



DEPARTMENT OF MECHANICAL ENGINEERING

INDUCTION REPORT 2024-25

The Department of Mechanical Engineering conducted Student Induction program for the First year students (Batch 2024-2028) from 09.09.2024 to 20.09.2024. The Purpose of Student Induction Programme is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other students and faculty members.

OBJECTIVES OF PROGRAM

- To help the engineering entrants adjust and feel comfortable in the new academic milieu
- To furnish them with an ease of transition to mainstream engineering studies through the introduction of ethos and culture of the institution
- To help entrants build progressive and emotional bonds with peers and faculty members to self-explore and comprehend the larger purpose
- To develop awareness, sensitivity, and understanding of the self, people around them, society at large, and nature
- To promote holistic development through the exposure of wide gamut of curricular, co-curricular and extracurricular activities

LIST OF ACTIVITIES

1. Physical Activity
2. Creative Arts and Culture
3. Mentoring and Universal Human Values
4. Familiarization with College and Department
5. Literary Activity
6. Proficiency Modules
7. Lecture and Workshop by Eminent people
8. Visits to Local Area
9. Extra-Curricular Activities in College
10. Feedback and report on the program



DEPARTMENT OF MECHANICAL ENGINEERING

Students Induction Programme Schedule for the First year 2024-2028 as per the AICTE Guidelines:

Day	Time	Activities	Faculty Incharge	
Day 1 (9.9.24)	08.45 AM-9.35 AM	About the College and its facilities	Dr.A.A.Arivalagar & Dr.K.Velmurugan	
	9.35 AM-10.25 AM			
	10.25 AM – 11.15 AM			
	11.15 AM-11.35AM	Break		
	11.35 AM -12.25 PM	About the Department, Regulation, Curriculum Syllabi R 2023 & Examination system	Dr.G.G.Sozhamannan Dr.A.G.Ganeshkumar Dr.T.Coumaressin	
	12.25 PM – 1.15 PM			
	1.15 PM - 1.55 PM			
	1.55 PM – 02.45 PM	Lunch Break		
	2.45 PM -3.35 PM	Mentoring and UHV & Placement initiatives	Dr.K.Hemalatha Mr.M.Gunasekar	
	3.35 PM – 4.20 PM			
Day 2 (10.9.24)	08.45 AM-9.35 AM	Careers in Mechanical Engineering	Dr.A.G.Ganeshkumar Dr.A.Thiagarajan Dr.S.Jayabharathy Mr.M.Santhoshkumar	
	9.35 AM-10.25 AM	Careers in Mechanical Engineering		
	10.25 AM – 11.15 AM	Careers in Mechanical Engineering		
	11.15 AM-11.35AM	Break		
	11.35 AM -12.25 PM	Literary Activity-Team Building	Dr.L.Martin Mr.K.Navanitha Krishnan	
	12.25 PM – 1.15 PM	Literary Activity-Quiz ,Debate and Role play		
	1.15 PM - 1.55 PM	Lunch Break		
	1.55 PM – 02.45 PM	English - Introduction to Communication Skills	Dr.D.Jaichithra	

	2.45 PM -3.35 PM	English - Synonyms, Antonyms	&
	03.35 PM – 4.20 PM	English- Tense	Mr.A.Antonie Prasad
Day 3 (11.9.24)	08.45 AM-9.35 AM	C Programming-Features of C and its basic structures constants, variable and operator	Mrs. Vasuki,MCA
	9.35 AM-10.25 AM	C Programming- Data type, formatted input and output	
	10.25 AM – 11.15 AM	C Programming-Control statements	
	11.15 AM-11.35AM	Break	
	11.35 AM -12.25 PM		
	12.25 PM – 1.15 PM	Universal Human Values-Introduction ,getting to know each other	Dr.R.Ravishankar
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Universal Human Values- Aspiration & Concern	Dr.R.Ravishankar
	2.45 PM -3.35 PM	Physical Activity	Mr.B.R.Vengatesan (Physical Director)
	03.35 PM – 4.20 PM		
Day 4 (12.9.24)	08.45 AM-9.35 AM	Maths-Applications in Engineering	Dr.T.Gayathri & Mr.Rajesh
	9.35 AM-10.25 AM	Maths- Differentiation	
	10.25 AM – 11.15 AM	Maths-Partial Differentiation	
	11.15 AM-11.35AM	Break	
	11.35 AM -12.25 PM	English-Extempore	Mr.A.Antonie Prasad
	12.25 PM – 1.15 PM	English-Homophone, use of preposition	
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	C Programming- Looping statement	Mrs. Vasuki,MCA
	2.45 PM -3.35 PM	C Programming-Array	
	03.35 PM – 4.20 PM	C Programming-Array	
Day 5 (13.9.24)	8.45 AM - 4.20 PM	Visit in Local Industries	Mr. A.Jeyachandiran Mr.M.Gunasekar & Mr.G.Harish

Day 6 (14.9.24)	08.45 AM–9.35 AM	(2 wheeler,4 wheeler trouble shooting/Electronics trouble shooting/Drone)	Dr. A.Thiagarajan & Mr.Prakash Kumar
	9.35 AM-10.25 AM		
	10.25 AM – 11.15 AM		
	11.15 AM–11.35AM	Break	
	11.35 AM -12.25 PM	(2 wheeler,4 wheeler trouble shooting/Electronics trouble shooting/Drone)	Dr. A.Thiagarajan & Mr.Prakash Kumar
	12.25 PM – 1.15 PM		
	1.15 PM - 1.55 PM	Lunch	
	1.55 PM – 02.45 PM	Lecture by Industrial expert	Mr.A.Jeyachandiran Dr.K.Hemalatha Mr.K.Navanitha Krishnan
	2.45 PM -3.35 PM		
	03.35 PM – 4.20 PM		
Day 7 (16.9.24)	08.45 AM–9.35 AM	Maths-Integration	
	9.35 AM-10.25 AM	Maths-Definite Integrals and properties of Integration	
	10.25 AM – 11.15 AM	Maths- Limits and Continuity	
	11.15 AM–11.35AM	Break	
	11.35 AM -12.25 PM	Universal Human Values-Expectation from Famil, peers and society, nation and Goal fixing	Dr.D.Karunakaran
	12.25 PM – 1.15 PM	Universal Human Values- Time management, Anger and stress	
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Creative Arts –Painting and Renowned artworks Creative Arts - Painting and Renowned artworks	Mrs.Geetha, Physics & Mr.Ragavendra, BArch
	2.45 PM -3.35 PM		
	03.35 PM – 4.20 PM		
Day 8 (17.9.24)	08.45 AM–9.35 AM	Material Physics	
	9.35 AM-10.25 AM		
	10.25 AM – 11.15 AM		
	11.15 AM–11.35AM	Break	

	11.35 AM -12.25 PM	Tamil –Literary Activity	Assistant Professor/Tamil
	12.25 PM – 1.15 PM	Tamil–Literary Activity	
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Physical Activity	Mr.B.R.Vengatesan (Physical Director)
	2.45 PM -3.35 PM		
	03.35 PM - 4.20 PM		
Day 9 (18.9.24)	08.45 AM–9.35 AM	Tamil –Literary Activity	Assistant Professor/Tamil
	9.35 AM-10.25 AM	Tamil–Literary Activity	
	10.25 AM – 11.15 AM	Tamil –Literary Activity	
	11.15 AM–11.35AM	Break	
	11.35 AM -12.25 PM	Workshop	Dr.E.Manikandan
	12.25 PM – 1.15 PM	(2 wheeler,4 wheeler trouble shooting/Electronics trouble shooting/Drone)	Mr.R.Ravishankar
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Hands-on-training - Additive Manufacturing	Dr.P.Jayakumar Dr.L.Martin Mr.R.Hemanthkumar
	2.45 PM -3.35 PM		
	03.35 PM – 4.20 PM		
Day10 (19.9.24)	08.45 AM–9.35 AM	Universal Human Values- Natural Environment	Dr.S.Jayabahrathy
	9.35 AM-10.25 AM	Universal Human Values- Role of Education	
	10.25 AM – 11.15 AM	Universal Human Values- Self-evaluation and closure /feedback	
	11.15 AM–11.35AM	Break	
	11.35 AM -12.25 PM	English- Prognostic test	Mr.A.Antonie Prasad
	12.25 PM – 1.15 PM	English- Prognostic test	
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Extra curricular activities	Dr.P.Jayakumar &Mr.Prakash Kumar
	2.45 PM -3.35 PM		
	03.35 PM - 4.20 PM		
Day 11	08.45 AM–9.35 AM	Creative Arts –Music-Vocal Instrument,	Mr. A.Giriprasath/

(20.9.24)	9.35 AM-10.25 AM	Creative Arts - Music-Vocal Instrument	Mr.R.Hemanth kumar
	10.25 AM – 11.15 AM	Creative Arts - Music-Vocal Instrument	
	11.15 AM–11.35AM	Break	
	11.35 AM -12.25 PM	Creative Arts - Dance	Mr. A.Giriprasath/ Mr.R.Hemanth kumar
	12.25 PM – 1.15 PM	Creative Arts - Dance	
	1.15 PM - 1.55 PM	Lunch Break	
	1.55 PM – 02.45 PM	Creative Arts - Mimicry and Mime	Dr.P.Jayakumar &Mr. Prakash Kumar
	2.45 PM -3.35 PM	Creative Arts - Mimicry and Mime	
	03.35 PM - 4.20 PM	Students Feedback	

DAY 1



Dean Academic Dr.A.A.Arivalagar, Dean R&D Dr.K.Velmurugan and HOD Dr.G.G.Cholamannan, addressed the students about the College and Department.



Senior students addressing the Freshers

DAY 2

Date/Day/ Time : Day 2 / 10.9.2024/ Forenoon
Title: Careers in Mechanical Engineering
Name: Dr.A.G.Ganeshkumar, Dr.A.Thiagarajan
Department: Mechanical Engineering
Number of students attended: 84
Outcome : Identify the diverse career opportunities available within the field of mechanical engineering, including core sectors, interdisciplinary fields, and emerging technologies. Understand the required skill sets, qualifications, and professional certifications necessary for various roles in mechanical engineering industries. Analyze industry trends and technological advancements to make informed decisions regarding career planning and specialization.



Dr.A.G.Ganeshkumar, Deputy Controller of Examination addressing the students about the career opportunities in Mechanical Engineering



Dr.A.Thiagarajan, addressing the students about the career opportunities in Mechanical Engineering

Date/Day/ Time : Day 3 / 11.9.2024/ Forenoon
Title: C-Programming
Name: Mr.K.Ramakrishnan
Department: Department of MCA
Number of students attended: 84
Outcome: 1. Understand the fundamentals of C programming, including data types, operators, and control structures. 2. Develop modular programs using functions, recursion, and parameter passing techniques. 3. Apply arrays, strings, and pointers effectively to solve problems and manage memory. 4. Implement and manipulate user-defined data types such as structures and unions for real-world applications. 5. Demonstrate proficiency in file handling and dynamic memory allocation in C.

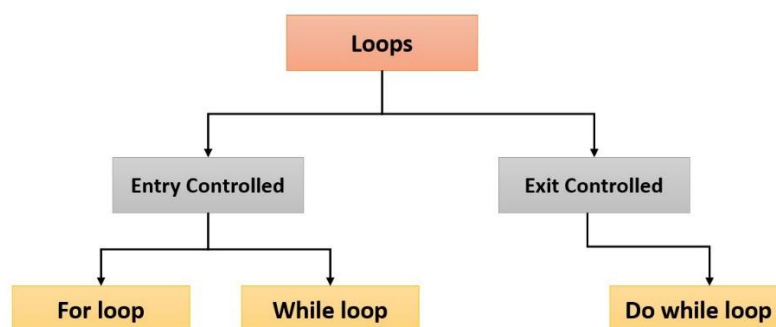
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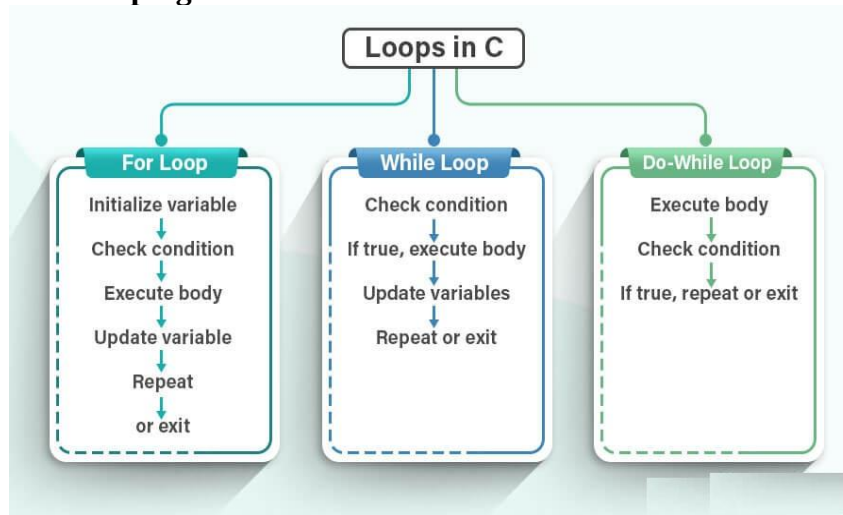
Mr.Ramakrishnan, Professor & Headm MCA addressing on Programming languages

Content of the topic covered:

- Looping Statements:



- **Types of Looping Statements:**



- **Array:**

Definition

- An array is a data structure which stores homogeneous(similar) data items.
- An array variable is used to store more than one data item of same data type at contiguous memory locations.

- **Types of Array:**

TYPES OF ARRAYS

1. ONE DIMENSIONAL ARRAYS
2. TWO DIMENSIONAL ARRAYS
3. MULTI DIMENSIONAL ARRAYS

It is simplest type of array . Indices starts with 0.

An array must be defined before it can be used to store information . Ex.

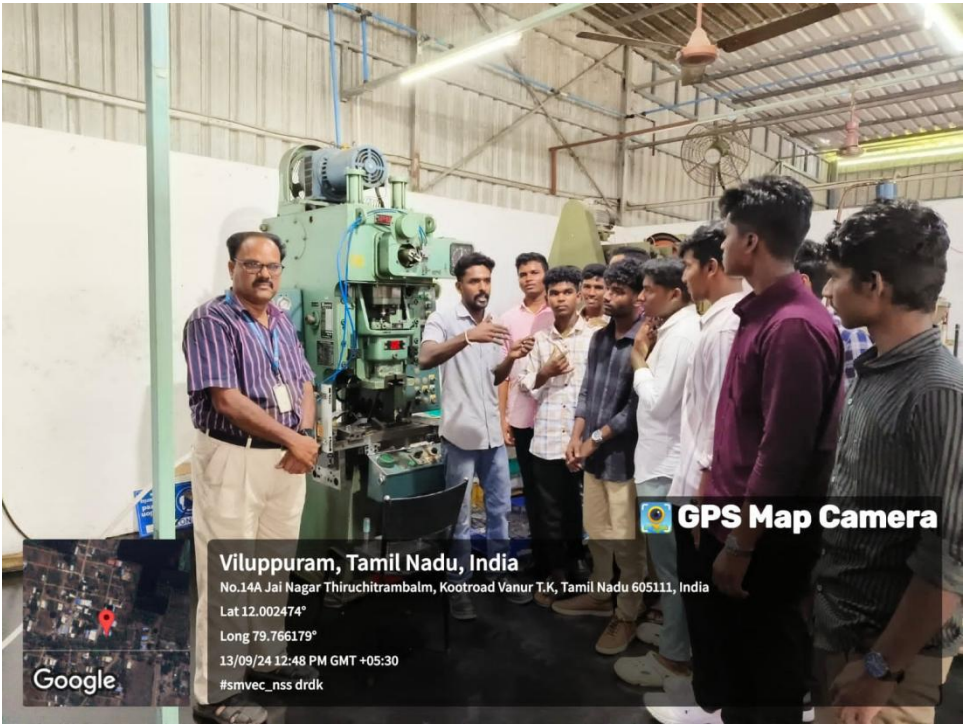
Type array-name[size]

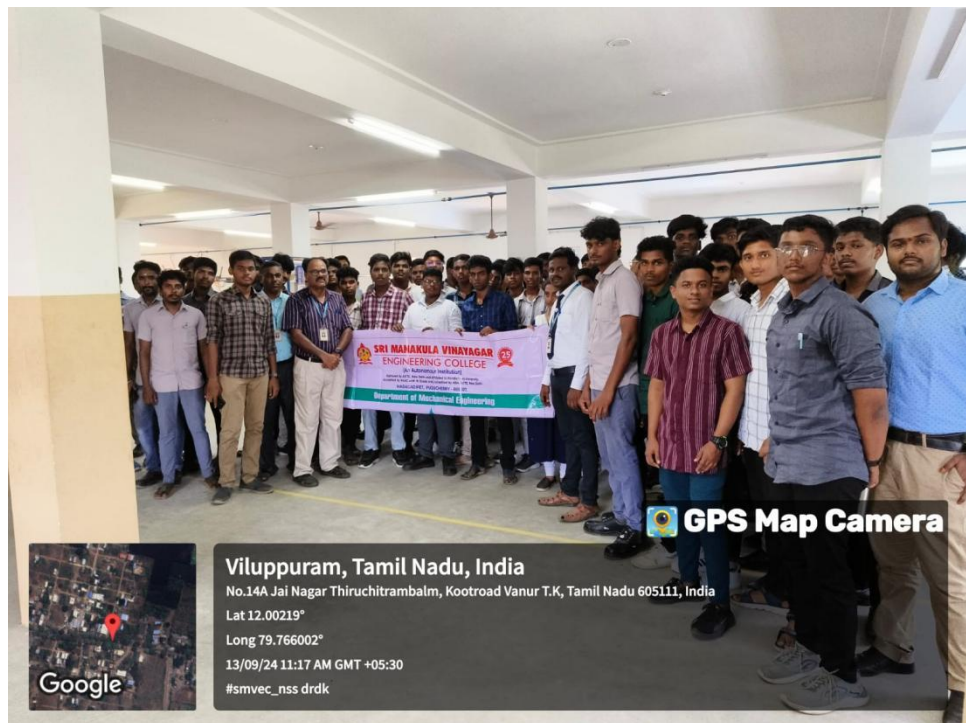
The data type of array elements is known as the base type of the array.

 LATHA CS TUTOR

Date/Day/ Time : Day 4 / 12.9.2024
Title: Application of Mathematics in Engineering
Name: Mr.Rajesh, AP
Department: Department of Mathematics
Number of students attended: 84
Content of the topic covered: *Content & PPT i) Differentiation Basic concept introduced ii) Differentiation formula's Explained iii) Application of differentiation in real life iv) Mathematical puzzle game conducted
Outcome: • Apply differential calculus in engineering analysis. • Solve engineering problems using linear algebra. • Use probability and statistics for quality control. • Apply transforms (like Laplace or Fourier) for signal/system analysis.
 Mr.Rajesh, AP, Maths explaining the application of Maths in Engineering

Day 5

Date/Day/ Time :	Day 5 / 13.9.2024
Name of the Department/School	Mechanical Engineering
Name of the Event	Industrial Visit
Number of Participants	84
Poster of the Event /Description of the Recourse person	Abirami Enterprises Plot no.158, perumal nagar, Agasampattu, vanur, Tamil Nadu-605111
Geo tagged Photos with caption (4 photos)	 GPS Map Camera Viluppuram, Tamil Nadu, India No.14A Jai Nagar Thiruchitrambalm, Kootroad Vanur T.K, Tamil Nadu 605111, India Lat 12.002474° Long 79.766179° 13/09/24 12:48 PM GMT +05:30 #smvec_nss drdk

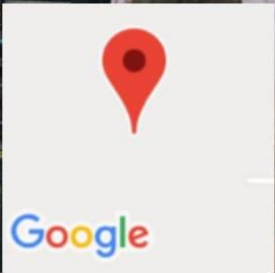


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Date/Day/ Time : Day 6 & Day 9/ 14.9.2024 & 18.9.2024
Title: Workshop 2 wheeler and 4 wheeler troubleshooting
Name: Dr.A.Thiagarajan, Dr.R.Ravishankar & Mr.K.Prakashkumar
Department: Department of Mechanical Engineering
Number of students attended: 84
Content of the topic covered: • Basics of IC Engines (2-stroke & 4-stroke) • Vehicle classifications and components
Outcome: • Understand vehicle architecture and functioning • Analyze and fix engine-related faults • Handle drive-train-related problems

null, Puducherry, India

WJ7P+H3Q, Madagadipet, Puducherry 605106, India

Long 79.635248°

Lat 11.913977°

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Date/Day/ Time : Day 7, 16/9/23

Title: Differentiation , partial differentiation , Application of differentiation , Basic formulas and problem solved

Name: Dr.T.Gayathri

Department: Mathematics

Number of students attended: 84

Topics covered:

- i) Differentiation Basic concept introduced
- ii) Differentiation formula's Explained
- iii) Application of differentiation in real life
- iv) Mathematical puzzle game conducted

Outcome:

- Understand the concept of limits and derivatives.
- Apply rules of differentiation (power, product, quotient, chain rule).
- Differentiate algebraic, trigonometric, exponential, and logarithmic functions.
- Analyze the rate of change of functions and curves.



Date/Day/ Time : Day 7, 16/9/23 , Afternoon session

Title: Universal Human Values

Name: Mr.R.Ravishankar, Assocaite Professor

Department: Mechanical Engineering

Number of students attended: 84

Topics covered:

- Introduction to Value Education
- Self-Exploration
- Harmony in the Human Being
- Harmony in Family

Outcome:

- Understand the need, basic guidelines, content, and process for value education.
- Self-explore to understand oneself and the purpose of life.
- Develop sensitivity towards harmony in human relationships.
- Understand and appreciate harmony in nature and existence



Date/Day/ Time: Day 8 / 18.09.2024

Title: Creative Arts – Mimicry and Mime

Name: Dr. Martin L

Department: Mechanical Engineering

Number of students attended: 84

Photo :



Content of the topic covered: *Content & PPT

It's important to note that while both mime and mimic involve imitation, they are not interchangeable. Mime is a specific form of performance art, while mimicry can refer to any kind of imitation.

Mime is a form of performance art where the performer communicates through body language and facial expressions without using words. This art form originated in ancient Greece and has been popularized in modern times through the work of famous mimes like Marcel Marceau and Charlie Chaplin. The mime artist uses exaggerated gestures and movements to tell a story or convey emotions. Mime performances often include the use of props and costumes to enhance the visual impact of the performance.

Mimicry is the ability to imitate the speech, mannerisms, or actions of another person or animal. Mimicry can be used as a form of entertainment or as a means of survival in the animal kingdom. Mimicry is often used in comedy to impersonate famous people or to create humorous situations. The art of mimicry requires a keen sense of observation and the ability to replicate the nuances of the subject being mimicked. A skilled mimic can mimic a wide range of voices and accents, as well as physical mannerisms and facial expressions.

Date/Day/ Time :18-9-2024, Afternoon
Title: Creative Arts -Dance
Name:Dr.M.Elangovan & Mr. A. Griprasath
Department:Mechanical Engineering
Number of students attended:84
Purpose of conducting the event:
Incorporating creative art forms like dance into an induction program at a college can be a fantastic way to engage and welcome new students. The goal is to create an inclusive and enjoyable atmosphere that helps students feel welcome and excited about their college experience. This can help build a sense of community and provide a platform for students to express themselves. . College can be stressful, so consider offering relaxation sessions with dance to help students unwind and manage stress.




STUDENTS INDUCTION PROGRAMME REPORT

Date/Day/ Time: Day 9, 19.09.2024
Title: Creative Arts – Painting and Renowned Artworks
Name: Mr.A.Giriprasath
Department: Mechanical Engineering
Number of students attended: 84

Photo :



Content of the topic covered: *Content & PPT

Painting, the expression of ideas and emotions, with the creation of certain aesthetic qualities, in a two-dimensional visual language. The elements of this language—its shapes, lines, colours, tones, and textures—are used in various ways to produce sensations of volume, space, movement, and light on a flat surface. These elements are combined into expressive patterns in order to represent real or supernatural phenomena, to interpret a narrative theme, or to create wholly abstract visual relationships. An artist's decision to use a particular medium, such as tempera, fresco, oil, acrylic, water colour or other water-based paints, ink, gouache, encaustic, or casein, as well as the choice of a particular form, such as mural, easel, panel, miniature, manuscript illumination, scroll, screen or fan, panorama, or any of a variety of modern forms, is based on the sensuous qualities and the expressive possibilities and limitations of those options. The choices of the medium and the form, as well as the artist's own technique, combine to realize a unique visual image.

It is conferred upon a renowned artist whose work constitutes a significant contribution to the artistic legacy of the world.

Date/Day/ Time : Day 10 / 20-09-2024

Title: Workshop on 3D design and modeling

Name: 3D printing club

Department: Mechanical Engineering

Number of students attended: 84

Photo :



Content of the topic covered: *Content & PPT

- ❖ Introduction of 3D and 3D printing
- ❖ Concepts of 3D
- ❖ 3D modeling with clay
- ❖ Size, Resolution, Thickness, Orientation Of Material
- ❖ Choice Of Material



DEPARTMENT OF MECHANICAL ENGINEERING

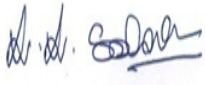
STUDENTS NAME LIST ATTENDED INDUCTION PROGRAM

Sl. No.	Enroll no	Name
1.	240108	ABDUL HAKKIM H
2.	240071	ADHITHAN R
3.	240372	ARULANANTHAM S
4.	240658	BAAVANA S
5.	240910	BALAENDRA D
6.	240112	DARRIN PEDRO JULIAN LOBO
7.	240109	DEEPAKRAJ G
8.	241641	DHANRAJ S
9.	240052	DHEENADHAYALAN T
10.	240235	DIVAKAR V
11.	241680	EASHWAR A
12.	240514	EZHILARASAN G
13.	240036	HEMACHANDAR V
14.	240047	JEEVANANDHAM S
15.	240216	JEEVANANTHAN R
16.	241830	KAILASH M
17.	240983	KAMALESH V
18.	241860	KEVIN GEORGIO L
19.	240630	KISHORE R
20.	241634	KISHORE S

21.	240830	MANO S
22.	241700	MOGANA SHYAM M
23.	241596	MOHAMED FADHIL M
24.	241310	MOHAN RAM P
25.	240100	MUKESH V
26.	240180	NAMBIRAJAN D
27.	240721	NIRMALRAJ R
28.	241560	PRASANNA N
29.	240333	PREMKUMAR M
30.	240182	RAJESH M
31.	241071	SABARINATHAN A
32.	241709	SAIVIJAY S
33.	241345	SANJAI A
34.	240196	SANTHOSH P
35.	240081	SARAN SAI L
36.	241048	SATHRISH M
37.	240167	SIVABARATH S
38.	240266	SIVAKOZHUNDHU N
39.	240895	UDAYARAJ S
40.	240103	VIGNESH D
41.	240256	YESVANTH YADHAV E
42.	241801	YUVARAJ K
43.	240232	AHILAN S
44.	241929	AJAY V
45.	240102	ARUNACHALAM K
46.	240169	BARATH P
47.	240285	CHANDRU M
48.	240242	DHARANIDHARAN S

49.	240490	DHARUN R
50.	240200	DHINESH KARTHIK B
51.	240356	DHIYANESWAR R
52.	240056	DILIPKUMAR S
53.	240340	GEETHAN RAJ S
54.	241727	GEORGE
55.	241851	GOKULAN M
56.	240105	JEEVAGANAPATHI T
57.	241246	JOHNROBIN BERKMANS J S
58.	240149	KARTHICKARASAN M
59.	241658	KISHORE P
60.	240139	LOGANATHAN A
61.	240068	MANISH N
62.	241279	MOHAMED SAMEER M
63.	240550	MURALIDHARAN G
64.	241274	NARASIMMARAJ K
65.	241180	NARESH R
66.	241386	NITHIN R
67.	240120	PUVANESH S
68.	241797	RAGHUL S
69.	241523	RAHUL M
70.	241644	RATHISH R
71.	241660	RITHIK J
72.	240221	RITHIK RAGHAV S
73.	240845	ROSHANRAM R
74.	240148	SANDHEESH K
75.	240209	SHUBIN S
76.	240089	SIVARAM. S

77.	240023	SUKESH V B
78.	240315	SUMIRSUN K
79.	240104	THAMIZH S
80.	241112	VASANTHAN S
81.	240328	VIGNESH M
82.	240803	VISHVA V
83.	240413	VISVA P
84.	240300	YOGASH R



HOD



Dean (R&D)



Director cum Principal