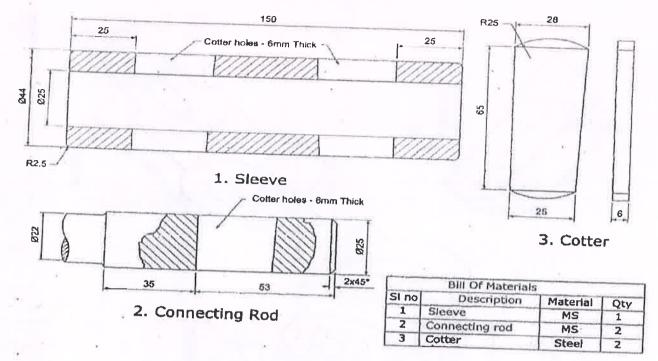
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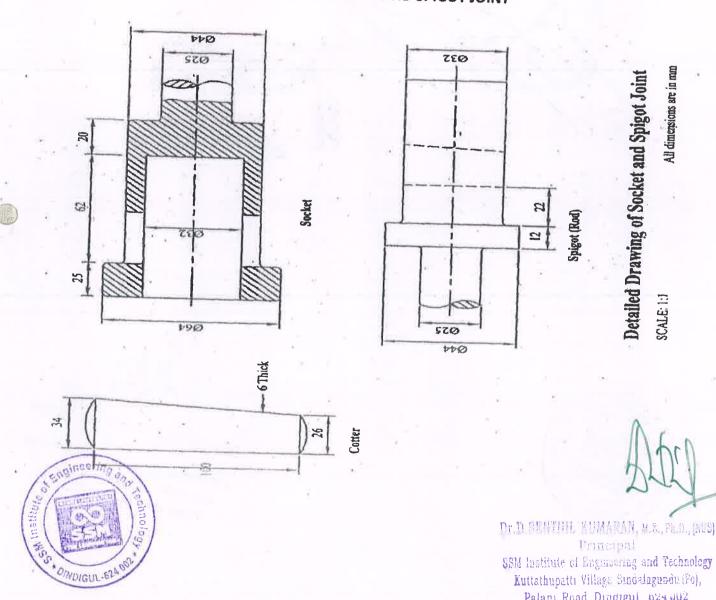
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ASSEMBLY OF SLEEVE AND COTTER JOINT

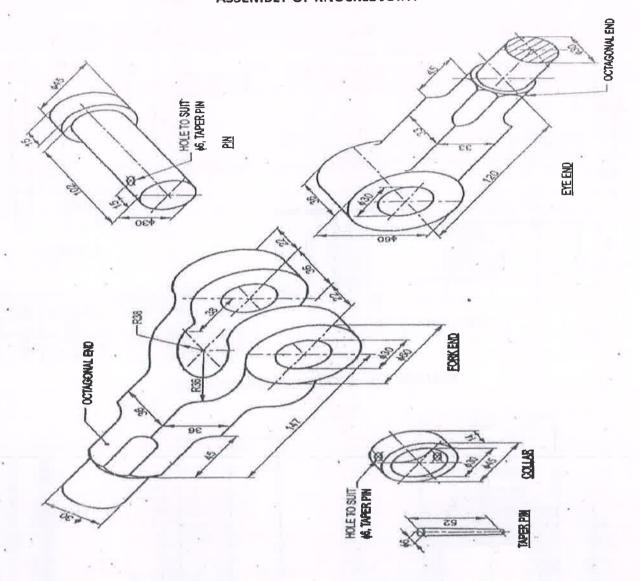


ASSEMBLY OF SOCKET AND SPIGOT JOINT



SSM Institute of Engineering and Technology Kuttathupatti Village Sindelagundu (Po), Palani Road, Dindigul 624 802

ASSEMBLY OF KNUCKLE JOINT





Dr.D. SENTHIL HUMARAN, M.Z., Ph.D., [NUS]

PRINCEDEL

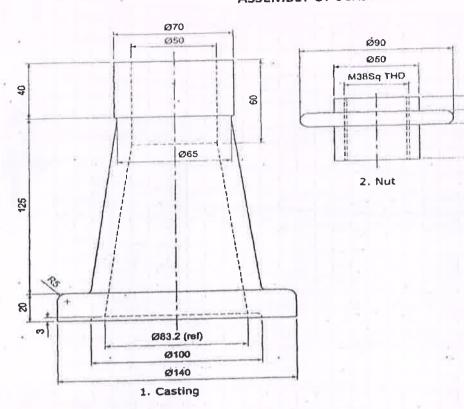
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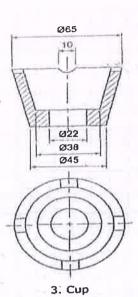
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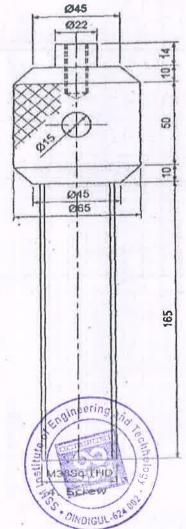
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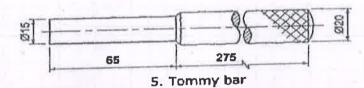
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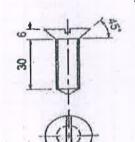
ASSEMBLY OF SCREW JACK

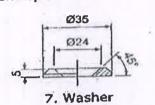












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6. Set Screw

SI 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	M5	1

Dr.D.SENTHIL KIRARAN, M.E., Ph.D., [NUS]

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

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Course coordinations
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Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu Tel. No:0451-2448800-899 (100 lines) Fax: 0451-2448855

E-mail: ssmjetdel@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 or	1 Machine	Drawing
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	Evaluation Questionnain	e for Value Added Course on Machine Drawing
1-7	The following is not included in tit	
	Sheet No	
b.	Scale	
c.	Method of Projection	

- 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
- 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 Ruttathupatti Village Sindelagundu (Po), Paiani Road, Dindigul 624 002.

C.	3:1	
d.	4:1	
11-		degree.
2	72	1,081.001
b.	108	
С.	120	
d.	150	
12-	The internal angle of regular hexagon is	degree.
a.	72	degree.
b.	108	
	120	
	150	71
u.		
		and in front of Vertical Plane (VP). The point is
	in	1
2.	First quadrant	
b.	Second quadrant	
c.	Third quadrant	
· d.	Fourth quadrant	
	14-The side view of an object is drawn in	2 '
a.	Vertical plane	
b.	Horizontal plane	/
8	Profile plane	
	Any of the above	
	15-Which type of line is part of a dimension?	
a.	break lines	
b.	phantom lines	
2	extension lines	
d.	cutting plane lines	
٠.	16-Which line type is thin and light?	
a.	visible lines	/
b.	center lines	1.
S.	construction lines	151
d. '	all of the above	
u.	17-Which line type is thick and black?	/
/	1/2 Which the type is thick and black:	
h.	visible lines	
, b.	visible lines center lines	*
c.	visible lines center lines construction lines	
	visible lines center lines construction lines all of the above	Nie mannary
c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the	his manner:
c. d. a.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the	his manner:
c. d. a.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically	his manner:
c. d. a. b. c.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views	his manner:
c. d. a.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane	
c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project	
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c. d. a. b. c. d. a.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened	
c. d. a. b. c. d. a. b. c.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface	tion, it appears:
c. d. a. b. c. d. a. b. c.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dasl	
c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dasl in the middle:	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears:
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears: hes, one long dash on each end with a short dash
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears: hes, one long dash on each end with a short dash 150 1
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears: hes, one long dash on each end with a short dash DI.D. Blatter of Englancing and Technology SSM Institute of Englancing and Technology
c. d. a. b. c. d. a. b. c. d.	visible lines center lines construction lines all of the above 18-The top, front, and bottom views align in the Horizontally Vertically According to the planar views Parallel to the frontal plane 19- If a plane is parallel to the plane of project True size As a line or edge Foreshortened As an oblique surface 20- This line pattern is composed of three dash in the middle: Object	tion, it appears: hes, one long dash on each end with a short dash

Name: K. NPTHIShkumar Rey. No: 922 117114076 Sec: B'



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: ssmietdel@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE ON MACHINE DRAWING (16.07.18 to 10.09.18)

Evaluation Questionnaire for Value Addec	d Course on Machine Drawing
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Evaluation	ii Questionnaire for	value Added	Course on	Machine	Drawing
1-The following is no	ot included in title bloc	ck of drawing	sheet:		

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

2-Which of the following represent reducing scale?

- 1:2
- c. 2:1
- d. 10:1

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

- a/ First quadrant
- Ь. Second quadrant
- Third Quadrant
- Fourth quadrant d.

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

- Continuous thick
- Continuous thin
- Chain thin line c.
- 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

- 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

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DLD SENTIAL KUMARAN, ME, PLAN, MIS Prancipal

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

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c/ 3:1
  d. 4:1
  117
         The internal angle of regular pentagon is ____degree.
      72
  b. 108
  c. 120
  d. 150
         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
 a. First quadrant
 b., Second quadrant
 of Third quadrant
 d. Fourth quadrant
     14-The side view of an object is drawn in
     Vertical plane
 b.
     Horizontal plane
    Profile plane
     Any of the above
     15-Which type of line is part of a dimension?
 a.
        break lines
        phantom lines
 b.,
 c/.
        extension lines
 d.
        cutting plane lines
     16-Which line type is thin and light?
        visible lines
a.
        center lines
b.
c/
        construction lines
d.
        all of the above
     17- Which line type is thick and black?
        visible lines
87
        center lines
b.
OFF
        construction lines
d.
        all of the above
     18-The top, front, and bottom views align in this manner:
a.d
            Horizontally
b.
            Vertically
            According to the planar views
C.
d.
            Parallel to the frontal plane
    19- If a plane is parallel to the plane of projection, it appears:
            True size
            As a line or edge
b.)
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:
            Object
            Hidden
            Center
of Engineering
            Phantom
                                                             Dr.D. SERTER RUPES OF R. M.B., Ph.D., INUS
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Dindigul-Palani Highway, Dindigul - 624 002, Tamilnadu Tel. No:0451-2448800-899 (100 lines) Fax: 0451-2448855

E-mail: ssmietdel@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE ON MACHINE DRAWING

(16.07.18 to 10.09.18)

Evaluation Questionnaire for Valu	e Added Course on Machine Drawing
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	Evaluation Questionnaire for Value Added Course on Machine Drawing
1-]	The following is not included in title block of drawing sheet.
	Sheet No
h	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
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- 5-The following line is used for dimension line
- a. Continuous thick
- b. Continuous thin
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- 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

- 45 کار
- ć. 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

2:1 Euglinear/n. ONDIGUL-624 OF

Dr.D. SENTED. KUMARAN, K.K., PLD., (1965) Principal SSM Institute of Engineering and Technology Kuitaihupatti Village Bindalagundu [Po], Palam Road, Dindigul - 624 002.

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	3:1 4:1		
ų. 11-		automore to dominate	
a.	The internal angle of regular p	entagon isdegree.	
b.	108	/ .	
C.	120	/	
	150		
12-	The internal angle of regular he	exagon is degree	
Ja.		caugon isucgree.	
	108	*	
c.	120	\mathcal{L}	
d.	150		
	13-A point 'P' is above Horizontal	Plane (HP) and in front of Vertical Plane	(VP) The point is
	in	a land (111) and it from or vertical franc	(vi). The point is
a.	First quadrant		
	Second quadrant	, ·	
	Third quadrant	<u> </u>	3 4
	Fourth quadrant		
	14-The side view of an object is dra	awn in	
2	Vertical plane		
b.	Horizontal plane		
c.	Profile plane		
d.	Any of the above		
	15-Which type of line is part of a d	limension?	
a.	break lines		
b	phantom lines		
N.	extension lines		
d.	cutting plane lines		
	16-Which line type is thin and light	t?	
a.	visible lines		
b	center lines		
5	construction lines		
d.	all of the above		
	17-Which line type is thick and bla	ck?	
A. 1.	visible lines	6	
b.	center lines	W	
c. d.	construction lines all of the above		
		ra alian in Ahia manuan	
	18- The top, front, and bottom view Horizontally	s angu in this manner:	
a.	Vertically		
c.	According to the planar view	16	
d.	Parallel to the frontal plane	5	
	19- If a plane is parallel to the plan	e of projection, it appears:	
a.	True size	o or projection, it appears.	
b.	As a line or edge		
c.	Foreshortened		
d.	As an oblique surface		
	•	f three dashes, one long dash on each end	with a short dash
	in the middle:	Δ.	
a.	Object	. // \	200
b. '	Hidden	HIM I	CA.
5/	Center	1	801 . To al
d.	Phantom 370	NIN	4
	(8)	D. D. SENTHE KUMARAN, M.E. TA.D., (NUS) F.	Stomal
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	logy	SSM Institute of Rugarouring and Technology	
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	*ONOIGUL-GZA	Palani Road, Dinuigui 024 002.	



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 PANDİ	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	DISS.SENTHI
32	922117114126	YOKESWARAN M S	90
			SSM Institute

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Faculty Incharge

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HoD/Mech.Engg

KUMARAN, M.B., Ph.D., (NUS) Principal

90 Principal
SSM Institute of Engineering and Technology

Kuttathupatti Village Sindalagundu (Po), Palam Road, Dindigul - 624 002.

NAME OF THE STUDENT

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)

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K. Nithis

DATE: 08/11/2018

Kuttathunatti Village Sidoalagonas Poj.

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IDAK	The year		
CONTACT NO./ EMAIL		/ nithis	kumay 7-115 @gmail.com
	145		100
1. Course objective	□ Excellent		4
and scope in the industry	₫ Good		
(Please put ♥ mark)	□ Average		
	□ Poor		
2. Knowledge and	☐ Excellent		
exposure of the trainer in the	□ Good		
domáin	□ Average		
(Please put ✓ mark)	□ Poor		- 6 10
3. Content coverage	□ Excellent		
(Please put ✓ mark)	al Good		
	☐ Average		
	• Poor		
4. Usefulness	□ Excellent		
(Please put ♥ mark)	Good		- a
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	poor Poor	9	LIK.
5. 'Explanation and	47 Excellent		SENTHIL KUMARAN, M.E., Ph.D., (NUS)
GIRPHY 70	□ Good	D1.1	SERTHIC ROBINST Trachnology
(Please pril v mark)	□ Average	SSI	Principal Institute of Engineering and Technology Institute of Engineering and Technology

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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)

FEED BACK FORM

T. MANOTKUMAR

DATE: 37-11-12.

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CONTACT NO./ EMAIL	8078470486 kumanmanu	1745391@gmail Co
78		
1. Course objective	□ Excellent	, M
and scope in the industry	Good Good	
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(riease par mark)	□ Poor	
2. Knowledge and	□ Excellent	
exposure of the trainer in the	Good Good	
domain	□ Average	* *
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Content coverage	□ Excellent	
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7	□ Poor	
4. Usefulness	Excellent	
(Please put \checkmark mark)	TO Good	
(110000 bai mark)	□ Average	
	□ Poor	6.
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Poor

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Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village Sinemagusan 1991.
Palam 18600 Drinight 629 002.

DI.D. SENTHIL KUMARAN, M.E., Ph.D., INUS



NAME OF THE STUDENT

S + DINDIGUL

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)

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Thanks G. G.

DATE: 11 9 1 8

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1. Course objective		□ Excellent		
and scope in the industry		d Good □		
(Please put ✓ mark)	,	□ Average		
		D Poor		
2. Knowledge and		□ Excellent		
exposure of the trainer in the	,	2 Good		
domain		□ Average		*
(Please put ✓ mark)	*	Poor		
3. Content coverage	Į	□ Excellent		
(Please put ✓ mark)		Good	m, 6	1 1 1 1 1 1
		△ Average		
	C	Poor		
4. Usefulness		a ₎ Excellent	Ÿ	
(Please put mark)		Good		
*	C	Average		. 11
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5. Explanation and	Ü	Éxcellent		Dr.D. SENTHIL KUMARAN, M.E., Ph.D. Principal Principal and Tool
Clarity	g	n Good		nr D. SENTHIL KUMAKSAL
(Please put) mark)		Average		1 1 10 11
Silver Silver		Poor		SSM Institute of East Silver amoragina over Palan Road Distributed over the control of the contr
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NAME OF THE STUDENT

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)

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DATE: 8:11.18.

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and y	lou.		
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-			
	Excellent		
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a	Average		× - ×
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	Average	8	+:
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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)

FEED BACK FORM

DATE: 8/11/16

NAME OF THE STUDENT	K. Kasi Viswardhan
YEAR	IInd Year
CONTACT NO./ EMAIL	95004868/21 Kasi20171999 agmail. Com

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(16.07.18 to 10.09.18)

FEED BACK FORM

	DATE:
NAME OF THE STUDENT	P. Mané kandan
YEAR	I
CONTACT NO./ EMAIL	8523907808/ manekandan 1905p@gmael.Gm

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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)

FEED BACK FORM

		DATE:
NAME OF THE STUDENT	PARAMESHWARAN.	M
YEAR	200 II	A
CONTACT NO./ EMAIL	9092198697	2
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Poor

Palaui Road, Dindigui 024 002.



NAME OF THE STUDENT

Dindigul-Palani Highway, Dindigul – 624 002, Tamilnadu

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

E-mail: ssmietdgl@gmail.com

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(16.07.18 to 10.09.18)

FEED BACK FORM

M PARAMESHWARAN.

DATE: 8-11-18

Palani Road, Dindigul - 624 002-

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NAME OF THE STUDENT

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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

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FEED BACK FORM

B. PANDIYARAJ

DATE: 08/11/2018

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Event Coordinator

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DI.D. SENTRIL RUSERRAN, M. Principal Principal Principal Principal SSE institute of Engineering and Technology

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A-Serimin KUMARAN, ME., Fa.D., [RUS]
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SSW Institute of Engineering and Technology
Franciscon Findulgol,

Hod/Mech. Engg Paran: Road, Dindigul - 624 002.

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Event Coordinator

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D.D.SENTHE RUBERRAN, M.E., Ph.D., RUS

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