KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING (AUTONOMOUS)

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE

ON

"Product Design & Drafting by CATIA"

Resource Person : Sri. U.Pradeep Kumar, Asst. Professor, Dept. of ME, KSRMCE

Course Coordinator: Dr. S.Shakeel Ahmed, Associate Professor, Dept. of ME, KSRMCE

Duration: 06/02/2023 to 23/02/2023

K.S.R.M. COLLEGE OF ENGINEERING
(UGC-AUTONOMOUS)
Kadapa, Andhra Pradesh, India– 516 003

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PERMISSION LETTER

Lr./KSRMCE/Dept.of ME /2022-2023

Date:01/02/2023

To
The Principal
KSRM College of Engineering,
Kadapa,AP.

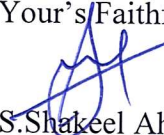### //THROUGH PROPER CHANNEL//

Respected sir

      Sub: KSRMCE-Dept of ME – Permission for Value Added course on "Product Design & Drafting By CATIA"-Request-Reg.

      It is being brought to your kind notice that Department of ME organizing a Value Added course on Product Design & Drafting By CATIA from 06-02-2023 to 23-02-2023.at ME 206 from 4.P.M to 6 P.M.In This Regard I kindly request to provide the Permission and Financial assistance to procure the needs and smooth completion of the programme for which kind of act I Would be grateful to you sir.

      Thanking you

Your's Faithfully

Dr.S.Shakeel Ahmed
(Coordinator)

Forwarded to Principal sir

Permitted
V. S. S. Murty
01/02/2023

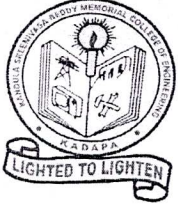# K.S.R.M. COLLEGE OF ENGINEERING
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Lr./KSRMCE/Dept. Of ME /2022-2023

Date:03/02/2023

Circular

It is immense pleasure to inform that the Department of Mechanical Engineering conducting Value Added Course on "Product Design & Drafting By CATIA" 06-02-2023 to 23-02-2023 at ME 206 from 4P.M to 6P.M.In this Regard, Interested students are requested to register for the Value Added Course,

For the Registration, Please Contact

Course Coordinator :Dr.S.Shakeel Ahmed .Associate Professor.Med.K.S.R.M.C.E

Contact No:9441404099

HOD

Dept.of ME.

Professor & Head
Department of Mechnical Engineering
K.S.R.M. College of Engineering
KADAPA - 516 003.

Cc to;

IQAC-KSRMCE

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Date: 04-02-2023

DEPARTMENT OF MECHANICAL ENGINEERING

REGISTRATION FORM
Value Added Course
On
"Product Design & Drafting by Catia" From 06/02/2023 to 23/02/2023

S.No	Full Name	Roll Number	Branch	Semester	Signature
1	229Y5A0316	DHANYASI CHARAN KUMAR	ME	IV	D. Charan KUMAR
2	229Y5A0317	DUDEKULA AMEER BASHA	ME	IV	
3	229Y5A0318	DUDEKULA USMAN	ME	IV	Usman
4	229Y5A0319	EBBILI PRAMOD	ME	IV	Pramod
5	229Y5A0320	GATTA VENKATA SIVA	ME	IV	S
6	229Y5A0321	GOLLA SOMESH	ME	IV	Somesh
7	229Y5A0322	IMMAREDDY VENKATA SUBBA REDDY	ME	IV	SUBBA
8	229Y5A0323	KANAKADANDI VENKATA SAI KUMAR	ME	IV	
9	229Y5A0324	KARIPIREDDY PRADEEP KUMAR REDDY	ME	IV	K. Pradeep kumar Reddy
10	229Y5A0325	KARNATI NARESH REDDY	ME	IV	
11	229Y5A0326	KUNCHAPU RAMESH	ME	IV	Ramesh
12	229Y5A0327	KUTHALA ADARSHA	ME	IV	Adarsha
13	229Y5A0328	M RAMESH	ME	IV	M.Ramesh
14	229Y5A0329	MADANAPURI YUGANDHAR	ME	IV	Yugandhar
15	229Y5A0330	MARAM RUTWIK MANI KANTH	ME	IV	Mani
16	229Y5A0331	MILLULLAGARI MANSOOR BASHA	ME	IV	M. Rutwik mani kanth
17	229Y5A0332	MOOD ABHILASH NAIK	ME	IV	
18	229Y5A0333	NAGIRIDONE MURALI KRISHNA	ME	IV	N.M Krishna
19	229Y5A0334	P ARAVIND	ME	IV	Aravind

		SHAMEER BASHA			
21	229Y5A0336	PALLI MALLIKARJUNA	ME	IV	
22	229Y5A0337	PASALA UDAY KUMAR	ME	IV	
23	229Y5A0338	PASAM LOKCHAND YADAV	ME	IV	
24	229Y5A0339	PEETLA HAREESH	ME	IV	
25	229Y5A0340	PERUGU NARESH BABU YADAV	ME	IV	
26	229Y5A0341	PITTALA SARATH SAI	ME	IV	
27	229Y5A0342	POLIMERA PAVAN KUMAR	ME	IV	
28	229Y5A0343	RABBU MURALIKRISHNA	ME	IV	
29	229Y5A0344	RAGI MADHU	ME	IV	
30	229Y5A0345	SAYAVARAPU RAJENDRA	ME	IV	
31	229Y5A0346	SHAIK HAMER KAMID	ME	IV	
32	229Y5A0347	SHAIK MOHAMMED SADIQ	ME	IV	
33	229Y5A0348	SHAIK NAGOOR BASHA	ME	IV	
34	229Y5A0349	SREERAM SIVA	ME	IV	
35	229Y5A0350	SUGALI SHIVAJI NAIK	ME	IV	
36	229Y5A0351	SYED MOHAMMED ABDULLA ADIL	ME	IV	
37	229Y5A0352	TALARI CHARAN RAJ	ME	IV	
38	229Y5A0353	THUMMALURU MAHESH	ME	IV	
39	229Y5A0354	UPPARA VINAY KUMAR	ME	IV	
40	229Y5A0355	VADDE UPENDRA	ME	IV	
41	229Y5A0356	VADDE UPENDRA	ME	IV	
42	229Y5A0357	YAMIKA HARI BABU	ME	IV	

Coordinator:

HOD
Professor & Head
Department of Mechnical Engineering
K.S.R.M. College of Engineering
KADAPA - 516 003.

Syllabus of Value Added Course

Course Name:

Product Design &Drafting by Catia

Course Objectives:

Upon completion of the CATIA V5 Fundamentals Course, the student is able to:

- Create and Save various types of CATIA V5 documents
- Differentiate and switch between a selection of workbenches
- Perform various tasks concerning 3D Navigation and geometry selection
- Create and constrain sketches
- Descibe the functinal capabilities and general usage of:Part Design,Generative Shape Design,Assembly Design

Course Outcomes:

- Use their capacity of vision to interpret and/or convey the technical information in an industrial drawing.
- Know and be able to apply graphical representation techniques using traditional metric geometry and descriptive geometry methods.
- Know, identify, interpret and apply the current standards on Industrial Technical Drawing.
- Computer aided design applications that allow students to elaborate and use graphical and technical information.

UNIT-I CATIA as a CAD software :- Concept of Parametric Modelling, Feature Based Modelling, User Interface,Mouse operations, File types and Management, drawing profiles. Major user industries of Catia. Why Catia is preferred?

UNIT-II sketcher: Profile toolbar, operation (corner, chamfer,relimitations, transformations, project 3D element), constriants, types of constraints, workbench. sketch tools, tools(Sketch sloving status, sketch analysis, output feature), visualization toolbar, user selection filter.

UNIT-III Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole. Advance Design features :- Axis System, Types of draft, Shell, Stiffener, rib slot,

UNIT-IV Introduction to Assembly:- Types of assembly approach, Types of Constrains and DOF, placement of components in the Assembly, Manipulating Components, BOTTOM UP Approach TOP DOWN Approach:- Part, Product, Component, Space Analysis, Reuse Pattern, Save management.

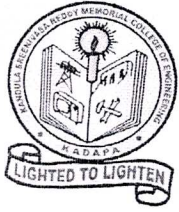**UNIT-V** Assembly Drafting:- Scene(Exploded View), Bill of material, Ballon creation, Graph Tree Reordering.

Text Books/Reference Books:

1.CATIA Books By Prof. Sham Tickoo

2.An Introduction to CATIA V5, Release 12 A Hands-On Tutorial Approach Kristie Plantenberg

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SCHEDULE

Department of Mechanical Engineering

Value Added Course
On
"Product Design & Drafting by Catia" From 06/02/2023 to 23/02/2023

Date	Timing	Resource Person	Topic to be covered
06-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Concept of Parametric Modelling, Feature Based Modelling.
07-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	User Interface, Mouse operations, File types and Management
08-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	drawing profiles. Major user industries of Catia. Why Catia is preferred
09-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	sketcher: Profile toolbar, operation (corner, chamfer,relimitations, transformations, project 3D element)
10-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	constraints, types of constraints, workbench. sketch tools, tools(Sketch sloving status, sketch analysis, output feature), visualization toolbar, user selection filter
11-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch,
13-02-2023 AN	2 P.M to 6 P.M	U.Pradeep kumar	Types of Fillets, Types of Chamfer, Types of Hole. Advance Design features :- Axis System, Types of draft, Shell, Stiffener, rib slot,
14-02-2023 AN	2P.M to 6 P.M	U.Pradeep kumar	Introduction to Assembly:- Types of assembly approach, Types of Constrains and DOF,
15-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	placement of components in the Assembly, Manipulating Components
16-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	BOTTOM UP Approach TOP DOWN Approach:- Part, Product,
17-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Component, Space Analysis, Reuse Pattern, Save management.

18-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Assembly Drafting:- Scene(Exploded View)
20-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Bill of material,
21-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Ballon creation, Graph Tree Reordering.
22-02-2023 AN	4 P.M to 6 P.M	U.Pradeep kumar	Practice of diagram, validation and distribution of certificates
23-02-2023 A.N	4 P.M to 6 P.M	U.Pradeep kumar	Practice session of Assembling components, valedictory and Distribution of certificates

Coordinator(s)

HOD

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DEPARTMENT OF MECHANICAL ENGINEERING

Attendance sheet of Value Added course on "Product Design & Drafting by Catia" From 06/02/2023 to 23/02/2023

Sl. No.	Roll No.	Name	06/2	07/2	08/2	09/2	10/2	11/2	13/2	14/2	15/2	16/2	17/2	18/2	20/2	21/2	22/2	23/2
1	229Y5A0316	DHANYASI CHARAN KUMAR	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
2	229Y5A0317	DUDEKULA AMEER BASHA	AB	AB	AB	AB	A	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	
3	229Y5A0318	DUDEKULA USMAN	D	D	D	D	D	D	D	D	D	D	D	D	A	D	D	D
4	229Y5A0319	EBBILI PRAMOD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	229Y5A0320	GATTA VENKATA SIVA	S	A	S	S	S	S	S	S	S	S	S	S	S	S	S	S
6	229Y5A0321	GOLLA SOMESH	G	G	G	G	G	G	G	G	G	A	G	G	G	G	G	
7	229Y5A0322	IMMAREDDY VENKATA SUBBA REDDY	SR	SR	SR	A	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
8	229Y5A0323	KANAKADANDI VENKATA SAI KUMAR	VS	VS	VS	VS	VS	VS	VS	A	VS	VS	VS	VS	VS	VS	VS	
9	229Y5A0324	KARIPIREDDY PRADEEP KUMAR REDDY	K	K	A	K	K	K	K	K	K	K	K	K	K	K	K	K

10	229Y5A0325	KARNATI NARESH REDDY	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11	229Y5A0326	KUNCHAPU RAMESH																
12	229Y5A0327	KUTHALA ADARSHA																
13	229Y5A0328	M RAMESH																
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17	229Y5A0332	MOOD ABHILASH NAIK																
18	229Y5A0333	NAGIRIDONE MURALI KRISHNA																
19	229Y5A0334	P ARAVIND																
20	229Y5A0335	PAIDIPALEM SHAMEER BASHA						A										
21	229Y5A0336	PALLI MALLIKARJUNA																
22	229Y5A0337	PASALA UDAY KUMAR																
23	229Y5A0338	PASAM LOKCHAND YADAV																
24	229Y5A0339	PEETLA HAREESH																
25	229Y5A0340	PERUGU NARESH BABU YADAV													A			
26	229Y5A0341	PITTALA SARATH SAI																
27	229Y5A0342	POLIMERA PAVAN KUMAR																
28	229Y5A0343	RABBU MURALIKRISHNA		A														
29	229Y5A0344	RAGI MADHU																
30	229Y5A0345	SAYAVARAPU RAJENDRA																

31	229Y5A0346	SHAIK HAMER KAMID				A									A				
32	229Y5A0347	SHAIK MOHAMMED SADIQ															A		
33	229Y5A0348	SHAIK NAGOOR BASHA												A					
34	229Y5A0349	SREERAM SIVA																	
35	229Y5A0350	SUGALI SHIVAJI NAIK						A											
36	229Y5A0351	SYED MOHAMMED ABDULLA ADIL	A																
37	229Y5A0352	TALARI CHARAN RAJ																	
38	229Y5A0353	THUMMALURU MAHESH																	
39	229Y5A0354	UPPARA VINAY KUMAR								A									
40	229Y5A0355	VADDE UPENDRA																	
41	229Y5A0356	VADDE UPENDRA																	

Coordinator(s)

HoD
Professor & Head
Department of Mechnical Engineering
K.S.R.M. College of Engineering
KADAPA - 516 003.

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A VALUE ADDED COURSE ON
"PRODUCT DESIGN & DRAFTING BY CATIA"
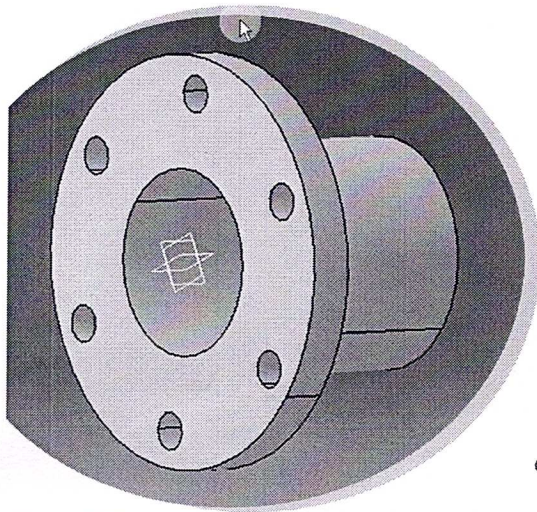
Dept.of Mechanical

ME 206

06-02-2023 to18-02-2023

Resource Person **Sri U Pradeep Kumar**
Assistant Professor, Dept. of ME, KSRMCE

coordinator **Dr.S.Shakeel Ahmed**

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Activity Report of
Value Added Course on "Product Design & Drafting by Catia"
From 06/02/2023 to 23/02/2023

Target Group	:	B.Tech Students
Details of Participants	:	42 Students
Co-coordinator(s)	:	Dr.S.Shakeel Ahamed
Resource Person(s)	:	Sri U.Pradeep Kumar
Organizing Department	:	Mechanical Engineering
Venue	:	ME 206, Mechanical Department

Description:

Department of Mechanical Engineering along with MEA has organized a Value added course on "Product Design & Drafting by CATIA" from 06th February 2023 to 23th February 2023. The course Resource Person is Sri U Pradeep Kumar, Assistant Professor, and Department of ME.

The main objective of this course is CATIA that stands for Computer Aided Three-Dimensional Interactive Application. It's much more than a CAD (Computer Aided Design) software package. It's a full software suite which incorporates CAD, CAE (Computer-Aided Engineering) and CAM (Computer-Aided

The first release of CATIA was back in 1977 by Dassault Systems, who still maintain and develop the software.

This course started with Explaining importance of CAD software's in present mechanical industries role of CAD/CAE/CAM. CATIA workshop has two sessions. Theory session and Practice Session. In Theory session they have undergone various Sketch tool bars and commands in 2D & 3D.and in practice session they have been practiced those tools with practicing diagrams given for them. They are also under gone assembly module and practiced various parts given to them in practicing session
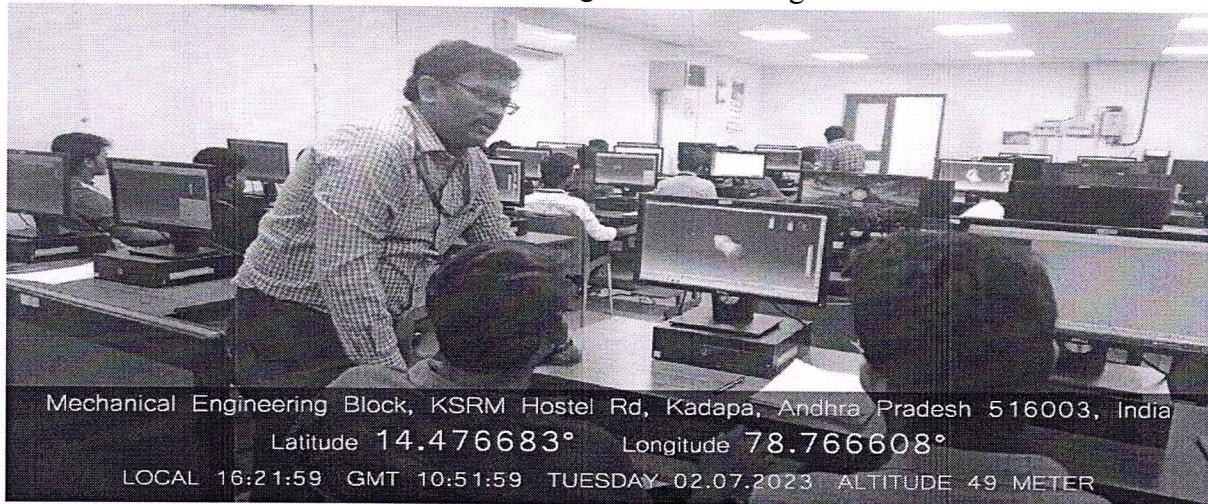
On final Day last session workshop Ended with oath of thanks and certificate distribution by coordinator & HOD to the Participants. Feedback from participants are collected
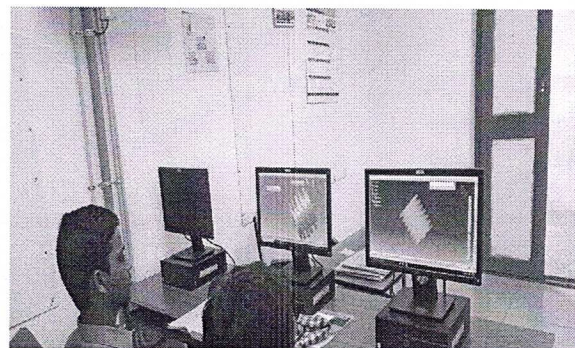
Photos

The pictures taken during the course are given below:

Mechanical Engineering Block, KSRM Hostel Rd, Kadapa, Andhra Pradesh 516003, India
Latitude 14.476683°   Longitude 78.766608°
LOCAL 16:21:59 GMT 10:51:59 TUESDAY 02.07.2023 ALTITUDE 49 METER

Resource Person Sri U.Pradeep Kumar Asst.Professor in MED Giving Training and clearing doubts

Mechanical Engineering Block, KSRM Hostel Rd, Kadapa, Andhra Pradesh 516003, India
Latitude 14.476646°   Longitude 78.766427°
LOCAL 11:59:05 GMT 06:29:05 SATURDAY 02.11.2023 ALTITUDE 49 METER

Students Listening to lecture during course

Students Practice session

Mechanical Engineering Block, KSRM Hostel Rd, Kadapa, Andhra Pradesh 516003, India
Latitude 14.476763°   Longitude 78.766647°
LOCAL 04:02:52 GMT 06:32:52 SATURDAY 02.23.2023 ALTITUDE 49 METER
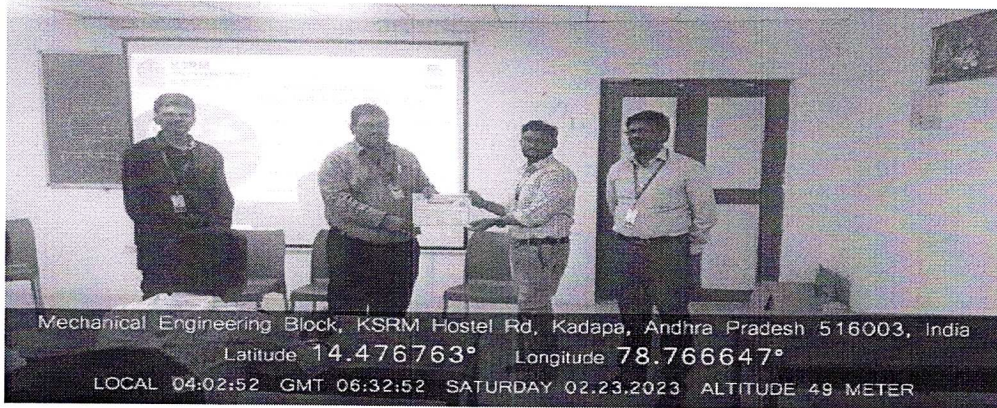
Certificates Distribution by the HoD Dr.D.Ravikanth

Coordinator(s)

HoD

K.S.R.M. COLLEGE OF ENGINEERING

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Certificate of Completion

This to certify that Mr/Mrs._____P.ARAVIND_____Bearing

the Roll Number____229Y5A0334____has Successfully Completed Value Added

Course on "Product Design & Drafting By CATIA" from 06/02/23 to 23/02/23,

Organized by Department of Mechanical Engineering, KSRMCE, Kadapa.

Coordinator   HOD ME   Principal

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Certificate of Completion

This to certify that Mr/Mrs. _____U.VINAY KUMAR_____ Bearing

the Roll Number _____229Y5A0354_____ has Successfully Completed Value Added

Course on "Product Design & Drafting By CATIA" from 06/02/23 to 23/02/23,

Organized by Department of Mechanical Engineering, KSRMCE, Kadapa.

Coordinator

HOD ME

V.S.S. Murty
Principal

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Certificate of Completion

This to certify that Mr/Mrs._____G VENKATA SIVA_____Bearing

the Roll Number____229Y5A0320____has Successfully Completed Value Added

Course on "Product Design & Drafting By CATIA" from 06/02/23 to 23/02/23,

Organized by Department of Mechanical Engineering, KSRMCE, Kadapa.

Coordinator   HOD ME   Principal

Feed Back Form for Value Added Course On Product design & Drafting By CATIA 06/02/2023 to 23/02/2023

From Dept of Mechanical Engineering K.S.R.M.C.E

* Indicates required question

1. Email *

2. 1.Email *

3. 2.Name of the Participant *

4. 3.Name of the college/Institution *

5. 4.Semester and Section *

6.   5.Is the seminar met your Expectations? *

Mark only one oval.

- ◯ Strongly disagree
- ◯ Disagree
- ◯ Agree
- ◯ Strongly Agree

7.   6.How Would you rate the content of Guest Lecture?

Mark only one oval.

- ◯ Poor
- ◯ Ok
- ◯ Good
- ◯ Excellent

8.   7.is Speaker Lecture clear and understanding *

Mark only one oval.

- ◯ Yes
- ◯ No

9.   8.Suggestions if any *

_____

_____

_____

_____

Feed Back Form for Value Added course On Product design & Drafting By CATIA (Responses) 06-02-2023 to 23-02-2023

S.No	Timestamp	Email Address	2.Name of the Participan	the college	emester and Sec	ar met your E	e the conte	cleal	8.Suggestions if any
1	2-24-2023 14:19:56	229y5a0316@ksrmce.ac.in	Danyasi Charan Kumar	Ksrm college	3rd and B section	Agree	Good	Yes	I want extra class from catia
2	2-24-2023 14:22:12	229y5a0317@ksrmce.ac.in	Dudekula Ameerbasha	ollege of En	3rd sem	Agree	Agree	Yes	We need more work shops like this...
3	2-24-2023 14:23:15	229y5a0318@ksrmce.ac.in	D Usman	KSRMCE	3rd sem	Agree	Agree	Yes	Good
4	2-24-2023 9:29:58	229y5a0319@ksrmce.ac.in	E Pramod	Ksrm college of engineerin g	3rd sem/B-section	Strongly Agree	Excellent	Yes	Good
5	2-24-2023 19:57:49	229y5a0320@ksrmce.ac.in	G VENKATA SIVA	KSRMCE	d Sem and B secti	Agree	Good	Yes	Course duration is less to grab more content. It is better to expand course duration.
6	2-24-2023 14:17:16	229y5a0321@ksrmce.ac.in	G.somesh	llege of eng	rd semester - b/ se	Agree	Good	Yes	It will be conducted me more
7	2-24-2023 14:20:58	229y5a0322@ksrmce.ac.in	I.Venkata Subbareddy	ollege of eng	d semester B/secti	Agree	Good	Yes	It is a very helpful
8	2-24-2023 14:14:54	229y5a0323@ksrmce.ac.in	K.venkata sai kumar	lege of engi	3rd sem - B/S	Agree	Excellent	Yes	None....And the classes are highly useful and.....I gained some skill....Through this workshop....
9	2-24-2023 14:18:11	229y5a0324@ksrmce.ac.in	K.pradeep kumar reddy	e of engine	3rd sem-Bsec	Strongly Agree	Excellent	Yes	We need more like this activity
10	2-24-2023 14:18:42	229y5a0325@ksrmce.ac.in	natinareshreddy0@gmail.	llege of eng	semester - b-sect	Agree	Excellent	Yes	Good
11	2-24-2023 14:29:20	229y5a0326@ksrmce.ac.in	K. RAMESH	EGE OF EN	semester B-secti	Agree	Good	Yes	Improve to speak loudly
12	2-24-2023 14:22:03	229y5a0327@ksrmce.ac.in	K. ADARSHA	llege of eng	semester B-secti	Agree	Good	Yes	Nothing
13	2-24-2023 14:19:06	229y5a0328@ksrmce.ac.in	M Ramesh	R M KADA	3. B/s	Agree	Excellent	Yes	We more faculty this type of programs
14	2-24-2023 14:16:14	229y5a0329@ksrmce.ac.in	M. Yugandhar	dy memoria	3rd sem/b section	Strongly Agree	Excellent	Yes	No suggestions
15	2-24-2023 14:16:09	229y5a0330@ksrmce.ac.in	M.Rutwik mani kanth	.r.m ce,kada	3-sem/b section	Strongly Agree	Excellent	Yes	We need more workshops like this.....
16	2-24-2023 14:16:42	229y5a0331@ksrmce.ac.in	M.Mansoor Basha	ngeneering	3rd sem B section	Strongly Agree	Excellent	Yes	Better understanding
17	2-24-2023 14:20:09	229y5a0332@ksrmce.ac.in	M.ABHI LASH NAIK	LLEGE OF E	semester /B secti	Strongly Agree	Excellent	Yes	Excellent
18	2-24-2023 14:23:25	229y5a0333@ksrmce.ac.in	IRIDONE MURALI KRISH	e of Engine	sem /mech -B sec	Agree	Good	Yes	It is very good
19	2-24-2023 14:16:41	229y5a0334@ksrmce.ac.in	P. ARAVIND	OF ENGINE	3 rd semister B/S	Strongly Agree	Excellent	Yes	WE NEED MORE THIS TYPE OF ACTIVITIES
20	2-24-2023 14:14:45	229y5a0335@ksrmce.ac.in	Paidipalem shameer bash	Ksrmce	3 sem and b/s	Strongly Agree	Excellent	Yes	No
21	2-24-2023 14:21:18	229y5a0336@ksrmce.ac.in	Palli Mallikarjuna	Ksrm collag	3 rd sem B-section	Agree	Excellent	Yes	Good
22	2-24-2023 14:16:52	229y5a0337@ksrmce.ac.in	P.Uday Kumar	ollege of En	3-sem and B/s	Agree	Excellent	Yes	Good Knowledge
23	2-24-2023 9:30:56	229y5a0338@ksrmce.ac.in	P. Lok Chand Yadav	ollege Engir	Rd sem/ B section	Agree	Excellent	Yes	We need more time to learn more
24	2-24-2023 14:15:28	229y5a0339@ksrmce.ac.in	Peetla Hareesh	EGE OF EN	semister/B- secti	Agree	Excellent	Yes	No
25	2-24-2023 14:16:40	229y5a0340@ksrmce.ac.in	Naresh	lege of eng	3sem B section	strongly disagre	Excellent	Yes	No
26	2-24-2023 9:33:17	229y5a0341@ksrmce.ac.in	P.Sharath sai	lege of eng	3 sem b section	Agree	Excellent	Yes	We need more time to learn more
27	2-24-2023 9:33:32	229y5a0342@ksrmce.ac.in	P.pavan kumar	llege of eng	3rd sem 2nd year	Strongly Agree	Excellent	Yes	To give some more diffcult diagrams

28	2-24-2023 14:20:48	229y5a0343@ksrmce.ac.in	R.MURALI KRISHNA	RM COLLE(	3rdsem (B/S)	Agree	Good	Yes	Nothing
29	2-24-2023 14:20:14	229y5a0344@ksrmce.ac.in	R.madhu	Ksrm college	3rd sem ,B section	Strongly Agree	Good	Yes	Nothing
30	2-24-2023 14:16:37	229y5a0345@ksrmce.ac.in	S, rajendra	college of er	semester/Bsection	Strongly Agree	Excellent	Yes	Excellent
31	2-24-2023 14:15:47	229y5a0346@ksrmce.ac.in	S.hamer kamid	llege of eng	d semester B/secti	Agree	Excellent	Yes	No
32	2-24-2023 14:16:49	229y5a0347@ksrmce.ac.in	Shaik Mohammed Sadiq	llege of eng	rd sem - B - sectio	Strongly Agree	Excellent	Yes	No suggestions.
33	2-24-2023 9:31:43	229y5a0348@ksrmce.ac.in	Shaik.Nagoor Basha	KSRM CE	semester & B-sec	Agree	Good	Yes	Nothing
34	2-24-2023 9:30:08	229y5a0349@ksrmce.ac.in	SREERAM SIVA	EGE OF EN	MISTER (B) SEC	Strongly Agree	Excellent	Yes	Better Explanation
35	2-24-2023 14:17:33	229y5a0350@ksrmce.ac.in	SUGALI SHIVAJI NAIK	EGE OF E	semister B/Secti	Strongly Agree	Excellent	Yes	Better understanding
36	2-24-2023 14:17:18	229y5a0351@ksrmce.ac.in	red mohammed abdulla a	llege of eng	3rd-sem-B section	Strongly Agree	Excellent	Yes	no suggestions
37	2-24-2023 14:56:33	229y5a0352@ksrmce.ac.in	T charan raj	llege of eng	3sem B section	Agree	Excellent	Yes	No suggestion
38	2-24-2023 14:18:34	229y5a0353@ksrmce.ac.in	T. Mahesh	college of e	3rd sem B-section	Agree	Good	Yes	No
39	2-24-2023 18:22:27	229y5a0354@ksrmce.ac.in	U VINAYKUMAR	LEGE OF E	3rd	Agree	Excellent	Yes	Provide more time to learn
40	2-24-2023 14:17:03	229y5a0355@ksrmce.ac.in	VADDE UPENDRA	Ksrmce	3rd sem,B/section	Strongly Agree	Excellent	Yes	We need more time to good understanding
41	2-24-2023 14:18:47	229y5a0356@ksrmce.ac.in	V UPENDRA	GINEERING	RD SEMESTER B	Agree	Good	Yes	Ntg
42	2-24-2023 14:18:08	229y5a0357@ksrmce.ac.in	Y. Hari babu	llege of eng	3rd sem, B/S	Agree	Excellent	Yes	Voice clarity

COORDINATOR

HOD

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE ON
PRODUCT DESIGN&DRAFTING BY CATIA FROM 06/02/2023 TO 23/02/2023
AWARD LIST

S.No	Roll Number	Name of the Student	Marks Obtained
1	229Y5A0316	DHANYASI CHARAN KUMAR	17
2	229Y5A0317	DUDEKULA AMEER BASHA	15
3	229Y5A0318	DUDEKULA USMAN	16
4	229Y5A0319	EBBILI PRAMOD	18
5	229Y5A0320	GATTA VENKATA SIVA	18
6	229Y5A0321	GOLLA SOMESH	14
7	229Y5A0322	IMMAREDDY VENKATA SUBBA REDDY	17
8	229Y5A0323	KANAKADANDI VENKATA SAI KUMAR	15
9	229Y5A0324	KARIPIREDDY PRADEEP KUMAR REDDY	13
10	229Y5A0325	KARNATI NARESH REDDY	12
11	229Y5A0326	KUNCHAPU RAMESH	19
12	229Y5A0327	KUTHALA ADARSHA	17
13	229Y5A0328	M RAMESH	16
14	229Y5A0329	MADANAPURI YUGANDHAR	17
15	229Y5A0330	MARAM RUTWIK MANI KANTH	17
16	229Y5A0331	MILLULLAGARI MANSOOR BASHA	17
17	229Y5A0332	MOOD ABHILASH NAIK	14
18	229Y5A0333	NAGIRIDONE MURALI KRISHNA	16
19	229Y5A0334	P ARAVIND	19
20	229Y5A0335	PAIDIPALEM SHAMEER BASHA	17
21	229Y5A0336	PALLI MALLIKARJUNA	18
22	229Y5A0337	PASALA UDAY KUMAR	19
23	229Y5A0338	PASAM LOKCHAND YADAV	18
24	229Y5A0339	PEETLA HAREESH	16
25	229Y5A0340	PERUGU NARESH BABU YADAV	14
26	229Y5A0341	PITTALA SARATH SAI	16
27	229Y5A0342	POLIMERA PAVAN KUMAR	17
28	229Y5A0343	RABBU MURALIKRISHNA	18
29	229Y5A0344	RAGI MADHU	17
30	229Y5A0345	SAYAVARAPU RAJENDRA	18
31	229Y5A0346	SHAIK HAMER KAMID	14
32	229Y5A0347	SHAIK MOHAMMED SADIQ	13
33	229Y5A0348	SHAIK NAGOOR BASHA	12
34	229Y5A0349	SREERAM SIVA	17
35	229Y5A0350	SUGALI SHIVAJI NAIK	18
36	229Y5A0351	SYED MOHAMMED ABDULLA ADIL	16
37	229Y5A0352	TALARI CHARAN RAJ	17
38	229Y5A0353	THUMMALURU MAHESH	17
39	229Y5A0354	UPPARA VINAY KUMAR	18

40	229Y5A0355	VADDE UPENDRA	18
41	229Y5A0356	VADDE UPENDRA	17
42	229Y5A0357	YAMIKA HARI BABU	14

Coordinator

HoD

(16) ✓

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED /CERTIFICATE COURSE ON
Product Design & Drafting By CATIA FROM 06/02/2023 To 23/02/2023
ASSESSMENT TEST

Roll Number: 229Y5A0328   **Name of the Student:** R. MAHESH.

Time: 20 Min   **(Objective Questions)**   **Max.Marks: 20**

Note: Answer the following Questions and each question carries **one** mark.
Of course, here are twenty more objective questions related to CATIA:

1. Which CATIA workbench is primarily used for creating and editing 3D parametric models?   [A] ✓
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Generative Shape Design

2. What is the function of the "Extrude" tool in the Part Design workbench?   [C] ✓
   a) To create a mirror image of a part
   b) To add fillets to a part
   c) To create a 3D shape by extending a 2D sketch
   d) To assemble multiple parts into a product

3. Which workbench allows you to define how parts move and interact within an assembly?   [C] ✗
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

4. In CATIA, what is the purpose of the "Pattern" feature?   [A] ✓
   a) To create a repeating array of features
   b) To simulate the motion of parts in an assembly
   c) To add textures and colors to a part
   d) To analyze stress distribution in a design

5. What does the term "Assembly Constraints" refer to in CATIA?   [B] ✓
   a) A measure of a part's complexity
   b) The rules that define how parts are positioned and interact in an assembly
   c) The number of features in a 3D model
   d) The color scheme used in an assembly

6. Which workbench would you use to create and edit complex curves and surfaces in CATIA?   [C] ✓
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

7. What is the purpose of the "Drafting" workbench in CATIA?   [c]
   a) To create 3D parametric models
   b) To perform structural analysis on a part
   c) To create detailed engineering drawings for manufacturing
   d) To add visual effects to a part

8. Which tool is used to round off sharp edges or corners on a 3D part in CATIA?   [   ]
   a) Extrude
   b) Chamfer
   c) Revolve
   d) Loft

9. What is the main purpose of the "DMU Kinematics" workbench in CATIA?   [C]
   a) To analyze the thermal properties of a material
   b) To perform fluid dynamics simulations
   c) To simulate the motion of parts and mechanisms
   d) To create parametric models

10. Which workbench is suitable for creating 2D profiles that can be later used for creating
3D features?   [d]
    a) Part Design
    b) Assembly Design
    c) Drafting
    d) Wireframe and Surface Design

11. In the context of the Assembly Design workbench, what does "Degrees of Freedom" refer
to?   [b]
    a) The complexity of the parts in an assembly
    b) The ability of parts to move independently within an assembly
    c) The number of components in an assembly
    d) The total mass of the assembly

12. What is the purpose of the "Revolve" feature in CATIA?   [b]
    a) To create a symmetrical 3D shape by rotating a profile around an axis
    b) To add draft angles to a part
    c) To create a pattern of features
    d) To simulate the flow of electricity through a design

13. Which workbench in CATIA would you use to analyze the structural integrity of a part or
assembly?   [d]
    a) Part Design
    b) Assembly Design
    c) Drafting
    d) Analysis & Simulation

14. What does the "Mirror" tool do in CATIA's Part Design workbench?   [a]
    a) It reflects the part's geometry across a specified plane
    b) It creates a duplicate of the part
    c) It adds a pattern of features
    d) It rounds off sharp edges

15. In CATIA, what is the purpose of the "Generative Shape Design" workbench? [b] ✓
    a) To create parametric 3D models
    b) To create and edit complex curves and surfaces
    c) To simulate the motion of parts in an assembly
    d) To perform stress analysis

16. Which feature is used to remove material from a 3D part in CATIA? [b] ✓
    a) Fillet
    b) Pad
    c) Draft
    d) Rib

17. What is the purpose of the "Constraint with Formula" tool in the Sketcher workbench?
    [a] ✓

    a) To apply geometric constraints between sketch elements
    b) To calculate the surface area of a sketch
    c) To define the color of sketch elements
    d) To create complex curves

18. What is the main purpose of the "Draft Analysis" tool in CATIA's Part Design
workbench? [   ] ✗
    a) To analyze the thermal properties of a part
    b) To check for undercuts and proper mold release in a design
    c) To create drafts on a part's edges
    d) To perform stress analysis on a part

19. Which workbench in CATIA allows you to create parametric models by combining
multiple solid and surface features? [a] ✓
    a) Part Design
    b) Assembly Design
    c) Generative Shape Design
    d) Wireframe and Surface Design

20. What is the primary purpose of the "Human Builder" tool in CATIA? [a] ✓
    a) To create parametric models of humans for ergonomic studies
    b) To design clothing and accessories
    c) To simulate human-like movements in an assembly
    d) To analyze the human body's thermal properties

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED /CERTIFICATE COURSE ON
Product Design & Drafting By CATIA FROM 06/02/2023 To 23/02/2023
ASSESSMENT TEST

Roll Number: SHAIK HAMEED KAMID.   Name of the Student: 229Y5A0346

Time: 20 Min   **(Objective Questions)**   **Max.Marks: 20**

Note: Answer the following Questions and each question carries **one** mark.
Of course, here are twenty more objective questions related to CATIA:

1. Which CATIA workbench is primarily used for creating and editing 3D parametric models?   [A] ✔
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Generative Shape Design

2. What is the function of the "Extrude" tool in the Part Design workbench?   [A] ✗
   a) To create a mirror image of a part
   b) To add fillets to a part
   c) To create a 3D shape by extending a 2D sketch
   d) To assemble multiple parts into a product

3. Which workbench allows you to define how parts move and interact within an assembly?   [B] ✔

   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

4. In CATIA, what is the purpose of the "Pattern" feature?   [A] ✔
   a) To create a repeating array of features
   b) To simulate the motion of parts in an assembly
   c) To add textures and colors to a part
   d) To analyze stress distribution in a design

5. What does the term "Assembly Constraints" refer to in CATIA?   [C] ✗
   a) A measure of a part's complexity
   b) The rules that define how parts are positioned and interact in an assembly
   c) The number of features in a 3D model
   d) The color scheme used in an assembly

6. Which workbench would you use to create and edit complex curves and surfaces in CATIA?   [C] ✔
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

7. What is the purpose of the "Drafting" workbench in CATIA?   [b]
   a) To create 3D parametric models
   b) To perform structural analysis on a part
   c) To create detailed engineering drawings for manufacturing
   d) To add visual effects to a part

8. Which tool is used to round off sharp edges or corners on a 3D part in CATIA?   [b]
   a) Extrude
   b) Chamfer
   c) Revolve
   d) Loft

9. What is the main purpose of the "DMU Kinematics" workbench in CATIA?   [C]
   a) To analyze the thermal properties of a material
   b) To perform fluid dynamics simulations
   c) To simulate the motion of parts and mechanisms
   d) To create parametric models

10. Which workbench is suitable for creating 2D profiles that can be later used for creating 3D features?   [d]
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Wireframe and Surface Design

11. In the context of the Assembly Design workbench, what does "Degrees of Freedom" refer to?   [a]
   a) The complexity of the parts in an assembly
   b) The ability of parts to move independently within an assembly
   c) The number of components in an assembly
   d) The total mass of the assembly

12. What is the purpose of the "Revolve" feature in CATIA?   [a]
   a) To create a symmetrical 3D shape by rotating a profile around an axis
   b) To add draft angles to a part
   c) To create a pattern of features
   d) To simulate the flow of electricity through a design

13. Which workbench in CATIA would you use to analyze the structural integrity of a part or assembly?   [d]
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Analysis & Simulation

14. What does the "Mirror" tool do in CATIA's Part Design workbench?   [a]
   a) It reflects the part's geometry across a specified plane
   b) It creates a duplicate of the part
   c) It adds a pattern of features
   d) It rounds off sharp edges

15. In CATIA, what is the purpose of the "Generative Shape Design" workbench?　　[b]
   a) To create parametric 3D models
   b) To create and edit complex curves and surfaces
   c) To simulate the motion of parts in an assembly
   d) To perform stress analysis

16. Which feature is used to remove material from a 3D part in CATIA?　　[b]
   a) Fillet
   b) Pad
   c) Draft
   d) Rib

17. What is the purpose of the "Constraint with Formula" tool in the Sketcher workbench?　　[b]

   a) To apply geometric constraints between sketch elements
   b) To calculate the surface area of a sketch
   c) To define the color of sketch elements
   d) To create complex curves

18. What is the main purpose of the "Draft Analysis" tool in CATIA's Part Design workbench?　　[b]
   a) To analyze the thermal properties of a part
   b) To check for undercuts and proper mold release in a design
   c) To create drafts on a part's edges
   d) To perform stress analysis on a part

19. Which workbench in CATIA allows you to create parametric models by combining multiple solid and surface features?　　[a]
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

20. What is the primary purpose of the "Human Builder" tool in CATIA?　　[b]
   a) To create parametric models of humans for ergonomic studies
   b) To design clothing and accessories
   c) To simulate human-like movements in an assembly
   d) To analyze the human body's thermal properties

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED /CERTIFICATE COURSE ON
Product Design & Drafting By CATIA FROM 06/02/2023 To 23/02/2023
ASSESSMENT TEST

Roll Number: 229Y5A0350 Name of the Student: S.Shivaji Naik.

Time: 20 Min	(Objective Questions)	Max.Marks: 20

Note: Answer the following Questions and each question carries **one** mark.
Of course, here are twenty more objective questions related to CATIA:

1. Which CATIA workbench is primarily used for creating and editing 3D parametric models? [a] ✓
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Generative Shape Design

2. What is the function of the "Extrude" tool in the Part Design workbench? [c] ✓
   a) To create a mirror image of a part
   b) To add fillets to a part
   c) To create a 3D shape by extending a 2D sketch
   d) To assemble multiple parts into a product

3. Which workbench allows you to define how parts move and interact within an assembly? [d] ✗
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

4. In CATIA, what is the purpose of the "Pattern" feature? [a] ✓
   a) To create a repeating array of features
   b) To simulate the motion of parts in an assembly
   c) To add textures and colors to a part
   d) To analyze stress distribution in a design

5. What does the term "Assembly Constraints" refer to in CATIA? [b] ✓
   a) A measure of a part's complexity
   b) The rules that define how parts are positioned and interact in an assembly
   c) The number of features in a 3D model
   d) The color scheme used in an assembly

6. Which workbench would you use to create and edit complex curves and surfaces in CATIA? [c] ✓
   a) Part Design
   b) Assembly Design
   c) Generative Shape Design
   d) Wireframe and Surface Design

7. What is the purpose of the "Drafting" workbench in CATIA?   [c]
   a) To create 3D parametric models
   b) To perform structural analysis on a part
   c) To create detailed engineering drawings for manufacturing
   d) To add visual effects to a part

8. Which tool is used to round off sharp edges or corners on a 3D part in CATIA?   [b]
   a) Extrude
   b) Chamfer
   c) Revolve
   d) Loft

9. What is the main purpose of the "DMU Kinematics" workbench in CATIA?   [c]
   a) To analyze the thermal properties of a material
   b) To perform fluid dynamics simulations
   c) To simulate the motion of parts and mechanisms
   d) To create parametric models

10. Which workbench is suitable for creating 2D profiles that can be later used for creating
3D features?   [a]
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Wireframe and Surface Design

11. In the context of the Assembly Design workbench, what does "Degrees of Freedom" refer
to?   [b]
   a) The complexity of the parts in an assembly
   b) The ability of parts to move independently within an assembly
   c) The number of components in an assembly
   d) The total mass of the assembly

12. What is the purpose of the "Revolve" feature in CATIA?   [a]
   a) To create a symmetrical 3D shape by rotating a profile around an axis
   b) To add draft angles to a part
   c) To create a pattern of features
   d) To simulate the flow of electricity through a design

13. Which workbench in CATIA would you use to analyze the structural integrity of a part or
assembly?   [d]
   a) Part Design
   b) Assembly Design
   c) Drafting
   d) Analysis & Simulation

14. What does the "Mirror" tool do in CATIA's Part Design workbench?   [a]
   a) It reflects the part's geometry across a specified plane
   b) It creates a duplicate of the part
   c) It adds a pattern of features
   d) It rounds off sharp edges

15. In CATIA, what is the purpose of the "Generative Shape Design" workbench?   [b] ✓
    a) To create parametric 3D models
    b) To create and edit complex curves and surfaces
    c) To simulate the motion of parts in an assembly
    d) To perform stress analysis

16. Which feature is used to remove material from a 3D part in CATIA?   [b] ✓
    a) Fillet
    b) Pad
    c) Draft
    d) Rib

17. What is the purpose of the "Constraint with Formula" tool in the Sketcher workbench?   [a] ✓

    a) To apply geometric constraints between sketch elements
    b) To calculate the surface area of a sketch
    c) To define the color of sketch elements
    d) To create complex curves

18. What is the main purpose of the "Draft Analysis" tool in CATIA's Part Design workbench?   [b] ✓
    a) To analyze the thermal properties of a part
    b) To check for undercuts and proper mold release in a design
    c) To create drafts on a part's edges
    d) To perform stress analysis on a part

19. Which workbench in CATIA allows you to create parametric models by combining multiple solid and surface features?   [a] ✓
    a) Part Design
    b) Assembly Design
    c) Generative Shape Design
    d) Wireframe and Surface Design

20. What is the primary purpose of the "Human Builder" tool in CATIA?   [b] ✗
    a) To create parametric models of humans for ergonomic studies
    b) To design clothing and accessories
    c) To simulate human-like movements in an assembly
    d) To analyze the human body's thermal properties

CATIA v5

About CATIA

- CATIA is developed by DASSAULT system and IBM

- Its programming is written in c++ language

WORK BENCH

- There are various workbench in CATIA such as:

part design

Assembly design

Drafting

Sheet metal design

Wireframe drawing

DMU kinematics

sketcher
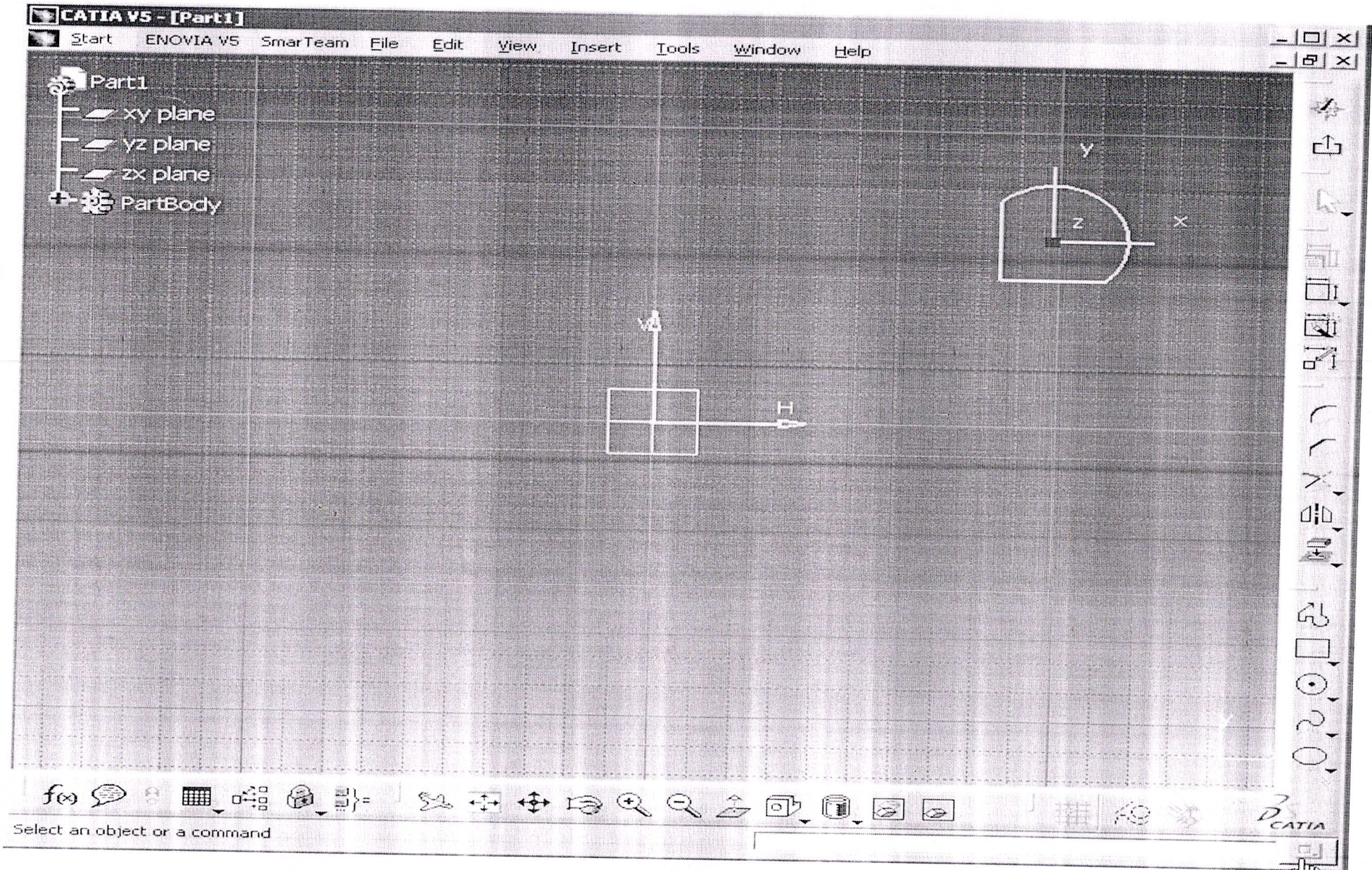
Specification tree
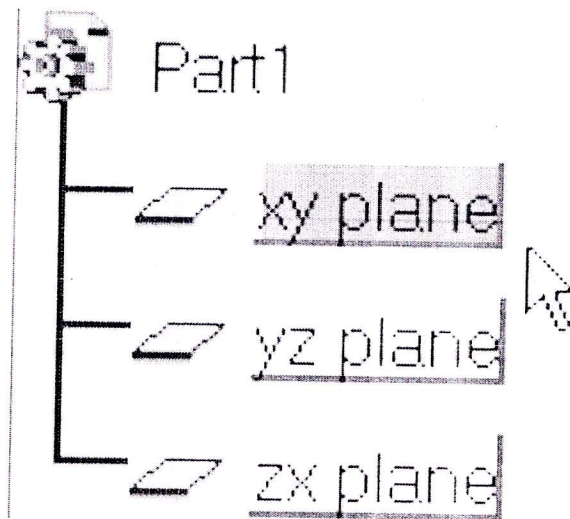
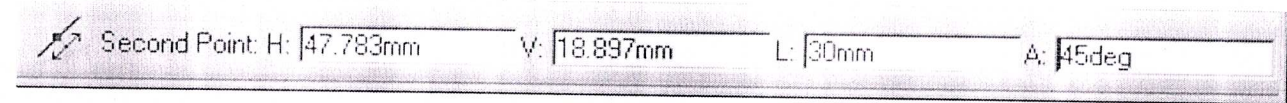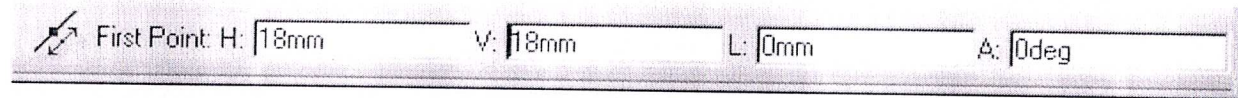# Select toolbar
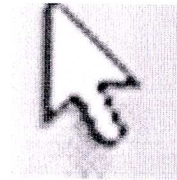
There are various type of select toolbar

Rectangle selection trap

Polygon selection trap

Outside rectangle selection trap

select

Intersecting rectangle selection trap

Free hand selection trap

Outside intersecting rectangle selection trap

Drawing line

Profile

line

First Point: H: 18mm   V: 18mm   L: 0mm   A: 0deg

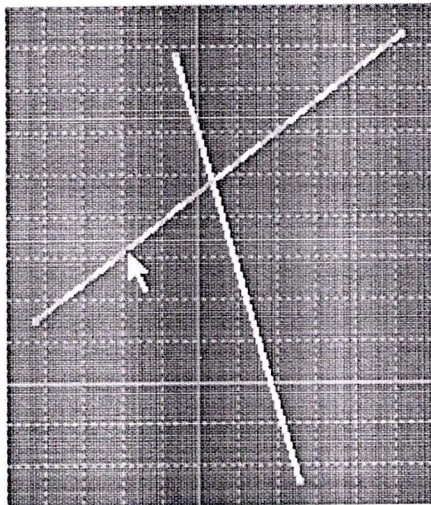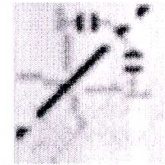Second Point: H: 47.783mm   V: 18.897mm   L: 30mm   A: 45deg
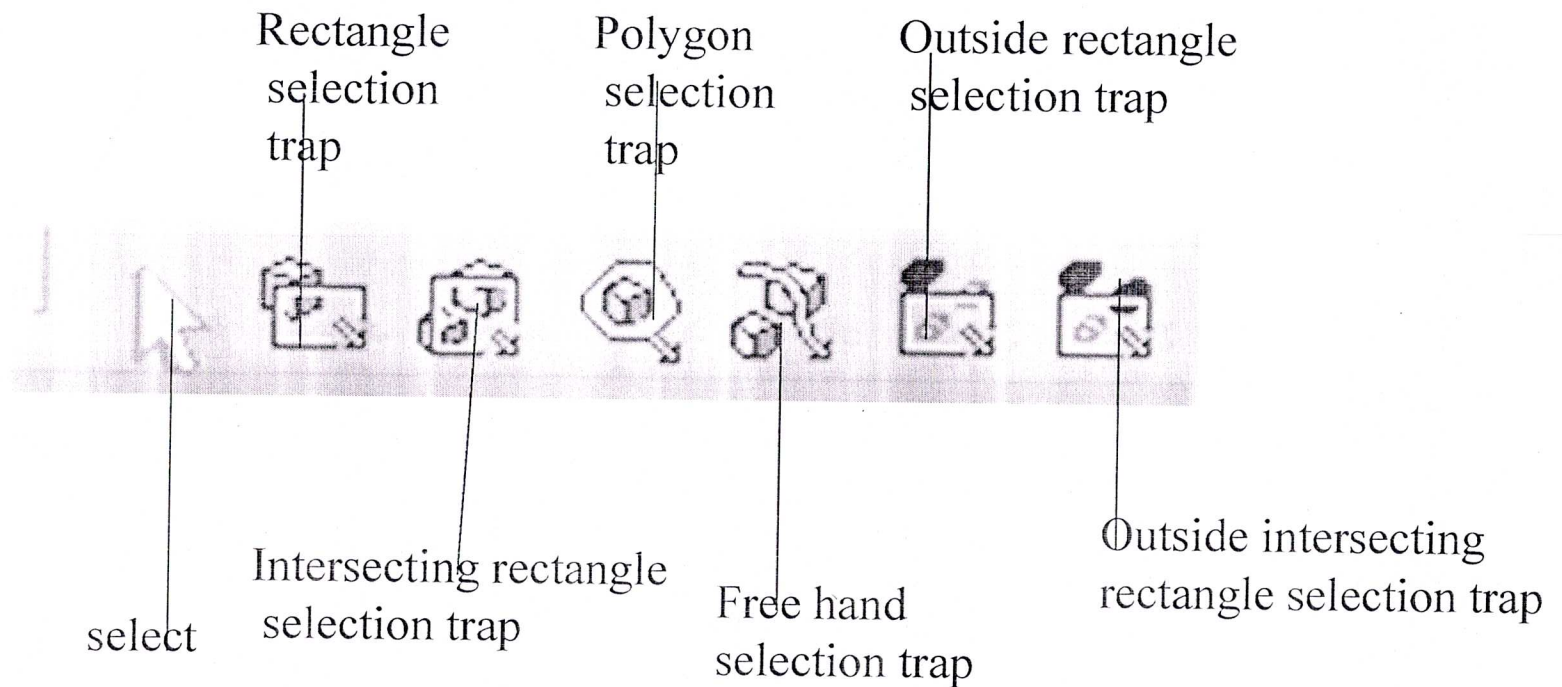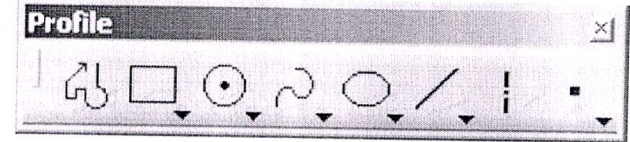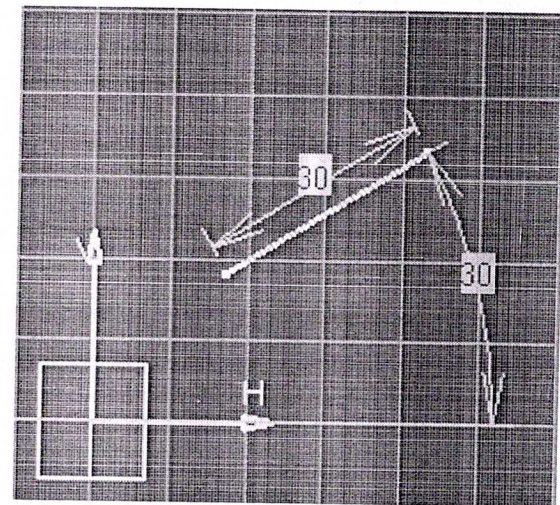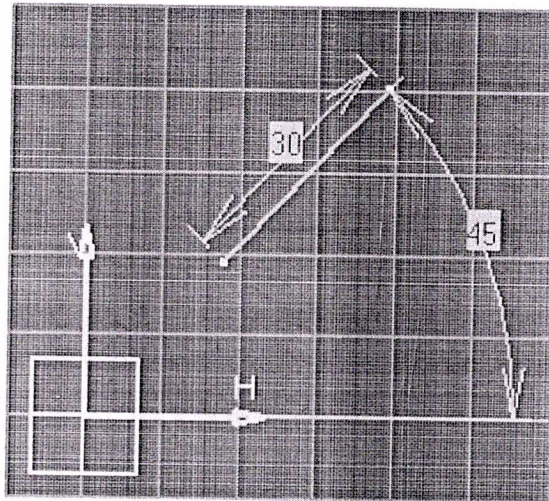
Infinite line
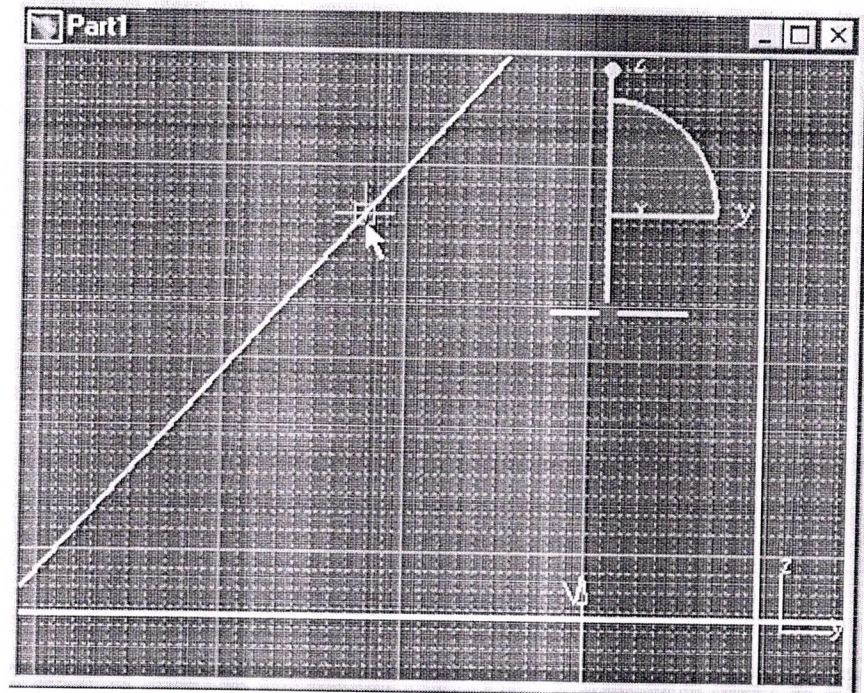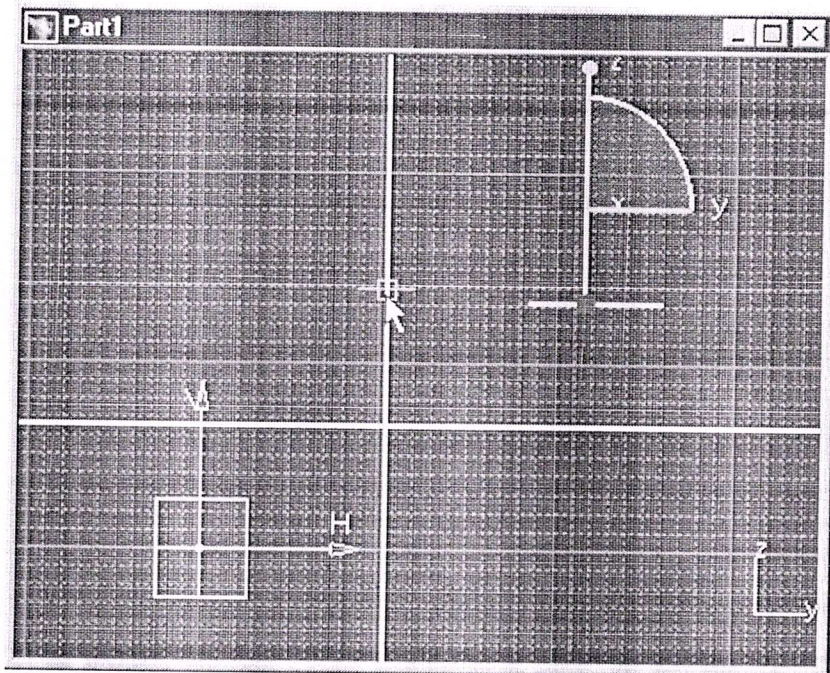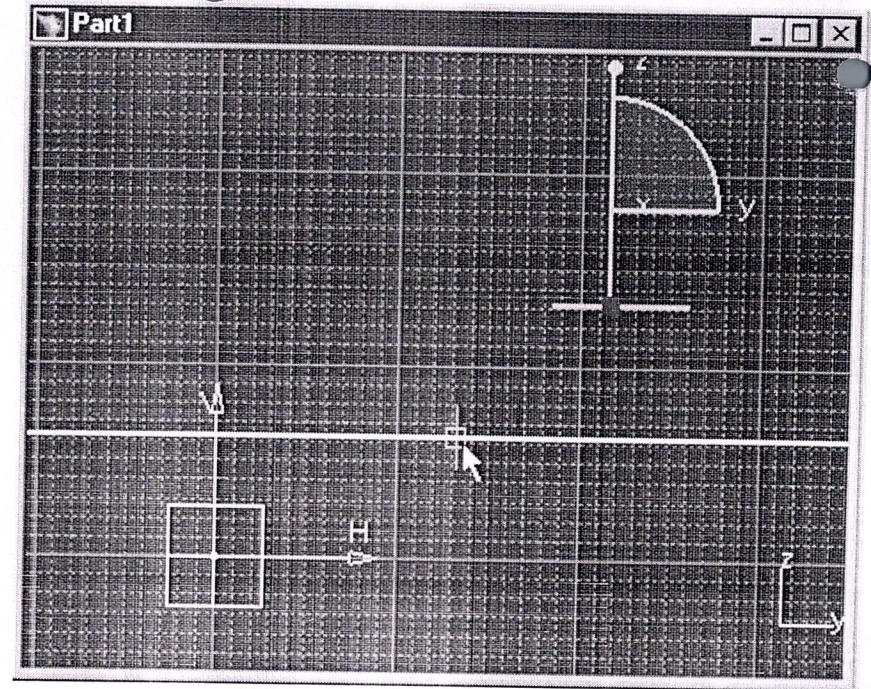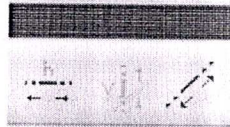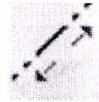
- # Drawing bisecting line

- Drawing bi-tangent line