KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

(**An Autonomous Institution** - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near **VIRUDHUNAGAR**).

DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

on

Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Academic Year	:	2026-2027 (ODD Semester)
Date / Days	:	27.07.2026 to 03.08.2026 (6 Days)
Duration	:	53 Hours
Organized by	:	Department of Mechanical Engineering

Coordinators
Dr. N. R. Madhan, AP/GE

HoD/Mech
Dr. S. Thanga Kasi Rajan, ASP

Dean Academic Courses
Dr.R.Suresh Babu, Professor

12/8/2026
Verified
VAC Incharge
Ms. S. Athikalakshmi

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DEPARTMENT OF MECHANICAL ENGINEERING

Content	Details
Academic Year	2026-2027 (ODD Semester)
Date	27.07.2026 to 03.08.2026 (6 Days)
Name of the Value-added course	Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
Duration	53 Hours
No of Credit	2 Credit
Category	Theory (15 hours), Lab (33 hours) and Self Learning (5 hours)
Organized by	Department of Mechanical Engineering
Three-Member Committee Members	1. Dr. S. Thanga Kasi Rajan, ASP& HoD/Mech 2. Dr. R.Sakthivel Murugan, AP/Mech 3. Dr. N. R. Madhan, AP/Mech
Internal Coordinators	1. Dr. N. R. Madhan, AP/Mech

Coordinators
Dr. N. R. Madhan, AP/GE

HoD/Mech
Dr. S. Thanga Kasi Rajan, ASP

Dean Academic Courses
Dr.R.Suresh Babu, Professor

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COLLEGE OF ENGINEERING & TECHNOLOGY

25 YEARS 2001 - 2026

(An Autonomous Institution - Affiliated to Anna University, Chennai)
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S.P.G.C. Nagar, K. Vellakulam - 625 701 (Near VIRUDHUNAGAR).

APPROVAL BOOK

Book No. MECH.

Date : 09.07.2026

SL. No. 95

VALUE ADDED COURSE on "CATIA"

Name of the Course : Industrial 3D Modelling & Generative sheet Metal Design using CATIA.

Class : III year Mechanical Engg. Students.

Date : 27.07.2026 to 03.08.2026 [6 Days]

Venue : CAD Lab. mechanical Third floor block.

Software used : CATIA V5

Approval may please be granted for conducting this Course to III year mechanical engg. students

N.R. 09/07/2026
Signature of Staff

09/7/26
HoD

09/7/26
PRINCIPAL

N.R. MADHAN

OFFICE USE

1) Account Head : Value added Courses.
2) Budget allotted :
3) Amount committed / Spent sofar :
4) Balance available

N.R.
Dr. N. R. MADHAN
AP/CHE

Dr. S. RAMAKRISHNAN
HOD/MECH.

O.M.

Secretary

KAMARAJ

An Autonomous Institution

Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Summary Report

Day		Description
27.07.2026	:	**Introduction about CATIA** - Students were introduced to the CATIA user interface and the Sketcher Workspace. Practical exercises focused on creating precise 2D profiles and understanding parametric constraints
28.07.2026	:	**3D Part Modelling** - The focus shifted from 2D sketching to 3D solid modelling. Students practiced advanced part design features, including extrusions, revolutions, Boolean operations, and applied material properties to their virtual models.
29.07.2026	:	**Generative Sheet Metal Design** - This core session covered industrial sheet metal parameters. Students learned how to set bend radii, apply K-factors, create walls, apply corner reliefs, generate stampings (louvers, bridges), and extract flat patterns for manufacturing.
30.07.2026	:	**Drafting** - Students were trained to generate detailed, industry-standard 2D engineering drawings directly from their 3D parametric models, including standard views, dimensioning, and annotations.
31.07.2026	:	**Assembly** - The session covered digital assembly techniques. Students learned to import multiple components and apply mechanical constraints (coincidence, contact, offset) to create functional virtual assemblies. **Internal Assessment – I.** Students underwent their first formal evaluation based on the established rubrics (Maximum 100 Marks).
03.08.2026	:	**Internal Assessment – II (Project).** The final evaluation took place (Maximum 100 Marks). Students presented their capstone projects. **Course conclusion,** feedback collection, and valedictory remarks marking the successful completion of the Value-Added Course.

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

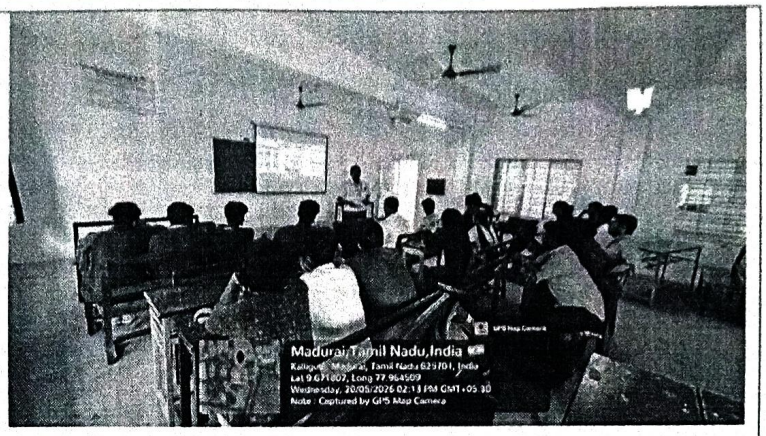
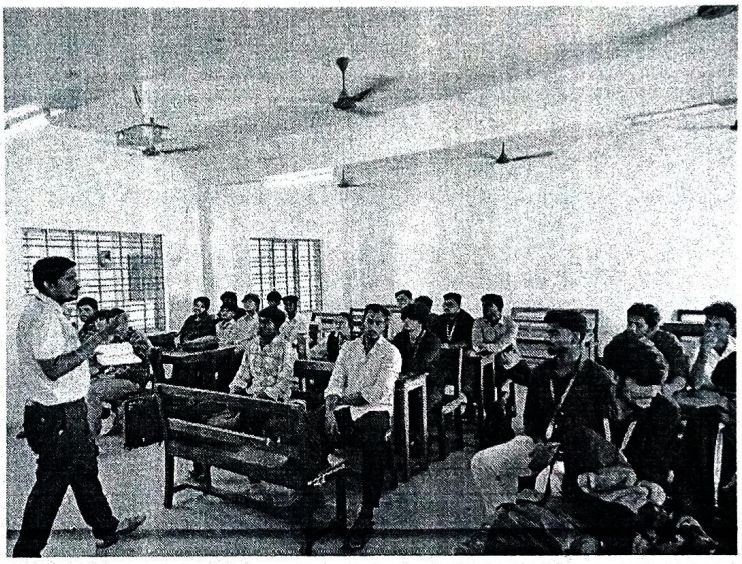
(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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DEPARTMENT OF MECHANICAL ENGINEERING

Three-member committee meeting for value added course selection

Agenda		Value Added Course Selection Meeting
Date	:	20.05.2026
Time	:	02.00 PM
Venue	:	E15 Hall, Academic Block Four, Third Floor
Members Present	:	**Three Member Committee Members** 1. Dr. S. Thanga Kasi Rajan, ASP& HoD/Mech 2. Dr. R.Sakthivel Murugan, AP/Mech 3. Dr. N.R. Madhan, AP/GE **Chairperson** 1. Dr. N.R. Madhan, AP/GE **Co-ordinators** 1. Dr. N.R. Madhan, AP/GE **Class representative (2023 – 2027 Batch)** 1. Mr. Muthu Krishnan V (24UME007), III Year/ Student 2. Mr. Sridharan A (24UME019), III Year/ Student 3. Mr. Harini V S (24UME022), III Year/ Student 4. Mr. Sudharson S (24UME026), III Year/ Student
Minutes of the Meeting	:	It is optional to complete a Value-Added Course for Regulation 2021. In this regard a three-member committee has been formed and a meeting is organized to select the course for registration. • Meeting started by 02.00 PM. Dr. S. Thanga Kasi Rajan, Associate Professor & Head of the Department, welcome the gathering. He has advised to maintain SOP for value added course. • Dr. N. R. Madhan, Assistant Professor & Value-added course incharge has proposed course on o **Industrial 3D Modelling and Generative Sheet Metal Design using CATIA** • Based on the suggestion and feedback given by the 2021-2025 Batch students, 3 committee members for Value added course and student representative, "CATIA" course is agreed to take in this IV semester for 2024-2028 Batch students. Courses were selected by the students based on their interested. **Justification for the Courses selection:** The justification for the course selection were as follows i. These courses will be useful for their project work ii. It is a 48-hour courses (3 Credits) iii. These courses are useful to meet the Industrial Needs iv. These courses are in emerging areas.

Proof		 

N.R. R.Sakthivel

Three Member Committee Members
Dr. S. Thanga Kasi Rajan, ASP & HoD/Mech
Dr.R.Sakthivel Murugan, AP/Mech
Dr. N.R. Madhan, AP/GE

N.R.

Chairperson
Dr. N.R. Madhan, AP/GE

S.T.K.R.

HoD/Mech
Dr. S. Thanga Kasi Rajan, ASP & HoD/Mech

N.S. 14.5.26

Dean Academic Courses

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Approval of Board of Study Meeting

Board of Study Meeting: X **Mode: hybrid mode**

Date & Timing: 04.07.2026 & 11.00 AM to 12.30 PM **Page No: 11 of 15**

010.05.02 : Value Added Courses offered if any

Specify the Value added courses conducted in the department.

Dr.S.Thangakasirajan HOD/Mech informed to BoS members that the following value added courses offered for Mechanical Engineering students and the ratification requested to include the credits earned by students from value added courses as over and above credit for students.

Sl.No	Name of the Course	Year	Offered by	Date	No of Students
1	CATIA	III/Mech	KARF Technovate	14.07.2025 to 19.07.2025	26
2	CNC tooling and Design	II/Mech	NTTF Bangalore	19.01.2026 to 24.01.2026	16
3	Internet of Things	II/Mech	NTTF Bangalore	19.01.2026 to 24.01.2026	9
Proposed List of Value Added Courses for upcoming Semester: CATIA, CNC Coding, GD&T,					

VAC Coordinator
(Dr. N. R. Madhan, AP/GE)

HoD/Mech
(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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Department of Mechanical Engineering

Value Added Course: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA **Year / Sem:** III / V

Target Audience: III Year Mechanical Engineering Students **Tentative Dates:** 27.02.2026 to 05.03.2026

Comprehensive Day-Wise Schedule

Session & Timing	Session 1 09:10 am to 10:50 am	Session 2 11:10 am to 12:50 pm	Session 3 01:30 pm to 03:00 pm	Session 4 03:00 pm to 04:20 pm	Session 5 04:30 pm to 05:45 pm
	Theory	Practical	Theory	Practical	Practical
Day 1 - Transition to Parametric CAD	**Inauguration.** AutoCAD vs. CATIA. Intro to GUI, Specification Tree, and Mouse Controls.	**Sketcher Basics.** Drawing profiles and understanding the difference between AutoCAD lines and parametric sketches.	**Constraint Management.** Geometrical and dimensional constraints. The importance of "fully-constrained" sketches.	**Advanced Sketching.** Applying constraints, trimming, mirroring, and fully defining complex 2D profiles.	Worksheet 1 (Self-Study)
Day 2 - Core 3D Modeling	**Sketch-Based Features.** Concept of Pad, Pocket, Shaft, and Groove. Defining limits and depths.	**3D Generation.** Converting Day 1 sketches into 3D solid blocks, cylinders, and basic machine parts.	**Feature Engineering.** Creating Reference Elements (Planes, points) and working with multi-pad/multi-pocket tools.	**Modeling Practice.** Drafting standard mechanical components	Worksheet 2 (Self-Study)
Day 3 - Advanced Part Design	**Dress-up Features.** Applying Fillets, Chamfers, Draft angles, and Shell (hollowing) operations.	**Modifying Solids.** Applying dress-up features to existing models and troubleshooting geometry errors.	**Transformation Tools.** Using Rectangular/Circular Patterns, Mirroring, and Boolean concepts.	**Complex Part Design.** Creating a comprehensive part (like a V-Block or connecting rod) using all learned features.	Worksheet 3 (Self-Study)
Day 4 - Sheet Metal Fundamentals	**Generative Sheet Metal Intro.** Understanding Sheet Parameters	**Base Geometry.** Setting parameters and creating primary planar walls and extrusions.	**Secondary Walls.** Understanding Edge Flanges, Swept walls, Hems, and Tear-drops.	**Bracket Design.** Designing basic sheet metal mounting brackets with 90° bends and flanges.	Worksheet 4 (Self-Study)
Day 5 - Advanced Sheet Metal	**Cutouts & Stamping.** Creating standard cutouts, Louvers, bridges, and corner reliefs.	**Detailing Sheet Metal.** Applying cutouts across bends and generating ventilation features.	**Unfolding & Flat Patterns.** The mathematics of unfolding and generating flat patterns for manufacturing.	**Enclosure Workflow.** Complete workflow: Modeling a 3D electronic enclosure and generating its flat pattern.	Worksheet 5 (Self-Study)
Day 6 - Project & Assessment	**Revision & Mini-Project.** Guided practice combining Part Design and Sheet Metal tools on a single assembly component.	**Mini-Project Completion.** Finalizing models, applying material properties, and clearing individual doubts.	**Practical Examination.** Independent execution of the Part Modeling and Sheet Metal tasks designed for assessment.	**Evaluation & Valedictory.** Review of exam models, feedback on design strategies, and course conclusion.	

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Syllabus

Modules	Details
Module - 1	**Introduction and Sketcher Workspace** • Introduction to CAD/CAM/CAE and CATIA V5 interface. • Understanding parametric modelling and the specification tree. • Sketcher tools: Profile generation, pre-defined profiles (rectangles, circles, splines). • Applying geometrical and dimensional constraints. • Sketch operations: Trim, mirror, symmetry, and project 3D elements.
Module – 2	**3D Part Modelling** • Sketch-based features: Pad, Pocket, Shaft, Groove, Hole, and Rib. • Dress-up features: Edge fillets, chamfers, draft angles, and shell operations. • Transformation features: Translation, rotation, symmetry, and patterns. • Applying material properties and basic mass property analysis.
Module – 3	**Generative Sheet Metal Design** • Introduction to sheet metal parameters (Thickness, Bend Radius, K-Factor). • Creating foundational geometry: Wall, Wall on Edge, and Extrusion. • Bending operations: cylindrical bends, conical bends, and fold/unfold commands. • Edge and corner treatments: Corner reliefs, tear drops, and hems.
Module – 4	**Drafting** • Generating primary views: Front, Top, Side, and Isometric views. • Applying dimensions, tolerances, and text annotations to industry standards.
Module – 5	**Assembly** • Top-down vs. Bottom-up assembly design methodologies. • Importing components into the Assembly Design workbench. • Applying mechanical constraints: Coincidence, Contact, Offset, and Angle. • Manipulating components, checking for clashes/interferences, and exploding assemblies.
Module – 6	**Project and Assessment** • **Capstone project initiation:** Brainstorming and conceptualizing a new mechanical product. • Iterative design: Modelling, assembling, and simulating the final project. • Final internal assessment and project presentation.

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 20.07.2026

Subject: Value-Added Course on Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

This is to inform all third-year Mechanical Engineering students that the Department of Mechanical Engineering is organizing a comprehensive Value-Added Course titled **"Industrial 3D Modelling and Generative Sheet Metal Design using CATIA."**

This course is specifically designed to bridge the gap between academic learning and industry requirements, providing hands-on experience with industry-standard design software.

Course Details

- **Course Title:** Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
- **Target Audience:** III-Year Mechanical Engineering Students
- **Duration:** 27.07.2026 to 03.08.2026
- **Focus Areas:**
  - 3D Part Modelling
  - Generative Sheet Metal Design
  - Drafting and Assembly
  - Project-based Application
- **SDG Mapping:** Quality Education (SDG 4), Industry, Innovation and Infrastructure (SDG 9), Responsible Consumption and Production (SDG 12)

Important Instructions

1. **Attendance:** 100% attendance is mandatory for the successful completion of this course and to be eligible for the final certification.
2. **Assessments:** Students will be evaluated through two internal assessments (Internal Assessment I on 31.07.2026 and Internal Assessment II/Project on 03.08.2026).
3. **Reporting:** Students are expected to be present in the designated CAD laboratory 10 minutes prior to the commencement on 27.07.2026.

Active participation in this course will significantly enhance your design competencies and improve your placement opportunities in core engineering sectors.

N. P. MADHAN, AP/ME

HoD/Mechanical Engineering

Dr. S. Thangakarivaran. AP/Mech

Copy to:

- *III-Year Mechanical Classroom Notice Board*
- *Department Notice Board*

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Course Objectives

1. **To introduce** the fundamental principles of parametric design, equipping students with the skills to navigate the CATIA interface, create precise 2D sketches, and develop complex 3D solid models.
2. **To provide** comprehensive, hands-on training in Generative Sheet Metal Design, focusing on industrial manufacturing parameters such as bend allowances, corner reliefs, stampings, and flat pattern extraction.
3. **To train** students in the methodology of creating industry-standard 2D engineering drawings, detailing, and proper dimensioning directly from 3D parametric models.
4. **To teach** the concepts of digital assembly and virtual prototyping by guiding students on how to apply appropriate mechanical constraints to multi-component systems.
5. **To foster** practical problem-solving and innovation by tasking students with the complete digital creation, assembly, and simulation of a new functional mechanical product.

Course Outcomes

CO	Description	Knowledge Level
CO1	**Create** precise 2D profiles and develop complex 3D solid models utilizing advanced part design features.	**K3 – Apply**
CO2	**Design** and analyze generative sheet metal components applying industry-standard parameters and bend allowances.	**K3 – Apply**
CO3	**Generate** detailed, industry-standard 2D engineering drawings and drafting layouts from 3D models.	**K3 – Apply**
CO4	Assemble multiple 3D components **applying** proper constraints to simulate functional mechanical systems	**K3 – Apply**
CO5	**Design**, assemble, and simulate a new functional product for the final project assessment.	**K3 - Apply**

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

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CO – SDG Mapping

SDG 4: Quality Education, **SDG 9:** Industry, Innovation & Infrastructure **SDG 12:** Responsible Consumption & Production

Course Outcomes (COs)	SDG 4	SDG 9	SDG 12
CO1 (Solid Modelling)	3	2	1
CO2 (Sheet Metal Design)	3	3	3
CO3 (Drafting)	3	2	1
CO4 (Assembly)	3	3	1
CO5 (Project & Simulation)	3	3	3
Average Mapping Score	3.0	2.6	1.8

Justification for Mapping

- **SDG 4 (Quality Education) - Highly Mapped (3):** Every outcome directly supports the goal of providing students with relevant, high-level technical skills required for employment in modern mechanical engineering and design sectors.
- **SDG 9 (Industry, Innovation & Infrastructure) - Moderately to Highly Mapped (2 to 3):** Outcomes focusing on Sheet Metal Design, Assembly, and the Final Project highly correlate with this goal by fostering innovation in product design and utilizing digital infrastructure for modern manufacturing processes.
- **SDG 12 (Responsible Consumption & Production) - Specifically Mapped (1 to 3):**
  - **CO2 (Sheet Metal Design):** High mapping (3) because calculating precise flat patterns and utilizing K-factors directly reduces raw material waste during physical manufacturing.
  - **CO5 (Project & Simulation):** High mapping (3) because digital simulation allows for virtual product testing, significantly reducing the waste of physical resources typically consumed during trial-and-error prototyping.

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Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Attendance Sheet

Sl. No.	REG NO	ROLL NO	NAME	27/07	28/07	29/07	30/07	31/07	03/08
1	920424114018	24UME001	UDHAYASANKARAN P						
2	920424114019	24UME002	VARADHARAJAN M						
3	920424114012	24UME003	NARESH KANNA T						
4	920424114017	24UME004	SURIYAPRAKASH V M						
5	920424114002	24UME005	ARIHARASUDHAN M						
6	920424114011	24UME007	MUTHU KRISHNAN V						
7	920424114009	24UME008	MARISELVAM M						
8	920424114001	24UME009	AKSHAY SIVAN						
9	920424114008	24UME010	LAKSHMI NARAYANAN K						
10	920424114013	24UME011	SABARIVAASAN S						
11	920424114005	24UME012	KARTHI.K						
12	920424114016	24UME013	SUGUMAR G						
13	920424114006	24UME014	KRISHNAMOORTHI P						
14	920424114010	24UME015	MOHANRAM A C T						
15	920424114003	24UME018	GURU VISHNU M						
16	920424114015	24UME019	SRIDHARAN A						
17	920424114014	24UME020	SANJAY KUMAR M						
18	920424114007	24UME021	LAKSHMANAN S						
19	920424114004	24UME022	HARINI V S						
20	920424114302	24UME023	MANOJ S						
21	920424114304	24UME024	RAJAPANDI S						
22	920424114301	24UME025	AJAY CHANDRAN S						
23	920424114305	24UME026	SUDHARSON S						
24	920424114303	24UME027	MOHAMED APSAR A						
25	920424114306	24UME028	SURYA PRAKASH C						

VAC Coordinator

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HoD/Mech

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Department of Mechanical Engineering

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Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Faculty Attendance

Session 1 - 09.10 am to 10.50 am **Session 2** - 11.10 am to 12.50 pm

Session 3 - 01.30 pm to 03.00 pm **Session 4** - 03.00 pm to 04.20 pm

S.No	Date	Hour	Topic	Faculty Incharge	Attendance
1	27.07.2026	Session 1	Intro to GUI	Dr. N. R. Madhan, AP/GE	
2		Session 2	Sketcher Basics	Dr. N. R. Madhan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
3		Session 3	Constraint Management	Dr.R.Sakthivelmurugan, AP/Mech	
4		Session 4	Advanced Sketching	Dr. N. R. Madhan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
5	28.07.2026	Session 1	Sketch-Based Features	Dr. S. Muthunatarajan, AP/GE	
6		Session 2	3D Generation	Dr. S. Muthunatarajan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
7		Session 3	Feature Engineering	Dr.R.Sakthivelmurugan, AP/Mech	
8		Session 4	Modeling Practice	Dr. S. Muthunatarajan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
9	29.07.2026	Session 1	Dress-up Features	Dr. N. R. Madhan, AP/GE	
10		Session 2	Modifying Solids	Dr. N. R. Madhan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
11		Session 3	Transformation Tools	Dr.R.Sakthivelmurugan, AP/Mech	
12		Session 4	Complex Part Design	Dr. N. R. Madhan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
13	30.07.2026	Session 1	Generative Sheet Metal	Dr. N. R. Madhan, AP/GE	
14		Session 2	Base Geometry	Dr. N. R. Madhan, AP/GE Dr. S. Muthunatarajan, AP/GE	
15		Session 3	Secondary Walls	Dr. S. Muthunatarajan, AP/GE	
16		Session 4	Bracket Design	Dr. N. R. Madhan, AP/GE Dr. S. Muthunatarajan, AP/GE	
17	31.07.2026	Session 1	Cutouts & Stamping	Dr. S. Muthunatarajan, AP/GE	
18		Session 2	Detailing Sheet Metal	Dr. S. Muthunatarajan, AP/GE Dr.R.Sakthivelmurugan, AP/Mech	
19		Session 3	Unfolding & Flat Patterns	Dr.R.Sakthivelmurugan, AP/Mech	

KAMARAJ

Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
Participant: III Year / V Sem (2024 - 2028 Batch)
Academic Year: 2026 - 27
Date: 11.08.2026 to 03.08.2026 (4 Days)
Venue: Mech - CAD Lab

20		Session 4	Enclosure Workflow	Dr. S. Bhuthunatarajan, AP/IGE Dr. A. Santhoshkumarajan, AP/Mech	
21	01.08.2026	Session 1	Part Design and Sheet Metal tools	Dr. N. K. Madhan, AP/IGE	
22		Session 2	Finishing models	Dr. N. K. Madhan, AP/IGE Dr. A. Santhoshkumarajan, AP/Mech	
23		Session 3	Independent exercises	Dr. A. Santhoshkumarajan, AP/Mech	
24		Session 4	Practical Examination & Evaluation	Dr. N. K. Madhan, AP/IGE Dr. A. Santhoshkumarajan, AP/Mech	

Dr. N. K. Madhan, AP/IGE

VAC Coordinator

(Dr. N. K. Madhan, AP/IGE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

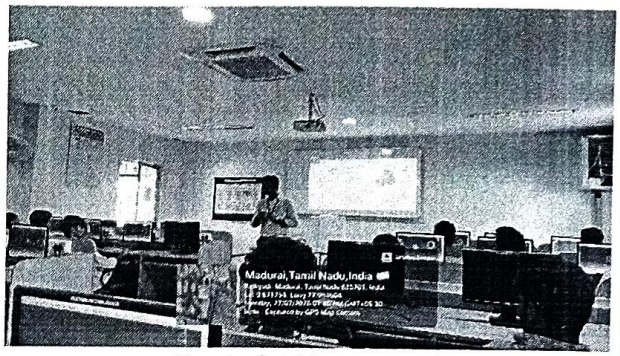
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Photo Proof

Day – 1



Intro to GUI



Constraint Management

Day - 2



Sketch-Based Features



3D Generation

Day - 3



Dress-up Features



Complex Part Design

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

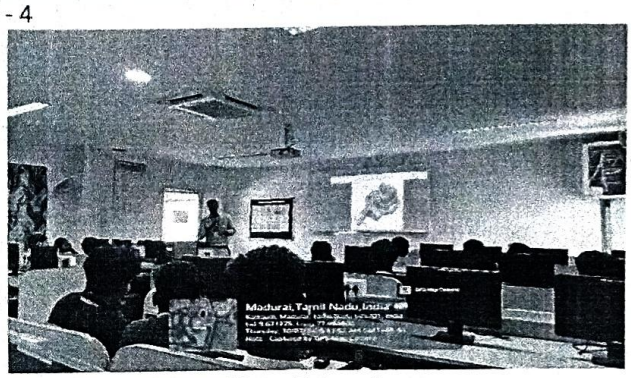
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Photo Proof

Day - 4



Generative Sheet Metal



Base Geometry

Day - 5

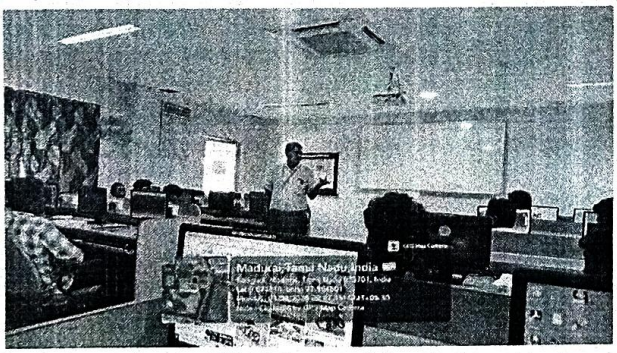


Secondary Walls

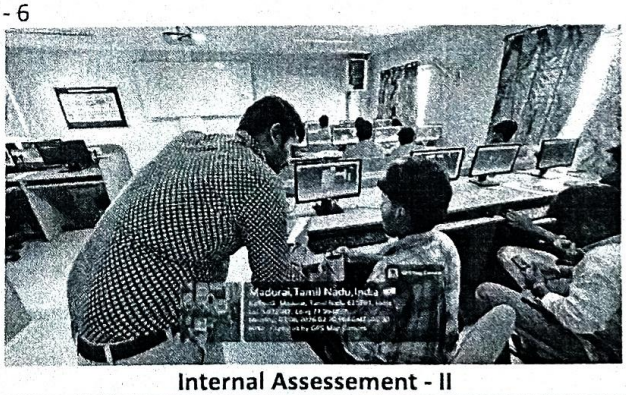


Internal Assessment - I

Day - 6



Finalizing models



Internal Assessement - II

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

Outlook

Circular: Schedule and Evaluation Rubrics for Internal Assessments I & II

From Madhan.N.R <madhanmech@kamarajengg.edu.in>
Date Thu 7/30/2026 2:43 PM
To 24UME <24ume@kamarajengg.edu.in>
Cc Sakthivel Murugan.R <sakthivelmuruganmech@kamarajengg.edu.in>; MUTHU NATARAJAN.S <muthunatarajanmech@kamarajengg.edu.in>; HODMECH <hodmech@kamarajengg.edu.in>

Dear III-Year Mechanical Engineering Students,

This email is to officially notify you of the upcoming schedule and evaluation criteria for your Internal Assessments. Please review the dates and corresponding rubrics carefully to ensure you are well-prepared.

Assessment Schedule

- **Internal Assessment – I:** 31.07.2026
- **Internal Assessment – II (Project):** 03.08.2026

Evaluation Rubrics
Internal Assessment – I (31.07.2026)

Sl No	Description	Maximum Mark
1	Part Diagram	25
2	Assembly Diagram	50
3	Simulation	15
4	Drafting	10
Total		**100**

Internal Assessment – II (Project) (03.08.2026)

Sl No	Description	Maximum Mark
1	New Product Creation	50
2	Assembly Diagram	25
3	Simulation	15
4	Drafting	10
Total		**100**

Please allocate your preparation time according to the weightage of each section to maximize your performance.

With Regards,

Madhan N R,

Assistant Professor,

Mechanical Department,

N. Madhan
N. Madhan AP/MECH

[HOD/Mech]
Dr. S. Thanga Kasirajan.

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Internal Assessment - I

Sl No	REG NO	ROLL NO	NAME	Total Marks	
				Out of 100	Out of 60
1	920424114001	24UME009	AKSHAY SIVAN	98	59
2	920424114002	24UME005	ARIHARASUDHAN M	88	53
3	920424114003	24UME018	GURU VISHNU M	50	30
4	920424114004	24UME022	HARINI V S	60	36
5	920424114005	24UME012	KARTHI.K	92	56
6	920424114006	24UME014	KRISHNAMOORTHI P	63	38
7	920424114007	24UME021	LAKSHMANAN S	50	30
8	920424114008	24UME010	LAKSHMI NARAYANAN K	50	30
9	920424114009	24UME008	MARISELVAM M	50	30
10	920424114010	24UME015	MOHANRAM A C T	75	45
11	920424114011	24UME007	MUTHU KRISHNAN V	55	33
12	920424114012	24UME003	NARESH KANNA T	60	36
13	920424114013	24UME011	SABARIVAASAN S	63	38
14	920424114014	24UME020	SANJAY KUMAR M	90	54
15	920424114015	24UME019	SRIDHARAN A	65	39
16	920424114016	24UME013	SUGUMAR G	62	38
17	920424114017	24UME004	SURIYAPRAKASH V M	65	39
18	920424114018	24UME001	UDHAYASANKARAN P	50	30
19	920424114019	24UME002	VARADHARAJAN M	96	58
20	920424114301	24UME025	AJAY CHANDRAN S	78	47
21	920424114302	24UME023	MANOJ S	55	33
22	920424114303	24UME027	MOHAMED APSAR A	50	30
23	920424114304	24UME024	RAJAPANDI S	80	48
24	920424114305	24UME026	SUDHARSON S	99	60
25	920424114306	24UME028	SURYA PRAKASH C	50	30

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

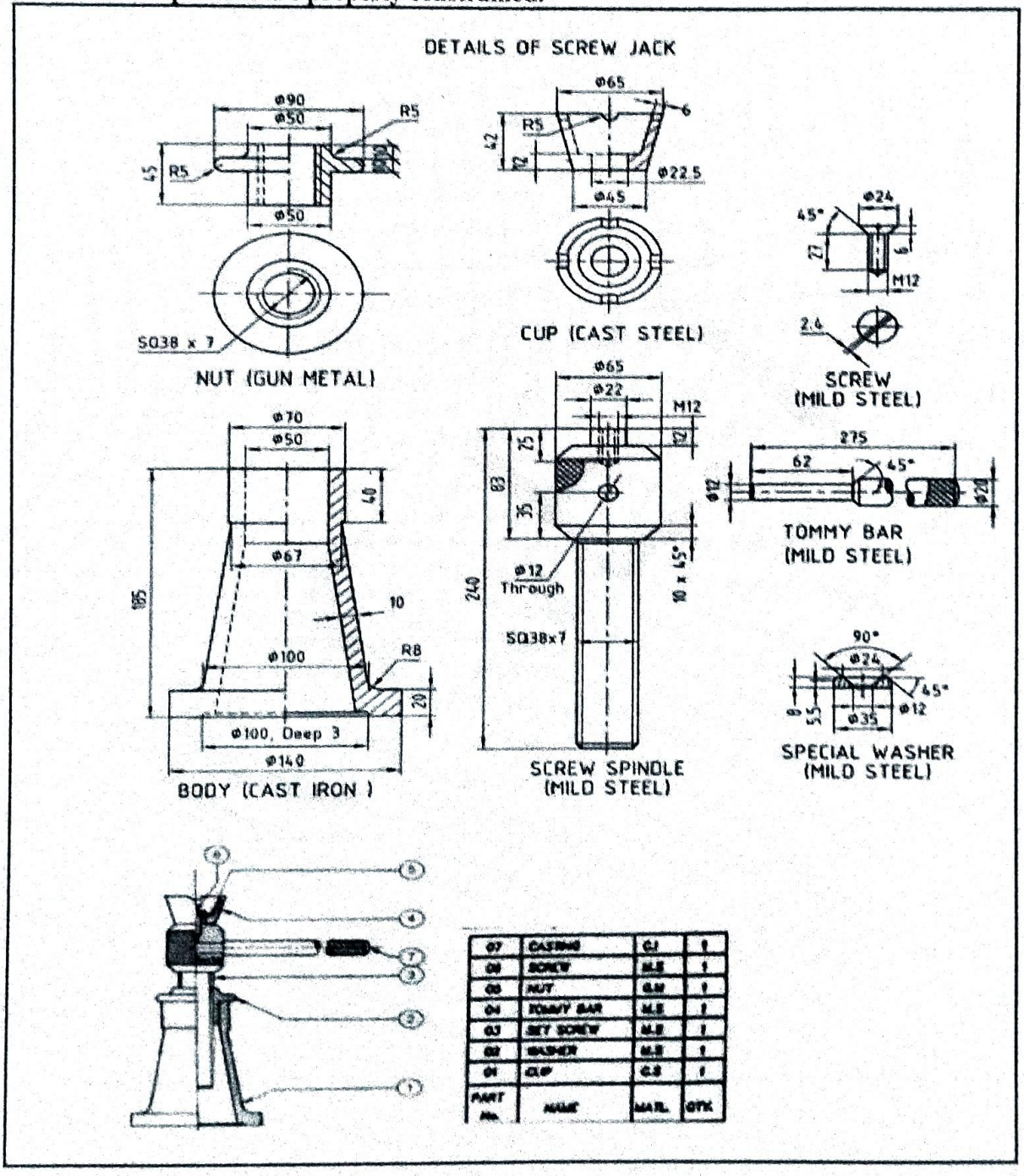
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

---

Question Paper | Internal Assessment - I

Question 1

Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.



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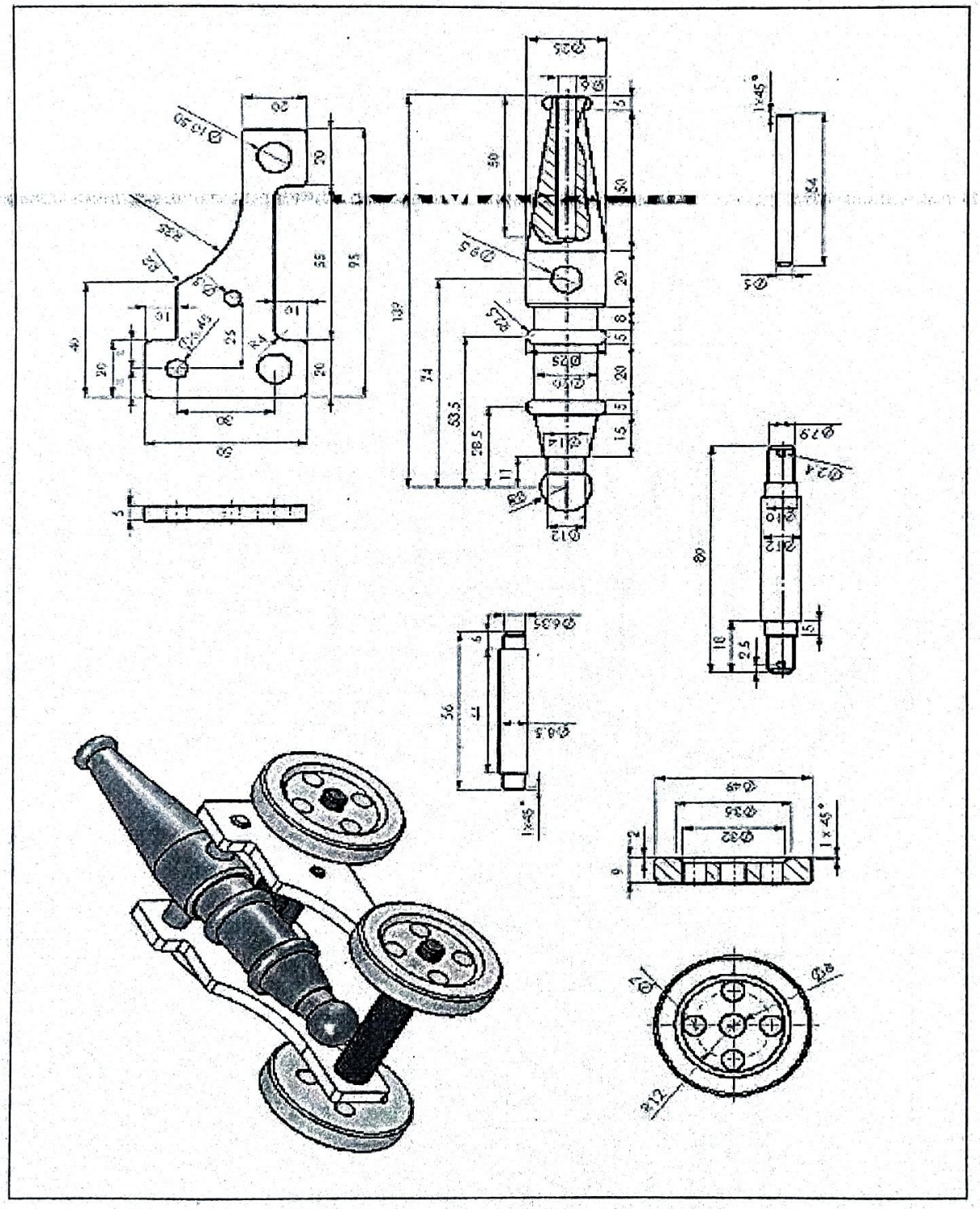
Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Question 2 Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.



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Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Question 3

Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.

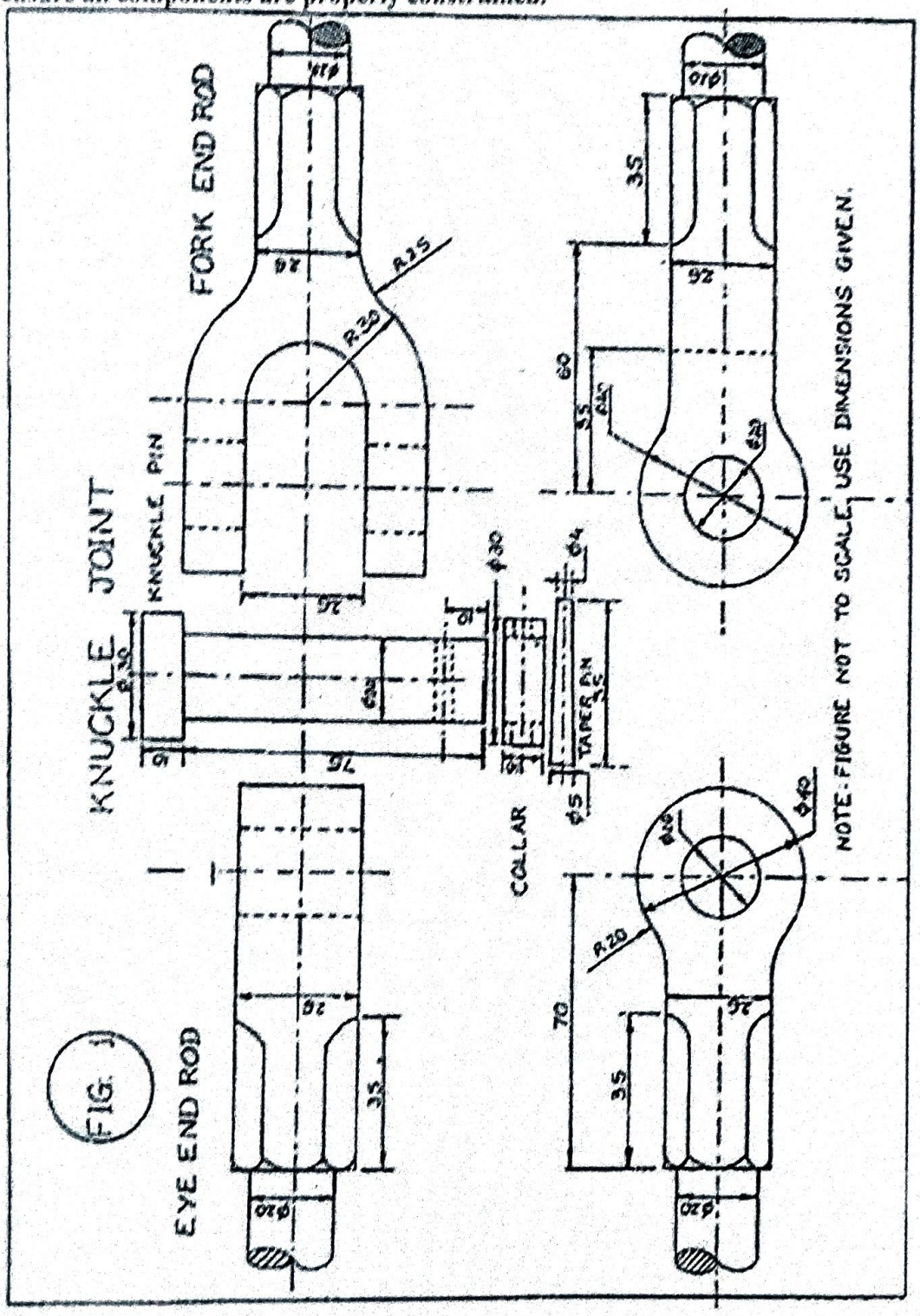


FIG. 1

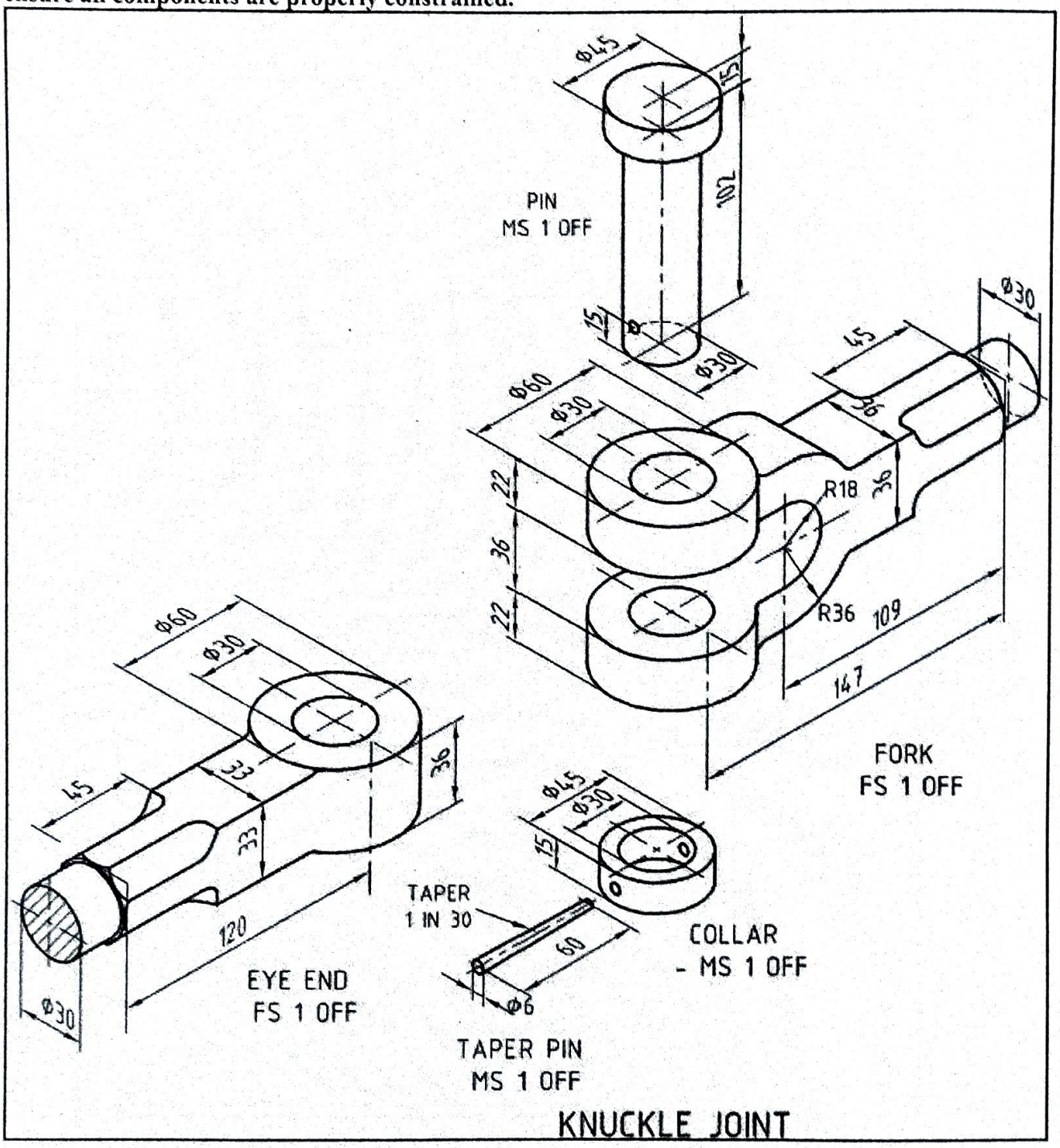
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Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Question 4

Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.



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S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR)

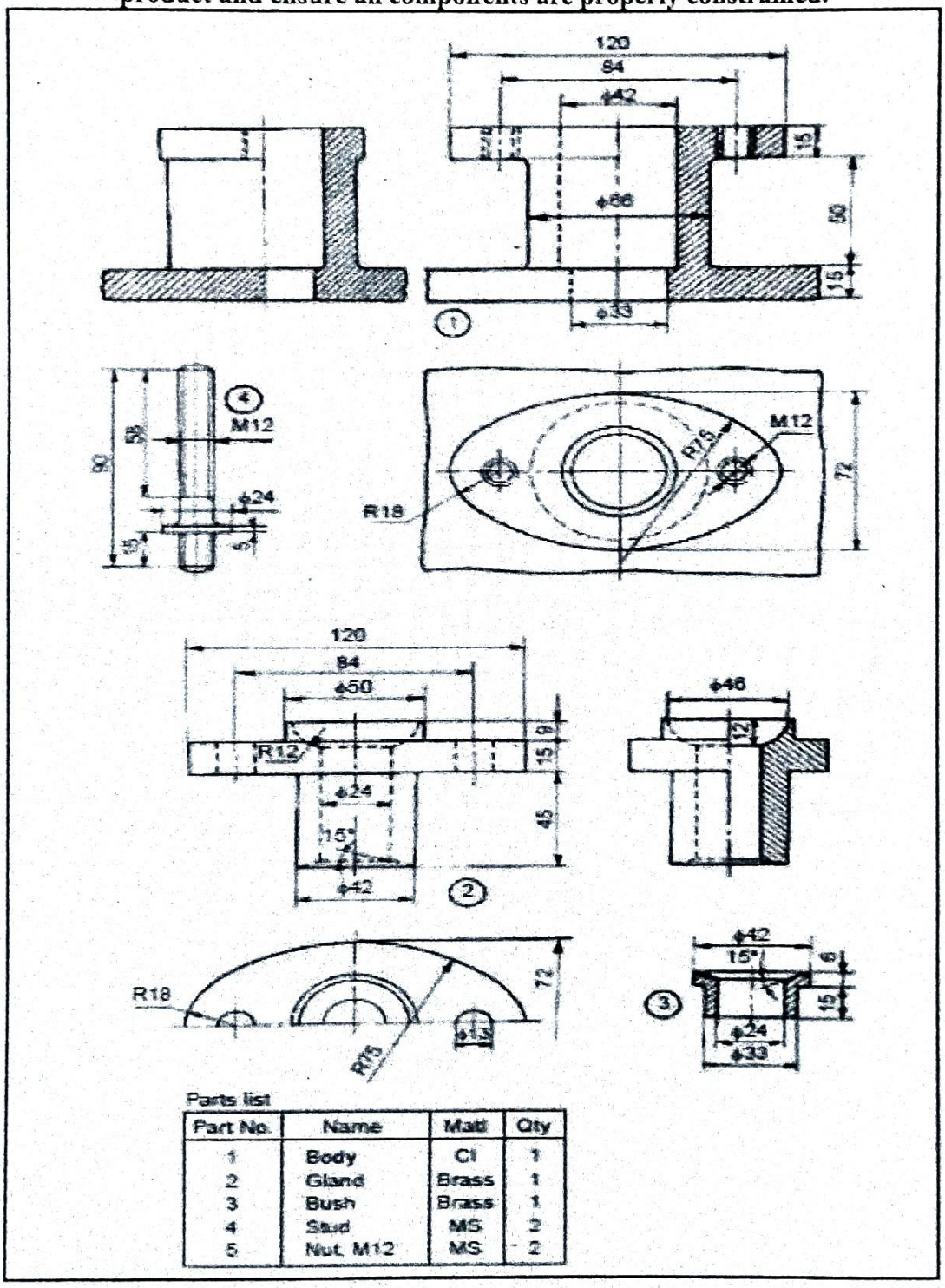
Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Question 5 Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.



Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Gland	Brass	1
3	Bush	Brass	1
4	Stud	MS	2
5	Nut, M12	MS	2

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Department of Mechanical Engineering

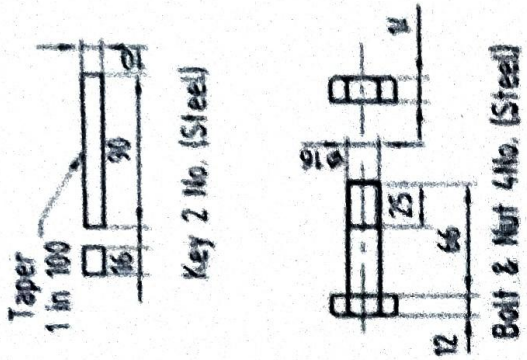
Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

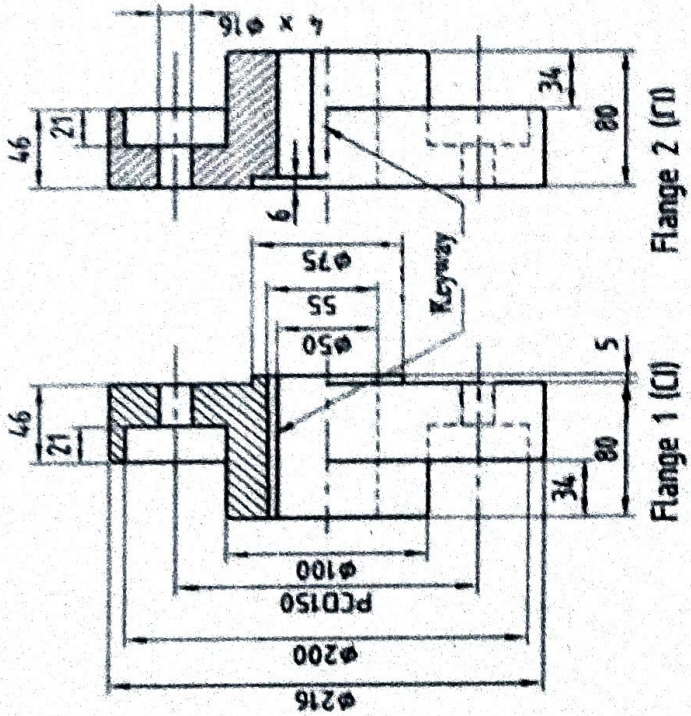
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Question 6

Using any 3D modeling software, create the assembly model of the given product and ensure all components are properly constrained.



SNO	PART NAME	MATERIAL	NO. OFF
1	FLANGE(MALE)	CAST IRON	1
2	FLANGE(FEMALE)	CAST IRON	1
3	NUT	MILD STEEL	4
4	BOLT	MILD STEEL	4
5	KEYS	MILD STEEL	2



VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

Value added Course Name: Industrial 3D modelling and Generative Sheet metal Design using CATIA

Year / Sem: III - year : V Sem

Academic year: 2026-27

Venue: mech. CAD LAB

Date: 31.07.2026

Roll no: 24UMEO26

Name: S. Sudharson

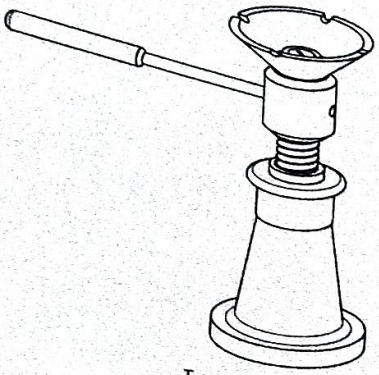
Internal Assesment - I

Rubrics:

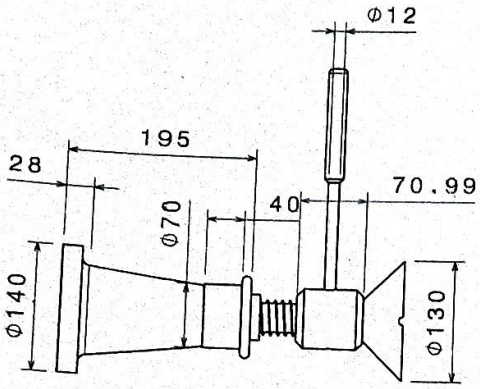
Sno	Description	Maximum mark	obtained mark
1.	Part Diagram	25	25
2.	Assembly Diagram	50	50
3.	Simulation	15	15
4.	Drafting	10	09
	Total	100	99

03/11/26

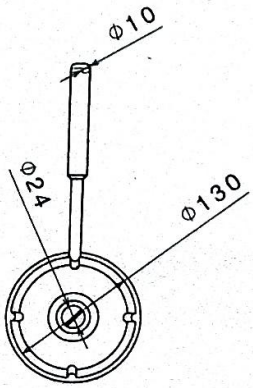
Examiner
Madhan. N. R. Apmech



Isometric view
Scale: 1:5

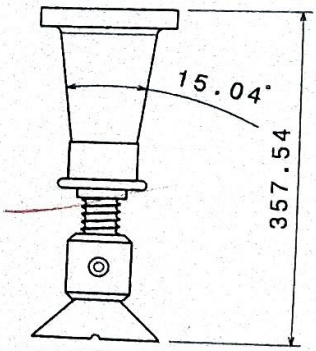


Left view
Scale: 1:5



Front view
Scale: 1:5

roll no:24ume026



Top view
Scale: 1:5

Year & SEM : III - VI Academic Year: 2026-2027.

Date : 31/07/26. Venue : CAD LAB.

Name : Mohanram. Rollno : 24UMB015.

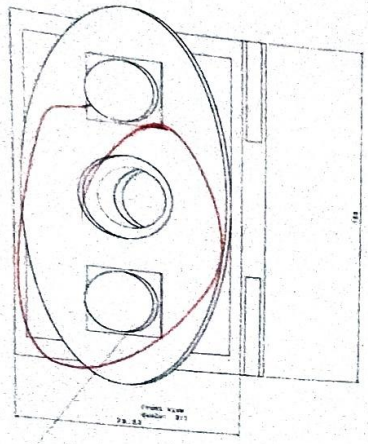
Internal Assesment I.

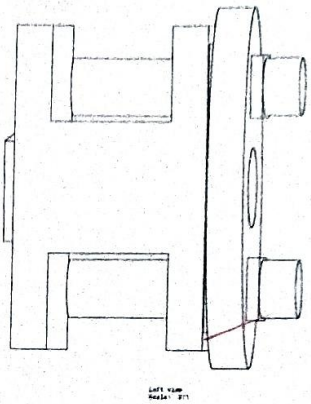
Rubrics:

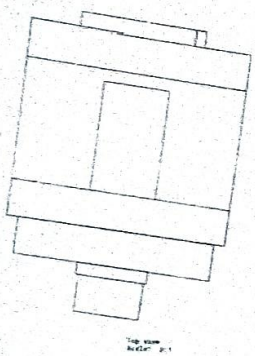
Sno	Description.	Maximum mark	Obtained mark
1.	part diagram.	25	25
2.	Assembly diagram	50	35
3.	Stimulation.	15.	10
4.	drafting.	10.	05
5.	Total	100.	75

03/05/26

N.R.MADHAN
Internal Examiner







24ume015

Value added course Name :- Industrial 3D Modeling and Generative sheet metal design using CATIA

Year / Sem : III year / V Sem (2024 - 2028 Batch)

Date : 31.07.26

Name :- A. MOHAMED AFSAR

Academic year :- 2026 - 27

Venue :- Mech - CAD lab

Roll No :- 24UME027

Internal Assessment - I

Rubrics

S.NO	Description	maximum mark	Obtained mark
1	Part Diagram	25	25
2	Assembly Diagram	50	15
3	Simulation	15	0
4	Drafting	10	10
	Total	100	50

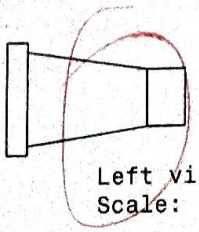
Examiner

31.8

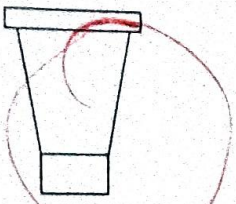
Madhan N.R AP/mech



Front view
Scale: 1:5



Left view
Scale: 1:5



Top view
Scale: 1:5

Value Added Course | CATIA | Capstone Project Evaluation Rubrics

Title of the Program Value added course for "Industrial 3D Modelling and generative Sheet Metal Design using CATIA"

Participants III year students

Date [illegible]

Conducted by **Department of Mechanical Engineering**

Evaluators

Dr. R. Sakthivel, Manager, AFAtech

Dr. S. Muthu Natarajan, AP/ME

* required

* This form will record your name, please fill your name

1. Question *

24UME012 - KARTHI.K
24UME013 - SUGUMAR G
24UME014 - KRISHNAMOOI
24UME015 - MOHANRAM A
24UME018 - GURU VISHNU

- ◯ 24UME001 - UDHAYASANKARAN P
- ◯ 24UME002 - VARADHARAJAN M
- ◯ 24UME003 - NARESH KANNA T
- ◯ 24UME004 - SURIYAPRAKASH V M
- ◯ 24UME005 - ARIHARASUDHAN M
- ◯ 24UME007 - MUTHU KRISHNAN V
- ◯ 24UME008 - MARISELVAM M
- ◯ 24UME009 - AKSHAY SIVAN
- ◯ 24UME010 - LAKSHMI NARAYANAN K
- ◯ 24UME011 - SABARIVAASAN S
- ◯ 24UME012 - KARTHI.K
- ◯ 24UME013 - SUGUMAR G
- ◯ 24UME014 - KRISHNAMOORTHI P
- ◯ 24UME015 - MOHANRAM A C T
- ◯ 24UME018 - GURU VISHNU M
- ◯ 24UME019 - SRIDHARAN A
- ◯ 24UME020 - SANJAY KUMAR M
- ◯ 24UME021 - LAKSHMANAN S
- ◯ 24UME022 - HARINI V S
- ◯ 24UME023 - MANOJ S
- ◯ 24UME024 - RAJAPANDI S
- ◯ 24UME025 - AJAY CHANDRAN S
- ◯ 24UME026 - SUDHARSON S
- ◯ 24UME027 - MOHAMED APSAR A
- ◯ 24UME028 - SURYA PRAKASH C

2. Capstone Project Evaluation Rubrics *

	4	3	2	1
Problem Identification & Objective Setting (20)	○	○	○	○
Design Solution & Innovation (30)	○	○	○	○
Technical Execution (CATIA Modeling) (30)	○	○	○	○
Presentation & Jury Defense (20)	○	○	○	○

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Kindly Approve this question for Internal Assessment - I

N.R

07/07/24

N. R. MADHAR, AP/CIE

Approved

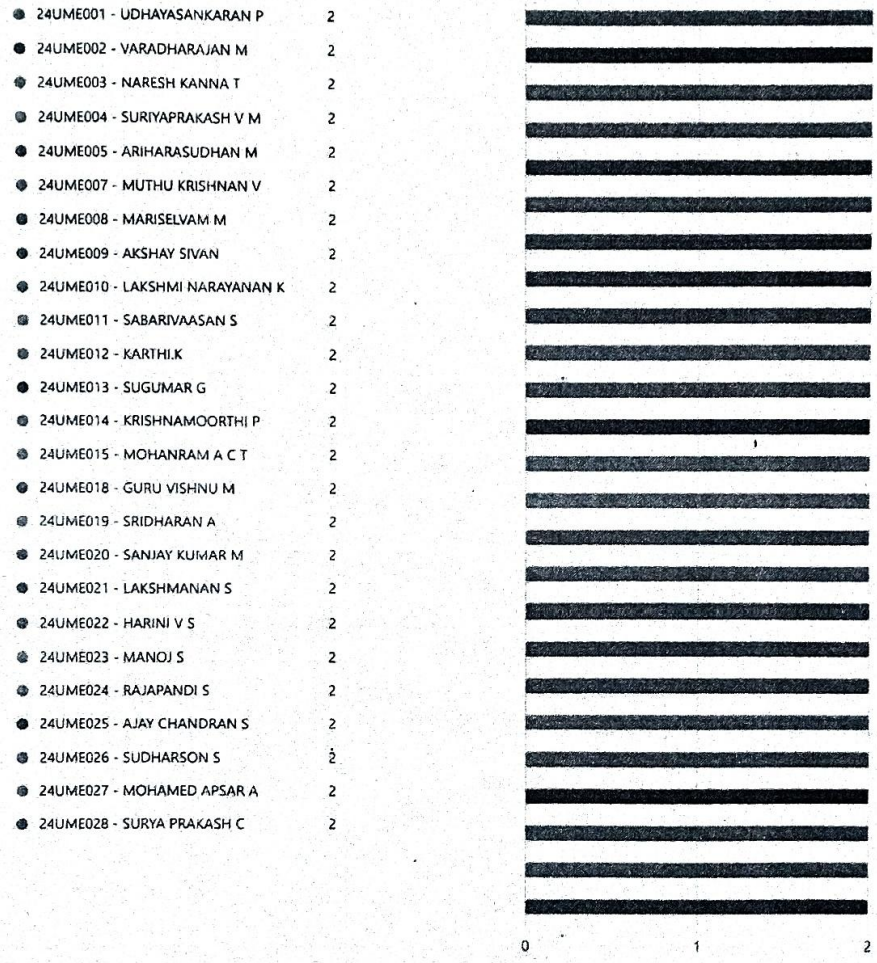
S. Thangakani Rajan

[Dr. S. Thangakani Rajan]

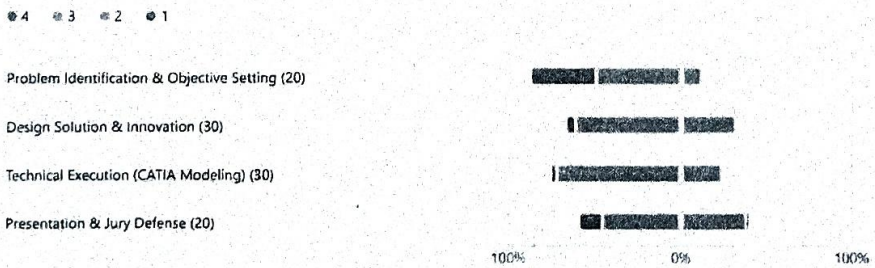
Responses Overview Active

Responses	Average Time	Duration
50	01:11	1 Days

1. Question



2. Capstone Project Evaluation Rubrics



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(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY CHENNAI)
S.P.G. Chidambaram Nadar - K. Rajammal Campus
S.P.G.C. Nagar, K. Vadakkupatti - 625 701 (Near VIRUDHUNAGAR)

Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA
Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27
Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Internal Assessment Question – II

Capstone Project – Question

Select and study a real-world, commonly used assembly product consisting of multiple components. Analyse its functional requirements and component interactions, carry out reverse engineering through physical measurements, develop 3D CAD models of the individual components, assemble them using appropriate constraints, and prepare complete engineering documentation including exploded views, BOM, detailed drawings, material/manufacturing considerations, and proposed design improvements.

Expected Documentation / Deliverables

Students may be asked to submit:

1. **Product identification and application**
2. **Product photographs and existing design study**
3. **Functional analysis**
4. **Component identification and decomposition**
5. **Measurement and reverse engineering**
6. **3D modelling of individual components**
7. **Assembly modelling with appropriate constraints**
8. **Exploded assembly view**
9. **Bill of Materials (BOM)**
10. **Engineering drawings with dimensions and tolerances**
11. **Material and manufacturing process selection**
12. **Design modifications/improvements, if any**
13. **Final assembled CAD model**
14. **Rendering/visualization of the product**
15. **Complete project report**

VAC Coordinator
(Dr. N. R. Madhan, AP/GE)

HoD/Mech
(Dr. S.Thanga Kasi Rajan, ASP/MECH)

Department of mechanical Engineering

Value added Course Name : industrial 3D modelling and Generative Sheet metal Design Using CATIA

Year / Sem : III year / VI sem (2024-2028 Batch)

Date : 03.08.2026

Academic year : 2026-27

Name : S. Sudharsan

Venue : mech-CAD lab

Roll no : 24UME026

Internal Assessment - II

Captone project Rubrice

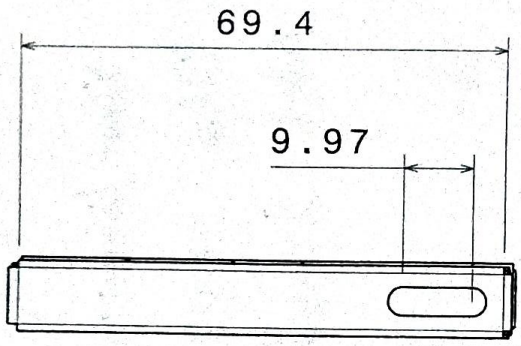
Sl No	Description	Maximum mark	Obtained mark
1.	Problem identification & objective Setting	20	20
2	Design Selection & innovation	30	30
3	Technical Execution (CATIA Modeling	30	30
4.	Presentation & Jury Defense.	20	18
	Total	100	98

Examiner - I

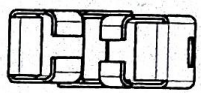
Dr. R. Sakthivelmurugan, AP/MECH

Examiner - II

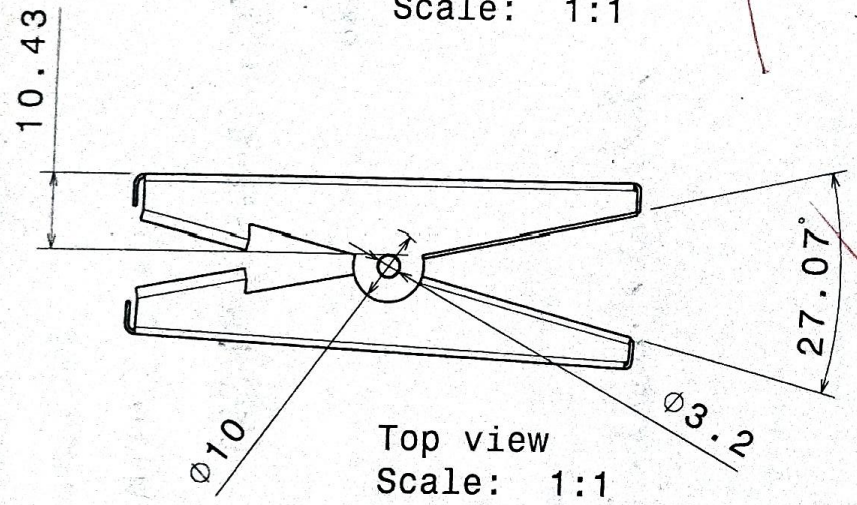
Dr. S. MUTHUNATH KUMAR, AP/MECH



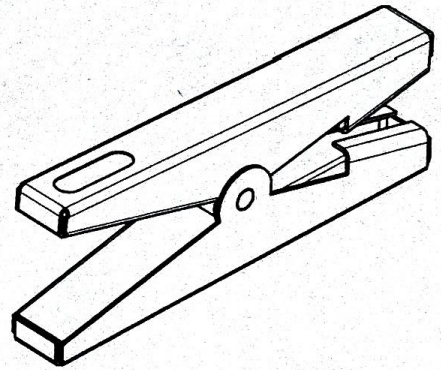
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



Isometric view
Scale: 1:1

ROLL NO:24ume026

Department of Engineering

Value added course Name : Industrial 3D modelling and Generative sheet metal design using CATIA

year / sem : III year / V sem

(2024 - 2028)

Academic : 2026 - 27

Date : 03/08/2026

Venue : mech - CADLAB

Internal Assesment - II

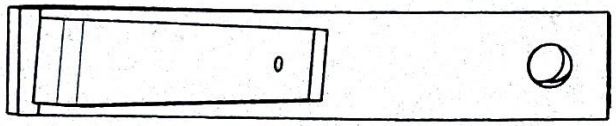
Project Reviews :

S. No	Description	maximum mark	obtained mark
1.	Problem Identification & objective setting	20	20
2.	Design Solution & Innovation	30	25
3.	Technical execution	30	15
4.	Presentation & Jury Defence	20	15
	Total	100	75

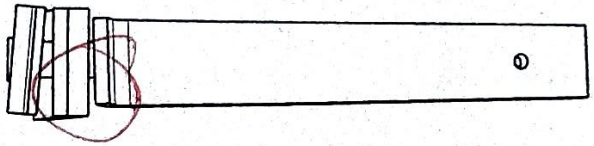
Examiner - I
Dr. R. Sakthivelmurugan - AP/MED

Examiner - II
Dr. S. Muthuvelmurugan. AP/CIE

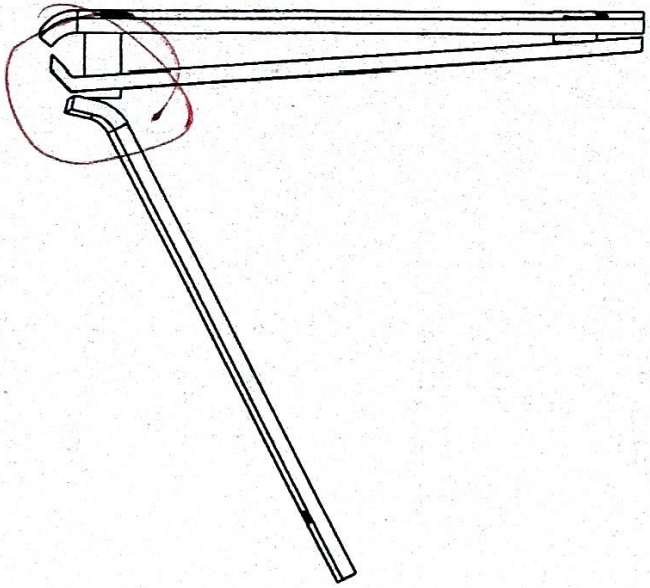
ROLL NO. : 24UME019



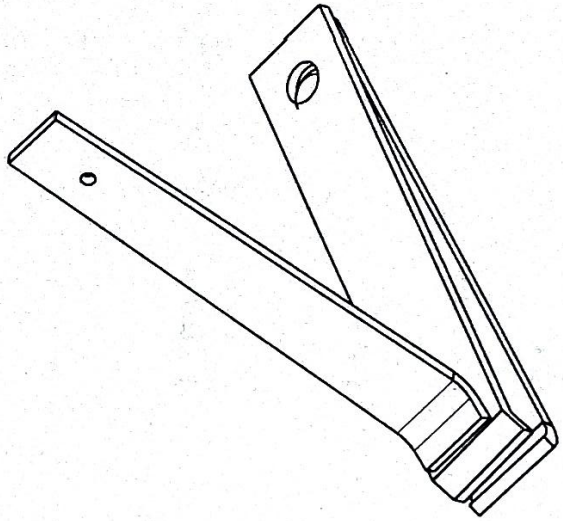
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1



Isometric view
Scale: 1:1

Value add course:

year/sem : III year IV sem (2024 - 2028 Batch)

academic year : 2026 - 27

Venue : Mech. CAD lab

Date : 3/08/2026

internal assement - II

capstone project Rubrics

S.No	Description	maximum mark	obtained mark
1	problem identification & objects setting	20	20
2	Design Solution & innovation	30	20
3	Technical execution (CATIA modeling)	30	10
4	presentation & Jury Defense	20	7
	Total	100	57

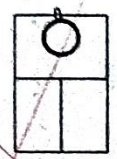
R. Saravanan

Examiner - I

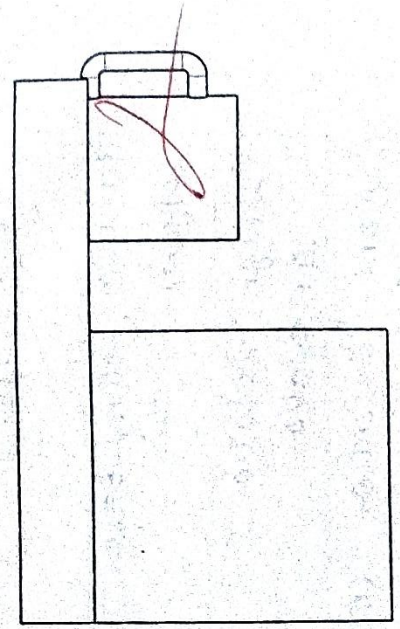
Dr. R. Saravanakumar, AP/MECH

Examiner II

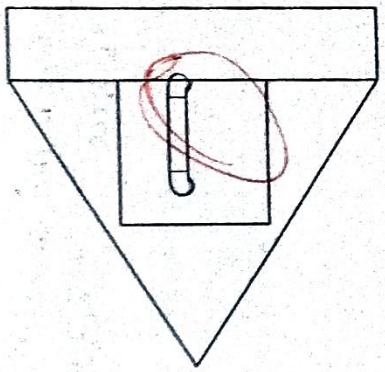
Dr. S. Muthuramalingam, AP/CIE



Front view
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Left view
Scale: 1:2



Top view
Scale: 1:2

24ume008

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
An Autonomous Institution

Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Internal Assessment – II (Capstone Project)

Dr. R. Sakthivel Murugan, AP/MECH : Examiner – I (EX - I) - Out of 100 Marks

Dr. S. Muthu Natarajan, AP/GE : Examiner – II (EX – II) – Out of 100 Marks

Sl No	REG NO	ROLL NO	NAME	EX – I	EX – II	Average Mark (out of 100)	Total Mark (out of 40)
1	920424114001	24UME009	AKSHAY SIVAN	80	63	72	29
2	920424114002	24UME005	ARIHARASUDHAN M	80	63	72	29
3	920424114003	24UME018	GURU VISHNU M	68	50	59	24
4	920424114004	24UME022	HARINI V S	75	55	65	26
5	920424114005	24UME012	KARTHI.K	75	63	69	28
6	920424114006	24UME014	KRISHNAMOORTHI P	80	63	72	29
7	920424114007	24UME021	LAKSHMANAN S	80	58	69	28
8	920424114008	24UME010	LAKSHMI NARAYANAN K	68	50	59	24
9	920424114009	24UME008	MARISELVAM M	68	45	57	23
10	920424114010	24UME015	MOHANRAM A C T	85	75	80	32
11	920424114011	24UME007	MUTHU KRISHNAN V	80	75	78	32
12	920424114012	24UME003	NARESH KANNA T	80	63	72	29
13	920424114013	24UME011	SABARIVAASAN S	80	55	68	28
14	920424114014	24UME020	SANJAY KUMAR M	85	70	78	32
15	920424114015	24UME019	SRIDHARAN A	80	70	75	30
16	920424114016	24UME013	SUGUMAR G	75	55	65	26
17	920424114017	24UME004	SURIYAPRAKASH V M	85	93	89	36
18	920424114018	24UME001	UDHAYASANKARAN P	80	68	74	30
19	920424114019	24UME002	VARADHARAJAN M	85	70	78	32
20	920424114301	24UME025	AJAY CHANDRAN S	80	70	75	30
21	920424114302	24UME023	MANOJ S	75	55	65	26
22	920424114303	24UME027	MOHAMED APSAR A	75	58	67	27
23	920424114304	24UME024	RAJAPANDI S	85	63	74	30
24	920424114305	24UME026	SUDHARSON S	100	95	98	40
25	920424114306	24UME028	SURYA PRAKASH C	80	50	65	26

Examiner – I

(Dr. R. Sakthivel Murugan, AP/MECH)

Examiner - II

(Dr. S. Muthu Natarajan, AP/GE)

VAC Coordinator

(Dr. N. R. Madhan, AP/GE)

HoD/Mech

(Dr. S.Thanga Kasi Rajan, ASP/MECH)

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K.V.S.G. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering

Value added Course Name: Industrial 3D Modelling and Generative Sheet Metal Design using CATIA

Participant: III Year / V Sem (2024 – 2028 Batch) **Academic Year:** 2026 - 27

Date: 27.07.2026 to 03.08.2026 (6 Days) **Venue:** Mech – CAD Lab

Overall Assessment Mark

Sl No	REG NO	ROLL NO	NAME	Internal Assessment – I (out of 60)	Internal Assessment – II (out of 40)	Average Mark (out of 100)
1	920424114001	24UME009	AKSHAY SIVAN	59	29	**88**
2	920424114002	24UME005	ARIHARASUDHAN M	53	29	**82**
3	920424114003	24UME018	GURU VISHNU M	30	24	**54**
4	920424114004	24UME022	HARINI V S	36	26	**62**
5	920424114005	24UME012	KARTHI.K	56	28	**84**
6	920424114006	24UME014	KRISHNAMOORTHI P	38	29	**67**
7	920424114007	24UME021	LAKSHMANAN S	30	28	**58**
8	920424114008	24UME010	LAKSHMI NARAYANAN K	30	24	**54**
9	920424114009	24UME008	MARISELVAM M	30	23	**53**
10	920424114010	24UME015	MOHANRAM A C T	45	32	**77**
11	920424114011	24UME007	MUTHU KRISHNAN V	33	32	**65**
12	920424114012	24UME003	NARESH KANNA T	36	29	**65**
13	920424114013	24UME011	SABARIVAASAN S	38	28	**66**
14	920424114014	24UME020	SANJAY KUMAR M	54	32	**86**
15	920424114015	24UME019	SRIDHARAN A	39	30	**69**
16	920424114016	24UME013	SUGUMAR G	38	26	**64**
17	920424114017	24UME004	SURIYAPRAKASH V M	39	36	**75**
18	920424114018	24UME001	UDHAYASANKARAN P	30	30	**60**
19	920424114019	24UME002	VARADHARAJAN M	58	32	**90**
20	920424114301	24UME025	AJAY CHANDRAN S	47	30	**77**
21	920424114302	24UME023	MANOJ S	33	26	**59**
22	920424114303	24UME027	MOHAMED APSAR A	30	27	**57**
23	920424114304	24UME024	RAJAPANDI S	48	30	**78**
24	920424114305	24UME026	SUDHARSON S	60	40	**100**
25	920424114306	24UME028	SURYA PRAKASH C	30	26	**56**

VAC Coordinator (Dr. N. R. Madhan, AP/GE)

HoD/Mech (Dr. S.Thanga Kasi Rajan, ASP/MECH)

Dean Academic Courses (Dr.R.Suresh Babu, Professor)

Feedback Form | CATIA | III Year | Value Added Course

Title of the Program : Value added course for "Industrial 3D Modelling and Generative Sheet Metal Design using CATIA"
Participants : III year students
Date : 27.07.2026 to 03.08.2026 (6 Days)
Conducted by : **Department of Mechanical Engineering**

Coordinators:
Dr. Madhan N R, AP/Mech.

Instructions: Please indicate your level of agreement the statements listed below

4 Star - Strong Agree
3 Star - Agree
2 Star - Neutral
1 Star - Dis-Agree

* Required

* This form will record your name, please fill your name.

1. The objectives of the training were clearly defined by the Co-ordinator *

☆ ☆ ☆ ☆

2. Participation and interaction were encouraged. *

☆ ☆ ☆ ☆

3. The topics covered were relevant to me. *

☆ ☆ ☆ ☆

4. The content was organized and easy to follow. *

☆ ☆ ☆ ☆

5. This training experience will be useful me. *

☆ ☆ ☆ ☆

6. The faculties was knowledgeable about the training topics. *

☆ ☆ ☆ ☆

7. The faculties was well prepared. *

☆ ☆ ☆ ☆

8. The training objectives were met. *

☆ ☆ ☆ ☆

9. The time allotted for the training was sufficient *

☆ ☆ ☆ ☆

10. The Modelling Assessment and Capstone Project were adequate and comfortable. *

☆ ☆ ☆ ☆

Kindly Approve these questions for feedback.

N.R

07/08/2025

N.R.MADHAN, AP/ME

Approved

Dr.S.Thanga Kasi Rajan

Your view about this programme

11. What did you like most about this training? *

12. What aspects of the training could be improved? *

13. How do you hope to change your practice as a result of this training? *

14. Please share over all comments about this programme. *

15. Do you suggest this programme to your juniors *

- ◯ No
- ◯ Yes

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

Microsoft Forms

Review: Feedback Form | CATIA | III Year | Value Added Course

Respondent

3 AJAY CHANDRAN.S

02:48
Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator * Score / 0 pts

2. Participation and interaction were encouraged. * Score / 0 pts

3. The topics covered were relevant to me. * Score / 0 pts

4. The content was organized and easy to follow. * Score / 0 pts

5. This training experience will be useful me. * Score / 0 pts

6. The faculties was knowledgeable about the training topics. * Score / 0 pts

7. The faculties was well prepared. * Score / 0 pts

8. The training objectives were met. * Score / 0 pts

9. The time allotted for the training was sufficient * Score / 0 pts

10. The Modelling Assessment and Capstone Project were adequate and comfortable. * Score / 0 pts

Your view about this programme

11. What did you like most about this training? * Score / 0 pts

Friendly staff's

12. What aspects of the training could be improved? * Score / 0 pts

None

13. How do you hope to change your practice as a result of this training? * Score / 0 pts

Leaning place

14. Please share over all comments about this programme. * Score / 0 pts

Industrial design knowledge was improving by this course

15. Do you suggest this programme to your juniors * Score / 0 pts

- (•) Yes
- ( ) No

N.R.MADHAN
AP/CSE

Dr.S.Thanga Kasi Rajan

Review: Feedback Form | CATIA | III Year | Value Added Course

Respondent

2 SURYA PRAKASH.C

02:19
Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator * Score / 0 pts

2. Participation and interaction were encouraged. * Score / 0 pts

3. The topics covered were relevant to me. * Score / 0 pts

4. The content was organized and easy to follow. * Score / 0 pts

5. This training experience will be useful me. * Score / 0 pts

6. The faculties was knowledgeable about the training topics. * Score / 0 pts

7. The faculties was well prepared. * Score / 0 pts

8. The training objectives were met. * Score / 0 pts

9. The time allotted for the training was sufficient * Score / 0 pts

10. The Modelling Assessment and Capstone Project were adequate and comfortable. * Score / 0 pts

Your view about this programme

11. What did you like most about this training? *

Score / 0 pts

Self learning

12. What aspects of the training could be improved? *

Score / 0 pts

Extra time

13. How do you hope to change your practice as a result of this training? *

Score / 0 pts

Consistency

14. Please share over all comments about this programme. *

Score / 0 pts

This program is very well and good for all the students

15. Do you suggest this programme to your juniors *

Score / 0 pts

- (●) Yes
- ( ) No

N R

N. R. MADHAN

AP/CE

Dr. S. Thanga Kavi Rajan

Review: Feedback Form | CATIA | III Year | Value Added Course

Respondent

1 MUTHU KRISHNAN V

04:48
Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator * Score / 0 pts

2. Participation and interaction were encouraged. * Score / 0 pts

3. The topics covered were relevant to me. * Score / 0 pts

4. The content was organized and easy to follow. * Score / 0 pts

5. This training experience will be useful me. * Score / 0 pts

6. The faculties was knowledgeable about the training topics. * Score / 0 pts

7. The faculties was well prepared. * Score / 0 pts

8. The training objectives were met. * Score / 0 pts

9. The time allotted for the training was sufficient * Score / 0 pts

10. The Modelling Assessment and Capstone Project were adequate and comfortable. * Score / 0 pts

Your view about this programme

11. What did you like most about this training? *

Score / 0 pts

sheet metal topic

12. What aspects of the training could be improved? *

Score / 0 pts

basic of tools and speed of using tools

13. How do you hope to change your practice as a result of this training? *

Score / 0 pts

yes, the training has change our basic in these catia v5 by this 6 days program

14. Please share over all comments about this programme. *

Score / 0 pts

very good and excellent trainer in catia but the duration was very long sit inn front of system is too bored

15. Do you suggest this programme to your juniors *

Score / 0 pts

- Yes
- No

N R. MAD

AP/ME

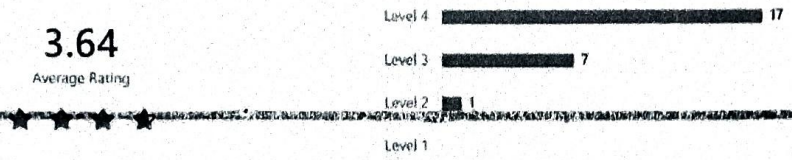
Dr. S. Thanga Kasi Rajan

Responses Overview Active

Responses	Average Score	Average Time
25	0	06:19

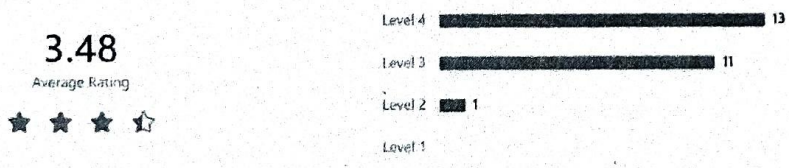
1. The objectives of the training were clearly defined by the Co-ordinator (0 point)

3.64
Average Rating



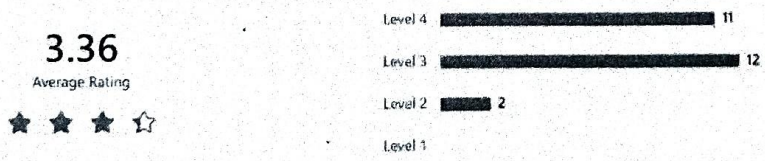
2. Participation and interaction were encouraged. (0 point)

3.48
Average Rating



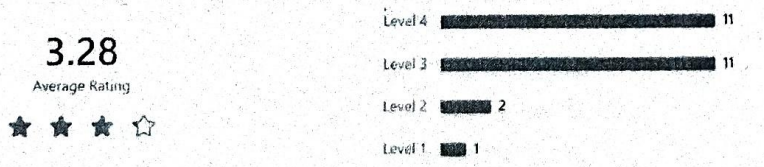
3. The topics covered were relevant to me. (0 point)

3.36
Average Rating



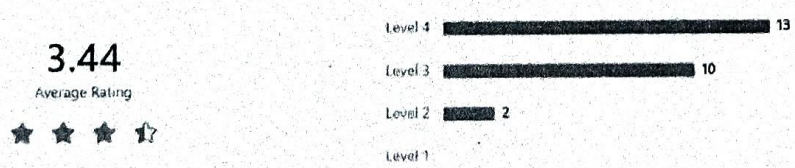
4. The content was organized and easy to follow. (0 point)

3.28
Average Rating



5. This training experience will be useful me. (0 point)

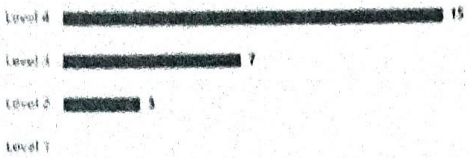
3.44
Average Rating



6. The faculties was knowledgeable about the training topics. (0 point)

3.48
Average Rating

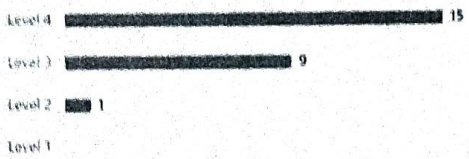




7. The faculties was well prepared. (0 point)

3.56
Average Rating





8. The training objectives were met. (0 point)

3.44
Average Rating

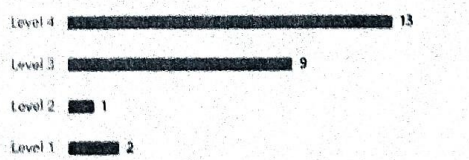




9. The time allotted for the training was sufficient (0 point)

3.32
Average Rating

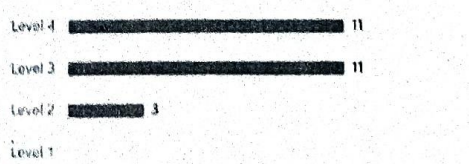




10. The Modelling Assessment and Capstone Project were adequate and comfortable. (0 point)

3.32
Average Rating



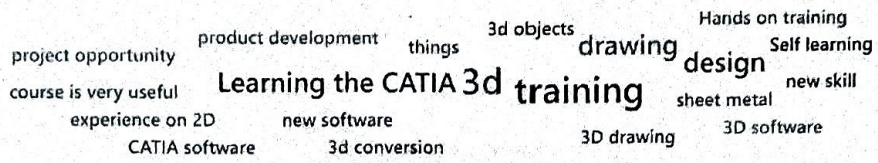


11. What did you like most about this training? (0 point)

25
Responses

Latest Responses
"Hands on training"
"This training gives me a well and good experience on 2D to 3D drawing."
"Assembly and stimulation"
...

4 respondents (16%) answered 3d for this question.



12. What aspects of the training could be improved? (0 point)

25
Responses

Latest Responses
"Nothing"
"The timing of the training was too high and leaving college after 5.45 pm is anno... "
"2D to 3D conversion"
...

3 respondents (12%) answered softwares for this question.

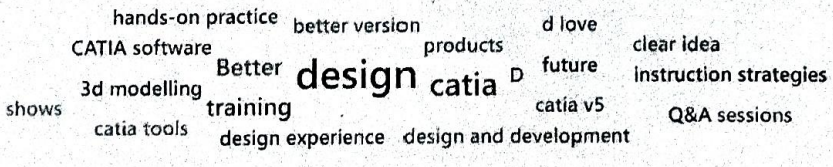


13. How do you hope to change your practice as a result of this training? (0 point)

25
Responses

Latest Responses
"Nothing"
"The training was realistic"
"Reading the diagram carefully to understand that how it looks in 3d"
...

5 respondents (20%) answered design for this question.

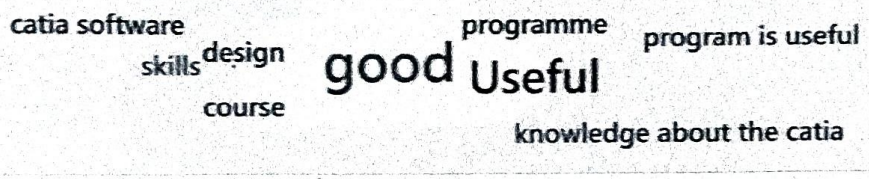


14. Please share over all comments about this programme. (0 point)

25
Responses

Latest Responses
"Good"
"The Value Added Course timing was quite long, running from 9:10 AM to 6:00 PM..."
"Good"
...

9 respondents (36%) answered good for this question.



15. Do you suggest this programme to your juniors (0 point)



All the question are more than 3 out of 4 & 96% of the students give positive feedback.

N. R.

05/05/2026

N. R. MADHAN

AP/CE

S. Thanga Kasi Rajan

(Dr. S. Thanga Kasi Rajan)