



**RAJEEV INSTITUTE OF TECHNOLOGY**

Plot # 1 (D), Growth Centre, Bangalore-Mangalore Bypass Road, HASSAN- 573 201 KARNATAKA  
(Affiliated to VTU, Belagavi., Approved by AICTE, New Delhi., Recognized by Govt. of Karnataka)

## WORKSHOP ON CATIA SOFTWARE TRAINING

Department of Mechanical Engineering, Organized workshop on CATIA Software through Placement Department from Genesis company . it was conducted from 30/05/2022 to 04/06/2022, it was organized for 6<sup>th</sup> semester students.



# AD 2D

For B.E./B.Tech Students

Duration – 12hrs

- Introduction to AutoCAD
  - History
  - Exploring GUI
  - Workspaces
- Co-ordinate systems
  - Absolute Co-ordinate System
  - Relative Co-ordinate System
- Orthographic Views
  - Drawing settings – Units, Limits
  - Drawing commands
  - Editing commands
- Different type of views
  - Isometric View
  - Perspective Views.
    - One, Two and Three points Perspective views
- Annotations - Text, Style, Ddedit, Mtext, Scaletext, Spell, Table, Tabledit
- Object Properties - Color, Linetype, Lt scale, Lineweight, Properties, Matchprop
- Layer Management
- Dimension - Linear, Aligned, Radius, Diameter, Center Mark, Angle, Arc length, Continuous, Baseline, Tolerance, Dimension Space, Dimension Break, Inspection, Jogged radius, Ordinate dimensions.
- Leader, Qleader
- Mleader, Multi leader style, Add leader, Align Leaderlines, Collect Leader
- Dim edit, dimtedit, Dimension Associative, Reassociate
- Dimension Style
- Table

# CATIA V5 Training Contents

For B.E./B.Tech Students

Duration – 30hrs

DAY 1	<ul style="list-style-type: none"><li>➤ Introduction to Catia V5 Interface<ul style="list-style-type: none"><li>○ GUI options</li><li>○ Gateway</li><li>○ View Options</li></ul></li> <li>➤ Sketcher<ul style="list-style-type: none"><li>○ Geometry construction</li><li>○ Profile options</li><li>○ Dimensional constraints</li><li>○ Shape constraints</li><li>○ Sketcher tools</li><li>○ Sketcher operations</li><li>○ Trouble shooting</li><li>○ Reference elements</li></ul></li></ul>
DAY 2	<ul style="list-style-type: none"><li>➤ Part Modeling<ul style="list-style-type: none"><li>○ Sketch-based features</li><li>○ Dress-up features</li><li>○ Transformation features</li><li>○ Boolean operations</li><li>○ Reference elements</li><li>○ Optimizing 3D model</li></ul></li></ul>

DAY 3

- Assembly Modeling
  - Product structure
  - Top Down approach
  - Bottom up approach
  - Constraints
  - Move toolbar
  - Space analysis
  - Constraint creation
  - Filtered selection
  - Assembly features

DAY 4

- Surface Modeling
  - Wire Frames
  - Surfaces
  - Volumes
  - Operations
  - Replication tools
  - Surface subdivision
  - Shape editing tools
  - Styled shapes and surfaces
  - Dynamic surface creation
  - Unfold surface
  - Developments
  - Junctions, Joggles, Flanges
  - Surface quality analysis
  - Generative shape design

DAY 5

➤ Drafting

- Drafting views
- Handling Sheets
- Dimensioning
- Symbols
- Annotations
- Generations
- Dress-up



## REPORT ON

### DOMAIN-SPECIFIC WORKSHOP CONDUCTED FOR 6<sup>TH</sup> SEM STUDENTS OF MECHANICAL ENGINEERING DURING AY 2021-22

*Attendees: 6<sup>th</sup>-semester*

- 1. Title: Domain-specific CATIA Software Training for 6th Sem Mechanical Engineering Students**
- 2. Objective:** The objective of the CATIA software training was to equip 6th Sem Mechanical Engineering students with the knowledge and skills to effectively use the software for designing and analyzing complex mechanical systems and components.
- 3. About the Activity:** The CATIA software training was conducted by a team of experienced trainers from a reputed training institute. The training covered various topics, including basic and advanced features of CATIA software, designing of 3D models, assembly of components, and analysis of mechanical systems. The training was conducted over a period of 20 days, and students were given practical assignments to reinforce their learning.
- 4. Outcomes of CATIA Software Learning:** The CATIA software training had several positive outcomes for the 6th Sem Mechanical Engineering students. Some of the key outcomes are:
  - **Enhanced Designing Skills:** The students learned how to create complex 3D models using CATIA software. This helped them develop their design skills and improved their ability to visualize and conceptualize mechanical systems.
  - **Improved Analysis and Simulation Skills:** The students learned how to use CATIA software to perform various analyses and simulations, such as stress analysis, motion analysis, and thermal analysis. This helped them gain a better understanding of mechanical systems and their behavior under different conditions.
  - **Better Collaboration and Communication:** The students learned how to use CATIA software to collaborate and communicate with other stakeholders in the design and manufacturing process. This helped them work effectively as part of a team and improved their communication skills.



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- **Increased Employability:** Learning CATIA software is a valuable skill that is in high demand in the industry. The students who participated in the training program can leverage their knowledge and skills to enhance their employability and career prospects.
5. **How it Helps Students:** The CATIA software training provided several benefits to 6th Sem Mechanical Engineering students. It helped them develop their technical skills and knowledge, which are essential for a career in the mechanical engineering field. It also gave them hands-on experience with a widely used software tool, which can be a valuable asset in their future careers. Finally, the training program helped students build their confidence and provided them with a solid foundation for further learning and growth.



## CURRICULUM VITAE

**HARISHA.B**

E-Mail: [harishtaj@gmail.com](mailto:harishtaj@gmail.com)

Mobile: +91-9901336881

### CAREER OBJECTIVE:

Intended to build a career with leading corporate of hi-tech environment with committed and dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key CAD/CAM/CAE player & Soft skills trainer in challenging and creative environment.

### PROFESSIONAL SUMMARY: TOTAL 15+ YEAR OF EXPERIENCE.

I have Total **5+Year** of experience in **AERO SPACE STRUCTURES Using CATIA V5 Software and 10+ year** of experience in **Technical & Soft skills** Training & Managing the Institution.

- Currently I am a **Manager of CADD AGE-Hospet**.  
Trained **10000+ Technical students & 11000+ on softskills**, Did **400+ Corporate** Trainings & written “KANASU” Book for **Soft skills**.
- Worked as a **Design Engineer** in **INFOTECH.pvt.ltd Hyderabad,AP**.
- Worked as a **CAD Engineer** at **IDS INFOTECH, Mohali, Punjab**.
- Worked as a **Graduate Trainee** in **ISRO, Bangalore, Karnataka**.

### PRESENT WORK EXPERIENCE:

**COMPANY : CADD AGE TRAINING & SERVICES**

**DURATION : July 2011 to Till Date**

**ROLE: MANAGER/CAD Trainer.**

### **Overview:**

**CADD AGE TRAINING & SERVICES** is a leading design consultancy firm. It has been offering Value added engineering solutions to various global clients in different product lines ranging from consumer durables to heavy machinery. CADD AGE is one of the Asia's #1 Company, we are providing the Training and services to all our CAD/CAM/CAE Customers.



PREVIOUS WORK EXPERIENCE:

❖ **COMPANY:** INFOTECH Pvt Ltd, Hyderabad.

**DURATION:** Aug 2010 to July 2011

**PROJECT:** BOEING 747-8

**CLIENT:** Air Bus, Dassault Systemes, and Air Boeing

**ROLE:** Design Engineer

❖ **COMPANY:** IDS INFOTECH, Mohali.

**DURATION:** Oct 2007 to July 2010

**PROJECT:** A129, A139, A139, A143 Projects and Mechanical standards parts

**CLIENT:** Agusta Westland, Dassault Systemes, and Air Boeing

**ROLE:** Cad Engineer

❖ **COMPANY:** ISRO, Bangalore.

**DURATION:** Dec 2006 to Oct 2007

**PROJECT:** Level sensor, Differential pressure transducer (DPT).....etc.

**CLIENT:** ISRO

**ROLE:** Graduate Trainee.

KEY STRENGTHS:

- Patience, Planning and Perseverance is my biggest strengths.
- Communication skill
- Presentation skill
- Fast learner

TECHNICAL SKILLS:

- Mechanical softwares : CATIA V5,PRO-E,AUTOCAD,NX CAD,HYPERMESH.
- Civil softwares : Revit Architecture,3DS Max, Staadpro.
- PPM : Microsoft project,Primavera.

**AWARDS & REWARDS:**

- VLE OF THE MONTH Award Received from Govt of India (Digital India Project) in Aug.2021.
- Received appreciation from Different Engineering Colleges for well conducting seminars for Placement Training.
- Written “**Kanasu**” Book in multi language on Soft skills for placements to reach poor people for better understanding.
- Trained more than 10000 on Technical & 11000 on softskills students conducted 400+ corporate trainings & placed 4000+ students.

**PROFESSIONAL QUALIFICATION:**

Bachelor of Engineering in MECHANICAL in July 2006 from P.D.I.T College of Engineering College, Hospet. Affiliated to Visveswaraiah Technological University, Belgaum.

**PERSONAL DETAILS:**

Father’s name : M.B.Somanna  
Date of birth : 30th May 1985  
Marital status : Single  
Language known : English, Hindi, Kannada.  
Permanent Address : HARISHA.B  
S/o M.B.Somanna  
“Kala Nilaya” 7th cross  
Basaveswara Badavane  
Hospet-583 201.

I hereby declare that the above information furnished by me is true to the best of my knowledge and belief.

Place: Hospet

your’s sincerely

Date:

(HARISHA.B)



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## Students Attended List

1	4RA17ME068	VARUN S.R.	23	4RA19ME013	MAHADEVASWAMY M J
2	4RA18ME007	Deekshith Y.R.	24	4RA19ME014	MANOJ G C
3	4RA18ME008	Gagan H.P.	25	4RA19ME015	PAVAN GOWDA H P
4	4RA18ME012	Hoyasala S.S.	26	4RA19ME016	PRADEEP A R
5	4RA18ME014	Keerthi Krishna A.R.	27	4RA19ME017	PAJWAL N S
6	4RA18ME015	Kiran Kumar H.L.	28	4RA19ME019	SHASHANK M
7	4RA18ME019	MANDEEP J.	29	4RA19ME020	ULLAS K N
8	4RA18ME021	Manjunatha L.	30	4RA19ME021	VIKAS K V
9	4RA18ME034	Ravikumar A.M.	31	4RA20ME400	Anilkumar B.D.
10	4RA18ME035	Rithik P Koushik	32	4RA20ME402	Bhuvan K.
11	4RA18ME048	Vinayaka shiggavi	33	4RA20ME403	Chandana Kumara A.C.
12	4RA19ME001	AKASH K	34	4RA20ME404	Chiranth Gowda G.P.
13	4RA19ME002	AMITH KUMAR HK	35	4RA20ME405	Guruprasad C.B.
14	4RA19ME003	ANUJ ANGDEMBE	36	4RA20ME406	Karan D.J.
15	4RA19ME004	ANUP PUDASAINI	37	4RA20ME408	Mohammed Sufiyan Shariff
16	4RA19ME006	DEEPU	38	4RA20ME409	Morampudi Rajesh
17	4RA19ME007	EKANTH GOWDA A S	39	4RA20ME410	Prajwal B.L.
18	4RA19ME008	JASHWANTH C G	40	4RA20ME411	Sagar N.M.
19	4RA19ME009	JNANAMURTHY S R	41	4RA20ME412	Sanjay Patel H.R.
20	4RA19ME010	KARTHIK A S	42	4RA20ME413	Saqhaf Pasha
21	4RA19ME011	KARTHIK C	43	4RA20ME414	Venu K.R.
22	4RA19ME012	LKITH GOWDA B G	44	4RA20ME416	Yashwanth C.M.

## WORKSHOP EVALUATION FORM

Workshop Title: CATIA SOFTWARE TRAINING

Date & Venue: 30/05/2022 to 04/06/2022

Semester: 6<sup>th</sup>

Was the theoretical and practical sessions were sufficient to understand the working concepts.	<input checked="" type="checkbox"/> YES/NO
Was the session helpful to understand the basic concepts?	<input checked="" type="checkbox"/> YES/NO
From the hands-on sessions are you able to understand the interfacing details?	<input checked="" type="checkbox"/> YES/NO
Have you got any Innovative/Project ideas from the presenters?	<input checked="" type="checkbox"/> YES/NO
Do you feel that this workshop is helpful for making hobby/final year Project?	<input checked="" type="checkbox"/> YES/NO
Does the title of workshop matches with the contents taught	<input checked="" type="checkbox"/> YES/NO
Rate the overall content taught in workshop	Average/ Good / Excellent <input checked="" type="checkbox"/>
Any other comments/suggestion?	

Students Name: Praywal B.L

USN: FRA20MFA10

Signature: 

## WORKSHOP EVALUATION FORM

Workshop Title: CATIA SOFTWARE TRAINING

Date & Venue: 30/05/2022

Semester: 6<sup>th</sup>

Was the theoretical and practical sessions were sufficient to understand the working concepts.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Was the session helpful to understand the basic concepts?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
From the hands-on sessions are you able to understand the interfacing details?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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Does the title of workshop matches with the contents taught	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Rate the overall content taught in workshop	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Good <input type="checkbox"/> Excellent
Any other comments/suggestion?	

Students Name: Darjay Patel H.R.

USN: URA20ME462

Signature: Darjay Patel H.R.