



**2.3.1 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences**

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Placement Cell &lt;placement@msajce-edu.in&gt;

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**Permission for Industrial Visit - Reg**

2 messages

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Placement Officer <placement@msajce-edu.in>  
To: "chyrasm@gmail.com" <chyrasm@gmail.com>

Tue, Feb 20, 2024 at 2:18 PM

In accordance with the curriculum of our institution (**Mohamed Sathak AJ College of Engineering, Chennai**) Industrial Visits are arranged to expose our students to recent trends in their field of study. In view of the above, we request you to permit 120 Second Year students in two batches [60+ 60] to visit your "The Cheyyar Co-OrSugar Mills Ltd" preferably in **February 2024**, so we request you to grant us permission for the same.

With Thanks & Regards,  
Vigneshwaran V  
Placement Officer,  
Department of Training and Placement,  
Mohamed Sathak AJ College of Engineering,  
7904117425  
MSAJCE WEBLINK

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

---

Placement Officer <placement@msajce-edu.in>  
To: "chyrasm@gmail.com" <chyrasm@gmail.com>

Tue, Feb 20, 2024 at 2:39 PM

In accordance with the curriculum of our institution (**Mohamed Sathak AJ College of Engineering, Chennai**) Industrial Visits are arranged to expose our students to recent trends in their field of study.

In view of the above,

1. We request you to permit 24 Mechanical students on 22/02/2024 they will join along with our ece students.
2. we request you to permit 120 Second Year students in two batches [60+ 60] to visit your "The Cheyyar Co-OrSugar Mills Ltd" preferably in **March 2024**, so we request you to grant us permission for the same and do the needful.

Looking forward for your positive reply.

With Thanks & Regards,  
Vigneshwaran V  
Placement Officer,  
Department of Training and Placement,  
Mohamed Sathak AJ College of Engineering,  
7904117425  
MSAJCE WEBLINK

[Quoted text hidden]

Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai-603103

Date: 20.02.2024

From,

Head of the department  
Department of Electronics and Communication Engineering  
Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai-603103

To,

The Principal,  
Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai-603103

*Permitted as per norms*  
*[Signature]*  
*20.02.24*

Sir,

*[Signature]*

**PRINCIPAL**

Sub: Permission for Industrial Visit-regarding

Mohamed Sathak A.J. College of Engineering  
No. 34, Rajiv Gandhi Salai (O.M.R)  
Siruseri - IT Highway Egattur  
Chennai - 603103.

We kindly request you to grant permission for the III Year Students of Electronics and Communication Engineering to attend the industrial visit to Cheyyar Sugar Mills Ltd, Cheyyar, Tamilnadu on 22.02.2024. Kindly permit to use the college transport facility for the same.

Thanking You,

*[Signature]*  
Yours Sincerely 20/02/24



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



IV-1

From

20/02/2024

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

Submitted to the Chairman sir for the necessary approval.  
Wshani 20/2/24

Respected Sir,

Sub: Request for Students to Visit an Industrial Site - Reg.

We have scheduled an industrial visit for our third year ECE and Mechanical students to The Cheyyar-Co-Op-sugar-mills Ltd, Anakkavoor, Thenthandalam on 22.02.2024. In this regard we request you to kindly provide the food for Hostel students (15) and sanction the fund for the visit.

Sl.No	Description	Amount (Rs)
1.	Transport 250 kms (Up & Down) 80 Liters Diesel	7600
2.	Toll Gate	500
3.	Driver Beta	500
Total		8600

Among this amount, in total 32 Students paid the training fee may be adjusted for this purpose. Balance amount will be collect from the students and deposit into the college account.

Thank you for your time and consideration.

Yours Sincerely,

Head / Training and Placement

Copy to:

Chairman,  
IQAC.

Total no of students = 37 (ECE) + 24 (Mech.)  
= 57 students  
- 32  
-----  
25 students x 200/-

Amnt will collect from the student before the visit } = 5000/-

Enclosure: Budget - Training copy -



## DEPARTMENT OF ECE

### III YEAR NAMELIST

IV 22.2.2024

S.no	Reg. No.	Name of the Students	HOSTEL/DAYSCHOLAR	Att
1	311821106001	Abdul Baasit.A	Hostel	/
2	311821106002	Abinaya V	PG	/
3	311821106003	Anish Kumar K	Dayscholar	/
4	311821106004	Ariharan	Dayscholar	/
5	311821106005	Asma Fathima F T	Dayscholar	/
6	311821106006	Bhavani H	Dayscholar	/
7	311821106007	Chithra S	Dayscholar	/
8	311821106008	Dhinesh C	PG	/
9	311821106009	Gajendiran R	Dayscholar	/
10	311821106010	Gopi K	Dayscholar	/
11	311821106011	Haaristhameem Ansari	Dayscholar	/
12	311821106012	Halith Umar R	Dayscholar	/
13	311821106013	Humaira Nusrath	Dayscholar	/
14	311821106014	Jayasudhan J	Hostel	/
15	311821106015	Kishore D	PG	/
16	311821106016	Maheswaran R	Dayscholar	/
17	311821106017	Majithul Hikkum	PG	/
18	311821106019	Mohamed Yahya N I	Hostel	/
19	311821106020	Mohammed Aathif M	Hostel	/
20	311821106021	Mohammed Ibrahim	Dayscholar	/
21	311821106024	Nandhini K	Hostel	/
22	311821106025	Pavithra S	PG	/
23	311821106027	Safia Farheen Z R	Dayscholar	/
24	311821106028	Sanjay V	Dayscholar	/
25	311821106031	Sowndharya G	Dayscholar	/
26	311821106032	Suhail K	Dayscholar	/
27	311821106033	Surya T	Dayscholar	/
28	311821106034	Suvan Kumar R	Dayscholar	/
29	311821106035	Syed Afrid I	Dayscholar	/
30	311821106036	Venkatesh S	Dayscholar	/
31	311821106302	Dhinesh K N	Dayscholar	/
32	311821106303	Karthikeyan S	Dayscholar	/
33	311821106304	Sahulhameed T	Dayscholar	/

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**REPORT ON INDUSTRIAL VISIT**

Department of Training and Placement

Name of the Industry	Cheyar Sugar Mills Ltd
Date of Visit	22.02.2024
Contact Person	Mr.Marimuthu
Target Audience and No of Students Participated	9159356623

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for third year Mechanical Engineering and Electronics and communication Engineering Students on 22.02.2024 to Cheyyar Sugar Mills Ltd. 55 Students along with three faculties were started from MSAJCE Campus at 9.00 a.m by our college bus and they reached cheyyar sugar mills around 11.30 a.m.

**Benefit and Knowledge Gained:**

An industrial visit to Cheyyar Sugar Mills Ltd can offer several benefits and opportunities for gaining knowledge, especially for students or professionals in fields related to sugar production, agriculture, engineering, or business. Here are some potential benefits and knowledge gained from such a visit:

**Practical Understanding:** Participants can gain a practical understanding of the processes involved in sugar production, from harvesting sugarcane to the final refining stages. Seeing the machinery and equipment in action provides insights that cannot be gained from textbooks alone.

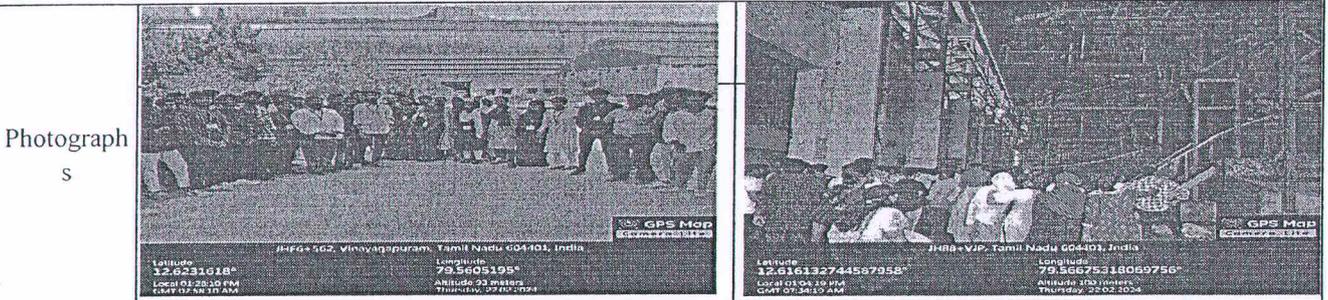
**Process Knowledge:** Visitors can learn about the various stages of sugar production, including crushing, clarification, evaporation, crystallization, and drying. They can observe how each stage contributes to the overall process of converting sugarcane into sugar.

**Technology and Equipment:** The visit allows participants to see the advanced technology and equipment used in modern sugar mills. They can learn about the latest innovations and best practices in the industry, including machinery for harvesting, processing, and packaging sugar.

**Environmental and Sustainability Practices:** Many sugar mills are adopting environmentally sustainable practices to reduce waste, conserve resources, and minimize environmental impact. Visitors can learn about these initiatives and how they contribute to sustainability in the sugar industry.

**Supply Chain Management:** Understanding the supply chain dynamics of the sugar industry is crucial for professionals in related fields. Visitors can learn about the sourcing of raw materials, transportation logistics, inventory management, and distribution channels involved in the sugar production and distribution process.

**Career Opportunities:** For students, an industrial visit provides exposure to potential career opportunities in the sugar industry. They can learn about the various roles and career paths available, including opportunities in engineering, operations, quality assurance, management, and research and development.



- Supporting Document Required :
1. Communication letters
  2. Students Report
  3. Photo

Faculty In-charge  
(LITHORAN.KUMAR)  
Format no.: PLA 11

Rev.No: 1.0

Sign of the HoD with date  
TPC

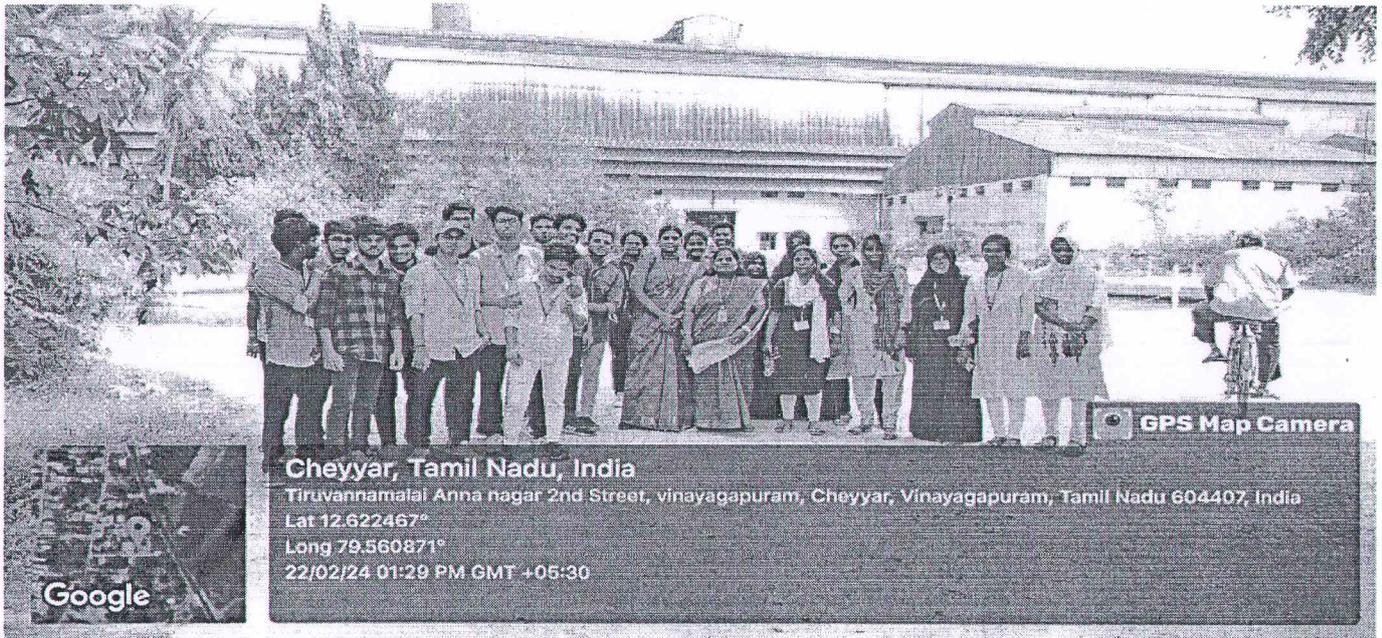
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**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

# Industrial Visit

22.02.2024

## Cheyyar Sugar Coop Sugar Mills Ltd



*[Handwritten signature in green ink]*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Handwritten signature]*

*[Handwritten signature]*  
HOD

# Industrial Visit Report - Cheyyar Sugar Mill Plant

Date: 22nd February 2024

## Introduction:

On 22nd February 2024, third-year students from Mohamed Sathak A J College of Engineering undertook an industrial visit to the Cheyyar Sugar Mill Plant. The purpose of the visit was to gain practical insights into the sugar manufacturing process and understand the operational aspects of a sugar mill.

## Objective:

1. To comprehend the various stages of sugar production.
2. To observe and analyze the machinery and equipment used in the sugar mill.
3. To understand the environmental and safety measures implemented in the plant.

## Overview of Cheyyar Sugar Mill Plant:

The Cheyyar Sugar Mill Plant is a well-established facility known for its advanced technology and sustainable practices in sugar production. The plant is equipped with modern machinery to ensure efficient and high-quality sugar manufacturing.

## Key Observations:

### 1. \*\*Cane Processing:\*\*

- Witnessed the initial stages of sugar production, including cane crushing and juice extraction.
- Learned about the different types of sugarcane varieties processed at the mill.

### 2. \*\*Sugar Refining Process:\*\*

- Explored the refining process, where the extracted juice undergoes clarification and crystallization.
- Understand the centrifugal separation method used in sugar crystal formation.

### 3. \*\*Boiling and Drying:\*\*



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sector - IT Highway Egattur,  
Chennai - 603103.

- Observed the boiling process to concentrate the sugar solution.
- Learned about the drying process to obtain sugar crystals.

4. **\*\*Packaging and Distribution:\*\***

- Explored the packaging unit and witnessed the final stages of sugar production.
- Discussed the logistics and distribution strategies for the finished sugar products.

5. **\*\*Machinery and Technology:\*\***

- Examined the state-of-the-art machinery used in various stages of sugar production.
- Interacted with the plant engineers to understand the technology employed for efficiency.

6. **\*\*Environmental and Safety Measures:\*\***

- Emphasized the plant's commitment to environmental sustainability.
- Discussed safety protocols and measures implemented in the plant.

**Conclusion:**

The industrial visit to Cheyyar Sugar Mill Plant provided valuable insights into the intricate processes involved in sugar production. The students gained practical knowledge about the advanced technology and sustainable practices adopted by the mill. This visit served as an enriching experience, bridging the gap between theoretical knowledge and real-world applications.

**Acknowledgments:**

We express our gratitude to the management and staff of Cheyyar Sugar Mill Plant for their warm hospitality and informative guidance during our visit.

**DHANUSH ADITHYA S**

Mohamed Sathak A J College of Engineering,

3rd Year Mechanical Department



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

EXTERNAL EVENT\* PARTICIPATION

Department	MECHANICAL & ECE	Academic Year	2023-24
Year / Semester	III / VI	Date (s) of Event	1.
Total strength of the class	24 + 37	No. of Students Participating	
Departure time	9.00 AM.	Arrival time	4.00 PM.

Name of the Organization / Location with Address	Cheyyar Co-op-Sugar Mills Ltd.
Contact person	Mr. Marimuthu
Contact email ID & Phone number	9159356623
Accompanying staff	Mr. Rajesh
Designation	Asst. Professor.
Contact number	
Transport required if any	Yes.
Pickup point & Time	MSAJCE & 9.00 .A.M.
Food required if any (For Hostellers)	Yes.
Budget required	8600.

Enclosure:

Documents	YES/NO
Permission Letter	yes
Students Name List	yes.
Detail of Scheduled visit	yes.
Reservation Details/Tickets	-
Boarding & Lodging Details	-
Consent form - From Parent's & Student	

*[Handwritten Signature]*

**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp

*[Handwritten Signature]*  
 Sign of the Coordinator  
 (U. THARANIKUMAR)

*[Handwritten Signature]*  
 Sign of the HoD / Head Student Affairs with date  
 TPC

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1.	Mr. J. Rajesh	Asst. E. Mech.	8610330141	-	J.R. 22.02.2024

*J. Rajesh*  
23/02/24  
TPC

Sign of the HoD with date

Approved / Not Approved

*[Signature]*

*[Signature]*  
22/02/2024  
Head-Student Affairs  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.

Format No.: PLA 12

Rev.No.: 01

Rev.Date: 04.01.21

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai-603103

Date: 11-12-2023

From

Head of the Department  
Department of Electronics and Communication Engineering,  
Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai – 603 103.

To

~~The Principal,~~  
Mohamed Sathak AJ College of Engineering  
Siruseri, Chennai – 603 103.

Permitted

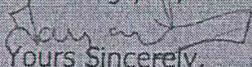
  
11/12/23

Sir,

**Sub: Permission for Industrial Visit** – regarding

We kindly request you to grant permission for the II year students, Department of Electronics and Communication Engineering to attend the Industrial Visit to The BSNL, Meenampakkam, Chennai on 13.12.2023. Kindly permit to use the college transport facility for the same.

Thanking you,

  
Yours Sincerely,



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No. 34, Rajiv Gandhi Salai (OMR)  
Siruseri - IT Highway Egattur,  
Chennai - 603103.

Q in: sent

X

● Active

?



Industrial Visit reg

External

Inbox x



Mr. M. Kamarajan [m.kamarajan@bsnl-educ.edu.in](mailto:m.kamarajan@bsnl-educ.edu.in)  
to [rgmmttc@bsnl.com](mailto:rgmmttc@bsnl.com)

To

Ms. Nandhini Madam JTO  
BSNL, Chennai

Our students are interested to visit your organization

If possible kindly allot a date 13.12.2023

Total no of Students 53/ECE

RGS

M Kamarajan AP/ECE  
Mohamed Sathak AJ College of Engineering  
Chennai  
9790971664

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - Highway Egattur,  
Chennai - 603103.



PRO RGM TTC

Thanks for choosing BSNL for Industrial visit. As per your request mail we are pleased to offer industrial visits for your students on 13.12.2023 - 53 students



PRO RGM TTC

to me  
Respected Sir/Madam



1	Nibal S	ECE II Year	Nibal S
2	Nilofar Nisha A	ECE II Year	Nilofar Nisha A
3	Nityash E	ECE II Year	Nityash E
4	Praveen M	ECE II Year	Praveen M
5	Praveen Kumar S	ECE II Year	Praveen Kumar S
6	Priya M	ECE II Year	Priya M
7	Reshma S	ECE II Year	Reshma S
8	Riyas K	ECE II Year	Riyas K
9	Sam Moses	ECE II Year	Sam Moses
10	Sanjay Kumar P	ECE II Year	Sanjay Kumar P
11	Santhosh Raja R	ECE II Year	Santhosh Raja R
12	Sathish Kumar J	ECE II Year	Sathish Kumar J
13	Shajahan E	ECE II Year	E SHAJAHAN
14	Hasan Fazil Ansari S	ECE II Year	Hasan Fazil Ansari S
15	Siraj Basha	ECE II Year	Siraj Basha
16	Mohammed Sabir S	ECE II Year	Mohammed Sabir S
17	Somamah Faisal A	ECE II Year	Somamah Faisal A
18	Vasanth Kumar E	ECE II Year	Vasanth Kumar E
19	Vishwa R	ECE II Year	Vishwa R
20	Yeshwanth M	ECE II Year	Yeshwanth M
21	Yuvaal S	ECE II Year	Yuvaal S
22	Ashwin Theophilus Jaison E	ECE II Year	Ashwin Theophilus Jaison E
23	Hariharasudhan N	ECE II Year	Hariharasudhan N
24	Madhavan C D	ECE II Year	Madhavan C D

26 M Hanish Adithya

ECE II Year

M Hanish Adithya

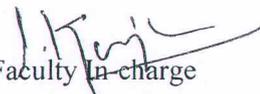
**PRINCIPAL**  
 Mohamed Sathak A. J. College of Engineering  
 No 34, Rajiv Gandhi Salai (OMR)  
 Sipool - IT Highway Egattur,  
 Chennai - 603103.

REPORT ON INDUSTRIAL VISIT

Department of ..Electronics...and..Communication...Engg

Name of the Industry	BSNL, Meenambakkam
Date of Visit	13.12.2023
Contact Person	MS. Nandhini, JE
Target Audience and No of Students Participated	II Year ECE Students,
Brief note about the Visit / Curriculum gap addressed :	
<p>Department organized visit to BSNL, ON 13.12.2023. A theoretical session and practical session was conducted. Then students are divided into two groups and they taught about services, facilities and Lab facility available. Students were visited switching Lab, transmission room, power supply distribution room, and different types of cables. MDF facility and demonstration of call establishment also done.</p>	
Benefit and Knowledge Gained :	
<p>The students are gained a knowledge of how switching happened and communication taking place. Also gained industry environment.</p> <p>This visit is useful for the students better understanding the real life functioning of telecommunication and switching.</p>	
Relevance with Academic : Yes	
 <b>PRINCIPAL</b> Mohamed Sathak A.J. College of Engineering No.34, Rajiv Gandhi Salai (OMR) Sipcot - IT Highway Egattur, Chennai - 603103.	

Supporting Document Required : 1. Communication letters  
2. Students Report  
3. Photo

  
Faculty In-charge

  
Sign of the HoD with date



**Report on Industrial Visit**

<b>Department:</b>	ECE
<b>Type of Event:</b>	Industrial Visit
<b>Event Title:</b>	Industrial Visit
<b>Date &amp; Time:</b>	13.12.2023
<b>Venue / Mode</b>	BSNL , Meenambakkam, Chennai
<b>Organizer:</b>	Department of ECE MSAJCE
<b>Coordinator(s)</b>	Mr.M.Kamarajan ,AP/ECE : Dr.Sivarnjani,AP/ECE
<b>Details of Participants:</b>	II year ECE Students, No of students -43

**Write-up on Event**

**Objective: To create an awareness among the students regarding practical experiences about mobile communication and different types of lab setup for communication**

RGMTTC is one of the Apex Training Center of BSNL, The strength of RGM TTC lies in its rich and sprawling campus, robust material infrastructure, and. Well qualified, trained and experienced trainer to impart knowledge & skill.

The labs available at RGMTTC includes

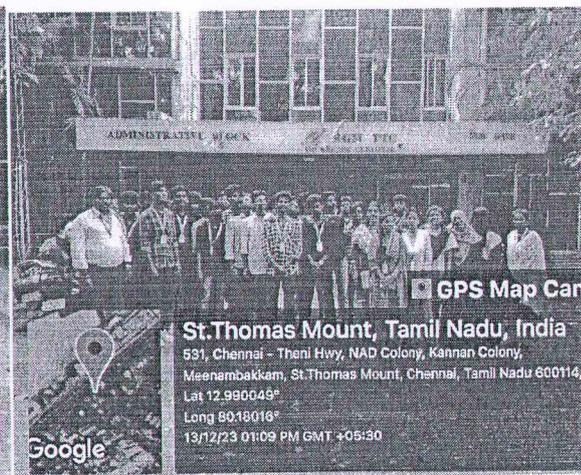
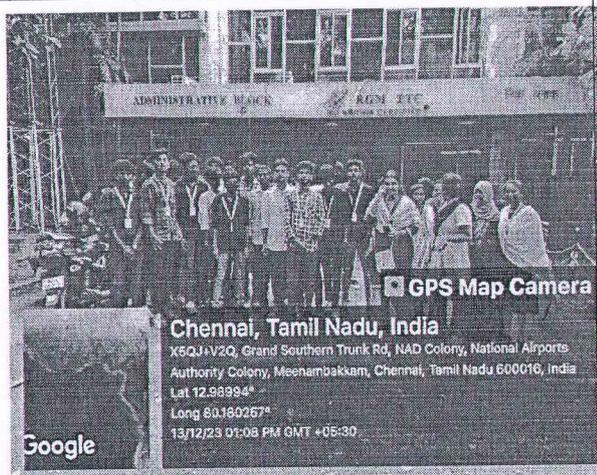
- Mobile
- Optical Fiber Lab
- FTTH with OLT, ONT with FUSION SPLICER
- SDH and DWDM
- Computer Networking, • Broadband & Multiplay

Students are visited broadband lab. Switching lab, Power supply section, Fiber lab, Training session and theoretical knowledge also taught in the first session

The visit is useful for the students better understanding the real life functioning of telecommunication and switching.

**PRINCIPAL**

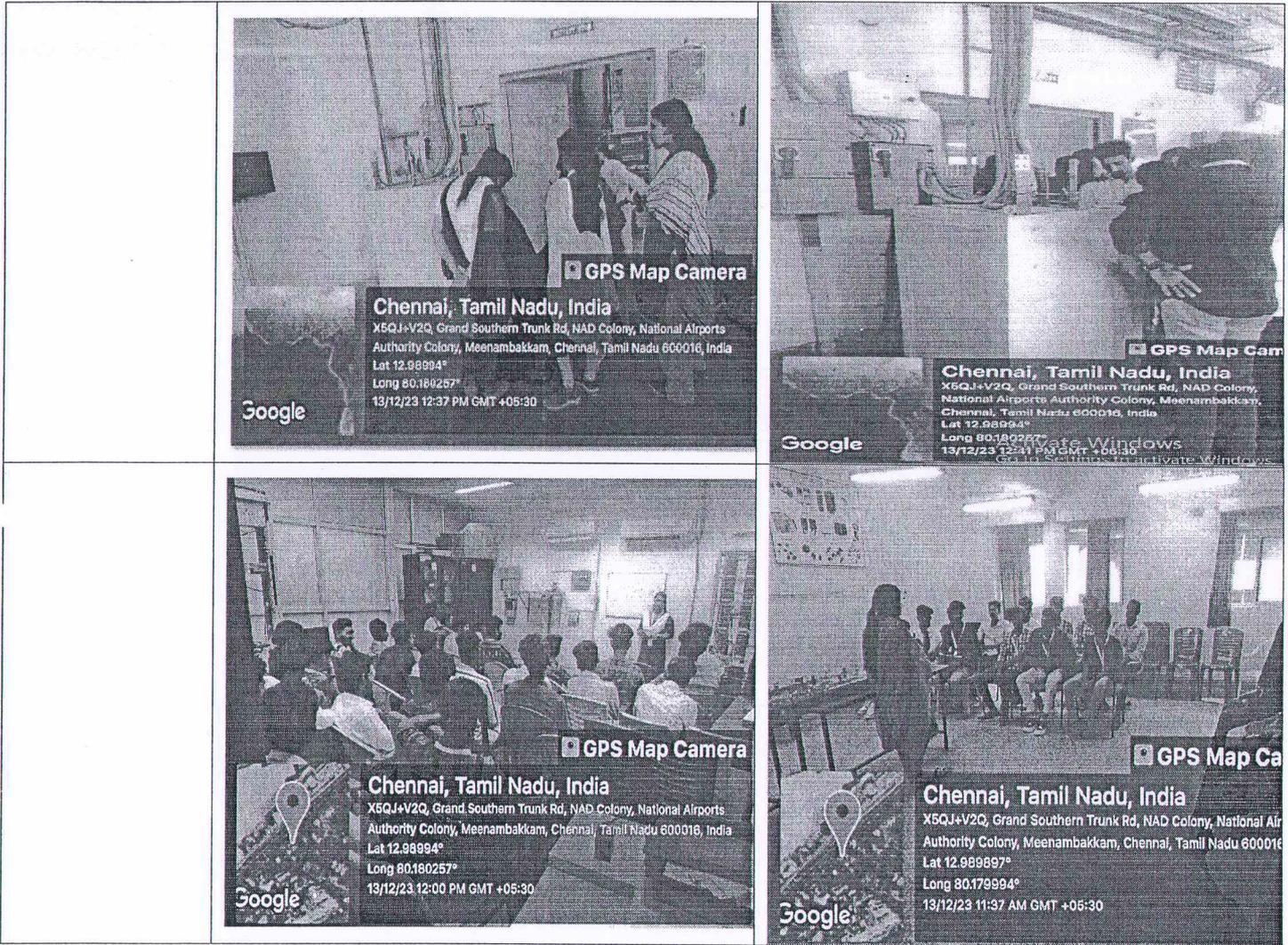
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (Old),  
Sipcot - IT Highway Egattur,  
Chennai - 603103.





# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Prepared By

*M. Kamarajan* 2. *G. Liji*

Signature:

Name & Designation:

M.Kamarajan, AP

Date:

14.12.2023

*Jayaram*  
Approved by

*M. Sathak*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**INDUSTRIAL VISIT -REPORT**

**BSNL, MEENAMBAKKAM-13.12.2023**

The Department of ECE organized an industrial visit to BSNL Meenambakkam, Chennai. This visit was held on 13<sup>th</sup> December, 2023 for the class of B.E ECE students. A theoretical session took place which was conducted by the Principal, BSNL. The first session continued for 1 Hour 30 Minutes. Then we were divided into groups of two and each group was taught about different modules namely Switch Room, Transmission Network Room and MDF (Main Distribution Frame) Room, Broadband lab. The industrial visit got over by 2:30 pm followed by a group photo session in the end.

**DETAILS:**

The first theoretical session was conducted for 1 Hour 30 Minutes. Junior Engineer Madam and her team mate gave a general introduction of the services provided by BSNL. Also given a details of various lab facility available in the training centre.

- Switching Lab
- FTTH with OLT, ONT with FUSION SPLICER
- SDH and DWDM
- Computer Networking
- Broadband & Multiplay

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

A telephone exchange consists of 3 functional blocks: Switch room, MDF (Main Distribution Frames) Room, and Transmission Network room.

**Switching lab consists** of digital electronic switches which guides the user to the destination by identifying a physical communication path. This identification is done with the help of logical or directory numbers.

**MDF Room:** All subscriber lines are terminated at the end of MDF. It consists of front (line) end and a back (switch) end which are interconnected with the help of a jumper. A safety point is created in MDF to avoid any damages caused due to faults at the customer end. The jumper of an MDF consists of gas discharge tubes which eliminates the faults.



**Transmission Network room:** The main function of transmission room is the interconnection of 2 exchanges within or outside the town. It involves optical fiber communication. Voice signals are first identified. Pulse Code Modulation of voice signals are carried out along with digitization. Voice signals of frequency 0-4 KHz are converted to 64Kbps

Also given a job opportunity in BSNL and advised to take exam

For the next session students were divided into two groups and were taken for industrial exposure. Each group was exposed to switching, transmission and MDF (Main Distribution Frame) units of a telephone exchange and power distribution room.

**In switching module,** students learnt on practical aspects of call making and receiving. They were thought on how to create the calling number and how to check the dial tone

**In transmission module,** students were briefed about OFC communication and its uses, advantages, applications. The students were shown the real cables and its working procedure.

**In the MDF module,** students learnt about the requirement of main distribution frame. They were briefed about line side and exchange side of MDF. The students were shown the functioning parts of distribution unit.

### CONCLUSION:

The session conducted were very useful and gave the students the exposure as to how the industry works. The students were benefited with the technical terms and the knowledge of lab facilities and how a call setup is made using Landline telephone.

The visit very useful for the students

Submitted By

1. Nilofer Nisha

2. Nithya Sri.E

3. N. Hariharasudhan

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON INDUSTRIAL VISIT

Department: ECE

Academic Year: 2023-2024

Name of the Student	Nithya Nishu
Year/Sem	II / III
Name of the Guest	-
Name of the Institution/ University/ Industry/R&D Organization	BSNL, Chennai
Event	
Date of Event	13-12-2023
Was the session Useful?	Yes
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject ? If yes mention the subject	Yes
Brief Summary/Report of the topic	We visited BSNL training centre and also different Lab setups Cables etc
General Remarks	Y. good

Format No: FB 01

Rev. No : 1.0

Signature of Student  
Rev. Date : 04.01.21

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From  
Department of Training and Placement  
MSAJCE  
Chennai  
To  
The Principal  
MSAJCE  
Chennai  
Respected Sir,

To Mr. Gafoor for n/a  
/s/ Jm  
28/11/23

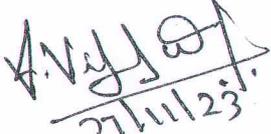
As we have planned to organise Industrial Visit for the second year students to Lenovo India Pvt. Ltd Puducherry and Integral Coach Factory Chennai, in this regard we need our college bus for the transportation and food for the Hostel Students, So kindly grant us permission for the same. The details of the Visit is listed below in the table.

Date	Branch	Industry	No. of Students	No. of Hostel Students
08.12.23	Civil, CSBS, EEE, Mechanical	Integral Coach Factory Chennai	43	23
11.12.23	Information Technology	Lenovo India Pvt. Ltd	50	18
12.12.23	Electronics & Communication Engineering	Integral Coach Factory Chennai	45	15
13.12.23	Computer Science Engineering	Lenovo India Pvt. Ltd	50	22
15.12.23	AIDS, IT & CSE	Lenovo India Pvt. Ltd	49	15

Thank You

27.11.2023

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

  
27/11/23  
Head Training and Placement

Head - Placement  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From  
Vigneshwaran V  
Head / Training and Placement  
MSAJCE

To  
The Principal  
MSAJCE

*Permitted*  
*[Signature]*  
24/11/23

Respected Sir,  
Sub: Request for Industrial Visit- Reg.

As we have organised an Industrial visit for the second year students to the Lenovo India Pvt. Ltd Puducherry and Integral Coach Factory Chennai, in this regard we need your permission for the same. Students batch details for the Industrial Visit is listed below in the table,

Date	Branch	Industry	No. of Students
08.12.23	Civil, CSBS, EEE, Mechanical.	Integral Coach Factory Chennai	43
11.12.23	Information Technology	Lenovo India Pvt. Ltd	50
12.12.23	Electronics & Communication Engineering	Integral Coach Factory Chennai	45
13.12.23	Computer Science Engineering	Lenovo India Pvt. Ltd	50
15.12.23	AIDS, I T & CSE	Lenovo India Pvt. Ltd	49

Thank You

Chennai  
24-11-2023

*[Signature]*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Signature]*  
24/11/23  
(Vigneshwaran V)  
Head Training and Placement

Head - Placement  
Mohamed Sathak A.J. College of Engineering  
Shanmuganagar IT Park, Chennai - 603 103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



14.12.2023

From

Department of Training & Placement

MSAJCE

To

The Principal

MSAJCE

Respected Sir,

no any other permission

Permitted  
14/12/23

✓

Sub: Permission for Industrial Visit and Transportation- Reg

As we have planned to organise an Industrial Visit to Integral Coach Factory Chennai on 19.12.2023, for the Second year Civil, EEE, Mechanical, CSBS & First Year Civil, EEE, ECE, Mechanical. In this regard we need your permission to use the college bus for transportation and to arrange food for the hostel students (52 Students). Kindly do the needful.

Thank You

Yours faithfully

Head Training and Placement

Head - Placement  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From

08.11.2023

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

*Permitted*  
*A*  
*08/11/23*

*TD*  
*Approved*  
*08/11/23*

Respected Sir,

Sub: Request for Industrial Visit – Reg.

As we have organised an Industrial visit for the first year students of Information Technology (48) and Computer Science and Business System (12) on 21.11.2023 to Integral Coach Factory Chennai, so we require Bus for the transportation and food for the Hostel Students (39 Students), so kindly do the needful.

Thanking you

Yours Sincerely

*ANJAL*  
*08/11/23*

Head Training and Placement

*[Signature]*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Recognized under UGC 12B & 2f Act



Ref. No.: MSAJCE / TPC / 001/ 2023-24

Date: 27.11.2023

From

The Principal,

MSAJCE,

Chennai.

To

The Director

Chennai Rail Museum,

Chennai.

Respected Sir/Mam,

Sub: Requisition of Industrial Visit for our college students- reg

As per the curriculum of Anna University Industrial Visit is the one of mandatory requirement to fulfil the curriculum to expose the students to know recent trends in their field of study. In view of the above, we request you to permit our students to visit your reputed organization. The student's batch details are given below,

08.12.2023 (43 Students + 2 Faculty members)

12.12.2023 (45 Students + 2 Faculty members)

Kindly do the needful.

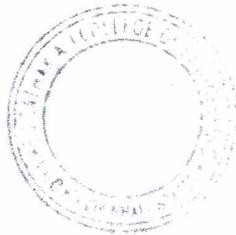
Thanks with regards

*Mohamed Sathak*  
27/11/23

*Mohamed Sathak*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Mohmaed Sathak AJ College of Engineering, Chennai

Department of Training and Placement

Academic Year 2023-2024

Industrial Visit to Chennai Rail Museum

Students of Name list

S.NO	ROLL NO	NAME	Dept
1	311822105001	M.Harishadhitya	EEE
2	311822105002	A.Mohamed Halith	EEE
3	311822105003	A.Mohamed Haris	EEE
4	311822105004	B.Mohamed Subair	EEE
5	311822105005	J Mohamed Suhail	EEE
6	311822105007	M A Umar Faruk	EEE
7	311822105301	Mohamed Jaffar M	EEE
8	311822105302	Mohamed Nadeem M	EEE
9	311822103001	Kamalesh J	CIVIL
10	311822103002	Mohamed Niyas A	CIVIL
11	311822103003	Rahman Khan R	CIVIL
12	311822103004	Syed Masthan S A	CIVIL
13	311822114001	K.ABDUL RAHUMAN	MECHANICAL
14	311822114002	AHAMED SUHAIB A	MECHANICAL
15	311822114007	BUHARI NAVEETH.M	MECHANICAL
16	311822114008	DINESH KUMAR.S	MECHANICAL
17	311822114009	FAISAL .M	MECHANICAL
18	311822114013	MOHAMED IRFAN.J	MECHANICAL
19	311822114014	MOHAMMED SARHAN. K	MECHANICAL
20	311822114015	MOHAMED UBAIS. J	MECHANICAL
21	311822114017	MOHANA SUNDARESHWAR.A	MECHANICAL
22	311822114019	G.SULTHAN MASHUD	MECHANICAL
23	311822114022	NIYAZ AHAMED. M	MECHANICAL
24	311822114301	MANOHAR.C	MECHANICAL
25	311822114302	MOHAMED AATHIF.R	MECHANICAL
26	311822244001	Abu jabbar Mubarak.H	CSBS
27	311822244003	Akeef Hussain.A	CSBS
28	311822244005	Bhuvaneshwari.K	CSBS
29	311822244006	Idrees.M	CSBS
30	311822244008	Karpoor Mohammed Hammed	CSBS
31	311822244009	Madhava Ram .	CSBS
32	311822244010	Mohamed Abdul Kalam .N	CSBS
33	311822244011	Mohamed Aslam .A	CSBS
34	311822244012	Mohamed Ibrahim.S	CSBS
35	311822244014	Mohamed Irfak.J	CSBS
36	311822244015	Mohamed Fazil.M.H	CSBS
37	311822244016	Prasanna.G	CSBS
38	311822244017	Praveen.J	CSBS
39	311822244018	Raseen.M	CSBS
40	311822244020	Sharon Gifty	CSBS

Head - Placement  
Mohamed Sathak A.J. College of Engineering  
Sriperumbudur Chennai - 603102.

Handwritten signature and date: 27/11/23

**Mohmaed Sathak AJ College of Engineering, Chennai**

**Department of Training and Placement**

**Academic Year 2023-2024**

**Industrial Visit to Integral Coach Factory Chennai**

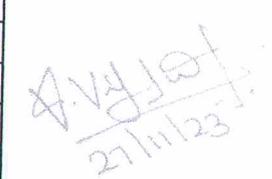
**Students of Name list- ECE**

S.No	Reg No	Name of Student
1	311822106001	Elamathi.A
2	311822106002	Ahmed Suhail.B
3	311822106003	AjasAhamed.F
4	311822106004	Barath.B
5	311822106006	Bharanidaran.I
6	311822106007	Dhanush.S
7	311822106008	GurushithpriyanV
8	311822106009	Iniyaa.J
9	311822106010	Jagadeeswar
10	311822106011	JeroseAshiyar.J
11	311822106012	Karan Raj.R
12	311822106013	Karthik .S
13	311822106014	Kavin.M
14	311822106015	MithileshVinayak.K
15	311822106016	Mohamed AlifFazil.K
16	311822106017	Mohamed AshbakParvesh
17	311822106018	Mohamed Rafeek.K
18	311822106019	Mohamed Sajith.S
19	311822106020	Mohamed Thoufiq.S
20	311822106021	Mohammed Raiyan Hussain
21	311822106022	NarenKumar.N
22	311822106023	Nihal.F
23	311822106024	NilofarNisha.A
24	311822106025	Nityasri.E
25	311822106026	Praveen.M
26	311822106027	Praveen Kumar.S
27	311822106028	Priya.M
28	311822106029	Reshma.S
29	311822106031	Riyas.K
30	311822106033	Sam Moses
31	311822106034	Sanjay kumar.P
32	311822106035	Santhosh Raja.R
33	311822106036	SathishKumar.J
34	311822106037	Shajahan.E
35	311822106038	Hasan FazilAnsari.S
36	311822106039	SirajBasha
37	311822106040	Mohammed Sabir.S
38	311822106041	SomamahFaisal.A
39	311822106042	Vasanthakumar.E
40	311822106043	Vishwa.R
41	311822106044	Yeshwanth.
42	311822106045	Yuvaraj.S



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

  
27/11/23

**Head - Placement**

Mohamed Sathak A.J. College of Engineering

Shreehan II Park, Chennai - 603 103.



# MOHAMED SATHAK

## A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Recognized under UGC 12B & 2f Act



Ref. No.: MSAJCE / TPC / 001/ 2023-24

Date: 28.10.2023

From

The Principal,

MSAJCE,

Chennai.

To

The Director

Chennai Rail Museum,

Chennai.

Respected Sir/Mam,

Sub: Requisition of Industrial Visit for our college students- reg

As per the curriculum of Anna University Industrial Visit is the one of mandatory requirement to fulfil the curriculum to expose the students to know recent trends in their field of study. In view of the above, we request you to permit our students to visit your reputed organization.

The student's batch details are given below,

10.11.2023 (60 Students + 2 Faculty members)

21.11.2023 (60 Students + 2 Faculty members)

Kindly do the needful.

Thanks with regards

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



No:34, Rajiv Gandhi Road (OMR), IT Highway, Siruseri IT Park, Chennai - 603 103.



044-2747 0024



99400 04500



principal@msajce-edu.in



www.msajce-edu.in

**MSAJCE**

Mohmaed Sathak AJ College of Engineering, Chennai			
Department of Training and Placement			
Academic Year 2023-2024			
Industrial Visit to Integral Coach Factory			
Students Name List - Batch I (Date of Visit - 10.11.2023)			
S.NO	ROLL NO	NAME	Dept
1	23CSE01	ABDUL AZEEZ JAILANI. M	CSE
2	23CSE02	ABDUR RAHMAN.S	CSE
3	23CSE03	ABU BAKKAR SIDDIQ. A	CSE
4	23CSE04	AHAMED RAIYAN. S	CSE
5	23CSE05	AHMED UVAIZ S.M	CSE
6	23CSE06	AYYAPPAN.J	CSE
7	23CSE07	AKARAM ZUBAIR. Y	CSE
8	23CSE08	ALLU GANESH	CSE
9	23CSE09	AMEER SHAHITH.M	CSE
10	23CSE10	ANANDHAN. V	CSE
11	23CSE11	ASIF ALI.S	CSE
12	23CSE12	DHIKSHITHA. R	CSE
13	23CSE13	FAISAL YUSUF. M	CSE
14	23CSE14	HANURAM P.R	CSE
15	23CSE15	JAFFER SIDDIQUI. N	CSE
16	23CSE16	JYOTSANA PRIYA G.S	CSE
17	23CSE17	KALAIYARASAN. K	CSE
18	23CSE18	KASHIBA JEHANE. K	CSE
19	23CSE19	KISHORE. P	CSE
20	23CSE20	LAVANYA M.L	CSE
21	23CSE21	MADHAN RAJ. K	CSE
22	23CSE22	MOHAMED AAKIL SIHAB..S	CSE
23	23CSE23	MOHAMED ANAS	CSE
24	23CSE24	MOHAMED ANSARI. N	CSE
25	23CSE25	MOHAMMED ISMAIL. M	CSE

PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Handwritten Signature]*  
28/10/23

PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

26	23CSE26	MOHAMED KASIM SULTHAN. M	CSE
27	23CSE27	MOHAMED MUNTHASIR	CSE
28	23CSE28	MOHAMMED NABES. H	CSE
29	23CSE29	MOHAMED THAKA.M	CSE
30	23CSE30	MOHAMED UAWAIS. A	CSE
31	23CSE31	MOHAMED YASEEN. M	CSE
32	23CSE32	MOHAMMED SHAFIQ YUSUF.S	CSE
33	23CSE33	MOHAMMED SHAYAAN AARIZ	CSE
34	23CSE34	MOHAMMED YUSUF HUSSAIN.S	CSE
35	23CSE35	MOHAMMED ZAIYAAN.T	CSE
36	23CSE36	MUKILAN. M	CSE
37	23CSE37	NAVANEETHAKRISHNAN. A	CSE
38	23CSE38	NIVETHA. V	CSE
39	23CSE39	PARTHIBAN. A	CSE
40	23CSE40	PRADEEPAN. F	CSE
41	23CSE41	PRAGATHA. M	CSE
42	23CSE42	RAAFIYA SULTANA. A	CSE
43	23CSE43	RASMEEN HASANA	CSE
44	23CSE44	REYHAN. S	CSE
45	23CSE45	SALMAN KHAN. M	CSE
46	23CSE46	SANTHOSH. G	CSE
47	23CSE47	SHAHID AHMED.S	CSE
48	23CSE48	SHARMINI.S	CSE
49	23CSE49	SHIVAM VISHWAKARMA.S	CSE
50	23CSE50	SIKKANDER BASHA AASIF	CSE
51	23CSE51	SORNAVELAN. B	CSE
52	23CSE52	THAHA MAHMOODHA. A	CSE
53	23CSE53	THIRUNAVUKKARASU.S	CSE
54	23CSE55	VIJAY. V	CSE
55	23CSE56	YOGESH. C	CSE
56	23CSBS14	MOHAMED FARHAN OLIP	CSBS
57	23CSBS15	MOHAMED ISMAIL. R	CSBS
58	23CSBS16	MOHAMED KASIM K.A	CSBS
59	23CSBS17	MUHAMMAD SAABIQ KADER. J	CSBS
60	23CSBS18	PRIYADHARSHINI.S	CSBS
61	23CSBS19	SRUTHI.S	CSBS

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engin  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur.  
Chennai - 603103.

FACULTY CO-ORDINATORS			
S.NO	Dept	Name	Mobile Number
1	Science & Humanities	DR. S. AMUTHA	9787062240
2	Science & Humanities	MR. S. SIVAPRAKASH	6381389923



A handwritten signature in green ink, appearing to be "S. Sivaprakash".

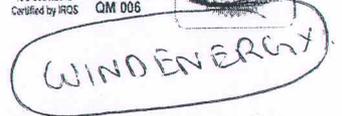
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From

08.11.2023

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

*Permitted*  
*[Signature]*  
*08/11/23*

*To*  
*Pras / Dharmar*  
*[Signature]*

Respected Sir,

Sub: Request for Industrial Visit – Reg.

As we have organised an Industrial visit for the first year students of Artificial Intelligence and Data Science (31) and Cyber Security (22) on 16.11.2023 to National Institute of Wind Energy Chennai, so we require Bus for the transportation and food for the Hostel Students (26 Students), so kindly do the needful.

Thanking you

Yours Sincerely

*[Signature]*  
*08/11/23*  
Head Training and Placement

*[Signature]*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



नीवे NIWE  
(ISO 9001:2008)

# NATIONAL INSTITUTE OF WIND ENERGY

An Autonomous Research and Development Institution

Ministry of New and Renewable Energy, Government of India

Velachery – Tambaram Main Road, Pallikaranai, Chennai – 600 100, Tamil Nadu

Phone: +91-44-2246 3982, 2246 3983, 2246 3984 Fax: +91-44-2246 3980

E-mail: info.niwe@nic.in Web: http://niwe.res.in

## Application Form for Student visit

Name of the Institution / College / School : Mohamed Sathak A J College of Engineering

Address : 34, Rajiv Gandhi Road, IT Highway, Siruseri  
IT SIPCOT, Chennai 603103

GST Number : Nil

Department / Stream : B.Tech AIDS & Cyber Security

Year of Study : First Year

No. of Students : Boys: 44 Girls: 09  
(List of Students should be attached)

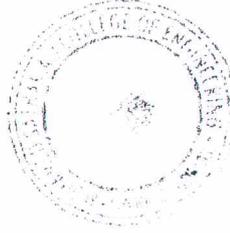
Name of Coordinating Staff & Mobile No : Mr. S. Sivaprakash / 6381389923  
Mrs. K. Sai Priya/ 9790852066

E-mail ID : placement@msajce-edu.in

Date of Visit : 14.11.2023

**Payment Details**  
NEFT Transfer – Rs.11,800/- only : UTR No: 330847654372  
From Account No: 7289556489

Amount  **Rs.10,000/-** +18 % GST  
(for College students)



Signature of Head / Principal

## For office use only

Application Form received on :  
Application No. :  
Date of visit :  
No. of students visited :  
No. of staff visited :

*[Handwritten Signature]*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Signature

Mohmaed Sathak AJ College of Engineering, Chennai

Department of Training and Placement

Academic Year 2023-2024

Industrial Visit to National Institutue of Wind Energy

Students of Name list

S.NO	ROLL NO	NAME	Dept
1	23AIDS01	AAMIR AHAMED. G	AI&DS
2	23AIDS02	ABINESHWARI. K	AI&DS
3	23AIDS03	DINAKARAN. P	AI&DS
4	23AIDS04	DIVYA DHARSHINI.S	AI&DS
5	23AIDS05	FAHADUR RAHMAN. J	AI&DS
6	23AIDS06	HAFIL AHAMED. B	AI&DS
7	23AIDS07	IRSHAD AHMED. N	AI&DS
8	23AIDS08	KAVIN.D	AI&DS
9	23AIDS09	MOHAMED FADIL. A.R	AI&DS
10	23AIDS10	MOHAMED FARSHAN. A	AI&DS
11	23AIDS11	MOHAMED FOUZ SULAIMAN	AI&DS
12	23AIDS12	MOHAMED MASOOD BASHA. S	AI&DS
13	23AIDS13	MOHAMED RAYYAN B	AI&DS
14	23AIDS14	MOHAMED UKKAS. M	AI&DS
15	23AIDS15	MOHAMMED AFSAR. A	AI&DS
16	23AIDS16	MOHAMMED AMMAR. F	AI&DS
17	23AIDS17	MOHAMMED SUHAIL HUSSAIN. S	AI&DS
18	23AIDS18	NIYAS AHMED. N	AI&DS
19	23AIDS19	RAJ KUMAR. V	AI&DS
20	23AIDS20	RAMYA. R	AI&DS
21	23AIDS21	SAHIBUL MIGFAR. M	AI&DS
22	23AIDS22	SAJJAD. K	AI&DS
23	23AIDS23	SALEEMULLAH. S	AI&DS
24	23AIDS24	SAMIKSHA. B	AI&DS
25	23AIDS25	SANDHIYA. S	AI&DS
26	23AIDS26	SAQLIN MUSTAQ. M	AI&DS
27	23AIDS27	SHAREEN NISHAN	AI&DS

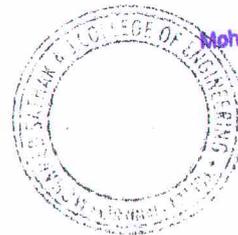
PRINCIPAL  
Mohmaed Sathak A. J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 605 003.



28	23AIDS28	SHYAM.S	AI&DS
29	23AIDS29	SIVAVADIVEL.S	AI&DS
30	23AIDS30	SYED MUHAMMED JUNAID ANWAR	AI&DS
31	23AIDS31	TAAHA. M	AI&DS
32	23CYS01	AKSHAY.V	CYBER SECURITY
33	23CYS02	ANSAR NISHA. W	CYBER SECURITY
34	23CYS04	ESTHER. E	CYBER SECURITY
35	23CYS05	HAJEER AHAMED IMAM ALI	CYBER SECURITY
36	23CYS06	JANNATHUL FIRTHOUSE	CYBER SECURITY
37	23CYS07	JOSHUA. S	CYBER SECURITY
38	23CYS08	MADHU MEENA. R	CYBER SECURITY
39	23CYS09	MAHTHIR MOHAMED .S	CYBER SECURITY
40	23CYS10	MOHAMED ANAS.A	CYBER SECURITY
41	23CYS11	MOHAMED ASIF RASOOL . H	CYBER SECURITY
42	23CYS12	MOHAMED FAYAZ M.A	CYBER SECURITY
43	23CYS13	MOHAMED SHAHITH	CYBER SECURITY
44	23CYS14	MOHAMED.T	CYBER SECURITY
45	23CYS15	MOHAMMED SADIQ ALI. R	CYBER SECURITY
46	23CYS16	MUHAMMAD FAREED.M	CYBER SECURITY
47	23CYS17	NAVADHARSHAN. K	CYBER SECURITY
48	23CYS18	PRAVAV. S	CYBER SECURITY
49	23CYS19	SASIDHARAN.R	CYBER SECURITY
50	23CYS20	SHARUKESH.E	CYBER SECURITY
51	23CYS21	SRI GANESH.A	CYBER SECURITY
52	23CYS22	SUBHASRI. R	CYBER SECURITY
53	23CYS23	SYED SAMEER.S	CYBER SECURITY

**FACULTY CO-ORDINATORS**

S.No	NAME	MOBILE NUMBER
1	MR. S. SIVAPRAKASH	6381389923
2	MRS. K. SAI PRIYA	9790852066



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 No.34, Rajy Gandhi Salaj (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103

041123



Placement Cell <placement@msajce-edu.in>

**Re: Permission for Industrial Visit - 16.11.2023 - Reg**

PS to DH SDT <itcs@niwe.res.in>

To: placement@msajce-edu.in

Cc: "Dr. P. Kanagavel" <pkanagavel@niwe.res.in>, National Training <ntraining@niwe.res.in>, Shri M R Gunasekaran <gunasekaran@niwe.res.in>, "Shri. R. Girirajan" <girirajan@niwe.res.in>, ADMINISTRATION <admn@niwe.res.in>

Tue, Nov 7, 2023 at 11:53 AM

Dear Shri Vigneshwaran,

With reference to the trailing mail, it is informed that the student visit has been approved by the Competent Authority and you may visit on **16.11.2023 from 10.30 am to 01.00 pm.**

With best regards

Dr. P. Kanagavel

**Dr. P. KANAGAVEL / डॉ. पी. कनगवेल**

Director & Head Skill Development and Training (SDT) Division

निदेशक एवं मुख्य - कौशल विकास और प्रशिक्षण प्रभाग

National Institute of Wind Energy (NIWE)

राष्ट्रीय पवन ऊर्जा संस्थान

Ministry of New and Renewable Energy, Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार

Velachery - Tambaram Main Road

वेलाचैरी - ताम्बरम मुख्य मार्ग

Pallikaranai, Chennai - 600 100

पल्लिकर्नई, चेन्नई - 600 100

Phone No / फोन: +91- 9445798007

From: placement@msajce-edu.in

To: "PS to DH SDT" <itcs@niwe.res.in>

Sent: Monday, November 6, 2023 9:03:57 AM

Subject: Re: Permission for Industrial Visit- Reg

Greetings sir,

Hope you have received our previous mail but sir in that regard we need to change the date of Industrial Visit from 14.11.2023 to 16.11.2023 because our college management is planning to extend the Diwali Holidays for the students till 14.11.2023, so please kindly change our date of visit also and confirm the same as soon as possible.

With Thanks & Regards,

Vigneshwaran V

Placement Officer,

Department of Training and Placement,

Mohamed Sathak AJ College of Engineering,

7904117425

MSAJCE WEBLINK

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering

No.34, Rajiv Gandhi Salai (OMR)

Sipcot - IT Highway Egattur,  
Chennai - 603103.

On Sat, Nov 4, 2023 at 3:08 PM Placement Officer <placement@msajce-edu.in> wrote:  
With respect to our previous mail the Industrial Visit for the students is planned on 14.11.2023 in this regard we have attached the application form and student name list for the Industrial Visit is attached herewith and also the payment for the same has been done, proof for the payment is also attached.

With Thanks & Regards,

Vigneshwaran V

Placement Officer,

Department of Training and Placement,



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From,  
Vigneshwaran V,  
Head Training,  
Department of Training and Placement,  
MSAJCE.

To,  
The Principal,  
MSAJCE

Respected Sir,

*Permitted as per rooms*  
*Don*  
*180 kaly*

Sub: Request for Permission and Bus for Industrial Visit – Reg

As we planned to take third year Mechanical Engineering (24 students), Civil Engineering (05 Students) and Electrical and Electronics Engineering (17 Students) Total 46 students to Neyveli Lignite Corporation, Neyveli on 24/04/2024 I Kindly request you to grant permission for the visit and sanction the below requested amount and do the needful.

S.No	Description	Amount
1	Transport 340 Kms (Up & Down) 90 Litres Diesel	8316
2	Toll Gate	1000
3	Temporary Permit	8000
4	Driver Bata	500
<b>Total Amount</b>		<b>17816</b>

Among this amount, in total 41 students have paid the training fee may be adjusted for this purpose. Amount of rupees 400 each from the balance 5 non-placement will be collected and deposited into the college.

Thanking You

*W. Sathak*

Chennai

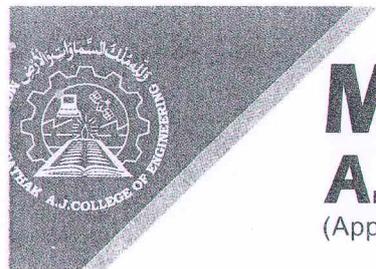
18/04/2024

**PRINCIPAL** Yours Faithfully,  
Mohamed Sathak A.J. College of Engineering  
No:34, Rajiv Gandhi Salai (Old)  
Sipcot - IT Highway Expressway  
Chennai - 603103.

*W. Sathak*  
18/04/24  
Head Training

Vote:

- ① IV-2 for MECH.
- ② IV-1 for EEE & CIVIL



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act



22/04/2024

To,

The Deputy General Manager/PRO,  
Block-2,  
Neyveli Lignite Corporation Limited,  
Neyveli-607801.

**Subject: Confirmation of Industrial Visit for Students on April 24, 2024 (Reference: Lr.No:289-1/Visit/PRD/2024)**

Dear Sir,

We are writing to confirm the industrial visit for our students to your esteemed organization on **Wednesday, April 24, 2024**, as per your kind permission granted vide reference number Lr.No:289-1/Visit/PRD/2024 dated April 16, 2024.

This visit is an integral part of our curriculum, allowing students to gain valuable insights into industrial culture, technological advancements, practical applications, and managerial practices.

No of Students: **46**

Branch/year: MECHANICAL, CIVIL & EEE /III Years

Faculties:

1. Mr.Muhammad Irfan Assistant Professor / Mechanical - 8925088057
2. Mrs. Anupriya Assistant Professor / Mechanical - 6381961868

Bus No: TN 22 CY/6455

Thank you in advance.

Enc: Students Name List.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

With Regards,

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING

S.No	Reg. No	Student Name	
1	311821114001	AADIL T	
2	311821114002	ABDUL KAFFAR. J	
3	311821114003	DHANUSH ADITHYA S	
4	311821114004	GOKULNATH D	AB
5	311821114005	HAJIPUTHURMYDEEN .S	AB
6	311821114006	HARIM	
7	311821114007	JASWIN KUMAR	
8	311821114008	MOHAMED ANSARIN	
9	311821114009	MOHAMED FAZID S	
10	311821114010	MOHAMMAD SAFREES N	AB
11	311821114011	NARESH.P	
12	311821114012	SANDEEP.S	AB
13	311821114013	SYED AHAMED S T	
14	311821114014	SHAIK IRFAN K	
15	311821114015	SHAILESH KUMAR P	
16	311821114016	UDHAYAKUMAR. G	
17	311821114017	ABDUR RAHMAN.J	
18	311821114018	CHANDRU	AB
19	311821114019	MOHAMED ANWAR T A	
20	311821114020	RASOOL MOHAMED .I	
21	311821114021	SHAMEER AHMED A	
22	311821114022	SWARUPAMALVAN.R	AB
23	311821114023	SYED MOHAMMED	
24	311821114024	P.MOHAMED SAMEEM	

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING

S.No	Reg. No	Student Name	
1	311821103001	Mohamed Faizal.A (H)	AB
2	311821103002	MOHAMED HAROON.M	
3	311821103003	SANDESH KUMAR K	AB
4	311821103004	SHANMUGAM S (H)	
5	311821103301	MOHAMED KAIF	

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Sipcot - IT Highway Egattur, Mo.  
Chennai - 603103.

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No.34, Rajiv Gandhi Salai (OMR)  
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Chennai - 603103.

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING			
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
S.No	Reg. No	Student Name	
1	311821105001	ABDUL MALIK J	AB
2	311821105002	DILLIGANESH A	
3	311821105004	KARTHICK A	
4	311821105005	MOHAMED BASIL S	AB
5	311821105006	MOHAMED IZZAT. A	
6	311821105008	MOHANRAJ.K	
7	311821105010	NAGARAJ. B	
8	311821105011	SHARAIR SARFAN S.A	
9	311821105012	SRIKARTHIK.V	
10	311821105013	SYED HIFZUL RAHMAN F	
11	311821105014	THAMEEM ANSAARI I.S	AB
12	311821105015	THIYAGU . A	AB
13	311821105301	AL MUHASIF RIFATH M	
14	311821105302	HARIHARAN C	
15	311821105304	PRASAD	
16	311821105305	SANTHOSH KUMAR	
17	311821105701	MOHAMED RIAZDEEN	



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Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**EXTERNAL EVENT\* PARTICIPATION**

Department	Mechanical, Electrical and Electronics, Civil Engineering	Academic Year	AY 2023-24
Year / Semester	III / VI	Date (s) of Event	ONE DAY
Total strength of the class	46	No. of Students Participating	40
Departure time	4.00 AM	Arrival time	9.PM

Name of the Organization / Location with Address	Neyvely Lignite Corporation, Neyvely
Contact person	Mr.Gnanaraj / Assistant Executive Manager HR
Contact email ID & Phone number	<a href="mailto:pro.nlc57@gmail.com">pro.nlc57@gmail.com</a>
Accompanying staff	Mr.Muhamad Irfan & Mrs. Anupriya
Designation	Assistant Professor
Contact number	9025050497
Transport required if any	Yes, TN 22 CY 6455
Pickup point & Time	MSAJCE Mens Hostel & 4.00 A.M
Food required if any (For Hostellers)	No
Budget required	17816

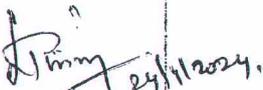
**Enclosure:**

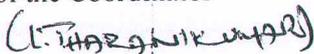
Documents	YES/NO
Permission Letter	Yes
Students Name List	Yes
Detail of Scheduled visit	Yes
Reservation Details/Tickets	No
Boarding & Lodging Details	No
Consent form – From Parent's & Student	Yes

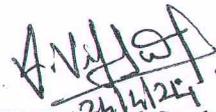


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 Chennai - 603103.

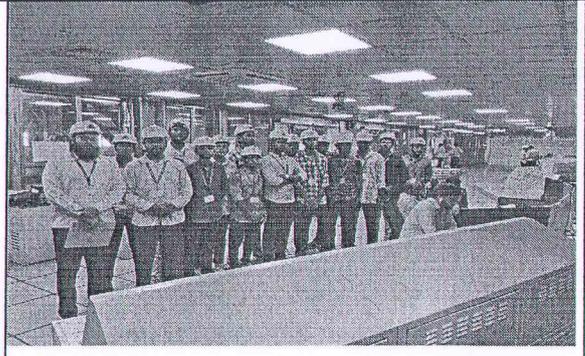
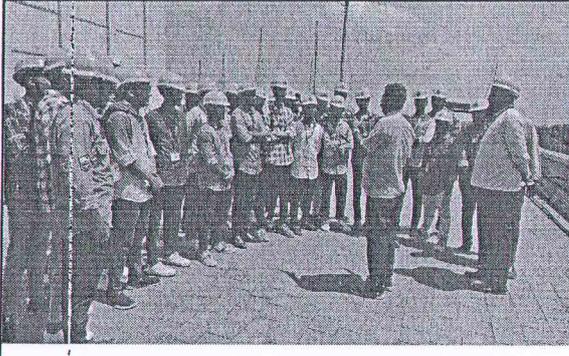
\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp

  
 Sign of the Coordinator



  
 Sign of the HoD / Head-Student Affairs with date

S



Supporting Document Required :  
1. Communication letters  
2. Students Report  
3. Photo

Faculty in charge  
24/4/23  
L. HARAN (C-402)

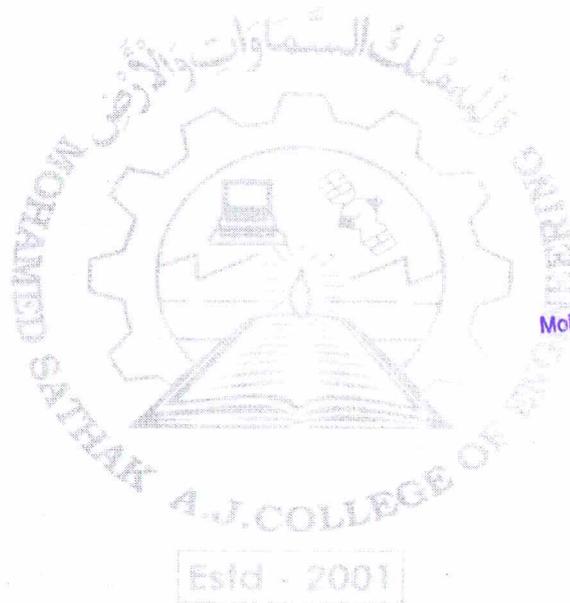
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Rev.No: 1.0

Rev.Date: 04.01.21

*Handwritten signature*  
24/4/23

Sign of the HoD with date



*Handwritten signature in green ink*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

REPORT ON INDUSTRIAL VISIT

Department of Training and Placement

Name of the Industry	NLC India Limited, Neyveli
Date of Visit	24.04.2024
Contact Person	Mr.Gnanaraj / Asst. Excutive Manager HR
Target Audience and No of Students Participated	36

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for third year Mechanical Engineering, Civil Engineering and Electrical and Electronics Students to NLC India Limited, Neyveli on 24.04.2024. 36 students along with 2 faculties were started from MSAJCE Hostel at 4.00 a.m and they reached the Neyveli at 9.00 a.m.

**Benefit and Knowledge Gained :** Power Generation Technologies: NLC India Limited is a leading company in power generation. By visiting the facilities, students likely gained insights into various power generation technologies, including coal-based power plants, potentially renewable energy sources, and pollution control mechanisms. This practical exposure complements classroom learning about different power generation methods and their technical aspects.

**Coal Mining Operations:** NLC India is also involved in coal mining. If the visit included the coal mines, students would have gained firsthand knowledge about the mining process, safety protocols, and the logistics of coal transportation. This would enrich their understanding of the entire coal-based power generation cycle.

**Sustainable Practices in the Energy Sector:** The visit likely addressed the challenges of sustainable energy production. Students may have observed how NLC India is striving to balance power generation needs with environmental responsibility. This practical knowledge complements theoretical understanding of sustainable energy sources and environmental impact mitigation strategies.

**Overall Benefits:**

The visit to NLC India Limited Neyveli likely provided students with several benefits:

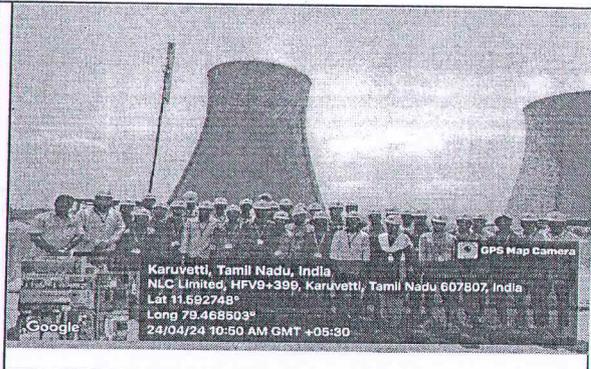
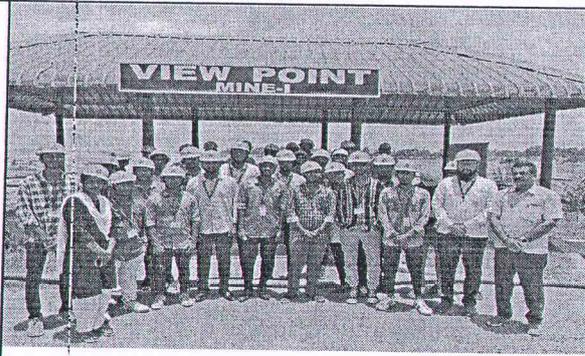
**Enhanced Understanding:** Observing real-world power generation processes would have solidified their theoretical knowledge and provided a deeper understanding of the energy sector.

**Practical Insights:** Witnessing the large-scale operations at NLC India would have given students valuable insights into the practical aspects of power generation and mine management (if applicable).

**Career Exploration:** The visit could have sparked students' interest in specific areas of the power generation sector, helping them make informed decisions about future careers.

Estd - 2001

Photograph



PRINCIPAL

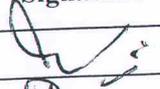
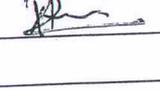
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Chennai - 603103.

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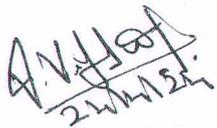
CONSENT FORM - INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

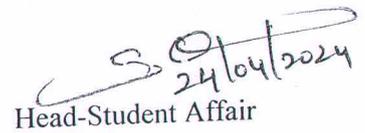
- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1	MUHAMMAD IRFAN	AP & MECH	9020050497	8920088057	
2	Mrs. Anupriya	AP & EEE	6381961868	9488012670	

Approved / Not Approved

  
24/04/24

Sign of the HoD with date

  
24/04/2024  
Head-Student Affairs

Head - Student Affairs  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 605 103.  
Rev.Date: 04.01.21

Format No.: PLA 12

Rev.No.: 01

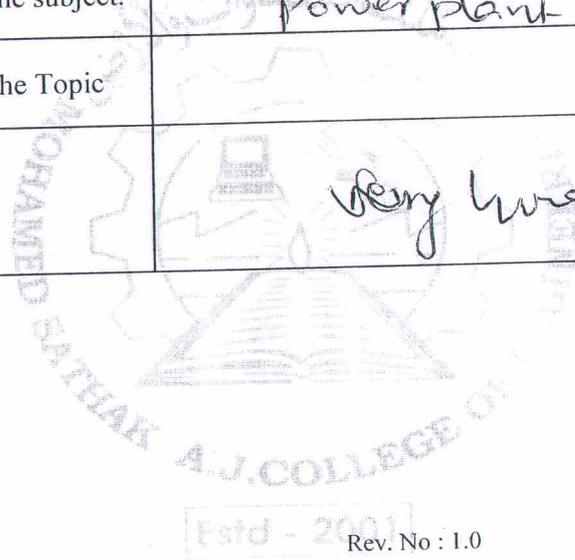


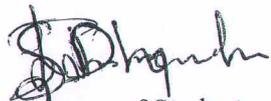
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON INDUSTRIAL VISIT

Department:	Mechanical Engineering	Academic Year:	2023-24.
Name of the Student	Dhanush Adithyan S.		
Year/ Sem	III / VI		
Name of the Industry / R&D Organization	NLC India Ltd.		
Date of Industrial Vist	24/04/2024.		
Was the Industrail visit is useful?	very much useful.		
Beneficiary- Departments	Mechanicle, EEE, Civil.		
Wether the Industrail visit was related to subject? If Yes mention the subject.	Yes, Thermal, Engg. Power plant Engg.		
Brief summary / Report of the Topic			
General Remarks	Very Good.		



  
Signature of Student

Format No: FB 11

Estd - 2001 Rev. No : 1.0

Rev. Date : 04.01.21



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From,

Vigneshwaran V,

Head Training,

Department of Training and Placement,

MSAJCE.

To,

The Principal,

MSAJCE

*Permitted as per norms*

*[Signature]*

*18/04/24*

Respected Sir,

Sub: Request for Permission and Bus for Industrial Visit – Reg

As we planned to take First year (240) and Second year (237) students to Chennai Trade Centre, Nandhanam for International Machine Tools Exhibition(IMTOF), 2024 organized by Madras Machine Tools Manufacture Association on 22/04/2024 at 09:00 am. I kindly request you to grant permission, provide food for 150 hostel students and transport facility (8 Bus required) and do the needful.

Thanking You

Chennai

18/04/2024

Yours Faithfully,

*[Signature]*  
18/04/24

Head Training

*[Signature]*

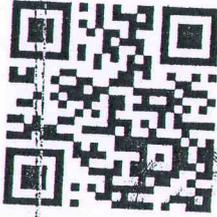
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Platinum Sponsor  
**bodor**  
Dare to dream

**A SARANYA**  
Student  
MSAJCE



IMT-8939496537-9002

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

Eventlink - Event Mangement Software



Platinum Sponsor  
**bodor**  
Dare to dream

**YUVANRAJ**  
Student  
Mohammad Sathak Aj College Of Engineering



IMT-9003545058-9073

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**



Platinum Sponsor  
**bodor**  
Dare to dream

**G SULTHAN MASHUD**  
Founder  
Mashud

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**SASIDHARAN R**  
Student

Mohammad Sathak A J College Of Engineering



IMT-8946054432-8946

Event Extended upto 23<sup>rd</sup> April, 2024.



**KARTHIK**  
Student

Mohammad Sathak Aj College Of Engineering



IMT-6381697993-9017

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**VISITOR**

EventLink - Event Mangement Software



**B.BARATH**  
Student

Mohamad Sathak A.j College Of Engineering



IMT-8190838311-9209

Event Extended upto 23<sup>rd</sup> April, 2024.



**NAVANEETHAKRISHNAN A**  
Student

Mohamed Sathak AJ College Of Engineering



*Handwritten signature*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salsai (OMK)  
Sipcot - IT Highway,  
Chennai - 603103.

IMT-8778321409-8807

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**VISITOR**



Platinum Sponsor



**THIRUNAVUKKARASU**

Student  
MSAJCE



IMT-6383438771-8797

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**



Platinum Sponsor



**VIJAY**

Student  
MSAJCE



IMT-6374642974-8749

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway, Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823106001	AAKAASH B	ECE	<i>[Signature]</i>
2	311823106002	ABDUL JUMAIL M	ECE	<i>[Signature]</i>
3	311823106003	ABDULLA S	ECE	<i>[Signature]</i>
4	311823106004	ABISHEK A	ECE	<i>[Signature]</i>
5	311823106005	AHAMED JABIR U	ECE	<i>[Signature]</i>
6	311823106006	AJAY V	ECE	<i>[Signature]</i>
7	311823106007	AKASH K	ECE	<i>[Signature]</i>
8	311823106008	ANWAR JAMAL P	ECE	<i>[Signature]</i>
9	311823106009	ARAVINTHAN S	ECE	<i>[Signature]</i>
10	311823106010	BALANANDHA A	ECE	
11	311823106011	BASHEER AHMED M Y	ECE	
12	311823106012	BEE BEE JANE R	ECE	<i>[Signature]</i>
13	311823106013	DHANUJA R	ECE	<i>[Signature]</i>
14	311823106014	FAHD AHMED KHAN K	ECE	
15	311823106015	GOKULA KANNAN K	ECE	<i>[Signature]</i>
16	311823106016	HARISHKUMAR S	ECE	<i>[Signature]</i>
17	311823106017	HEMALATHA P	ECE	<i>[Signature]</i>
18	311823106018	JAYAKUMAR V	ECE	<i>[Signature]</i>
19	311823106019	JEFFIN SAM RAJ D	ECE	<i>[Signature]</i>
20	311823106020	KAMALNATH P	ECE	<i>[Signature]</i>
21	311823106021	KAVIRAJAN P T	ECE	<i>[Signature]</i>
22	311823106022	KHABIRA M	ECE	<i>[Signature]</i>
23	311823106023	MADHAN KUMAR S	ECE	<i>[Signature]</i>
24	311823106024	MAHIRA SULTHANA R	ECE	<i>[Signature]</i>
25	311823106025	MAMATHA M	ECE	<i>[Signature]</i>
26	311823106026	MANOTHANGA KARTHICK M	ECE	<i>[Signature]</i>
27	311823106027	MOHAIDEEN MAHDEEF M	ECE	
28	311823106028	MOHAMED AJMAL M	ECE	<i>[Signature]</i>
29	311823106029	MOHAMED FAYAS M	ECE	<i>[Signature]</i>
30	311823106030	MOHAMED HATHEM P	ECE	
31	311823106031	MOHAMED JAHIR H	ECE	<i>[Signature]</i>
32	311823106032	MOHAMED NATHIR S	ECE	
33	311823106033	MOHAMED RIHAM M A	ECE	
34	311823106034	MOHAMED YASITH M K	ECE	
35	311823106035	MOHAMMAD ANSAR A	ECE	<i>[Signature]</i>
36	311823106036	MOHAMMED BASITH C	ECE	<i>[Signature]</i>
37	311823106037	MOHAMMED FAHEEM H	ECE	
38	311823106038	MOHAMMED RISWAN R	ECE	<i>[Signature]</i>
39	311823106039	MOHAMMED SALMAN M	ECE	<i>[Signature]</i>

Principal  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



## Department of Training and Placement

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823105001	MOHAMED AFRAN K	Electrical and Electronics Engineering	
2	311823105002	MOHAMED IRFAN N	Electrical and Electronics Engineering	
3	311823105003	MOHAMED JIYATH B	Electrical and Electronics Engineering	
4	311823105004	MOHAMED NAYEEM M	Electrical and Electronics Engineering	
5	311823105005	YUVANRAJ V	Electrical and Electronics Engineering	

S.No	Register Number	Student Name	Department	Signature
1	311823103001	ADHISWAR M	Civil	
2	311823103002	GURIJALA CHANDRA PRAKASH BABU	Civil	

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823149001	AKSHAY V	Cyber Security	
2	311823149002	ANSAR NISHA W	Cyber Security	
3	311823149003	ESTHER E	Cyber Security	
4	311823149004	IMAM ALI I	Cyber Security	
5	311823149005	JANNATHUL FIRTHOSE	Cyber Security	
6	311823149006	JOSHUA S	Cyber Security	
7	311823149007	MADHU MEENA R	Cyber Security	
8	311823149008	MAHTHIR MOHAMED S	Cyber Security	
9	311823149009	MOHAMED T	Cyber Security	
10	311823149010	MOHAMED ANAS A	Cyber Security	
11	311823149011	MOHAMED ASIF RASO	Cyber Security	
12	311823149012	MOHAMED FAYAZ M A	Cyber Security	
13	311823149013	MOHAMED SHAHITH M	Cyber Security	
14	311823149014	MOHAMMED SADIQ AL	Cyber Security	
15	311823149015	M	Cyber Security	
16	311823149016	NAVADHARSHAN K	Cyber Security	
17	311823149017	PRANAV S	Cyber Security	
18	311823149018	SASIDHARAN R	Cyber Security	
19	311823149019	SHARUKESH E	Cyber Security	
20	311823149020	SRI GANESH A	Cyber Security	
21	311823149021	SUBHASRI R	Cyber Security	
22	311823149022	SYED SAMEER S	Cyber Security	

**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823114001	AMEER BASHA M H	Mechanical Engineering	<i>Am Bar</i>
2	311823114002	BAASIM M	Mechanical Engineering	
3	311823114003	DIVAKAR D	Mechanical Engineering	<i>D. Divakar</i>
4	311823114004	HAJI MOHAMED S	Mechanical Engineering	<i>Haji</i>
5	311823114005	HARI VISHAL C	Mechanical Engineering	<i>H. Vishal C.</i>
6	311823114006	IJAS AHAMED R	Mechanical Engineering	<i>R. Ijas</i>
7	311823114007	MOHAMED SUHAIL S	Mechanical Engineering	

*[Handwritten signature in green ink]*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**EXTERNAL EVENT\* PARTICIPATION**

Department	All First years and Second Years	Academic Year	AY 2023-24
Year / Semester	I & II / II & IV	Date (s) of Event	ONE DAY
Total strength of the class	477	No. of Students Participating	251
Departure time	10.00 AM	Arrival time	3.30.PM

Name of the Organization / Location with Address	International Machine Tool Exhibition, Trade Centre Nandambakkam, Chennai
Contact person	
Contact email ID & Phone number	
Accompanying staff	Dr.Prasath, Mr.Pandarinathan, Dr.Muthumari, Mr.Senthil Kumar, Mrs, Rajeshwari, Dr.Kavitha
Designation	Assistant Professor & Associate Professors
Contact number	8248083360
Transport required if any	Yes,
Pickup point & Time	MSAJCE Mens Hostel & 10.00 A.M
Food required if any (For Hostellers)	No
Budget required	Nil

**Enclosure:**

	Documents	YES/NO
Permission Letter		Yes
Students Name List		Yes
Detail of Scheduled visit		Yes
Reservation Details/Tickets		No
Boarding & Lodging Details		No
Consent form - From Parent's & Student		No

\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34 Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Sign of the Coordinator

Sign of the HoD / Head-Student Affairs with date

Head EDC

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1	V. Pandarathnan	AP/CSIE	9789079388	-	<i>V. Pandarathnan</i>
2	Dr. S. PRASATH	Asst. Prof/Mech	8248083360	-	<i>S. Prath</i>
3	Dr. M. Muthumari	AP/Physics	9994472632	-	<i>M. Muthumari</i>
4	Mr. K. Senthil Kumar	AP/MATHS	9894507709	-	<i>K. Senthil Kumar</i>
5	Ms. S. RAJESHWARI	AP/Maths	9790234295	-	<i>S. Rajeswari</i>
6	Dr. J. Karidra	AP/Maths	9003619026	-	<i>J. Karidra</i>

Approved / Not Approved

PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

22/04/2024  
Head-Student Affair

Head - Student Affairs

Mohamed Sathak A.J. College of Engineering

Siruseri IT Park, Chennai - 603 103

Rev.Date: 04.01.21

*A. Vijay*  
22/4/24  
Sign of the HoD with date

Format No.: PLA 12

Rev.No.: 01

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**REPORT ON INDUSTRIAL VISIT**

Department of Training and Placement

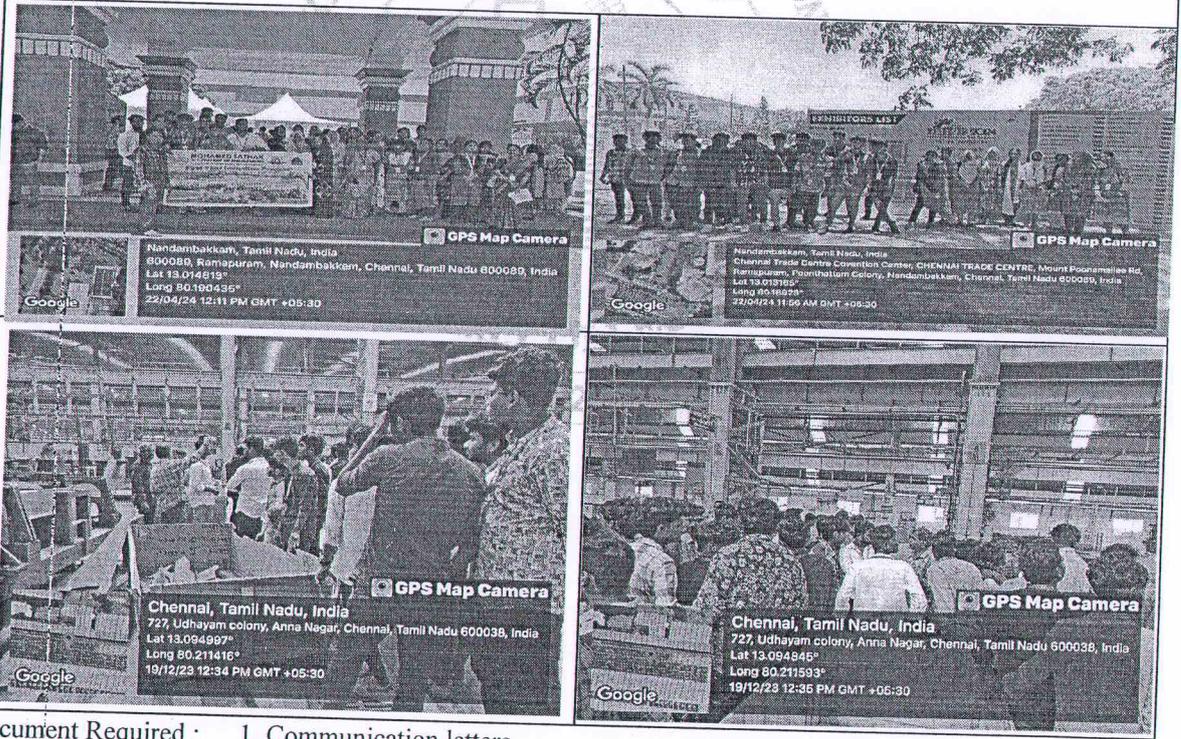
Name of the Industry	International Machine Tool Show 2024, Nandhambakkam Trade centre, Chennai
Date of Visit	22.04.2024
Contact Person	
Target Audience and No of Students Participated	250

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for First year and Second year Students on 22.04.2024 to International Machine Tool Show (IMTOF) 2024 held at the Nandhambakkam Trade Centre in Chennai. 250 Students along with 6 faculties were started from MSAJCE Campus at 10.00 a.m by our college bus and reached Nandambakkam at 11.30 a.m

Benefit and Knowledge Gained : Students from Mohamed Sathak A J College of Engineering recently participated in an industrial visit to the International Machine Tool Show (IMTOF) 2024 held at the Nandhambakkam Trade Centre in Chennai. This visit served to bridge the gap between theoretical knowledge gained in the classroom and the practical realities of the manufacturing industry.

Curriculum Gaps Addressed:  
 Exposure to Latest Technologies: IMTOF showcases cutting-edge machine tools, automation solutions, and advancements in the field. Witnessing these firsthand allows students to understand how theoretical concepts translate into real-world applications.  
 Industrial Practices: The visit provided insights into industry best practices, production processes, and quality control measures. This practical knowledge complements classroom learning and prepares students for future careers.  
 Industry Culture: Interacting with industry professionals and observing the work environment fosters a better understanding of industry culture, work ethics, and professional expectations.

Photographs



- Supporting Document Required :
1. Communication letters
  2. Students Report
  3. Photo

Faculty in-charge  
 U. H. RANIKUMAR  
 Format no.: PLA 11

  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

  
 Sign of the HoD with date

Rev.Date: 04.01.21



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



S.NO	COMPANY NAME	SUBJECT CODE	STUDENT NAME
1	Comnizo Solutions	GE3151-Problem Solving and Python Programming	J.Abdul Malik
2	Cognifyz Technologies	CS3353-C Programming and Data Structures	J.Abdul Malik
3	National Institute of Wind Energy	EE3402-Linear Integrated Circuits	Srikarthik.V
4	CodSoft	CS8392-Object Oriented Programming	Arshad.K
5	Meriskill	GE8151-Problem Solving and Python Programming	Arshad.K
6	Academor	EVA033-Electric Vehicles	Arshad.K
7	CodSoft	CS8392-Object Oriented Programming	Mohamed Unais,A
8	SlayLewks	GE8151-Problem Solving and Python Programming	Mohamed Unais,A
9	Shiash Info Solutions Private Limited	GE8151-Problem Solving and Python Programming	Divya Sri.S

PRINCIPAL  
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

C.ID: 31e639f



# CERTIFICATE

OF COMPLETION  
PROUDLY PRESENTED TO

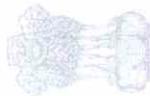
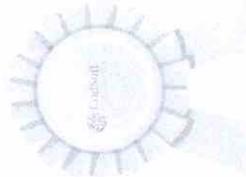
**Arshad K**

has successfully completed 4 weeks of a virtual internship program in  
**Machine Learning**  
with wonderful remarks at **CODSOFT** from 05/09/2023 to 05/10/2023.

We were truly amazed by his/her showcased skills and invaluable contributions to  
the tasks and projects throughout the internship.



Founder



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

contact@codsoft.in

www.codsoft.in

Date: 11/10/2023

11<sup>th</sup> June 2024

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify **Ms. Divya Sri S (Reg.No. 311820105003)** Student of **B.E.,(Electrical and Electronics Engineering) Mohamed Sathak A. J. College of Engineering - Chennai** has successfully completed the Internship **Data Analytics** platform from **March 2024 to June 2024** in our company. During the period, she had been exposed to different processes and found to be Punctual, Hard Working and Inquisitive.

We wish her every success in life and career.

For **Shiash Info Solutions Private Limited**



**Ashwini Kanniyappan**

**Manager – Human Resources**



**PRINCIPAL**  
**Mohamed Sathak A.J. College of Engineering**  
**No.34, Rajiv Gandhi Salai (OMR)**  
**Sipcot - IT Highway Egattur,**  
**Chennai - 603103.**

Shiash Info Solutions Private Limited  
#51, Level 3, Tower C, Ratttha TEK Meadows, Old Mahabalipuram Road,  
Sholinganallur, Chennai – 600 119, Tamil Nadu, India  
+91 80158 07428 info@shiash.com

Meri  
SKILL

# Certificate Of COMPLETION

MeriSKILL

Grants and certifies  
this certificate on

10 OCTOBER, 2023

CNMS20

This Certificate Is Given To

**ARSHAD K**

Because HE/SHE has completed an internship program for 30  
Days as "DATA ANALYST" at MeriSKILL with an "A" grade in  
Python, SQL and Power BI / Tableau.



MeriSKILL.COM



MSME

**DIGITALLY VERIFIED**  
*W. h. =*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (O.H.R)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# Cognifyz

Where Data Meets Intelligence

Cognifyz Technologies

## Internship Completion Certificate

Date - 17/02/2024

This is to certify that **J Abdul Malik, (Intern ID: CTI/A1/C12027)** currently pursuing a B.E. from Mohamed Sathak AJ College Of Engineering, was working as a **Full Stack Development Intern** with Cognifyz Technologies from January 2024 - February 2024.

During this period, he has served as a Full Stack Development Intern and has displayed remarkable dedication, sincerity, and a strong desire to learn. He has exhibited exceptional coordination skills and effective communication abilities. Moreover, his attention to detail has been truly impressive.

He has consistently approached new assignments and challenges with enthusiasm, showcasing his passion for Full Stack Development. His commitment and willingness to acquire new knowledge and skills have been evident throughout his internship.

We extend our best wishes to J Abdul Malik for a successful future, and we have no doubt that he will continue to excel in the field of Full Stack Development.

*Sahillambot*

With Regards,  
Cognifyz Technologies



*[Signature]*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

✉ [cognifyztechnologies@gmail.com](mailto:cognifyztechnologies@gmail.com)

🌐 [www.cognifyz.com](http://www.cognifyz.com)

# Comnizo Solutions



March, 2024

Comnizo Solutions  
Hyderabad  
Telangana

Dear **J Abdul Malik**,

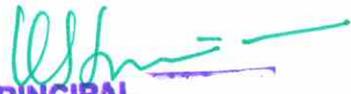
Subject: **Internship Completion Certificate.**

This is to certify that Mr./Ms. J Abdul Malik has successfully completed a 1-month internship at Comnizo in the field of Web Development. The internship tenure spanned from 15th January, 2024, to February, 2024.

Throughout the internship, J Abdul Malik actively engaged in diverse tasks within the Web Development domain. Notably, they played a pivotal role in a client demo project, showcasing exceptional skills and dedication.

J Abdul Malik, demonstrated commendable hard work, enthusiasm, and a strong commitment to excellence. Their proactive approach and ability to tackle challenges reflect a promising foundation for a successful career in Web Development.

During the internship, J Abdul Malik consistently displayed dedication and a proactive attitude towards learning. Their enthusiasm for taking on new tasks and overcoming obstacles was evident in every project undertaken. These qualities underscore their potential to excel in Web Development and contribute meaningfully to future endeavors.

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipoot - IT Highway Egattur,  
Chennai - 603103.



नीवे NIWE  
(ISO 9001 Certified)

# राष्ट्रीय पवन ऊर्जा संस्थान NATIONAL INSTITUTE OF WIND ENERGY

(पूर्व में "पवन ऊर्जा प्रौद्योगिकी केन्द्र" Formerly "Centre for Wind Energy Technology")

(नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार Ministry of New and Renewable Energy, Government of India)

नीवे/अनुसंधान एवं विकास/ इंटरशिप / 2023-24  
NIWE / R & D / Internship -49/ 2023-24

दिनांक : 3 अगस्त 2023  
Date: 03.08.2023

## सभी संबंधितों को TO WHOMSOEVER IT MAY CONCERN

यह प्रमाणित किया जाता है कि श्री/सुश्री/श्रीमती श्रीकार्तिक.वी, B.E. (इलेक्ट्रिकल और इलेक्ट्रॉनिक्स अभियांत्रिकी) (पंजीकरण सं 311821105012), मुहम्मद सातक ए जे कॉलेज ऑफ इंजीनियरिंग, चेन्नई, ने राष्ट्रीय पवन ऊर्जा संस्थान में 3 जुलाई 2023 से 3 अगस्त 2023की अवधि में इंटरशिप कार्यक्रम पूर्ण किया है तथा "चरणबद्ध बंद लूप एवं आरई-ग्रिड एकीकरण" विषय पर रिपोर्ट प्रस्तुत किया है।

This is to Certify that **Shri / Ms. SRIKARTHIK.V, B.E (Electrical and Electronics Engineering)** (Reg. No. 311821105012) Mohamed Sathak A J College of Engineering, Chennai, has completed an internship at National Institute of Wind Energy, Chennai from 3<sup>rd</sup> July 2023 to 3<sup>rd</sup> August 2023 and submitted a report on "PHASE LOCKED LOOP AND RE-GRID INTEGRATION".

इंटरशिप की अवधि में उन्होंने आवश्यक अनुशासन, सावधानी निरूपित किया है तथा इंटरशिप पूर्ण करने हेतु आवश्यक कौशल में विशेषज्ञता प्रदर्शित की है।

During the course of internship, he demonstrated the required discipline, rigour and expertise over the skills required for the completion of this internship.



*M.C. Lavanya*

एम. सी. लावण्या  
M.C. LAVANYA

उप निदेशक (तकनीकी) एवं प्रकोष्ठ प्रमुख,  
अनुसंधान एवं विकास  
Deputy Director (Technical)&  
Unit Chief, R & D

*Mohamed Sathak A.J.*

PRINCIPAL

वेलाचेरी - ताम्बरम मुख्य मार्ग, पल्लिकरणई, चेन्नै - 600 100. तमिल नाडु, भारत  
Velachery - Tambaram Main Road, Pallikaranai, Chennai - 600 100. Tamil Nadu, INDIA

दूरभाष/Tel No.: +91 - 44 - 2246 3982 / 83 / 84, +91 - 44 - 2900 1162 / 1167 / 1195

फैक्स/Fax No.: +91 - 44 - 2246 3980 / 2246 3990

ई-मेल/E-mail : info@niwe.res.in वेबसाइट/Website : http://niwe.res.in

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# CERTIFICATE OF COMPLETION

## TO WHOMSOEVER IT MAY CONCERN

Mohamed Unais A- Student of Mohammed Sathak college has completed his internship with Slaylewks as a Campus Ambassador and Data Onboarding Intern. His internship was from 15th April to 25th August, 2023.

Through the course of the internship, his performance was good and he contributed to the growth of the app Slaylewks by getting downloads for the app, supporting in social media and onboarding the data of salon vendors onto the platform.

ANUTHAMA MURUGESAN  
FOUNDER AND CEO



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Faint, illegible text, possibly a stamp or additional signature]*

C.ID: 1df59a1



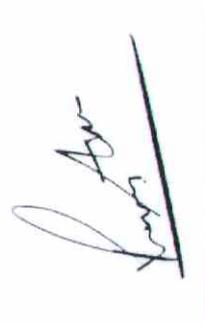
# CERTIFICATE

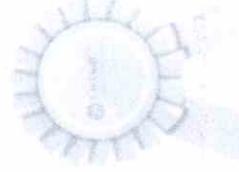
OF COMPLETION  
PROUDLY PRESENTED TO

**MOHAMED UNAISA A**

has successfully completed 4 weeks of a virtual internship program in  
**Data Science**  
with wonderful remarks at **CODSOFT** from 25/08/2023 to 25/09/2023.  
We were truly amazed by his/her showcased skills and invaluable contributions to  
the tasks and projects throughout the internship.



  
\_\_\_\_\_  
Founder



contact@codsoft.in

www.codsoft.in

Date: 27/09/2023



**PRINCIPAL**

Mohamed Sathak  
Principal  
Department of Engineering  
Sels, (O&A)

Sipcoo - IT Highway Egattur,  
Chennai - 603103.



## MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



### COURSES THAT INCLUDE EXPERIMENTL LEARNING THROUGH PROJECT WORK/ FIELD WORK / INTERNSHIP DURING 2023-2024

S.No	Reg.No	Name of the Students	Year of study	Company name	Sub code & Name related to Internship
1	311820103307	Mr.M . Mohamed Jasim	2023-24	Star Builder & Associates	CE8701-Estimation Costing & Valuation Engineering  OME754-Industrial safety

PRINCIPAL  
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act

No:34, Rajiv Gandhi Road (OMR), IT Highway, Siruseri IT Park, Chennai - 603 103.  
044-2747 0024 99400 04500 principal@msajce-edu.in www.msajce-edu.in



## BONAFIDE CERTIFICATE

Ref. No.: MSAJCE / BC / 63 / 2023-24

Date: 02.09.2023

This is to certify that Mr.M.Mohamed Jassim (Reg No.-311820103307), S/o. Mr. Mohamed Salih is a bonafide student of this college studying in IV year, B.E –Civil Engineering course for the academic year 2023 – 2024.

This certificate is issued to enable him to apply for Internship.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**PRINCIPAL**

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

1.3.2 (Internship)  
3.5.1

Er.M.Kadar Ibrahim.,BE,STAAD PRO.,

Mob: +91 9080 94 9887

## Star Builders & Associates

3/843-1, Behind SBI, Bharathi Nagar, Paramakudi - 623 707.

E-mail: kdarbe@yahoo.com

Date: 24.10.2023

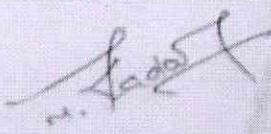
### INTERNSHIP TRAINING CERTIFICATE

This is certify that **Mr.M.Mohamed Jassim** (Reg. no: 311820103307) 4<sup>th</sup> year student of Civil Engineering Department in Mohammed Sathak AJ College of Engineering had a training of 50 days (05.09.2023 - 24.10.2023) in our Villa Projects at Paramakudi Region, Ramnad Dist.

He completed this training on Civil Construction i.e. Site supervising, Labour Monitoring and Assisting to Office works. During this Period his Performance and Attendance was Good.

We wish him all Success and well Place in Life.

For Star Builders & Associates



Er. M. Kadar Ibrahim, B.E,STAAD PRO.,  
Licensed Building Surveyor,  
L.No. 631/2013/P1  
 **STAR BUILDERS & ASSOCIATES**  
3217, Hospital Road, Paramakudi-623 707.



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)



From

31/07/2023

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

Respected Sir,

Sub: Request for permission to conduct the Seminar - Reg.

We are writing to request permission to conduct a Seminar on Solar PV system basics and commercial overview by our alumni Mr. Shaik Fathhullah S (2015-2019 Batch), Technical Assistant, DAYSTAR Solar system on 4.8.2023, 11.00 am at Lilly Hall.

Thank you for your time and consideration.

Yours Sincerely,

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

31/7/23  
Head

Training and Placement



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



**CIRCULAR**

Ref.No: MSAJCE/PT-05/2023-24

Date 31/07/2023

**Department of Training and Placement**

It is hereby to inform for all the third years of Mechanical, EEE & Civil, The Department of Mechanical Engineering, Department of Electrical and Electronics Engineering, Department of Training and placement and Alumni Association jointly organizes a Seminar on Solar PV system basics and commercial overview by our alumni Mr.Shaik Fathhullah S (2015-2019 Batch), Technical Assistant, DAYSTAR Solar system on 4.8.2023, 11.00 am at Lilly Hall.. All are advised to attend the seminar positively.

*[Handwritten Signature]*  
31/7/23  
Head

Training and Placement

Copy to:

Principal Office  
IQAC  
All Dept Hods  
Notice Board

*[Handwritten Signature]*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



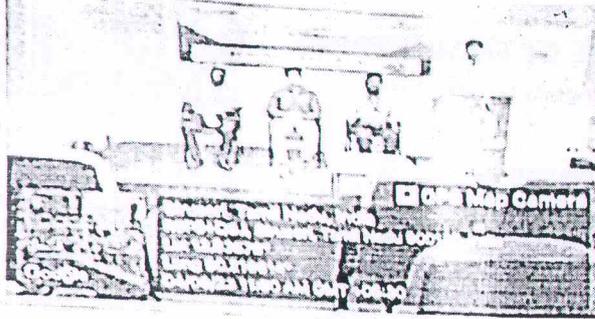
# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE - New Delhi and Affiliated to Anna University, Chennai)

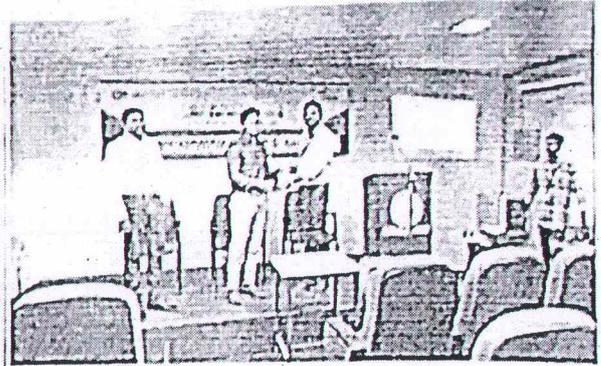


## EVENT REPORT

Department:	DEPARTMENT OF TRAINING AND PLACEMENT	
Type of Event:	Seminar	
Event Title:	Solar PV system basics and commercial overview	
Date & Time:	04/08/2023 & 1:45 pm – 03:20 pm	
Venue/Mode (Platform):	Lilly Hall, MSAJCE.	
Conveners:	Dr. M.Shunmugasundaram, Head /Academic & Mechanical - MSAJCE Dr.J.Jeha, Head /EEE - MSAJCE	
Coordinator(s):	Mr.Vigneshwaran V Head / T&P – MSAJCE Mr.S.Vinod, Asst.Prof/EEE – MSAJCE	
Detailsof Participants:	75 participants from Department of EEE & Mechanical Engineering.	
Profileof Resource Person:	Name of the Guest Speaker	Mr. Shaik Fathhullah S
	Organization	Day Star Solar
	Designation	Technical Sales Engineer
	Contact Number	9841225335
	E-mail ID	tech@daystarsolar.co.in
Write-up on Event	<p>Department of Training and Placement, Department of Mechanical Engineering, Department of Electrical and Electronics Engineering &amp; Alumni Cell Jointly organized Seminar on “Solar PV system basics and commercial overview” on 04/08/2023 &amp; 01:45pm – 03:20 pm at Lilly Hall, MSAJCE. The programme was started at 01:45pm with a welcome address and introduction to the Chief guest by Dr. M.Shunmugasundaram, Head /Academic &amp; Mechanical, MSAJCE. The Chief guest Mr. Shaik Fathhullah S, Technical Sales Engineer, Day Star Solar, Deliver his speech with a presentation on basic information about the basics of Solar, Solar PV System and commercial development in solar system. During the discussion time with the participants, he answered and cleared the doubts. At the end of the session Mr.Vigneshwaran V, Head/T&amp;P, Asst.Prof/Mech. delivers the vote of thanks.</p>	
Photographs	<p>Solar PV system basics and commercial overview - Poster</p>	
	<p>Gathering the participants</p>	



Photos Taken during the event



Photos Taken during the event

**Feedback from  
the participants**

- This session is very important and informative session about Solar PV System
- Handy session and the right time
- It was well organized and conducted thanks to MOHAMMAD SATHAK AJ COLLEGE OF ENGINEERING for this session
- Most Effective Seminar for Mechanical and Electrical students
- Very much useful information about Commercial Solar systems.
- Handy session and the right time

Prepared By:

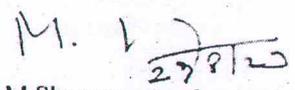
Signature: 

Name: Mr. Vigneshwaran V

Designation: Head / T&P

Date: 07.08.2023

Reviewed/Forwarded by:

  
Dr. M. Shunmugasundaram,  
HoD/ Academics & Mechanical

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: EEE

Academic Year: 2023-24

Name of the Student	<u>J. ABUL MALIK</u>
Year/Sem	<u>III / V</u>
Name of the Guest	<u>SHAH FAIHHULLAH</u>
Name of the Institution/ University/ Industry/R&D Organization	<u>DAYSTAR SOLAR</u>
Event	<u>GL/Seminar/Workshop/Conference/Others</u>
Date of Event	<u>04-08-23</u>
Was the session Useful?	<u>Yes</u>
Expert Interaction	<u>Excellent / Good / Average</u>
Whether the lecture was related to Subject? If yes mention the subject	<u>Good</u>
Brief Summary/Report of the topic	<u>The session was useful with live demonstration given by the guest and we got more information which will be useful for projects development in the future</u>
General Remarks	<u>Good</u>

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

J. Abul Malik  
Signature of Student  
Rev. Date : 04.01.21

MOHAMED SATHAK A J COLLEGE OF ENGINEERING , Chennai-603 103

VISITOR FEEDBACK

Department: Electrical & Electronics

Academic Year: 2015-2017

Name of the Guest	SHARF FATHIMAH
Organization Details	DAYSTAR SOLAR
Mail id & Contact no.	tech@daystar.solar.co.in
Purpose of Visit	GE / Seminar / Workshop / Conference / R&D / FDP / External Examiner / ALUR / Management / Cultural / Placement Drive / others
Beneficiary- Department / Year - if applicable	04-08-2022 Mechanical, EEE
Date of Visit	04-08-2022
How would you rate the student interaction	Excellent / Good / Average
How would you rate the faculty interaction (if any)	Excellent / Good / Average
Comments on facilities of the college	The facilities has improved compared to previous year
General Remarks	
Scope for Collaborative work with your organisation	We can take internship for the students
Area in which collaborative work can be done	Solar

Name & Signature of Coordinator

Format No : FE 07

Rev. No : 1.0

Signature of Guest

Rev. Date : 04.01.21

**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



IV-1

From

20/02/2024

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

*Submitted to the Chairman Sir for the necessary approval.*  
*[Signature]*  
*20/02/24*

Respected Sir,

Sub: Request for Students to Visit an Industrial Site - Reg.

We have scheduled an industrial visit for our third year ECE and Mechanical students to The Cheyyar-Co-Op-sugar-mills Ltd, Anakkavoor, Thenthandalam on 22.02.2024. In this regard we request you to kindly provide the food for Hostel students (15) and sanction the fund for the visit.

Sl.No	Description	Amount (Rs)
1.	Transport 250 kms (Up & Down) 80 Liters Diesel	7600
2.	Toll Gate	500
3.	Driver Beta	500
Total		8600

Among this amount, in total 32 Students paid the training fee may be adjusted for this purpose. Balance amount will ~~be~~ collect from the students and deposit into the college account.

Thank you for your time and consideration.

Yours Sincerely,

*[Signature]*  
Head / Training and Placement

Copy to:

Chairman,  
IQAC.

*Total no of students = 37 (ECE) + 24 (Mech)*  
*= 57 students*  
*- 32*  
*-----*  
*25 students x 200/-*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*Amnt will collect from the student before the visit = 5000/-*

Enclosure: Budget - Training copy -



Placement Cell &lt;placement@msajce-edu.in&gt;

**Permission for Industrial Visit - Reg**

2 messages

Placement Officer <placement@msajce-edu.in>  
To: "chyrasm@gmail.com" <chyrasm@gmail.com>

Tue, Feb 20, 2024 at 2:18 PM

In accordance with the curriculum of our institution (**Mohamed Sathak AJ College of Engineering, Chennai**) Industrial Visits are arranged to expose our students to recent trends in their field of study. In view of the above, we request you to permit 120 Second Year students in two batches [60+ 60] to visit your "The Cheyyar Co-OrSugar Mills Ltd" preferably in **February 2024**, so we request you to grant us permission for the same.

With Thanks & Regards,  
Vigneshwaran V  
Placement Officer,  
Department of Training and Placement,  
Mohamed Sathak AJ College of Engineering,  
7904117425  
MSAJCE WEBLINK

Placement Officer <placement@msajce-edu.in>  
To: "chyrasm@gmail.com" <chyrasm@gmail.com>

Tue, Feb 20, 2024 at 2:39 PM

In accordance with the curriculum of our institution (**Mohamed Sathak AJ College of Engineering, Chennai**) Industrial Visits are arranged to expose our students to recent trends in their field of study.

In view of the above,

1. We request you to permit 24 Mechanical students on 22/02/2024 they will join along with our ece students.
2. we request you to permit 120 Second Year students in two batches [60+ 60] to visit your "The Cheyyar Co-OrSugar Mills Ltd" preferably in **March 2024**, so we request you to grant us permission for the same and do the needful.

Looking forward for your positive reply.

With Thanks & Regards,  
Vigneshwaran V  
Placement Officer,  
Department of Training and Placement,  
Mohamed Sathak AJ College of Engineering,  
7904117425  
MSAJCE WEBLINK

[Quoted text hidden]

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

EXTERNAL EVENT\* PARTICIPATION

Department	MECHANICAL & ECE	Academic Year	2023-24
Year / Semester	III / VI	Date (s) of Event	1.
Total strength of the class	24 + 37	No. of Students Participating	19
Departure time	9.00 AM.	Arrival time	4.00 PM.

Name of the Organization / Location with Address	Cheyyar Co-op-Sugar Mills Ltd.
Contact person	Mr. Marimuthu
Contact email ID & Phone number	9159356623
Accompanying staff	Mr. Rajesh
Designation	Asst. Professor.
Contact number	
Transport required if any	Yes.
Pickup point & Time	MSAJCE & 9.00 A.M.
Food required if any (For Hostellers)	Yes.
Budget required	8600.

Enclosure:

Documents	YES/NO
Permission Letter	Yes
Students Name List	Yes.
Detail of Scheduled visit	Yes.
Reservation Details/Tickets	-
Boarding & Lodging Details	-
Consent form - From Parent's & Student	

\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp

Sign of the Coordinator

24/2/2024  
(U. THARANIKUMAR)

Sign of the HoD/ ~~Head Student Affairs~~ with date

TPO

  
PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1.	Mr. J. Rejesh	Asst. E. Mech.	8610330141	-	J.P. 22-02-2024

AVJ/ST  
23/02/24  
Sign of the HoD with date  
TPO

Approved / Not Approved

22/02/2024  
Head-Student Affair  
Head - Student Affairs  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.

Format No.: PLA 12

Rev.No.: 01

Rev.Date: 04.01.21

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**The Cheyyar Co-operative Sugar Mills Ltd., D.S.10**

**Anakkavoor - Thenthandalam, Cheyyar-Tk., T.V.Malai Dt., Pin - 604 401.**

Gram : "Cheyyar Sugars"  
Fax : 04182 - 241344

**RECEIPT**

GST No : 33AAAAT3731G1ZU  
E-mail : chyrcsm@gmail.com

Receipt No. **282**

Date: **22/02/2024**

Received with Thanks from	Amount	
	Rs.	P.
M/s. Mohamed Sathak A.J college of Engineering, Chennai 47 students x 30 = 1410/-	1410	-
	1410	-

The Sum of Rupees

- One thousand four hundred and ten only -

**Mode of Payment**

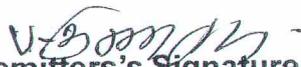
By D.D. / Cheque No. / Cash / Date / Payable at

- By cash -

Towards

5011.00 -15

other Income Received

  
Remitters's Signature

  
22/2/24

M. Gyanith  
22/2/24  
Administrator  
For Managing Director

Under Section 43(a) of the Tamil Nadu Co-op. Societies Act 51 of 1961 / Co-op. Societies are exempted from stamp duty cheques / D.D. subject to Realisation



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.





**MOHAMED SATHAK A.J COLLEGE OF ENGINEERING**  
**Department of Mechanical Engineering**  
**Student Name list -III Year**

Sl. no.	Reg No.	Name	M/F	H/D	Signature
1	311821114001	AADIL T	M	H	
2	311821114002	ABDUL KAFFAR	M	H	
3	311821114003	DHANUSH ADITHYA S	M	D	
4	311821114004	GOKULNATH.D	M	D	
5	311821114005	HAJI PUTHU MYDEEN . S	M	D	AB
6	311821114006	HARI M	M	D	
7	311821114007	JASWIN KUMAR B	M	H	
8	311821114009	MOHAMED ANSARI N	M	D	
9	311821114010	MOHAMED FAZID S	M	D	
10	311821114011	MOHAMMED SAFREES	M	D	AB
11	311821114012	NARESH.P	M	D	
12	311821114014	SANDEEP . S	M	D	
13	311821114015	SEYED AHAMED S .T	M	H	
14	311821114016	SHAIK IRFAN	M	D	
15	311821114017	SHAILESH KUMAR P	M	D	
16	311821114018	UDHAYAKUMAR.G	M	D	
17	311821114301	ABDUR RAHMAN J	M	D	
18	311821114302	CHANDRU P	M	D	AB
19	311821114303	MOHAMED ANWAR TA	M	H	
20	311821114304	RASOOL MOHAMED	M	H	
21	311821114305	SHAMMER AHAMED	M	D	
22	311821114306	SWARUPAMALVAN R	M	D	AB
23	311821114307	SYED MOHAMMED	M	D	AB
24	311821114701	MOHAMED SAMEEM P	M	D	



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Student Name list III Year

S.No	Reg. No	Student Name	Signature
1	311821106001	Abdul Baasit.A	
2	311821106002	Abinaya V	
3	311821106003	Anish Kumar K	
4	311821106004	Ariharan	
5	311821106005	Asma Fathima F T	
6	311821106006	Bhavani H	
7	311821106007	Chithra S	
8	311821106008	Dhinesh C	
9	311821106009	Gajendiran R	
10	311821106010	Gopi K	
11	311821106011	Haaristhameem Ansari	
12	311821106012	Halith Umar R	
13	311821106013	Humaira Nusrath	
14	311821106014	Jayasudhan J	
15	311821106015	Kishore D	
16	311821106016	Maheswaran R	
17	311821106017	Majithul Hikkum	
18	311821106019	Mohamed Yahya N I	
19	311821106020	Mohammed Aathif M	
20	311821106021	Mohammed Ibrahim	
21	311821106024	Nandhini K	
22	311821106025	Pavithra S	
23	311821106027	Safia Farheen Z R	
24	311821106028	Sanjay V	
25	311821106031	Sowndharya G	
26	311821106032	Suhail K	
27	311821106033	Surya T	
28	311821106034	Suvan Kumar R	
29	311821106035	Syed Afrid I	
30	311821106036	Venkatesh S	
31	311821106302	Dhinesh K N	
32	311821106303	Karthikeyan S	
33	311821106304	Sahulhameed T	

Present = 28

Absent = 05

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chenal - 603103.

# Industrial Visit Report - Cheyyar Sugar Mill Plant

Date: 22nd February 2024

## Introduction:

On 22nd February 2024, third-year students from Mohamed Sathak A J College of Engineering undertook an industrial visit to the Cheyyar Sugar Mill Plant. The purpose of the visit was to gain practical insights into the sugar manufacturing process and understand the operational aspects of a sugar mill.

## Objective:

1. To comprehend the various stages of sugar production.
2. To observe and analyze the machinery and equipment used in the sugar mill.
3. To understand the environmental and safety measures implemented in the plant.

## Overview of Cheyyar Sugar Mill Plant:

The Cheyyar Sugar Mill Plant is a well-established facility known for its advanced technology and sustainable practices in sugar production. The plant is equipped with modern machinery to ensure efficient and high-quality sugar manufacturing.

## Key Observations:

1. **Cane Processing:**
  - Witnessed the initial stages of sugar production, including cane crushing and juice extraction.
  - Learned about the different types of sugarcane varieties processed at the mill.
2. **Sugar Refining Process:**
  - Explored the refining process, where the extracted juice undergoes clarification and crystallization.
  - Understand the centrifugal separation method used in sugar crystal formation.
3. **Boiling and Drying:**



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Sipcot - IT Highway Egattur,  
Chennai - 603103.

- Observed the boiling process to concentrate the sugar solution.
- Learned about the drying process to obtain sugar crystals.

4. **\*\*Packaging and Distribution:\*\***

- Explored the packaging unit and witnessed the final stages of sugar production.
- Discussed the logistics and distribution strategies for the finished sugar products.

5. **\*\*Machinery and Technology:\*\***

- Examined the state-of-the-art machinery used in various stages of sugar production.
- Interacted with the plant engineers to understand the technology employed for efficiency.

6. **\*\*Environmental and Safety Measures:\*\***

- Emphasized the plant's commitment to environmental sustainability.
- Discussed safety protocols and measures implemented in the plant.

**Conclusion:**

The industrial visit to Cheyyar Sugar Mill Plant provided valuable insights into the intricate processes involved in sugar production. The students gained practical knowledge about the advanced technology and sustainable practices adopted by the mill. This visit served as an enriching experience, bridging the gap between theoretical knowledge and real-world applications.

**Acknowledgments:**

We express our gratitude to the management and staff of Cheyyar Sugar Mill Plant for their warm hospitality and informative guidance during our visit.

**DHANUSH ADITHYA S**

Mohamed Sathak A J College of Engineering,  
3rd Year Mechanical Department

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**REPORT ON INDUSTRIAL VISIT**

Department of Training and Placement

Name of the Industry	Cheyyar Sugar Mills Ltd
Date of Visit	22.02.2024
Contact Person	Mr.Marimuthu
Target Audience and No of Students Participated	9159356623

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for third year Mechanical Engineering and Electronics and communication Engineering Students on 22.02.2024 to Cheyyar Sugar Mills Ltd. 55 Students along with three faculties were started from MSAJCE Campus at 9.00 a.m by our college bus and they reached cheyyar sugar mills around 11.30 a.m.

**Benefit and Knowledge Gained:**

An industrial visit to Cheyyar Sugar Mills Ltd can offer several benefits and opportunities for gaining knowledge, especially for students or professionals in fields related to sugar production, agriculture, engineering, or business. Here are some potential benefits and knowledge gained from such a visit:

**Practical Understanding:** Participants can gain a practical understanding of the processes involved in sugar production, from harvesting sugarcane to the final refining stages. Seeing the machinery and equipment in action provides insights that cannot be gained from textbooks alone.

**Process Knowledge:** Visitors can learn about the various stages of sugar production, including crushing, clarification, evaporation, crystallization, and drying. They can observe how each stage contributes to the overall process of converting sugarcane into sugar.

**Technology and Equipment:** The visit allows participants to see the advanced technology and equipment used in modern sugar mills. They can learn about the latest innovations and best practices in the industry, including machinery for harvesting, processing, and packaging sugar.

**Environmental and Sustainability Practices:** Many sugar mills are adopting environmentally sustainable practices to reduce waste, conserve resources, and minimize environmental impact. Visitors can learn about these initiatives and how they contribute to sustainability in the sugar industry.

**Supply Chain Management:** Understanding the supply chain dynamics of the sugar industry is crucial for professionals in related fields. Visitors can learn about the sourcing of raw materials, transportation logistics, inventory management, and distribution channels involved in the sugar production and distribution process.

**Career Opportunities:** For students, an industrial visit provides exposure to potential career opportunities in the sugar industry. They can learn about the various roles and career paths available, including opportunities in engineering, operations, quality assurance, management, and research and development.



- Supporting Document Required :
1. Communication letters
  2. Students Report
  3. Photo

*(Signature)*  
 Faculty In-charge  
 (LITHORANIKUMAR)  
 Format no.: PLA 11

*(Signature)*  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.  
 Rev.No: 1.0

*(Signature)*  
 Sign of the HoD with date  
 TPO  
 Rev.Date: 04.01.21



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From,  
Vigneshwaran V,  
Head Training,  
Department of Training and Placement,  
MSAJCE.

To,  
The Principal,  
MSAJCE

*Permitted as per overms  
Doni  
18/04/24*

Respected Sir,

Sub: Request for Permission and Bus for Industrial Visit – Reg

As we planned to take third year Mechanical Engineering (24 students), Civil Engineering (05 Students) and Electrical and Electronics Engineering (17 Students) Total 46 students to Neyveli Lignite Corporation, Neyveli on 24/04/2024 I Kindly request you to grant permission for the visit and sanction the below requested amount and do the needful.

S.No	Description	Amount
1	Transport 340 Kms (Up & Down) 90 Litres Diesel	8316
2	Toll Gate	1000
3	Temporary Permit	8000
4	Driver Bata	500
<b>Total Amount</b>		<b>17816</b>

Among this amount, in total 41 students have paid the training fee may be adjusted for this purpose. Amount of rupees 400 each from the balance 5 non-placement will be collected and deposited into the college.

Thanking You

Chennai

18/04/2024

Yours Faithfully,

*[Signature]*  
**PRINCIPAL**

*[Signature]*  
18/04/24  
Head Training

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*Vote!*

- ① IV-2 for MECH.
- ② IV-1 for EEE & CIVIL



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act



22/04/2024

To,

The Deputy General Manager/PRO,  
Block-2,  
Neyveli Lignite Corporation Limited,  
Neyveli-607801.

**Subject: Confirmation of Industrial Visit for Students on April 24, 2024 (Reference:  
Lr.No:289-1/Visit/PRD/2024)**

Dear Sir,

We are writing to confirm the industrial visit for our students to your esteemed organization on **Wednesday, April 24, 2024**, as per your kind permission granted vide reference number Lr.No:289-1/Visit/PRD/2024 dated April 16, 2024.

This visit is an integral part of our curriculum, allowing students to gain valuable insights into industrial culture, technological advancements, practical applications, and managerial practices.

No of Students: **46**

Branch/year: MECHANICAL, CIVIL & EEE /III Years

Faculties:

1. Mr.Muhammad Irfan Assistant Professor / Mechanical - 8925088057
2. Mrs. Anupriya Assistant Professor / Mechanical - 6381961868

Bus No: TN 22 CY/6455

Thank you in advance.

Enc: Students Name List.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Satai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

With Regards,

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Satai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



No:34, Rajiv Gandhi Road (OMR), IT Highway, Siruseri IT Park, Chennai - 603 103.



044-2747 0024



99400 04500



principal@msaice-edu.in



www.msaice-edu.in

**MSAICE**

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING

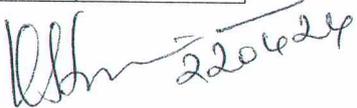
S.No	Reg. No	Student Name	
1	311821114001	AADIL T	
2	311821114002	ABDUL KAFFAR. J	
3	311821114003	DHANUSH ADITHYA S	
4	311821114004	GOKULNATH D	AB
5	311821114005	HAJIPUTHURMYDEEN .S	AB
6	311821114006	HARIM	
7	311821114007	JASWIN KUMAR	
8	311821114008	MOHAMED ANSARI.N	
9	311821114009	MOHAMED FAZID S	
10	311821114010	MOHAMMAD SAFREES N	AB
11	311821114011	NARESH.P	
12	311821114012	SANDEEP.S	AB
13	311821114013	SYED AHAMED S T	
14	311821114014	SHAIK IRFAN K	
15	311821114015	SHAILESH KUMAR P	
16	311821114016	UDHAYAKUMAR. G	
17	311821114017	ABDUR RAHMAN.J	
18	311821114018	CHANDRU	AB
19	311821114019	MOHAMED ANWAR T A	
20	311821114020	RASOOL MOHAMED .I	
21	311821114021	SHAMEER AHMED A	
22	311821114022	SWARUPAMALVAN.R	AB
23	311821114023	SYED MOHAMMED	
24	311821114024	P.MOHAMED SAMEEM	

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING

S.No	Reg. No	Student Name	
1	311821103001	Mohamed Faizal.A (H)	AB
2	311821103002	MOHAMED HAROON,M	
3	311821103003	SANDESH KUMAR K	AB
4	311821103004	SHANMUGAM S (H)	
5	311821103301	MOHAMED KAIF	

  
PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

  
PRINCIPAL

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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Reg. No	Student Name	
1	311821105001	ABDUL MALIK J	AB
2	311821105002	DILLIGANESH A	
3	311821105004	KARTHICK A	
4	311821105005	MOHAMED BASIL S	AB
5	311821105006	MOHAMED IZZAT. A	
6	311821105008	MOHANRAJ.K	
7	311821105010	NAGARAJ. B	
8	311821105011	SHARAIR SARFAN S.A	
9	311821105012	SRIKARTHIK.V	
10	311821105013	SYED HIFZUL RAHMAN F	
11	311821105014	THAMEEM ANSAARI I.S	AB
12	311821105015	THIYAGU . A	AB
13	311821105301	AL MUHASIF RIFATH M	
14	311821105302	HARIHARAN C	
15	311821105304	PRASAD	
16	311821105305	SANTHOSH KUMAR	
17	311821105701	MOHAMED RIAZDEEN	

  
22/06/24

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**EXTERNAL EVENT\* PARTICIPATION**

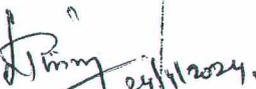
Department	Mechanical, Electrical and Electronics, Civil Engineering	Academic Year	AY 2023-24
Year / Semester	III / VI	Date (s) of Event	ONE DAY
Total strength of the class	46	No. of Students Participating	40
Departure time	4.00 AM	Arrival time	9.PM

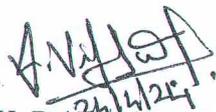
Name of the Organization / Location with Address	Neyvely Lignite Corporation, Neyvely
Contact person	Mr.Gnanaraj / Assistant Executive Manager HR
Contact email ID & Phone number	<a href="mailto:pro.nlc57@gmail.com">pro.nlc57@gmail.com</a>
Accompanying staff	Mr.Muhamad Irfan & Mrs. Anupriya
Designation	Assistant Professor
Contact number	9025050497
Transport required if any	Yes, TN 22 CY 6455
Pickup point & Time	MSAJCE Mens Hostel & 4.00 A.M
Food required if any (For Hostellers)	No
Budget required	17816

**Enclosure:**

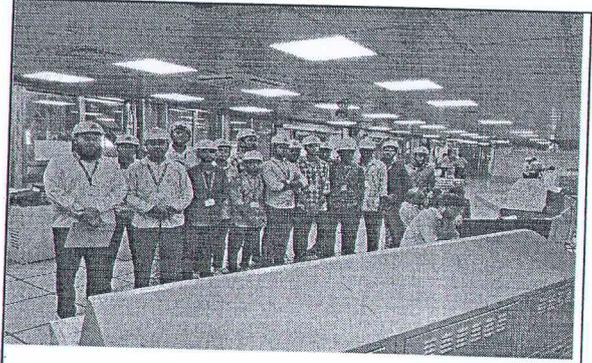
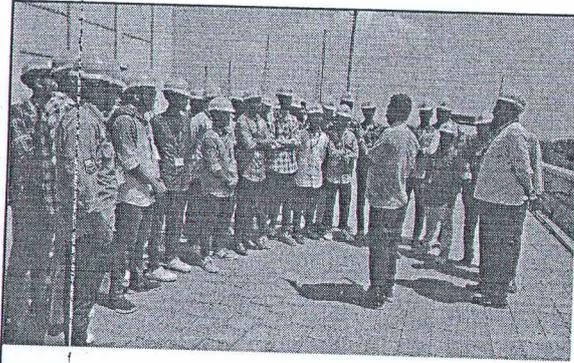
Documents	YES/NO
Permission Letter	Yes
Students Name List	Yes
Detail of Scheduled visit	Yes
Reservation Details/Tickets	No
Boarding & Lodging Details	No
Consent form – From Parent's & Student	Yes

\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp

  
 Sign of the Coordinator  
 (A. THARUNIKUMAR)

  
 Sign of the HoD / Head-Student Affairs with date

  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.



Supporting Document Required :  
1. Communication letters  
2. Students Report  
3. Photo

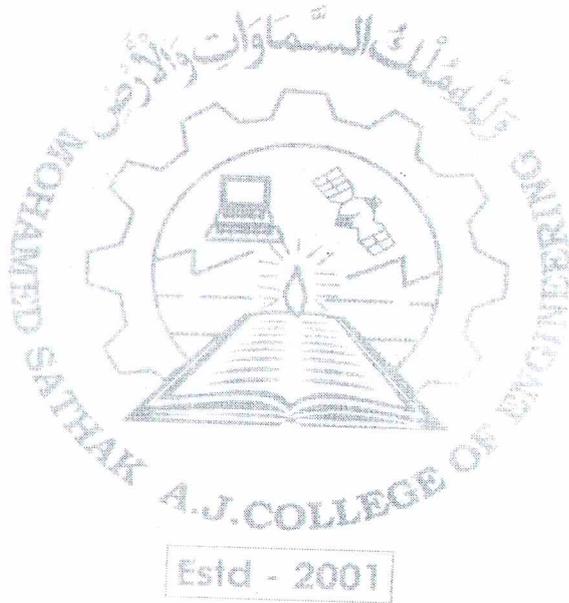
Faculty in charge  
24/4/23  
LL HAR ANIL (202)

Sign of the HoD with date

Format no.: PLA 11

Rev.No: 1.0

Rev.Date: 04.01.21



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**REPORT ON INDUSTRIAL VISIT**

Department of Training and Placement

Name of the Industry	NLC India Limited, Neyveli
Date of Visit	24.04.2024
Contact Person	Mr.Gnanaraj / Asst. Excutive Manager HR
Target Audience and No of Students Participated	36

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for third year Mechanical Engineering, Civil Engineering and Electrical and Electronics Students to NLC India Limited, Neyveli on 24.04.2024. 36 students along with 2 faculties were started from MSAJCE Hostel at 4.00 a.m and they reached the Neyveli at 9.00 a.m.

**Benefit and Knowledge Gained :** Power Generation Technologies: NLC India Limited is a leading company in power generation. By visiting the facilities, students likely gained insights into various power generation technologies, including coal-based power plants, potentially renewable energy sources, and pollution control mechanisms. This practical exposure complements classroom learning about different power generation methods and their technical aspects.

**Coal Mining Operations:** NLC India is also involved in coal mining. If the visit included the coal mines, students would have gained firsthand knowledge about the mining process, safety protocols, and the logistics of coal transportation. This would enrich their understanding of the entire coal-based power generation cycle.

**Sustainable Practices in the Energy Sector:** The visit likely addressed the challenges of sustainable energy production. Students may have observed how NLC India is striving to balance power generation needs with environmental responsibility. This practical knowledge complements theoretical understanding of sustainable energy sources and environmental impact mitigation strategies.

**Overall Benefits:**

The visit to NLC India Limited Neyveli likely provided students with several benefits:

**Enhanced Understanding:** Observing real-world power generation processes would have solidified their theoretical knowledge and provided a deeper understanding of the energy sector.

**Practical Insights:** Witnessing the large-scale operations at NLC India would have given students valuable insights into the practical aspects of power generation and mine management (if applicable).

**Career Exploration:** The visit could have sparked students' interest in specific areas of the power generation sector, helping them make informed decisions about future careers.

Estd - 2001



Photograph

*(Signature)*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

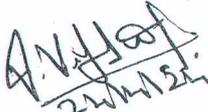
CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

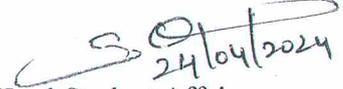
- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1	MUHAMMAD IRFAN	AP & MECH	9025050497	8925088057	
2	Mrs. Anupriya	AP & EEE	6381961868	9488012670	

Approved / Not Approved

  
22/04/2024

Sign of the HoD with date

  
24/04/2024  
Head-Student Affairs

Head - Student Affairs  
Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.  
Rev.Date: 04.01.21

Format No.: PLA 12

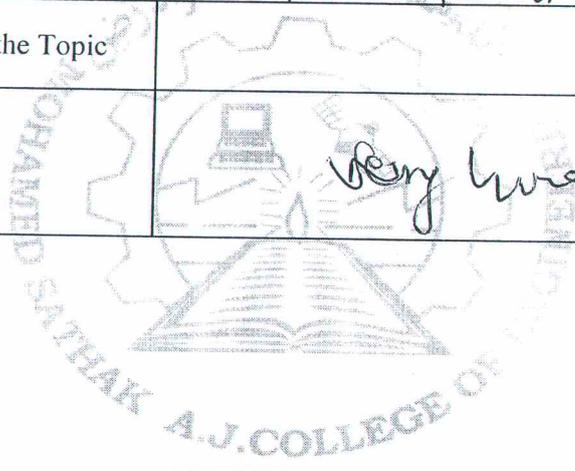
Rev.No.: 01

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON INDUSTRIAL VISIT

Department:	Mechanical Engineering	Academic Year:	2023-24.
Name of the Student	Dhanush Adithyan S.		
Year/ Sem	III / VI		
Name of the Industry / R&D Organization	NLC India Ltd.		
Date of Industrial Vist	24/04/2024.		
Was the Industrail visit is useful?	Very much useful.		
Beneficiary- Departments	MechanE, EEE, Cvl.		
Wether the Industrail visit was related to subject? If Yes mention the subject.	Yes, Thermal, Engg. Power plant Engg.		
Brief summary / Report of the Topic			
General Remarks	Very Good.		



*[Signature]*  
Signature of Student

Format No: FB 11

Estd - 2001 Rev. No : 1.0

Rev. Date : 04.01.21

*[Signature]*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From

05/09/2023

Department of Training and Placement,  
MSAJCE,  
Chennai 603103.

To

The Principal,  
MSAJCE,  
Chennai 603 103.

*Permitted*  
*dm*  
*05/09/23*

Respected Sir,

Sub: Request for Students to Visit an Industrial Site - Reg.

We scheduled an industrial visit for our students to the ISRO Vikram Sarabai Space Museum (Trivandram) and ISRO Propulsion Research Complex (IPRC) in Mahendragiri from September 7 to September 9, 2023. Therefore, we ask for authorization for the trip and give them the go-ahead to be On-Duty for the following faculty members and students who will be attending the industrial tour.

Faculty accompanying students for industrial visit

Mr. Vinodh S.V. Asst. Professor / EEE

Mrs. Priya Asst. Professor / IT

Student Name list enclosed.

Thank you for your time and consideration.

Yours Sincerely,

*A.V. Vinodh*  
*05/09/23*  
Head / Training and Placement

Copy to:

Chairman,  
IQAC,  
All Dept Hods,  
Notice Board

*[Signature]*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act



Ref..No: MSAJCE/TP-015 /2023-24

31.08.2023

To,  
The Director,  
ISRO Propulsion Complex (IPRC)  
Indian Space Research Organisation (ISRO)  
Department of Space (DoS), Government of India  
Mahendragiri, Tamil Nadu - 627133

Respected Sir,

Sub: Requesting permission for and industrial visit to ISRO Propulsion Complex (IPRC) Mahendragiri – Reg.

Mohamed Sathak AJ College of Engineering College, Chennai

The Mohamed Sathak AJ College of Engineering was established in 2001 by the Mohamed Sathak Trust; It is approved by AICTE and Affiliated to Anna University offering 6 UG Courses and 2 PG Courses. The college provides a conducive environment for intellectual development, free thinking and personal growth. Centres of Excellence in association with industries are established for challenging its students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibility in society.

As a part of curriculum an Industrial Visit is mandatory to understand the industrial culture, Technology development and used in the Industry, Managing skill etc. Hence, we request you to kindly permit our students of Mechanical, ECE CSE & IT branches, at ISRO Propulsion Complex (IPRC) Mahendragiri.

No. of Students: 46 + 2 Faculties

Branch: CSE, IT, ECE and MECH

Details of Faculty Members: 1. Mr.Vinodh. Asst.Professor /EEE

2. Mrs.Priya Asst.Professor /IT

Thank you

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

With Regards,

Mr. V. Vigneshwaran / Head, T&P



S. No.	Name	Reg. No.	Category	Dept.	Mobile No.
1	A. Rehanakhanm	311821205047	Female	IT	7305933615
2	L. Fazeela	311821205014	Female	IT	9150304582
3	M.Mugilan	311821205037	Male	IT	9791371822
4	Durgadevi K	311821205012	Female	IT	9626020826
5	NithyaSree	311821205041	Female	IT	8939562719
6	D. Laksha	311821104021	Female	CSE	9677156886
7	Y. Prajesh ram	311821205043	Male	IT	9344504534
8	G. Mohammed Farhan	311921104035	Male	CSE	9840554561
9	N. Tawfeeq Ahmed	311821104058	Male	CSE	9962512282
10	Syed Mohammed Mateen	311821104054	Male	CSE	7338928404
11	Jameel Asfer	311821104037	Male	CSE	7550258205
12	Syed Sameer Khan	311821104056	Male	CSE	9688776555
13	Gulabi Basharith	311821104011	Male	CSE	7200640163
14	M. Harini	311821104013	Female	CSE	8124806788
15	K. Darshini	311821104006	Male	CSE	7305158549
16	A. Divya	311821104009	Female	CSE	9360978177
17	S. Swetha	31182104051	Female	CSE	9841252094
18	E.D. Umamaheshwari	311821104059	Female	CSE	7806973425
19	M. Imayavarmah	311821205017	Male	IT	9976629429
20	S.M. Abubacker Sideeq	311821205501	Male	IT	7708654517
21	Muhasin Ahamed	311821205039	Male	IT	9600362702
22	R. Rakshita	311821205046	Female	IT	6382348752
23	A. Azeel Ahmed	311821104005	Male	CSE	8428179777
24	S. Vishali	311821104060	Female	CSE	9487665078
25	M. Mohamed Taariq	311821205303	Male	IT	7708948893
26	N.I. Mohamed Yahya	311821106019	Male	ECE	6369170390
27	K. Ashif Hussain	311821104004	Male	CSE	6385397351
28	A. Akshaya	311821205007	Female	IT	7550131950
29	M. Dhanusiya	311821205011	Female	IT	9789887752
30	D.Lenatamil	311821104022	Male	CSE	8667058627
31	Prarthana B	311821205044	Female	IT	8220019722
32	Humaira Nusrath S	311821106013	Female	ECE	7598560366
33	Manikandan	311821104023	Male	CSE	6374145071
34	Hari M	311821114010	Male	Mech	9600155410
35	A. Shameer Ahamed	311821114305	Male	Mech	9042310142
36	G. Udhaya kumar	311821114018	Male	Mech	9345225037
37	Syed Mohammed	311821114307	Male	Mech	9789948641
38	N. Mohamed Ansari	311821114009	Male	Mech	6374414840
39	Dhanush Adithya S	311821114003	Male	Mech	7845984211
40	AADIL T	311821114001	Male	Mech	9994937928
41	RASOOL MOHAMED	311821114304	Male	Mech	9445609088
42	SANDEEP . S	311821114014	Male	Mech	8667442607
43	SHAILESH KUMAR P	311821114017	Male	Mech	7904637597



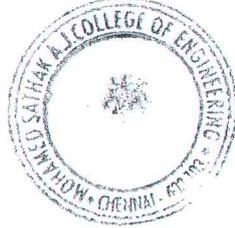
Handwritten signature and date: 31/08/23

Handwritten signature of the Principal.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

44	MOHAMED ANWAR TA	311821114303	Male	Mech	8667879551
45	JASWIN KUMAR B	311821114007	Male	Mech	9363047299
46	Syed Afrid	311821106035	Male	ECE	9940370912
47	Vinodh	Staff	Male	EEE	9940902255
48	Priya	Staff	Female	IT	9597690065



Handwritten signature and date: 31/08/23

Handwritten signature in green ink.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

भारत सरकार  
अंतरिक्ष विभाग  
इसरो नोदन कॉम्प्लेक्स (आईपीआरसी)  
महेंद्रगिरि पी.ओ., तिरुनेलवेली जिला- 627 133  
तमिलनाडु, भारत  
दूरभाष : 04637 281900 (प्रचालक)  
फैक्स : 04637 281618 (प्रशासन)  
04637 232661 (क्रय)  
04637 281567 (भण्डार)  
04637 281541 (लेखा)



Government of India  
Department of Space  
**ISRO Propulsion Complex (IPRC)**  
Mahendragiri P. O., Tirunelveli District - 627 133  
Tamil Nadu, India  
Telephone : 04637 281900 (Operator)  
Fax : 04637 281618 (Administration)  
04637 232661 (Purchase)  
04637 281567 (Stores)  
04637 281541 (Accounts)

IPRC/PPED/SDSM/163/23

04.09.2023

Sub : Visit to IPRC/ISRO Mahendragiri : Permission-reg

Ref : Your letter No. MSAJCE/TP-015/2020-23 & dtd : 31.08.2023

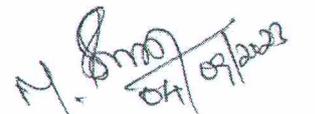
Sir/Madam,

With reference to your request on the subject 46 Students and 2 Staff members of Mohamed Sathak A.J. College Of Engineering, Chennai are permitted to visit IPRC, Mahendragiri, at 10.00 hrs, on 07.09.2023. Wishing the team a fruitful visit.

Carrying of camera, mobile phones or any other personal belongings, inside the campus is strictly prohibited. Students are expected to observe strict discipline inside the campus, and to follow safety protocols.

Visitors are requested to report to Main security gate of IPRC by 09.30 Hrs, with their College / School ID card, for security check and further guidance.

With regards.

  
(M. Suresh)  
GH, MSA

To

The Principal  
Mohamed Sathak A.J. College Of Engineering  
Siruseri IT Park  
Chennai-603103

Cc

1. Sr. Admin Officer, IPRC

2. EIC, TOMF

3. Dy. Commandant, CISF, IPRC

4. Director, IPRC

: Kindly arrange to provide 1 bus to facilitate pickup from main gate, internal trip & drop back to main gate from 09.45 Hrs to 13.00 Hrs on 07.09.2023.

: The visitors shall be permitted, escorted by CISF personnel, to visit Space Museum and Major Facilities.

: for kind information.



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Placement Cell &lt;placement@msajce-edu.in&gt;

**Request for an Industrial Visit - Reg**

4 messages

**Placement Officer** <placement@msajce-edu.in>

Thu, Aug 3, 2023 at 6:52 PM

To: director@iprc.gov.in

Cc: vijayapandiyam@iprc.gov.in

Respected Head, ISRO Propulsion Complex,

Greetings from Mohamed Sathak A J College of Engineering, Chennai.,

As a part of the degree, in order to graduate, it is compulsory for a student to undergo an Industrial visit. I request you to provide the permission to visit ISRO Propulsion Complex for CSE, IT, Mechanical, EEE, Civil, and ECE Engineering Students on 07/09/2023 or 08/09/2023 or give us any other feasible and possible date.

This experience for the student is invaluable, regarded by many as a highlight of their undergraduate study and a terrific opportunity for their professional development., We'd like to ask you to accept our request and do what's needed.,

With Thanks &amp; Regards,

Vigneshwaran V

Placement Officer,

Department of Training and Placement,

Mohamed Sathak AJ College of Engineering,

7904117425

MSAJCE WEBLINK

 ISRO Propulsion Permission Letter.pdf

179K

**Idirector@iprc.gov.in** <director@iprc.gov.in>

Thu, Aug 3, 2023 at 6:54 PM

To: Placement Officer &lt;placement@msajce-edu.in&gt;

Dear Sir/Madam,

Warm greetings from ISRO!!!

With reference to your mail. We are pleased to inform you that we can give permission for the visit on 07/09/2023 from 11:00 am to 14:00 pm

Instruction to be followed will sent to you by mail later

With Regards

ISRO Propulsion Complex ISRO,  
Department of Space Mahendragiri,  
Tirunelveli District  
Tamil Nadu - 627 133

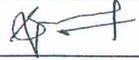
  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1.	Vinodh S.V	AP/EEE	9940902255	-	
2.	Priya	AP/JT	9597690065	9486346442	R. Priya

Approved / Not Approved

Sign of the ~~HOD~~ with date  
IPO

Head-Student Affair

Dr. S. Denkala.

Format No.: PLA 12

Rev.No.: 01

Rev.Date: 04.01.21

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

REPORT ON INDUSTRIAL VISIT

Department of Training and Placement

Name of the Industry	ISRO Propulsion Complex, Mahendragiri
Date of Visit	07.09.23
Contact Person	The Director- Mail Communication
Target Audience and No of Students Participated	45 Final Year Students of CSE,IT,Mechanical,ECE

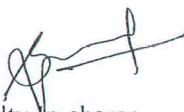
**Brief note about the Visit / Curriculum gap addressed :**  
 45 no of students along with 2 faculties started the journey from our hotel at 09:30 AM to ISRO Mahendragiri and we reached the location by 11:00 AM ,Once we reached, we went through the security check and we were provided with a custodian and an expert, went inside the campus by ISRO bus. First we went inside the seminar hall where we were explained with different types of launch vehicles and propulsion compounds used in them and we went inside the museum inside the campus and from where we went for tour inside the campus by bus and we saw different the different testing pads in the campus.

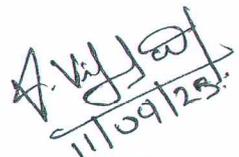
**Benefit and Knowledge Gained :** We came to know about the 17 organisations linked with ISRO and their functionalities, it is seen that all those combined to work to provide the space vehicle and main work of the ISRO Mahendragiri is liquid propulsion testing and after getting approval from the IPRC the manufactured part will be sent to SriHarikota.

Relevance with Academic : Yes

<p>Photographs</p>	 <p style="text-align: center;">Students in ISRO Mahendragiri</p>	 <p style="text-align: center;">Students in ISRO Mahendragiri</p>
--------------------	--	---

Supporting Document Required :  
 1. Communication letters  
 2. Students Report  
 3. Photo

  
 Faculty In-charge

  
 Sign of the HoD with date

  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

Gmail - VSSC Space Museum visit - Acknowledgement

9/5/23, 10:51 AM

THARANIKUMAR LOGANATHAN <tharani119@gmail.com>



## VSSC Space Museum visit - Acknowledgement

1 message

11 August 2023 at 14:36

no-reply@vssc.gov.in <no-reply@vssc.gov.in>  
To: tharani119@gmail.com

Dear Vinodh S.V.

Your request to visit space museum has been successfully registered.  
This request is under processing. Approval will be intimated by email and SMS.

Request ID: 30856  
Date of visit: 08-09-2023 9:30 AM  
Nos. of Visitors: 36

*For any further queries, please contact public Relations : 0471-2564292, 2565649*

Regards,  
Public Relations Officer, VSSC.

\*\*\* PLEASE DON'T REPLY TO THIS MAIL \*\*\*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

9/5/23, 10:52 AM

Gmail - VSSC Space Museum visit - Acknowledgement



THARANIKUMAR LOGANATHAN <tharani119@gmail.com>

## VSSC Space Museum visit - Acknowledgement

1 message

no-reply@vssc.gov.in <no-reply@vssc.gov.in>  
To: tharani119@gmail.com

16 August 2023 at 16:53

Dear Dhanush Adithya S,

Your request to visit space museum has been successfully registered.  
This request is under processing. Approval will be intimated by email and SMS.

Request ID: 30872  
Date of visit :08-09-2023 9.30 AM  
Nos. of Visitors :12

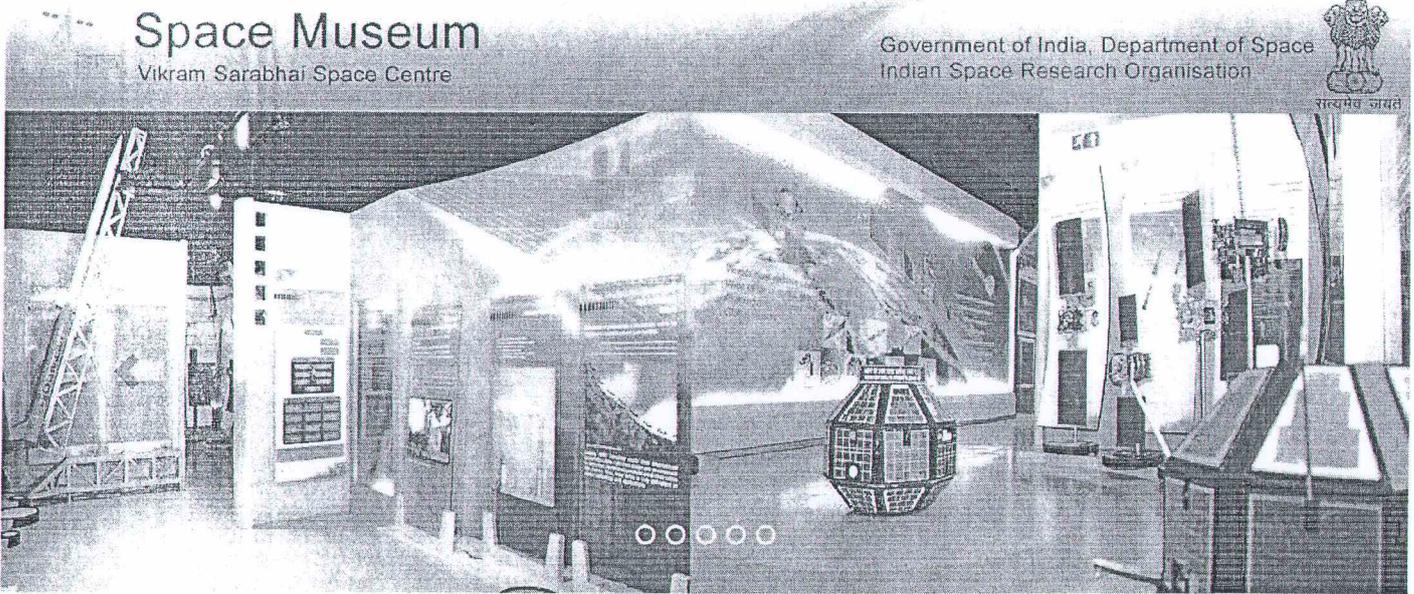
*For any further queries, please contact public Relations : 0471-2564292, 2565649*

Regards,  
Public Relations Officer, VSSC.

\*\*\*\* PLEASE DON'T REPLY TO THIS MAIL\*\*\*\*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



New Visit Request

Request Status

Cancel Request

### Space Museum visit request status

Request ID	30856	Name	
Vinodh S V	Date of Visit	08-09-2023	
		Status	
		Accepted	

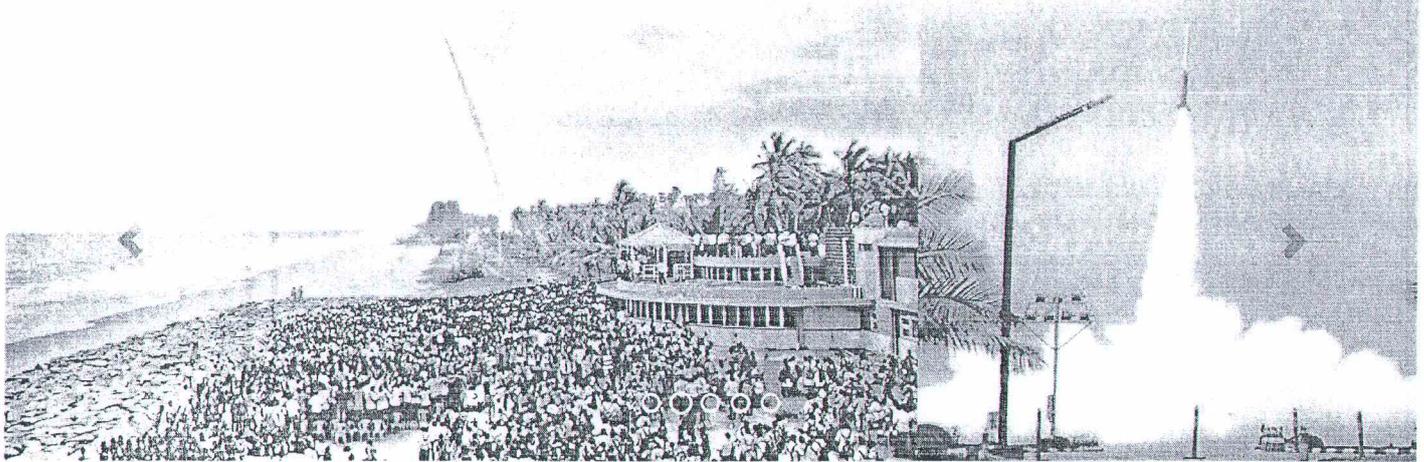
  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egaitur,  
Chennai - 603103.

Vikram Sarabhai Space Centre 2015

# Space Museum

Vikram Sarabhai Space Centre

Government of India, Department of Space  
Indian Space Research Organisation



New Visit Request

Request Status

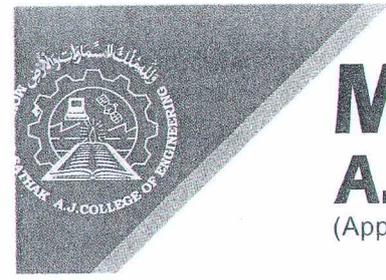
Cancel Request

### Space Museum visit request status

Request ID	⇒	30872	Name	⇒
Dhanush Adithya S	Date of Visit	⇒	08-09-2023	
			Status	⇒
			Accepted	

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Vikram Sarabhai Space Centre 2015



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act



Ref. No.: MSAJCE / TPC / 008/ 2023-24

Date: 06.09.2023

To

**The Director,**  
Vikram Sarabhai Space Centre,  
Thiruvananthapuram, Kerala, India  
Pin Code:695022

Sub: Visiting your premises- Reg

Respected Sir/Mam,

The following students are the bonafide students of our college. They are willing to visit your centre. Kindly permit them to visit.

With Regards

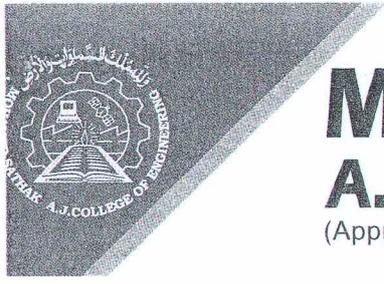
*Vigneshwaran*  
06/09/2023  
V. Vigneshwaran

Head Training and Placement



*Mohamed Sathak*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Recognized under UGC 12B & 2f Act



To

Date - 11.08.2023

The Chief Reservation Supervisor  
Southern Railways,  
Chennai - 600003,

Respected Sir,

Sub:- Requisition for bulk booking with concession for travel up to Chennai to Nagarcoil & return tickets from Trivandram to Chennai - Reg

As the part of Curriculum, the Induction program is conducted to the students for Third year by the staff members of **Mohamed Sathak A J College of Engineering**. We hereby request you to consider the bulk booking of tickets with concession for ( **34 nos of students & 2 nos Escorts** ) in train. Kindly consider our requisition and help us in taking appropriate steps for booking the tickets.

Thanking you

Our Ticket Purchaser  
Mr L.Tharanikumar  
Ph - 9944903483  
( Assistant Professor )

Dr. S. VijayaKumar

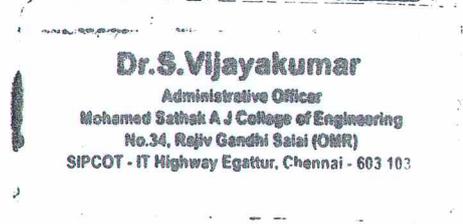


Photo copy of his ID card is enclosed

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Mohamed Sathak AJ College of Engineering

Department of Training and Placement - Industrial Visit to ISRO - Mahendragiri &  
Trivandram - List of students

S. No.	Name	Sex	Age	Dept.	Mobile No.	Adhar No.
1	A. Rehanakhanm	Female	20	IT	7305933615	962986353607
2	L. Fazeela	Female	21	IT	9150304582	808236723352
3	M.Mugilan	Male	20	IT	9791371822	724479112974
4	Durgadevi K	Female	21	IT	9626020826	635830625988
5	NithyaSree	Female	20	IT	8939562719	906487015000
6	D. Laksha	Female	20	CSE	9677156886	755060251143
7	Y. Prajesh ram	Male	21	IT	9344504534	607825826471
8	G. Mohammed Farhan	Male	20	CSE	9840554561	230633009329
9	N. Tawfeeq Ahmed	Male	20	CSE	9962512282	588259502167
10	Syed Mohammed Mateen	Male	20	CSE	7338928404	856990763286
11	Jameel Asfer	Male	20	CSE	7550258205	641845201765
12	Syed Sameer Khan	Male	20	CSE	9688776555	225524805130
13	Gulabi Basharith	Male	21	CSE	7200640163	796550140979
14	M. Harini	Female	21	CSE	8124806788	706917927966
15	K. Darshini	Female	20	CSE	7305158549	432980507652
16	A. Divya	Female	20	CSE	9360978177	398247495990
17	S. Swetha	Female	21	CSE	9841252094	623721069687
18	E.D. Umamaheshwari	Female	20	CSE	7806973425	915056336057
19	Vinodh S V / Escort	Male	26	EEE	9940902255	593749984459
20	Priya / Escort	Female	39	IT	9597690065	229742950802
21	M. Imayavarmah	Male	20	IT	9976629429	205813652751
22	S.M. Abubacker Sideeq	Male	21	IT	7708654517	712423138998
23	Muhasin Ahamed	Male	21	IT	9600362702	218896646426
24	R. Rakshita	Female	20	IT	6382348752	852193383109
25	A. Azeel Ahmed	Male	21	CSE	8428179777	242364909688
26	S. Vishali	Female	21	CSE	9487665078	710237834709
27	M. Mohamed Taariq	Male	20	IT	7708948893	546577527310

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
SIPCOT - IT Highway Egattur,  
Chennai - 603103.

**Dr.S.Vijayakumar**

Administrative Officer  
Mohamed Sathak A J College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
SIPCOT - IT Highway Egattur, Chennai - 603 103.

28	N.I. Mohamed Yahya	Male	21	ECE	6369170390	705806567659
29	K. Ashif Hussain	Male	21	CSE	6385397351	626881750932
30	A. Akshaya	Female	21	IT	7550131950	580751469601
31	M. Dhanusiya	Female	20	IT	9789887752	378111889982
32	D.Lenatamil	Male	21	CSE	8667058627	649754043595
33	Prarthana B	Female	21	IT	8220019722	463348135670
34	Humaira Nusrath S	Female	21	ECE	7598560366	754111599043
35	Manikandan	Male	20	CSE	6374145071	844172049877
36	Hari Murali	Male	21	Mech	9600155410	556292509356

12/18  
SOUTHERN RAILWAY  
CHENNAI CENTRAL

*(Signature)*

**Dr.S.Vijayakumar**  
Administrative Officer  
Mohamed Sathak A J College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
SIPCOT - IT Highway Egattur, Chennai - 603 103.

*(Signature)*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

REPORT ON INDUSTRIAL VISIT

Department of Training and Placement

Name of the Industry	Vikram Sarabhai Space Centre
Date of Visit	08.09.23
Contact Person	The Director- Mail Communication
Target Audience and No of Students Participated	45 Final Year Students of CSE,IT,Mechanical,ECE

**Brief note about the Visit / Curriculum gap addressed :**  
 45 no of students along with 2 faculties started the journey from our hotel at 08:30 AM to space centre and we reached the location by 10:00 AM .Once we reached, we went through the security check and we were provided with an expert. First we went inside the seminar hall where we were explained with different types of launch vehicles and propulsion compounds used in them and we went inside the museum inside the campus and from where we went for tour inside the campus by bus and we saw different the different testing pads in the campus.

**Benefit and Knowledge Gained :** We came to know about the 17 organisations linked with ISRO and their functionalities, it is seen that all those combined to work to provide the space vehicle and mainly in solid propulsion system aerospace and after getting confirmation from the VSSC the project gets shifted to the ISRO Sriharikota

Relevance with Academic : Yes

Photographs



Students in VSSC



Students in VSSC

- Supporting Document Required :
1. Communication letters
  2. Students Report
  3. Photo

Faculty In-charge

Sign of the HoD with date

Format no.: PLA 11

Rev.No: 1.0

Rev.Date: 04.01.21

*(Signature)*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



From,  
Vigneshwaran V,  
Head Training,  
Department of Training and Placement,  
MSAJCE.

To,  
The Principal,  
MSAJCE

*Permitted as per norms*

*[Signature]*  
18/04/24

Respected Sir,

Sub: Request for Permission and Bus for Industrial Visit – Reg

As we planned to take First year (240) and Second year (237) students to Chennai Trade Centre, Nandhanam for International Machine Tools Exhibition(IMTOF), 2024 organized by Madras Machine Tools Manufacture Association on 22/04/2024 at 09:00 am. I kindly request you to grant permission, provide food for 150 hostel students and transport facility (8 Bus required) and do the needful.

Thanking You

Chennai

18/04/2024

Yours Faithfully,

*[Signature]*  
18/04/24  
Head Training

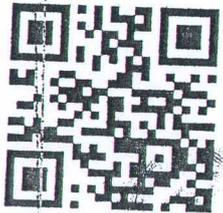
*[Signature]*  
PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Platinum Sponsor  
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Dare to dream

**A SARANYA**  
Student  
MSAJCE



IMT-8939496537-9002

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**



Platinum Sponso  
**bodbor**  
Dare to dream

**G SULTHAN MASHUD**  
Founder  
Mashud

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**



Eventlнк - Event Mangement Software



Platinum Sponsor  
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Dare to dream

**YUVANRAJ**  
Student  
Mohammad Sathak Aj College Of Engineering



IMT-9003545058-9073

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603105.



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Dare to dream

**SASIDHARAN R**  
Student

Mohammad Sathak A J College Of Engineering



IMT-8946054432-8946

Event Extended upto 23<sup>rd</sup> April, 2024.



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**KARTHIK**  
Student

Mohammad Sathak Aj College Of Engineering



IMT-6381697993-9017

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

**VISITOR**

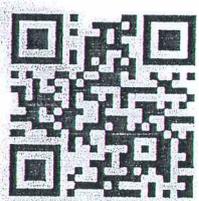
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**B.BARATH**  
Student

Mohamad Sathak Aj College Of Engineering



IMT-8190838311-9209

Event Extended upto 23<sup>rd</sup> April, 2024.



Platinum Sponsor  
**bodor**  
Dare to dream

**NAVANEETHAKRISHNAN A**  
Student

Mohamed Sathak AJ College Of Engineering



IMT-8778321409-8807

Event Extended upto 23<sup>rd</sup> April, 2024.

*Principal Signature*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Selai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**VISITOR**

**VISITOR**



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**bodbor**  
Dare to dream

**THIRUNAVUKKARASU**

Student  
MSAJCE



IMT-6383438771-8797

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**



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Dare to dream

**VIJAY**

Student  
MSAJCE



IMT-6374642974-8749

Event Extended upto 23<sup>rd</sup> April, 2024.

**VISITOR**

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823106001	AAKAASH B	ECE	Kaash B
2	311823106002	ABDUL JUMAIL M	ECE	Jumail
3	311823106003	ABDULLA S	ECE	Abdulla S
4	311823106004	ABISHEK A	ECE	Abishek A
5	311823106005	AHAMED JABIR U	ECE	Ahamed Jabir U
6	311823106006	AJAY V	ECE	Ajay V
7	311823106007	AKASH K	ECE	Akash K
8	311823106008	ANWAR JAMAL P	ECE	Anwar Jamal P
9	311823106009	ARAVINTHAN S	ECE	Aravintan S
10	311823106010	BALANANDHA A	ECE	Balanandha A
11	311823106011	BASHEER AHMED M Y	ECE	Basheer Ahmed M Y
12	311823106012	BEE BEE JANE R	ECE	R. Bee Bee Jane
13	311823106013	DHANUJA R	ECE	R. Dhanuja
14	311823106014	FAHD AHMED KHAN K	ECE	Fahd Ahmed Khan K
15	311823106015	GOKULA KANNAN K	ECE	Gokula Kannan K
16	311823106016	HARISHKUMAR S	ECE	Harishkumar S
17	311823106017	HEMALATHA P	ECE	Hemalatha P
18	311823106018	JAYAKUMAR V	ECE	V. Jayakumar
19	311823106019	JEFFIN SAM RAJ D	ECE	Jeffin Sam Raj D
20	311823106020	KAMALNATH P	ECE	Kamalnath P
21	311823106021	KAVIRAJAN P T	ECE	P.T. Kavirajan
22	311823106022	KHABIRA M	ECE	Khabira M
23	311823106023	MADHAN KUMAR S	ECE	Madhan Kumar S
24	311823106024	MAHIRA SULTHANA R	ECE	Mahira Sulthana R
25	311823106025	MAMATHA M	ECE	Mamatha M
26	311823106026	MANOTHANGA KARTHICK M	ECE	Manothanga Karthick M
27	311823106027	MOHAIDEEN MAHDEEF M	ECE	Mohaideen Mahdeef M
28	311823106028	MOHAMED AJMAL M	ECE	Mohamed Ajmal M
29	311823106029	MOHAMED FAYAS M	ECE	Mohamed Fayas M
30	311823106030	MOHAMED HATHEM P	ECE	Mohamed Hatthem P
31	311823106031	MOHAMED JAHIR H	ECE	Mohamed Jahir H
32	311823106032	MOHAMED NATHIR S	ECE	Mohamed Nathir S
33	311823106033	MOHAMED RIHAM M A	ECE	Mohamed Riham M A
34	311823106034	MOHAMED YASITH M K	ECE	Mohamed Yasith M K
35	311823106035	MOHAMMAD ANSAR A	ECE	Mohammad Ansar A
36	311823106036	MOHAMMED BASITH C	ECE	Mohammed Basith C
37	311823106037	MOHAMMED FAHEEM H	ECE	Mohammed Faheem H
38	311823106038	MOHAMMED RISWAN R	ECE	Mohammed Riswan R
39	311823106039	MOHAMMED SALMAN M	ECE	Mohammed Salman M

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823105001	MOHAMED AFRAN K	Electrical and Electronics Engineering	
2	311823105002	MOHAMED IRFAN N	Electrical and Electronics Engineering	
3	311823105003	MOHAMED JIYATH B	Electrical and Electronics Engineering	
4	311823105004	MOHAMED NAYEEM M	Electrical and Electronics Engineering	
5	311823105005	YUVANRAJ V	Electrical and Electronics Engineering	

S.No	Register Number	Student Name	Department	Signature
1	311823103001	ADHISWAR M	Civil	
2	311823103002	GURIJALA CHANDRA PRAKASH BABU	Civil	

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
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Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
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**Department of Training and Placement**

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823149001	AKSHAY V	Cyber Security	
2	311823149002	ANSAR NISHA W	Cyber Security	
3	311823149003	ESTHER E	Cyber Security	
4	311823149004	IMAM ALI I	Cyber Security	
5	311823149005	JANNATHUL FIRTHOSE	Cyber Security	
6	311823149006	JOSHUA S	Cyber Security	
7	311823149007	MADHU MEENA R	Cyber Security	
8	311823149008	MAHATHIR MOHAMED S	Cyber Security	
9	311823149009	MOHAMED T	Cyber Security	
10	311823149010	MOHAMED ANAS A	Cyber Security	
11	311823149011	MOHAMED ASIF RASOQ	Cyber Security	
12	311823149012	MOHAMED FAYAZ M A	Cyber Security	
13	311823149013	MOHAMED SHAHITH M	Cyber Security	
14	311823149014	MOHAMMED SADIQ AL	Cyber Security	
15	311823149015	M	Cyber Security	
16	311823149016	NAVADHARSHAN K	Cyber Security	
17	311823149017	PRANAV S	Cyber Security	
18	311823149018	SASIDHARAN R	Cyber Security	
19	311823149019	SHARUKESH E	Cyber Security	
20	311823149020	SRI GANESH A	Cyber Security	
21	311823149021	SUBHASRI R	Cyber Security	
22	311823149022	SYED SAMEER S	Cyber Security	

**PRINCIPAL**

**Department of Training and Placement**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Date:

S.No	Register Number	Student Name	Department	Signature
1	311823114001	AMEER BASHA M H	Mechanical Engineering	
2	311823114002	BAASIM M	Mechanical Engineering	
3	311823114003	DIVAKAR D	Mechanical Engineering	
4	311823114004	HAJI MOHAMED S	Mechanical Engineering	
5	311823114005	HARI VISHAL C	Mechanical Engineering	
6	311823114006	IJAS AHAMED R	Mechanical Engineering	
7	311823114007	MOHAMED SUHAIL S	Mechanical Engineering	

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**EXTERNAL EVENT\* PARTICIPATION**

Department	All First years and Second Years	Academic Year	AY 2023-24
Year / Semester	I & II / II & IV	Date (s) of Event	ONE DAY
Total strength of the class	477	No. of Students Participating	251
Departure time	10.00 AM	Arrival time	3.30.PM

Name of the Organization / Location with Address	International Machine Tool Exhibition, Trade Centre Nandambakkam, Chennai
Contact person	
Contact email ID & Phone number	
Accompanying staff	Dr.Prasath, Mr.Pandarinathan, Dr.Muthumari, Mr.Senthil Kumar, Mrs, Rajeshwari, Dr.Kavitha
Designation	Assistant Professor & Associate Professors
Contact number	8248083360
Transport required if any	Yes,
Pickup point & Time	MSAJCE Mens Hostel & 10.00 A.M
Food required if any (For Hostellers)	No
Budget required	Nil

**Enclosure:**

Documents	YES/NO
Permission Letter	Yes
Students Name List	Yes
Detail of Scheduled visit	Yes
Reservation Details/Tickets	No
Boarding & Lodging Details	No
Consent form – From Parent's & Student	No

\*Industrial Visit / NSS / Sports / UBA / State & National Competition / Camp

Sign of the Coordinator  
*(Signature)*

Sign of the HoD / Head-Student Affairs with date  
*(Signature)*  
Head EDC

*(Signature)*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSENT FORM – INDUSTRIAL VISIT / TOUR

Undertaking Letter from Accompanying Staff/Faculty - Industrial Visits/Tour

- I/we will take care of the students participating in the tour
- I/We will ensure that the students will abide by rule and regulations of MSAJCE and also the Institution/Organization/Company/industry or the local authority of the place to which such tour is undertaken.
- I/We hereby state that all the parents/guardians of the students concerned are informed of their official trip well in advance and obtained their consent.
- I/We liable for disciplinary action if it is found that the safety of students is compromised in any manner during the tour.
- Students will not be taken or allowed to mountain areas, rivers, canals, beaches, water parks, reservoirs forest areas, etc and I/We are personally liable and answerable for any such untoward incident taking place during the tour. I/We shall ensure that if any activities are necessary in and around water bodies such as boating, swimming, rowing, and sailing, must be carried out under the supervision of a trainer/life guard only.

S. No	Name of the Faculty/Staff	Design. & Dept.	Mobile No	Alternative No	Signature
1	V. Pandarinnathan	AP/CSIE	9789079388	-	
2	Dr. S. PRASATH	Asso. Prof/Mech	8248083360	-	
3	Dr. M. Muthumari	AP/Physics	9994472632	-	
4	Mr. K. Senthil Kumar	AP/MATHS	9894507709	-	
5	Mrs. S. RAJESWAR	AP/Maths	9790234295	-	
6	Dr. J. Kandar	AP/Maths	9003619026	-	

Approved / Not Approved

24/4/24  
Sign of the HoD with date

22/04/2024  
Head-Student Affair  
Head - Student Affairs

Mohamed Sathak A.J. College of Engineering  
Siruseri IT Park, Chennai - 603 103.

Format No.: PLA 12

Rev.No.: 01

Rev.Date: 04.01.21

PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**REPORT ON INDUSTRIAL VISIT**

Department of Training and Placement

Name of the Industry	International Machine Tool Show 2024, Nandhambakkam Trade centre, Chennai
Date of Visit	22.04.2024
Contact Person	
Target Audience and No of Students Participated	250

Brief note about the Visit / Curriculum gap addressed : Department of Training and Placement arranged an Industrial visit for First year and Second year Students on 22.04.2024 to International Machine Tool Show (IMTOF) 2024 held at the Nandhambakkam Trade Centre in Chennai. 250 Students along with 6 faculties were started from MSAJCE Campus at 10.00 a.m by our college bus and reached Nandambakkam at 11.30 a.m

Benefit and Knowledge Gained : Students from Mohamed Sathak A J College of Engineering recently participated in an industrial visit to the International Machine Tool Show (IMTOF) 2024 held at the Nandhambakkam Trade Centre in Chennai. This visit served to bridge the gap between theoretical knowledge gained in the classroom and the practical realities of the manufacturing industry.

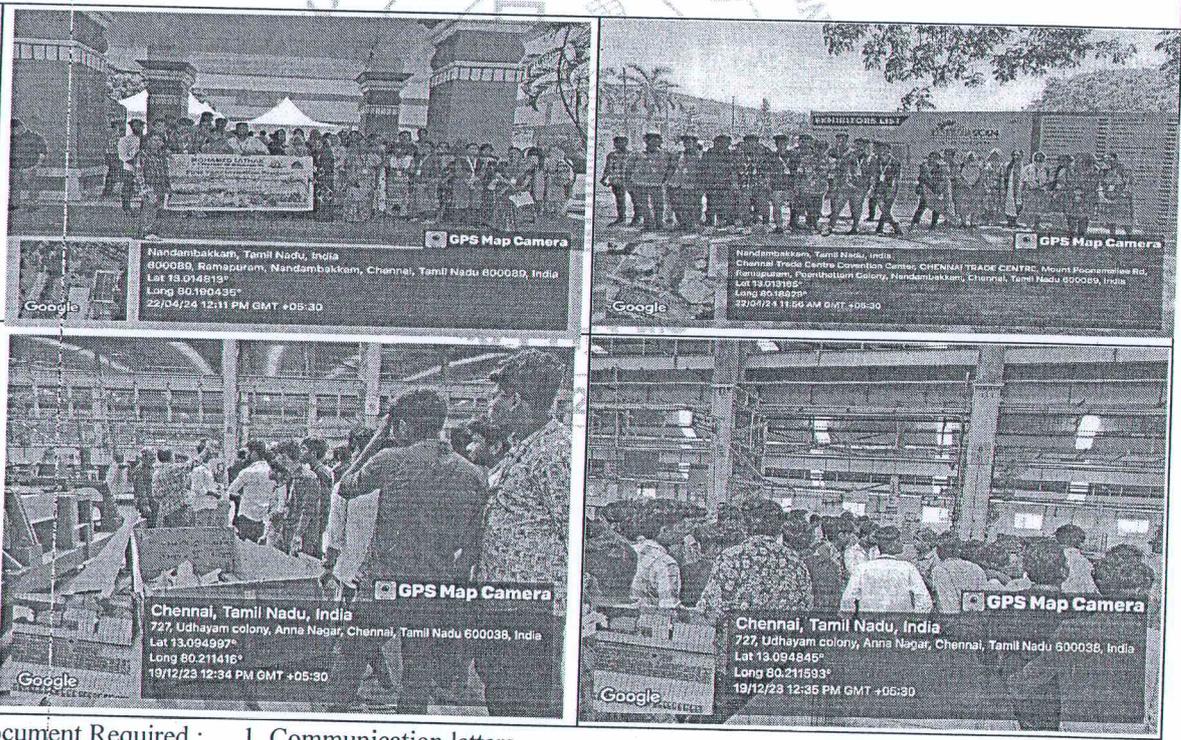
**Curriculum Gaps Addressed:**

**Exposure to Latest Technologies:** IMTOF showcases cutting-edge machine tools, automation solutions, and advancements in the field. Witnessing these firsthand allows students to understand how theoretical concepts translate into real-world applications.

**Industrial Practices:** The visit provided insights into industry best practices, production processes, and quality control measures. This practical knowledge complements classroom learning and prepares students for future careers.

**Industry Culture:** Interacting with industry professionals and observing the work environment fosters a better understanding of industry culture, work ethics, and professional expectations.

Photographs



- Supporting Document Required :
1. Communication letters
  2. Students Report
  3. Photo

Faculty In-Charge  
  
 Format no.: PLA 11

Sign of the HoD with date

Rev.No: 1.0

Rev.Date: 04.01.21

**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No. 34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

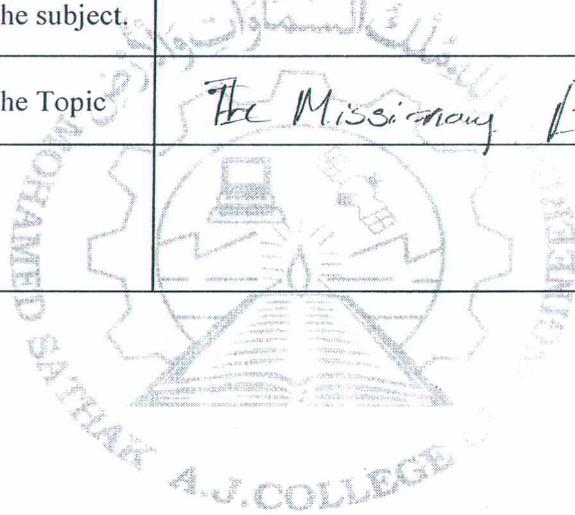
MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON INDUSTRIAL VISIT

Department:

Academic Year: 2023-24

Name of the Student	M. Mohamed Munthasir
Year/ Sem	I / I
Name of the Industry / R&D Organization	Chennai Trade Center
Date of Industrial Vist	22/11/24
Was the Industrail visit is useful?	Yes
Beneficiary- Departments	
Wether the Industrail visit was related to subject? If Yes mention the subject.	No
Brief summary / Report of the Topic	The Missionary Expo
General Remarks	



*(Handwritten Signature)*

Signature of Student

Format No: FB 11

Estd - 2001

Rev. No : 1.0

Rev. Date : 04.01.21

*(Handwritten Signature)*

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK**  
**A.J. COLLEGE OF ENGINEERING**  
Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai. Accredited by NAAC (Management - Other Sections) 'B' & 'C' of 1998.



EEE - 1.2.2

## Department of Electrical and Electronics Engineering

Academic year: 2023-2024 ODD

### Value Added Course – Electric Vehicle

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CONSOLIDATED REPORT OF VALUE ADDED COURSES OFFERED FOR THE PERIOD OF ODD SEM 2023

Department of Electrical and Electronics Engineering

S.No	Name of the Course	Year	Sem	Period	No. of students		Faculty Incharge
					Enrolled	Qualified	
1	Electric Vehicle	IV	VII	August 2023 to November 2023	16		Mr. C. Venkatesh
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Course Co-ordinator

Sign. of HoD with date

Head-Technology Centers

Format No : TLP 22

Rev.No: 1.0

Rev.Date : 04.01.21

  
**PRINCIPAL**  
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 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

**B.E - ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION – 2017**

**CHOICE BASED CREDIT SYSTEM**

**SYLLABUS FOR VALUE ADDED COURSE**

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
1	EVA033	Electric Vehicles	EEC	2	2	0	0	2

**Objectives:**

- To present a comprehensive overview of Electric and Hybrid Electric Vehicles
- To study about the working of Electric Vehicle.
- To impart the knowledge on energy storage device.
- To learn electric vehicle drive systems.
- To understand the configuration of hybrid vehicles.

**Unit I Introduction to Electric Vehicle 6**

Introduction - History of Electric Vehicle - Benefits of Electric Vehicle - Types and its challenges - Introduction to EV Motor Drives Technologies - EV Battery Charging Technologies - Electric Vehicle to Grid Connection – Regulation and Policy

**Unit II Electrical Drive and Controller 6**

Types of DC and AC Motors – Selection of Motor – Torque and RPM Calculation – Motor Controlling Techniques – Function of Control Unit – Development Process – Hardware and Software Requirement.

**Unit III Electric Vehicle Drive Train Topologies 6**

Introduction to Drive Train I topology in Electric Vehicle – Basic Concepts of Electric Traction – Power Flow Control – Breaking Systems – Gear and Clutch Arrangement.

**Unit IV Battery Management Systems 6**

Need – Rule based Control and optimization base control – Software based High Level Supervisory control – Mode of Power – Behavior of Motor – Types of Battery – Characteristics.

**Unit V Hybrid Electric Vehicles 6**

History – Importance of Hybrid Vehicle – Vehicle Performance – Power Source – Transmission Characteristics – Fuel Efficiency Analysis.

**TOTAL: 30 PERIODS**

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

### Outcomes:

After completing this course, students should demonstrate competency in the following skills:

- Analysis the configuration and control methods of Electric Propulsion unit.
- Summarize the factors that control battery operational characteristics and the primary mechanisms.
- Describe the basic fundamentals and working principles of electrical machines.
- Analysis the transmission characteristics and mathematical models of Electric Vehicles.
- Discuss the energy management strategies used in hybrid and electric vehicles.

### Text Books:

1. Iqbal Hussain, "Electric & Hybrid Vehicles – Design Fundamentals", Second Edition, CRC Press, 2011.
2. M. Ehsani, Y. Gao, S. Gay and A. Emadi, Modern Electric, Hybrid Electric, and Fuel Cell Vehicles, CRC Press, 2005.
3. T. Denton, "Electric and Hybrid Vehicles", Routledge, 2016.
4. C. Mi, M. A. Masrur and D. W. Gao, "Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives", John Wiley & Sons, 2011.

### Reference:

1. S. Onori, L. Serrao and G. Rizzoni, "Hybrid Electric Vehicles: Energy Management Strategies", Springer, 2015.
2. James Larminie, "Electric Vehicle Technology Explained", John Wiley & Sons, 2003.
3. Sandeep Dhameja, "Electric Vehicle Battery Systems", Newnes, 2000.



**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

VALUE ADDED COURSE - COURSE CONTENT

Department of Electrical and Electronics Engineering

Class : IV/ VII

Academic Year:2023 - 24

Name of the Value Added Course	Electric Vehicles <i>DESIGN</i>	Name of the handling Faculty	Mr. C. Venkatesh	
<b>Course Objective</b>				
To present a comprehensive overview of Electric and Hybrid Electric Vehicles				
To study about the working of Electric Vehicle				
To impart the knowledge on energy storage devices				
To learn electric vehicle drive systems				
To understand the configuration of hybrid vehiclec				
<b>Course Outcome</b>				
After completing this course, students should demonstrate competency in the following skills:				
Analysis the confuguration and control methods of Electric propulsion unit				
Summarize the factors that control battery operational characteristics and the primary mechanisms				
Describe the basic fundamentals and working principles of electric machines				
Analysis the transmission characteristics and mathematical model of electric vehicles				
Describe the energy management strategies used in hybrid and electric vehicles				
<b>Lesson Plan for VAC</b>				
Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
<b>Unit -I Introduction to Electric Vehicle</b>				
1	Introduction - History of Electric Vehicle	T1	1	BB
2	Benefits of Electric Vehicle - types and its challenges	T1	1	BB
3	Introduction to EV Motor drives technologies	T1	1	BB
4	EV battery charging technology	T2	1	BB
5	Electric vehicle to grid connection	T2	1	BB
6	Regulation and policy	T2	1	BB
<b>Unit -II Electric Drive and Controller</b>				
7	Types of DC and AC motors - selection of motor	T1	1	BB
8	Torque and RPM calculation	T1	1	BB
9	Motor controlling techniques	T1	1	BB
10	Function of control unit	T1	1	BB
11	Development process	T1	1	BB
12	Hardware and software requirement	T1	1	BB

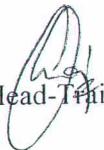
  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

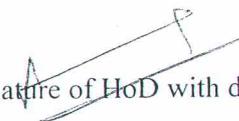
VAC - STUDENTS NAME LIST

Department of Electrical and Electronics Engineering

Academic Year: 2023-2024

Name of the Value Added Course : Electric Vehicles (EVA033)				
Yr / Sem : 4th Year / 7th Sem		Faculty In-charge :	Chintala Venkatesh	
Location :		Duration :	30 Hrs	
Sl.No	Name of the Student	Register No.	Status of Qualifying	Sign of Student
1	ARSHAD.K	311820105001	YES	Arshad
2	DIVYASRI S	311820105003	YES	Divya
3	HARISHANKAR.V	311820105004	YES	Harishankar V
4	IMRAN R	311820105005	YES	Imran
5	MOHAMED RASITH	311820105006	YES	Rasith M
6	SWETHA MARIA FAUSTINA.S	311820105009	YES	Swetha
7	SYED HARRUN	311820105010	YES	Syed H.
8	THOUFIQ AHAMED	311820105011	YES	Thoufiq A.M
9	THOWFIQ M	311820105012	YES	Thoufiq
10	MOHAMED FAZIL. M	311820105302	YES	Mohamed
11	MOHAMED SAMEER. L	311820105303	YES	Mohamed
12	MOHAMED YAHYA. A	311820105304	YES	Mohamed
13	MUHAMMED IMRAN. K	311820105305	YES	Muhammed
14	MUZAMMIL HAQ.	311820105306	YES	Muzammil
15	SYED AFRIDI. P	311820105308	YES	Syed Afridi
16	MOHAMED UNIAS	311820105701	YES	Mohamed
17				
18				
19				
20				
21				
22				
23				
24				
25				

  
Head-Training

  
Signature of HoD with date



**Anna University, Chennai**  
Office of the Controller of Examinations  
Pre- Examination Monitoring System

Welcome MOHAMED UNAIS A !!

[Log out](#)

- PROFILE
- EXAM SCHEDULE
- RES. REVIEW
- ASSESSMENT
- EXAM RESULTS
- OBJECTIVE
- COMPLAINT

[Print](#)

### Result for Nov. / Dec. Examination, 2023

Register Number:	311820105701		
Name:	MOHAMED UNAIS A		
Branch:	B.E. Electrical and Electronics Engineering		
Semester	Subject / Code	Grade	Result
07	EE8701	B+	PASS
07	EE8702	A	PASS
07	EE8703	O	PASS
07	EE8711	O	PASS
07	EE8712	O	PASS
07	EVA033	B+	PASS
07	GE8077	A	PASS
07	OC8752	A	PASS
07	EE8059	O	PASS

#### Legends

Disclaimer: The result published in this website is provisional only. NIC or O/o CoE, AU are not responsible for any inadvertent error that may have crept in the data / results being published on the Net. This is being published on the Net just for immediate information to the examinees. The Final Mark Sheets issued by the University should only be treated authentic & final in this regard. These Provisional results will be considered by the University further, only based on DOTE approval.

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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

# Result for Nov. / Dec. Examination, 2023

Register Number :	311820105012		
Name:	THOWFIQ M		
Branch:	B.E. Electrical and Electronics Engineering		
Semester	Subject Code	Grade	Result
07	EE8701	B	PASS
07	EE8702	A	PASS
07	EE8703	B+	PASS
07	EE8711	O	PASS
07	EE8712	O	PASS
07	EVA038	B+	PASS
07	GE8077	B+	PASS
07	OC-S752	B	PASS
07	SB8059	A+	PASS
06	EE8601	B	PASS

**Legends:**

**Disclaimer:** The result published in this website is provisional only. NIC or O/o CoE, AU are not responsible for any inadvertent that may have crept in the data / results being published on the Net. This is being published on the Net just for immediate information to the examinees. The Final Mark Sheets issued by the University should only be treated authentic & final in this regard. These Provisional Results will be considered by the University, further, only based on DOTE approval.

  
**PRINCIPAL**  
Mohamed Saifak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Reg. No:

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**Question Paper**

B.E/B.TECH DEGREE INTERNAL ASSESSMENT TEST-I

Fifth Semester

Electrical and Electronics Engineering

**EVA033 ELECTRIC VEHICLE**

(Value Added Course)

Time: 1 Hour 30 Minutes

Answer ALL questions

Maximum: 50 marks

**OBJECTIVES:**

- To present a comprehensive overview of Electric and Hybrid Electric Vehicles.
- To study about the working of Electric Vehicle.
- To impart the knowledge on energy storage device.
- To learn electric vehicle drive systems.
- To understand the configuration of hybrid vehicle.

**OUTCOMES:**

After completing the course, students should demonstrate competency in the following skills:

- CO1: Analysis the configuration and control methods of electric propulsion unit.
- CO2: Summarize the factors that control battery operational characteristics and the primary mechanisms.
- CO3: Describe the basic fundamentals and working principles of electrical machines.
- CO4: Analysis the transmission characteristics and mathematical models of electric vehicles.
- CO5: Discuss the energy management strategies used in hybrid and electric vehicles.

**PART-B ( 5 \* 8 = 40 Marks )**

1. Explain about the history of Electric Vehicle? (CO-1) (BTL-K1)
2. Write briefly about benefits of electric vehicle? (CO-1) (BTL-K1)
3. Discuss about the EV Battery Charging Technologies? (CO-1) (BTL-K2)
4. Classify the Types of AC Motors and DC Motors Explain it Briefly? (CO-2) (BTL-K2)
5. What are the methods to control the speed of DC motor? (CO-2) (BTL-K2)

**PART-C ( 2 \* 20 = 40 )**

6. Torque and RPM Calculation of the motor? (CO-2) (BTL-K2)
7. Explain and drive the Train 1 topology in Electric vehicle? (CO-3) (BTL-K1)

\*\*\*\*\*ALL THE BEST\*\*\*\*\*

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Reg. No:

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**Question Paper**

B.E/B.TECH DEGREE INTERNAL ASSESSMENT TEST-II

Fifth Semester

Electrical and Electronics Engineering

**EVA033 ELECTRIC VEHICLE**

(Value Added Course)

Time: 1 Hour 30 Minutes

Answer ALL questions

Maximum: 50 marks

**OBJECTIVES:**

- To present a comprehensive overview of Electric and Hybrid Electric Vehicles.
- To study about the working of Electric Vehicle.
- To impart the knowledge on energy storage device.
- To learn electric vehicle drive systems.
- To understand the configuration of hybrid vehicle.

**OUTCOMES:**

After completing the course, students should demonstrate competency in the following skills:

- CO1: Analysis the configuration and control methods of electric propulsion unit.
- CO2: Summarize the factors that control battery operational characteristics and the primary mechanisms.
- CO3: Describe the basic fundamentals and working principles of electrical machines.
- CO4: Analysis the transmission characteristics and mathematical models of electric vehicles.
- CO5: Discuss the energy management strategies used in hybrid and electric vehicles.

**PART-B ( 5 \* 8 = 40 Marks )**

1. Explain Braking system and Gear & cultch arrangement (CO-3) (BTL-K2)
2. Explain of Rule based Control and optimization based control? (CO-4) (BTL-K2)
3. Explain the types of Battery and Characteristics? (CO-4) (BTL-K2)
4. Explain the software based high level supervisory control? (CO-4) (BTL-K2)
5. Explain the software based high level supervisory control? (CO-5) (BTL-K2)

**PART-C ( 2 \* 20 = 40 )**

6. What are the transmission characteristics of EV ? (CO-5) (BTL-K2)
7. What are the different types of hybrids? (CO-5) (BTL-K2)

\*\*\*\*\* ALL THE BEST\*\*\*\*\*

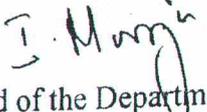


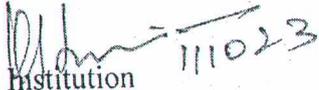
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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

## APPLICATION FOR CONDUCTING VALUE ADDED COURSES

1. Name of the Department: B.E ELECTRONICS & COMMUNICATION ENGINEERING (REGULATIONS 2017)
2. UG programme : B.E
3. Details of the Value Added Courses:
- a. Name of the Value Added Courses: IOT USING ARDUINO(Course Code IVA067)
- b. Type of Value Added Courses : (Lab integrated theory)
- c. Short Description : Enclosure 1 enclosed
- d. Syllabus including Reference : Enclosure 2 enclosed - YES
4. Target audience:
- Semester (indicate if more than one) : VII<sup>th</sup> Semester only
- Others :
5. Details of Faculty handling the course:
- a. Name of the Faculty handling the Value Added Course : Mrs.S.Piriyadharshini
- b. Details including designation and expertise : Enclosure 3 enclosed - YES
- c. Contact details
- Email ID : ece.priyadharshini@msajce-edu.in
- Phone No : 9489019459
6. Tentative Time Table including dates of internal assessments : Enclosure 4 enclosed - YES
7. Number of students opting for the course : 25
8. Department Consultative Committee - Minutes : Enclosure 5 enclosed - YES
9. Name and Designation of the Coordinator : Mr.M.Kamarajan, Assistant Professor, Department of ECE Mohamed Sathak A J College of Engg.

  
Head of the Department  
(With date & seal)

  
Head of the Institution  
(With date & seal) 11/10/23

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Director, Academic Courses

Additional Controller of Examinations

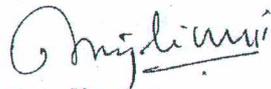
**B.E ELECTRONICS AND COMMUNICATION ENGINEERING**  
**(REGULATIONS 2017)**  
**VALUE ADDED COURSE**  
**DEPARTMENT CONSULTATIVE COMMITTEE – MINUTES OF THE MEETING**

Date: 21.07.2023

As per the Regulations 2017, a department consultative committee is constituted to offer value added course for the 7<sup>th</sup> semester, B.E Electronics and communication engineering students pursuing their studies at Mohamed Sathak A J College of Engineering (MSAJCE), Siruseri, Chennai. The following members were present for the meeting held on 20/07/2023 at Department of B.E Electronics and Communication Engineering, MSAJCE.

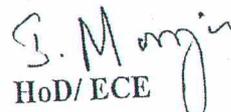
S.No.	Name & Designation	Member of Bodies	Signature
1.	Dr.I.Manju, Professor & Head/IQAC, MSAJCE.	Monitor the progress of the course	I Manju
2.	Mrs.B.Murugeshwari , Assistant Professor /ECE, MSAJCE	HoD/ECE	M. Am.
3.	Mr.M.Kamarajan /ECE, MSAJCE	Coordinator	Ah
4.	Mrs.S.Piriyadharshini/ECE, MSAJCE	Faculty handling the course	Shylini

The consultative committee has decided to offer IOT USING ARDUINO for the students since it is essential for them to acquire knowledge and work in core Industry. The committee recommends Mrs.S.Piriyadharshini, Assistant Professor handle the course and train the students in IOT USING ARDUINO. The curriculum & syllabus, internal assessment pattern and awarding of grades are discussed and passed on the meeting for approval. The consultative committee constituted for value added course has recommended to conduct the course as lab integrated theory and approved the same.

  
Coordinator

  
Committee Chairperson  
(Senior Faculty Member)

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

  
HoD/ ECE



Fax / Dir 22352271

CENTRE FOR ACADEMIC COURSES  
ANNA UNIVERSITY  
CHENNAI - 600 025



Dr. SHOSIMIN THILAGAR  
DIRECTOR  
Centre for Academic Courses, A.U. / ICE/2021

17.03.2021

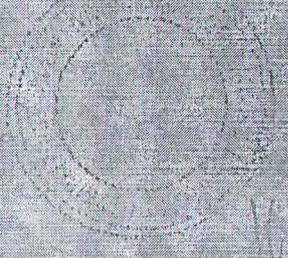
To  
The Controller of Examinations  
Anna University  
Chennai - 600 025

S.O. A.U. - CAC - Affiliated Institutions - Value Added Courses - Reg.  
Ref. of Letter No. MSAJCE/PO/021/2020-21, dated 09.02.2021  
is received from the college, Mohamed Sathak A.J. College of  
Engineering, dated 13.03.2021 and 14.03.2021.

With reference to the letter cited above, course code is allotted for the Value  
Added Course as mentioned below.

Sl. NO.	CODE ALLOTTED	TITLE	CREDITS			
			L	T	P	C
1	VA057	IOT using Arduino	1	0	2	2
2	VA018	Advanced Python and Introduction to Machine Learning	0	0	2	1

This is for your kind information and necessary action at your end.



Yours faithfully,

*[Signature]*  
17/3

DIRECTOR

Copy to:

- The Principal, Mohamed Sathak A.J. College of Engineering, Siruseri, Chennai - 603 103
- The Chairperson, Faculty of Information and Communication Engineering, A.U. Chennai - 25
- The Stock File

*[Signature]*  
PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
Siruseri, Chennai - 603 103

*[Signature]*  
PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

To  
*Dr. Manjiv*  
Head / IC for m

ECE 1.2.2

Semester -6

Value Added Course on  
**IOT USING ARDUINO**

L	T	P	C
1	0	2	2

**Objectives:**

- To expose student and gain knowledge about Arduino technology with IOT
- To Program and construct applications using Arduino using a number of different sensors and IOT

**Unit – I Introduction to Arduino**

Embedded processing portfolio, Architecture and hardware organization of Arduino, Configuring GPIO and Clock systems, Real time applications using GPIO configuration, LCD interfacing, Technical explanation ADC, Configuring ADC, Real time applications using Sensors

**Unit – II Interfacing with Zigbee**

Bluetooth Interfacing, Android mobile based device control ,GSM interfacing and send SMS, Real time Application Development with GSM ,Zigbee Interfacing, Data transmission using zigbee, Real time applications interfacing with sensors and Zigbee

**Unit – III Real Time applications**

DC Motor Interfacing, H-bridge concept and design and ultrasonic interfacing, Clockwise and anticlockwise control, Real time applications interfacing with robotic vehicle model, Real time applications interfacing with sensors and Robot

**Unit – IV Li-Fi with Ardino**

Introduction, Li-Fi based Data communication, Interfacing Li-Fi with Arduino, Application Development with Li-Fi.

**Unit – V IOT –Configuration & Integration**

Introduction to IoT & Scope of IoT, Web page creation, Data transmission from sensors, Configuration webpage ,Sensor data monitoring , Wireless Interfacing, Android mobile based device control, GSM interfacing and send SMS, Real time Application Development with GSM, Zigbee Interfacing Data transmission using zigbee, Real time applications interfacing with robotic vehicle.

**Outcomes:**

The students will be outfitted with hands on knowledge in IOT using ARDUINO.

Upon completion of the program, the students will be able to



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C01	Understand features of the Arduino platform
C02	Application development-Integrate with Zigbee
C03	Study and execute real time applications
C04	Application development -Li-Fi with Ardino
C05	Execute coding to gather and process data on the Arduino via the cloud.

**Total Hours: 45**

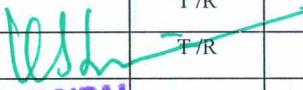
VALUE ADDED COURSE - COURSE CONTENT

Department of ECE

Class :IV ECE

Academic Year: 2023 TO 2024

Name of the Value Added Course	IVA067- IoT using Arduino	Name of the handling Faculty	S.Piriyadharshini	
<b>Course Objective</b>				
1) To expose student and gain knowledge about Arduino Technology with IOT				
2) To program and construct applications using Arduino using a number of different sensors and IOT				
<b>Course Outcome</b>				
CO1	Understand features of Arduino Platform			
CO2	Application Development - Integrate with Zigbee			
CO3	Study and execute real time applications			
CO4	Application Development - LiFi with Arduino			
CO5	Execute coding together and process data on the Arduino via the cloud			
<b>Lesson Plan for VAC</b>				
Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
<b>UNIT I - Introduction to Arduino</b>				
1	Embedded processing portfolio	T / R	1	PPT
2	Architecture and hardware organization of Arduino	T / R	1	PPT
3	Configuring GPIO and Clock Systems	T / R	1	PPT
4	Real Time Applications using GPIO configuration	T / R	1	PPT
5	LCD Interfacing	T / R	1	PPT
6	Technical explanation ADC	T / R	1	PPT
7	Configuring ADC	T / R	1	PPT
8	Real time applications using sensors	T / R	1	PPT
<b>UNIT II - Interfacing with Zigbee</b>				
9	Bluetooth Interfacing	T / R	1	PPT
12	Android mobile based device control	T / R	1	PPT
13	GSM Interfacing and send SMS	T / R	1	PPT
14	Real time Application Development with GSM	T / R	1	PPT
15	Zigbee Interfacing	T / R	1	PPT
16	Data transmission using zigbee	T / R	1	PPT
17	Real time application interfacing with sensors and Zigbee	T / R	2	PPT
18				
<b>UNIT III - Real Time Applications</b>				
20	DC Motor Interfacing	T / R	2	PPT/TOOL
21	H Bridge Concept and design and ultrasonic interfacing	T / R	1	PPT/TOOL
22	Clockwise and Anticlockwise control	T / R	1	PPT/TOOL
23	Real time Application interfacing with Robotic vehicle model	T / R	1	PPT/TOOL
24	Real time applications interfacing with sensors and Robot	T / R	1	PPT/TOOL
25				

  
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 Sipcot - IT Highway Egattur,  
 Chennai - 603103.





DEPARTMENT OF ECE  
 IOT USING ARDUINO - PROJECT REVIEW

21/11/23

S.no	BATCH		PROJECT TITLE	PRESENTATION	DEMONSTRATION	RECORD	VIVA	TOTAL
	Reg. No.	Name of the Students						
1.	311820106001	ABINAYA . K	Multi purpose Distance Measuring device.	28	25	20	16	89
	311820106002	ABITHA . B		27	24	20	15	86
	311820106007	CARDL PERSY . N		25	24	20	14	83
	311820106009	JANANI . M.E		25	24	20	14	83
2.	311820106022	SHAIK ABDULLA.A.S	Temperature Fan controller Wing ESP8266.	26	24	20	16	86
	311820106003	AFLAL AHAMED . A		25	24	20	14	83
	311820106016	NIRMAL . K		24	23	20	14	81
	311820106010	JASEEM MOHAMED . P		24	23	20	13	80
3.	311820106004	AHMAD SYED SEMAK	Smart water Level monitoring system.	25	26	28	15	84
	311820106021	SHAIKRUKH FAKRDEEN		28	26	18	16	88
	311820106011	KISHORE.S		25	24	18	14	81
	311820106005	KAMALI . D		24	24	18	14	80
4.	311820106020	AMUDESHINABAN . S	Iot based Home Automata -H00.	25	24	18	14	81
	311820106020	SATHESH KUMAR		24	25	20	14	83
	311820106030	BALAKRISHNAN		22	26	20	15	83
	311820106025	THANVEER .SHERIFF		22	20	20	13	75
5.	311820106006	KISHORE.R	Smart Door Lock system.	21	20	20	13	74
	311820106006	BASHARATHULLA		28	20	20	20	88
	311820106013	MADHIVANAN .R		25	25	20	16	86
	311820106018	SAFRIN .S		25	24	20	15	84
6.	311820106014	MUKSHITH . N	Collision avoidance and safety measures in Electric vehicle.	26	25	20	16	87
	311820106030	NAYEEM		27	20	20	19	96
	311820106007	POOSATHISH KUMAR		26	28	20	18	94
	311820106003	GIRISH		26	28	20	15	89
311820106002	FOUZIA JABEEN .		24	24	20	14	82	

HOD/ECE

SUBJECT INCHARGE  
 Miji Mwi



DEPARTMENT OF ECE  
IOT USING ARDUINO- ASSESMENT I  
IV YEAR

S.No	Reg. No.	Name of the Students	Marks (30)
1	311820106001	ABINAYA K	21
2	311820106002	ABITHA B	20
3	311820106003	AFLAL AHAMED M	28
4	311820106004	AHMAD SYED SEMAR	29
5	311820106005	AMUDESHWARAN S	28
6	311820106006	BASHARATHULLA A	21
7	311820106007	CAROL PERSY N	27
8	311820106009	JANANI E	23
9	311820106010	JASEEM MOHAMED P	27
10	311820106011	KISHORE S	29
11	311820106013	MADHIVANAN R	27
12	311820106014	MOHAMED MUKSHITH N	23
13	311820106016	NIRMAL K	27
14	311820106017	POOSATHISHKUMAR M	22
15	311820106018	SAFRIN S	20
16	311820106020	SATHESH KUMAR V	22
17	311820106021	SHAHROUKH FAKRUDEEN K	29
18	311820106022	SHAIK ABDULLA A	28
19	311820106025	THANVEER SHERIFF	21
20	311820106301	BALA KRISHNAN.S	22
21	311820106302	FOUZIA JABEEN S P	20
22	311820106303	GIRISH .R	22
23	311820106305	KAMAL.D	20
24	311820106306	MOHAMED NAYEEM B	21
25	311820106702	KISHORE.R	21

*[Signature]*  
CLASS ADVISOR

*[Signature]*  
HOD/ECE  
21/11/23

*[Signature]*  
PRINCIPAL

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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
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DEPARTMENT OF ECE  
IOT USING ARDUINO- ASSESMENT II  
IV YEAR

S.no	Reg. No.	Name of the Students	Marks (25)
1	311820106001	ABINAYA K	21
2	311820106002	ABITHA B	17
3	311820106003	AFLAL AHAMED M	21
4	311820106004	AHMAD SYED SEMAR	AB
5	311820106005	AMUDESHWARAN S	AB
6	311820106006	BASHARATHULLA A	21
7	311820106007	CAROL PERSY N	20
8	311820106009	JANANI E	19
9	311820106010	JASEEM MOHAMED P	20
10	311820106011	KISHORE S	AB
11	311820106013	MADHIVANAN R	20
12	311820106014	MOHAMED MUKSHITH N	20
13	311820106016	NIRMAL K	20
14	311820106017	POOSATHISHKUMAR M	22
15	311820106018	SAFRIN S	22
16	311820106020	SATHESH KUMAR V	22
17	311820106021	SHAHRUKH FAKRUDEEN K	25
18	311820106022	SHAIK ABDULLA A	20
19	311820106025	THANVEER SHERIFF	21
20	311820106301	BALA KRISHNAN.S	22
21	311820106302	FOUZIA JABEEN S P	22
22	311820106303	GIRISH .R	22
23	311820106305	KAMALI.D	21
24	311820106306	MOHAMED NAYEEM B	22
25	311820106702	KISHORE.R	22

*[Signature]*  
CLASS ADVISOR

*[Signature]*  
PRINCIPAL

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Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Signature]*  
HOD/ECE  
21/11/23

Name with Designation : S. Priyadharshini AP/ECE.

Department : ECE.

Branch : BE.

Academic Year / Semester : 2023 - 2024.

Subject Code & Title : IVA067 IoT using Arduino

Type of Subject : Theory cum Practical / Practical ✓

Date of Reopening : 24/7/23.

Last Working Day : 17/11/23.

Total Allocated Periods : 45

Total Conducted Periods : 45

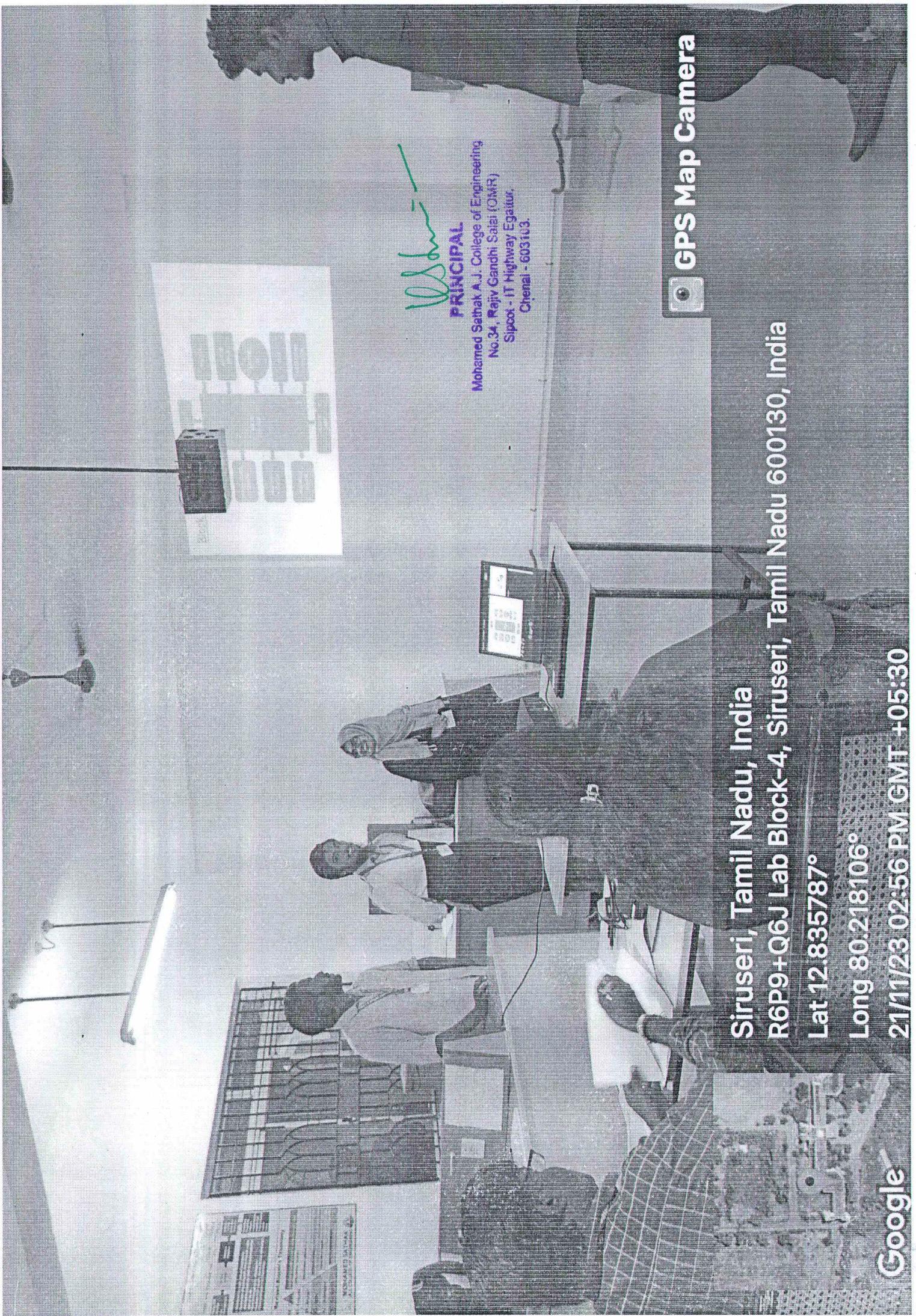
**Assessment Details**

Assessment	Assessment Conducted on	No. of Students			Pass %	Remarks
		Total	Passed	Failed		
I	23/9/2023	25	25	-	100%	-
II	17/10/2023	25	22	03	88%	3 students were absent

**Class Timetable**

Periods	1	2	3	4	5	6	7	8
Time								
Monday								
Tuesday			← VAC IOT →					
Wednesday								
Thursday								
Friday								

  
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 Chennai - 603103.



  
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Sipcot - IT Highway Egattur,  
Chennai - 603103.

 **GPS Map Camera**

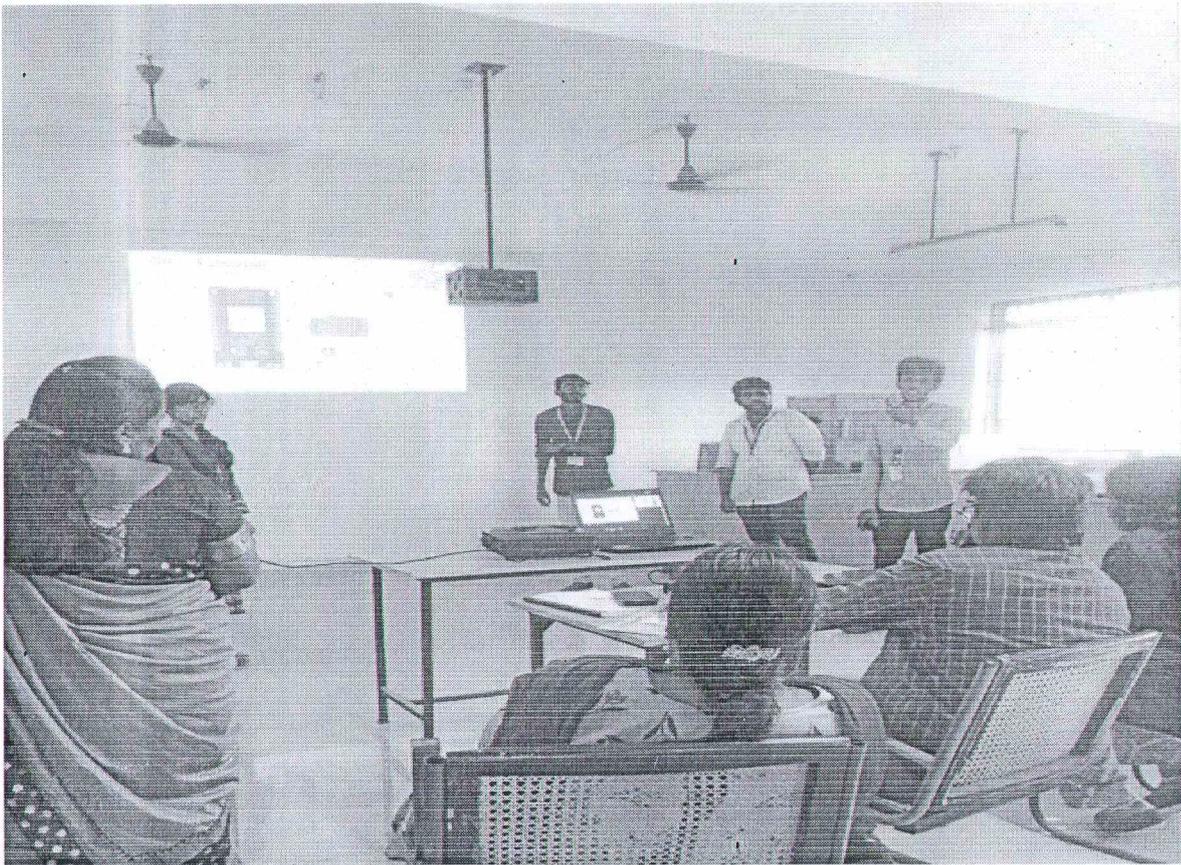
**Siruseri, Tamil Nadu, India**  
**R6P9+Q6J Lab Block-4, Siruseri, Tamil Nadu 600130, India**

**Lat 12.835787°**

**Long 80.218106°**

**21/11/23 02:56 PM GMT +05:30**

**Google**



*Mohamed Sathak A.J.*

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Sipcot - IT Highway Egattur,  
Chennai - 603103.

**ANNA UNIVERSITY :: CHENNAI - 600025.**  
**OFFICE OF THE CONTROLLER OF EXAMINATIONS**  
**Provisional Results of Nov. / Dec. Examination, 2023.**

Inst.Code/Name : 3118 - MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING Semester No. : 07 DATE OF PUBLICATION :23-04-2024

Branch : 106-B.E. Electronics and Communication Engineering

Reg. Number	Subject Code ->	EC8701	EC8702	EC8711	EC8751	EC8761	EC8791	IYA067	OMF751	SB8056
	Stud. Name	Grade								
311819106001	AHAMED ALI H						U		B	
311819106012	MOHAMMED ASIF A						B			
311819106013	MOHAMMED TAHEER R	U					U			
311819106022	SYED AAKHIB MOHAMMED I	U								
311819106301	NAVINASH S	B					U			
311819106303	SALMAN S		B							
311820106001	ABINAYA K	B+	A	O	A	O	B	B	A	A+
311820106002	ABITHA B	B	A	O	B+	O	B	B	B+	A+
311820106003	AFLAL AHAMED M	B+	B+	A	B+	O	B	B	B+	A+
311820106004	AHMAD SYED SEMAR	B	B	A+	B	A+	U	B	B	A+
311820106005	AMUDESHWARAN S	B	U	A+	B+	A+	U	B	B+	A+
311820106006	BASHARATHULLA	B	U	A+	U	O	U	B+	A	O
311820106007	CAROL PERSY N	B	B	A+	U	A+	B	B	B+	A+
311820106009	JANANI M.E	B+	B	A+	B	A+	B+	B	B+	A+
311820106010	JASEEM MOHAMED P	B	B	B	B	B+	U	U	A	A
311820106011	KISHORE S	B	B	A+	B+	A+	B	B	B+	A+
311820106013	MADHIVANAN R	B	B+	A+	B+	A+	B	B	A	O
311820106014	MOHAMED MUKSHITH N	B+	B	A+	B+	O	U	B+	A	O
311820106016	NIRMAL K	B+	B	B+	B	A	B	B	B+	A+
311820106017	POOSATHISH KUMAR M	B	B+	A+	B	O	B	B	A	A+
311820106018	SAFRIN S	B	B	A+	B+	A+	B	B	B+	A+
311820106020	SATHESH KUMAR V	B+	A	O	B	O	B+	B	B+	O
311820106021	SHAHIRUKH FAKRUDEEN K	B	B+	O	B	O	B	B	A+	O
311820106022	SHAIK ABDULLA A S	U	B	O	B	O	U	B	B	A+
311820106025	THANVEER SHERIFF A	U	B	B	U	A	U	B	U	A
311820106301	BALAKRISHNAN S	U	UA	B	U	B+	U	U	U	A
311820106302	FOUZIA JABEEN S P	B	B	B	U	A+	U	B	B+	A+
311820106303	GIRISH R	U	U	B	U	A	U	B	B+	A+
311820106305	KAMALI D	U	U	A+	U	A+	U	B	A	A+
311820106306	MOHAMED NAYEEM B	U	U	O	U	O	B	B+	A	O
311820106702	KISHORE R	U	U	B	U	B+	U	B	A	A

  
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VALUE ADDED COURSE - COURSE CONTENT

Department of Mechanical Engineering

Class : IV Year/ VII Semester

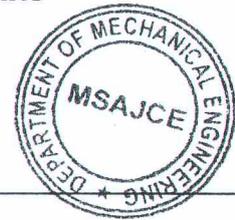
Academic Year: 2023-24

Name of the Value Added Course	MVA022 Introduction to Multibody Dynamics	Name of the handling Faculty	Mr. Mohan S R
--------------------------------	---	------------------------------	---------------

Course Objective

The Students will acquire to

- To present the basic theoretical knowledge of the Foundations of Multi body dynamics
- To apply the knowledge of the applications to machine and structural dynamics.
- To analyze the static and dynamic behaviour of the multi body dynamics.
- To derive the motion equation of the bodies.
- To gain the concept of motion mechanics related to applications of MBD.



Course Outcome

Upon completion of the course,

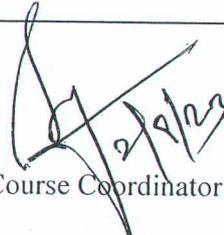
1. Write programs to solve constrained differential equations for systems analyzing multi-body
2. Simulate and analyze all types of static behaviours of the multi-body systems including the kineto- static analysis.
3. Simulate and analyze all types of dynamic behaviours of the multi-body systems including the kineto-static analysis.
4. To derive equations of motion for interconnected bodies in multi-body systems with three-dimensional motion.
5. To Implement and analyze methods of formulating equations of motion for Inter-connected bodies.

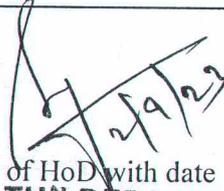
Lesson Plan for VAC

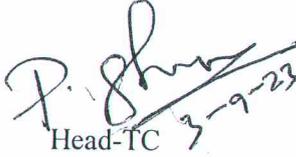
Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	The method of constraints for planar kinematic analysis	T	1	PPT & BB
2	Revolute, prismatic, gear and cam pairs are considered together with other 2 DOF	T	2	PPT & BB
3	Introduction to Basic principles for analysis of multi-body systems	T	1	PPT & BB
4	The automatic assembly of the systems of equations for position	T	2	PPT & BB
5	The principle of virtual work and Lagrange's equations	T	1	PPT & BB
6	Introduction to Dynamics of Planar Systems	T	1	PPT & BB
7	Systematic computation and assembly of mass matrix	T	2	PPT & BB
8	Computation of planar generalized forces for external forces and for actuator-spring-damper element	T	1	PPT & BB
9	Simple applications of inverse and forward dynamic analysis	T	2	PPT & BB
10	Numerical integration of first-order initial value problems	T	1	PPT & BB

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11	The method of Baumgarte for the solution of mixed differential-algebraic equations of motion	T	2	PPT & BB
12	The use of coordinates partitioning, QR and SVD decomposition for the orthogonalization of constraints	T	2	PPT & BB
13	Reference frames for the location of a body in space	T	1	PPT & BB
14	Euler angles and Euler parameters	T	2	PPT & BB
15	Kinematic analysis of spatial systems	T	2	PPT & BB
16	Equations of motion of constrained spatial systems	T	2	PPT & BB
17	Exercise	T	5	PPT & BB
Quiz / Mini Projects / Model Developed if any				
NIL				
Text / Reference Books				
1	De Jalon, J.C., Bayo, E., "Kinematic and Dynamic Simulation of Multibody Systems", Springer-Verlag, 1994.			
2	Kane, T.R., Levinson, D.A., "Dynamics: Theory and Applications", McGraw-Hill Book Co., 1985.			
Website / URL References				
1	<a href="https://www.youtube.com/watch?v=1Tyxgv7RUdk">https://www.youtube.com/watch?v=1Tyxgv7RUdk</a>			

  
 Sign. of Course Coordinator

  
 Sign. of HoD with date  
**HEAD OF THE DEPARTMENT**  
 Department of Mechanical Engineering  
 Mohamed Sathak A.J. college of Engineering  
 Siruseri IT Park, Chennai - 603103.

  
 Head-TC

Format No.: TLP 21

Rev. No.: 1.0

Rev. Date: 04.01.21

  
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# MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Anna University - Value Added Course  
MVA022 Introduction to Multibody Dynamics

## Course Registration

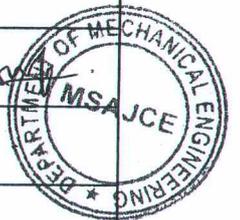
AY 2023-24

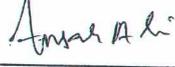
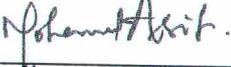
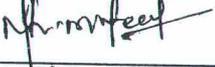
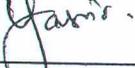
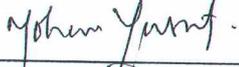
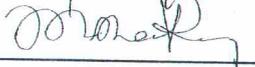
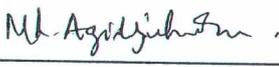
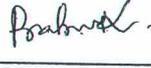
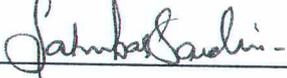
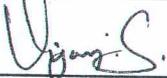
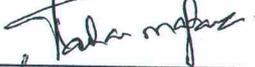
IV Year / VII Semester

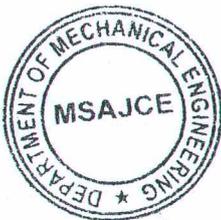
S.No	Reg.No	Student Name	Signature
1	311820114001	ABUTHAGIR. J	Abuthagir J
2	311820114002	ARUN. T	Arun T
3	311820114003	DINESH. M	M. Dinesh
4	311820114004	IMTHIYAS. A	A. Imthiyas
5	311820114005	MANIKANDAN. K	Manikandan K
6	311820114006	MOHAMED AFROSE. M	M. Afrose
7	311820114007	MOHAMED AJMAL A.R	A.R. Ajmal
8	311820114008	MOHAMED GHOUSE NAGUTHA. M	M. Ghouse
9	311820114009	MOHAMED IJAZ. M	M. Ijaz
10	311820114010	MOHAMED ILIYAS.S	M. Ilyas
11	311820114011	MOHAMED ISMAIL. A	A. Ismail
12	311820114012	MOHAMED SATHAKKATHULLAH. M	M. Sathak
13	311820114013	MOHAMMED MANSOOR. S	Mohammed Mansoor S
14	311820114014	SADHAM HUSSAIN J	Sadhams
15	311820114015	SALMAN. S	Salman S
16	311820114016	SHAIK YAHOPÉ. B	Shaiq
17	311820114017	SYED MOHAMMED SUFIYAN. S	Sufyan S
18	311820114018	UMAR JAFFAR ALI A	A. Umar
19	311820114302	FATHEEN AHMED.M	Fatheen M
20	311820114303	HARIHARAN J	Hariharan J

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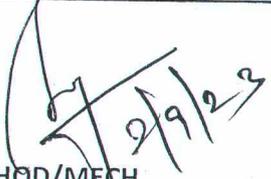
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21	311820114304	HASAN HAFFIL K	
22	311820114306	KISHORE P	
23	311820114307	MOHAMED ANAS.M	
24	311820114308	MOHAMED ANSAR ALI .N	
25	311820114309	MOHAMED ASIF M	
26	311820114311	MOHAMED MUFEED H	
27	311820114313	MOHAMED YASIR S A	
28	311820114314	MOHAMED THAISEER S	
29	311820114315	MOHAMED YUSUF A	
30	311820114316	MOHANRAJ.R	
31	311820114317	MOHIDEEN AGIL ZUBAIR S	
32	311820114318	PRABHU K	
33	311820114319	SAHUBAR SATHIK N	
34	311820114320	SRIRAM.N	
35	311820114321	VASANTHA KUMAR. N	
36	311820114322	VIJAY S	
37	311820114323	YUVAN SAI V N	
38	311820114701	TAHA MAFAAZ AHMED M	



  
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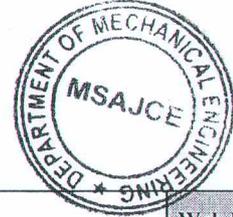
  
**HOD/MECH**  
**HEAD OF THE DEPARTMENT**  
 Department of Mechanical Engineering  
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MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Anna University Examinations Nov/Dec 2023

Department of Mechanical Engineering

MVA022 Introduction to Multibody Dynamics



Sem: IV / VII

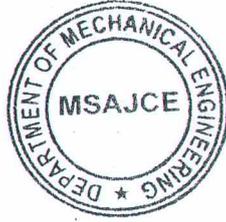
S.No	Reg.No	Student Name	Assesment -1		Assesment -2		Web Portal Entry
			Present / Absent	Marks (100)	Present / Absent	Marks (100)	Marks (100)
1	311820114001	ABUTHAGIR. J	P	91	P	82	87
2	311820114002	ARUN. T	P	92	P	90	91
3	311820114003	DINESH. M	P	90	P	82	86
4	311820114004	IMTHIYAS. A	P	90	P	84	87
5	311820114005	MANIKANDAN. K	P	91	P	85	88
6	311820114006	MOHAMED AFROSE. M	P	92	P	85	89
7	311820114007	MOHAMED AJMAL A.R	P	90	P	82	86
8	311820114008	MOHAMED GHOUSE NAGUTHA. M	P	90	P	88	89
9	311820114009	MOHAMED IJAZ. M	P	90	P	90	90
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11	311820114011	MOHAMED ISMAIL. A	P	90	P	85	88
12	311820114012	MOHAMED SATHAKKATHULLAH. M	P	82	P	88	85
13	311820114013	MOHAMMED MANSOOR. S	P	90	P	90	90
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17	311820114017	SYED MOHAMMED.SUFIYAN. S	P	92	P	84	88
18	311820114018	UMAR JAFFAR ALI A	P	92	P	94	93
19	311820114302	FATHEEN AHMED.M	P	92	P	90	91
20	311820114303	HARIHARAN J	P	92	P	90	91
21	311820114304	HASAN HAFIL K	P	91	P	84	88
22	311820114306	KISHORE P	P	90	P	92	91
23	311820114307	MOHAMED ANAS.M	P	90	P	80	85
24	311820114308	MOHAMED ANSAR ALI. N	P	90	P	81	86
25	311820114309	MOHAMED ASIF M	P	90	P	90	90
26	311820114311	MOHAMED MUFEED H	P	90	P	88	89
27	311820114313	MOHAMED YASIR S A	P	90	P	87	89

PRINCIPAL

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Chennai - 603103.

S.No	Reg.No	Student Name	Assesment -1		Assesment -2		Web Portal Entry
			Present / Absent	Marks (100)	Present / Absent	Marks (100)	Marks (100)
28	311820114314	MOHAMED THAISEER S	P	85	P	85	85
29	311820114315	MOHAMED YUSUF A	P	92	P	80	86
30	311820114316	MOHANRAJ.R	P	91	P	90	91
31	311820114317	MOHIDEEN AGIL ZUBAIR S	P	90	P	85	88
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33	311820114319	SAHUBAR SATHIK N	P	90	P	75	83
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35	311820114321	VASANTHA KUMAR. N	P	92	P	92	92
36	311820114322	VIJAY S	P	91	P	85	88
37	311820114323	YUVAN SAI V N	P	90	P	86	88
38	311820114701	TAHA MAFAAZ AHMED M	P	90	P	87	89

Faculty Incharge



HOD/Mech

**HEAD OF THE DEPARTMENT**

Department of Mechanical Engineering  
Mohamed Sathak A.J. college of Engineering  
Siruseri IT Park, Chennai - 603103.

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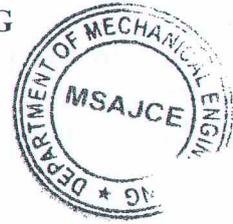
MOHAMED SATHAK A J COLLEGE OF ENGINEERING  
B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC.-2023

Regulation – 2017

Seventh Semester – B.E Mechanical Engineering

Assessment - I

MVA022 Introduction to Multi Body Dynamics  
(Value Added Course)



Marks : 100

Time : 3 Hrs

Answer All Questions

Part A (20×1=20 marks)

1. If we place some coins over the paper strip and pull it with a jerk, then coins don't fall off because of
  - A. friction
  - B. inertia
  - C. resistance
  - D. force
2. As weight is a force so it is a
  - A. scalar quantity
  - B. fixed quantity
  - C. variable quantity
  - D. vector quantity
3. The ratio of the force of limiting friction to normal reaction is
  - A. zero
  - B. constant
  - C. greater than 1
  - D. less than 2
4. The force that produces an acceleration of  $1 \text{ ms}^{-2}$  in a body of the mass of 1 kg is called
  - A. slow newton
  - B. zero newton
  - C. one newton
  - D. two newtons
5. When a net force act on a body, it produces acceleration in the body in the direction of the net force which is directly proportional to the net force acting on the body and inversely proportional to its mass. This statement is called
  - A. newton's 2nd law of motion
  - B. newton's 1st law of motion

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

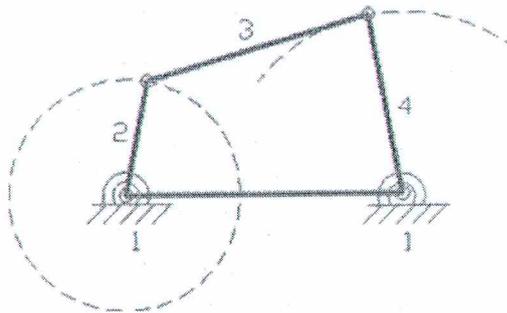
12. The total number of instantaneous centers for a mechanism consisting of  $n$  links are
- A.  $n/2$
  - B.  $n$
  - C.  $n-1$
  - D.  $n(n-1)/2$
13. Which of the following property of the instantaneous center is correct?
- A. A rigid link rotates instantaneously relative to another link at the instantaneous centre for the configuration of the mechanism considered.
  - B. The two rigid links have no linear velocity relative to each other at the instantaneous centre.
  - C. The velocity of the instantaneous centre relative to any third link is same whether the instantaneous centre is regarded as a point on the first link or on the second rigid link.
  - D. all of the mentioned
14. The instantaneous centers which vary with the configuration of mechanism, are called
- A. permanent instantaneous centers
  - B. fixed instantaneous centers
  - C. neither fixed nor permanent instantaneous centers
  - D. none of the mentioned
15. When two links are connected by a pin joint, their instantaneous centre lies
- A. on their point of contact
  - B. at the centre of curvature
  - C. at the centre of circle
  - D. at the pin joint
16. A slider moving on a fixed link having constant radius of curvature will have its instantaneous centre at the center of the circle.
- A. True
  - B. False
17. When the two elements of a pair have \_\_\_\_\_ when in motion, it is said to a lower pair.
- A. line or point contact
  - B. surface contact
  - C. permit relative motion
  - D. none of the mentioned

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Answer All Questions

Part C (2×20=40 marks)

26. Draw the assembly of spur gears;  
Driven gear teeth: 120 and dia 12 in.  
Driving gear teeth: 40 and dia 4 in.  
Pitch angle: 20  
Thickness: 1.5 in.  
speed: 150 rpm
27. Trace the path for the following link mechanism.



- L1 = 800 mm  
L2 = 200 mm  
L3 = 480 mm  
L4 = 560 mm

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17/11/23

**HEAD OF THE DEPARTMENT**  
Department of Mechanical Engineering  
Mohamed Sathak A.J. college of Engineering  
Siruseri IT Park, Chennai - 603103.

*[Handwritten signature]*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

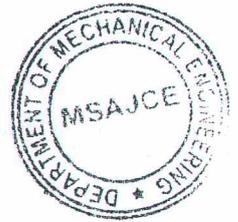
MOHAMED SATHAK A J COLLEGE OF ENGINEERING  
B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC.-2023

Regulation – 2017

Seventh Semester – B.E Mechanical Engineering

Assessment - II

MVA022 Introduction to Multi Body Dynamics  
(Value Added Course)



Marks : 100

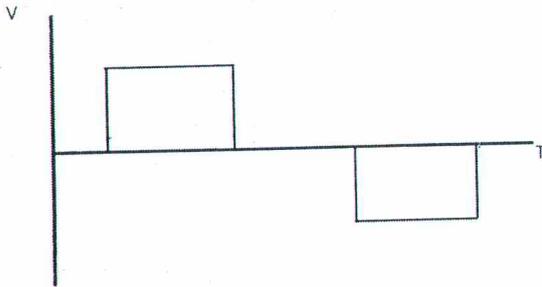
Time : 3 Hrs

Answer All Questions

Part A (20×1=20 marks)

1. The two elements of a pair are said to form a \_\_\_\_\_ when they permit relative motion between them.
  - a) open pair
  - b) kinematic pair
  - c) higher pair
  - d) lower pair
2. A combination of kinematic pairs, joined in such a way that the relative motion between the links is completely constrained, is called a
  - a) structure
  - b) mechanism
  - c) kinematic chain
  - d) inversion
3. The relation between number of pairs(p) forming a kinematic chain and the number of links(l) is
  - a)  $l = 2p - 2$
  - b)  $l = 2p - 3$
  - c)  $l = 2p - 4$
  - d)  $l = 2p - 5$
4. The relation between number of links(l) and number of joints(j) in a kinematic chain is
  - a)  $l = 1/2 (j+2)$
  - b)  $l = 2/3 (j+2)$
  - c)  $l = 3/4 (j+2)$
  - d)  $l = j+4$
5. The relation  $l = 2/3(j+2)$  apply to kinematic chains in which lower pairs are used. This may be used to kinematic chains in which higher pairs are used, but each higher pair may be taken as equivalent to
  - a) one lower pair and two additional links

11. The given figure is a velocity time diagram for which of the follower motion?



- a) Simple harmonic
- b) Uniform acceleration
- c) Uniform velocity
- d) Uniform retardation

12. If a follower is undergoing simple harmonic motion, then at what value of angle of ascent the acceleration is maximum?

- a) 0
- b) 30
- c) 45
- d) 60

13. If all the masses are in one plane, then what is the maximum no. of masses which can be placed in the same plane?

- a) 3
- b) 4
- c) 6
- d) No limitation

14. If the rotation speed of the shaft increases then the balancing mass must also increase.

- a) True
- b) False

15. The type of pair formed by two elements which are so connected that one is constrained to turn or revolve about a fixed axis of another element is known as

- a) turning pair
- b) rolling pair
- c) sliding pair
- d) spherical pair

16. Which of the following is a lower pair

- a) ball and socket i

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Answer All Questions**

**Part C (2×20=40 marks)**

26. Draw the assembly of spur gears;  
Driven gear teeth:40 and dia 10cm.  
Driving gear teeth: 40 and dia 10cm.  
Pitch angle: 20  
Thickness: 2cm.  
speed: 55 rpm
27. Draw the cam follower mechanism in multibody dynamic software.  
(Use suitable dimensions)



*[Handwritten signature]*  
9/10/23

**HEAD OF THE DEPARTMENT**

Department of Mechanical Engineering  
Mohamed Sathak A.J. college of Engineering  
Siruseri IT Park, Chennai - 603103.

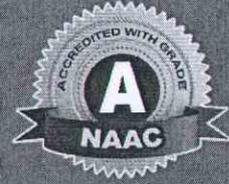
*[Handwritten signature]*  
**PRINCIPAL**

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Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



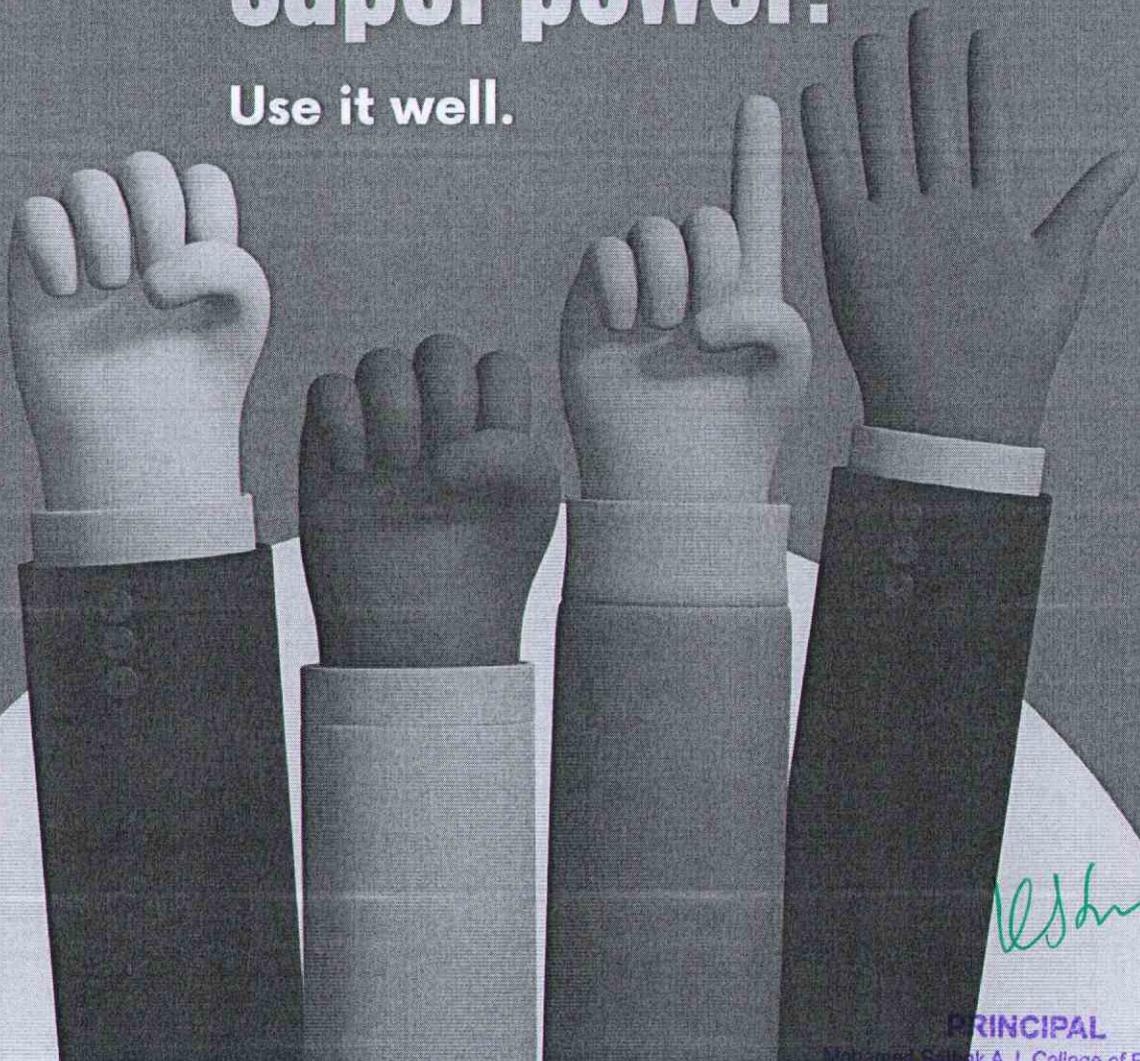
# NSS CELL

## Election Awareness Campaign

DATE : 28.03.2024

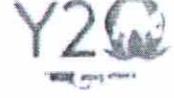
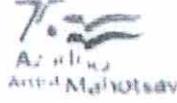
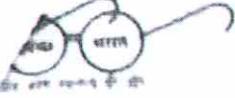
### Voting is a super power.

Use it well.



**PRINCIPAL**

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Chennai - 603103.



भारत सरकार  
Government of India  
युवा कार्यक्रम एवं खेल मंत्रालय  
Ministry of Youth Affairs & Sports  
एन एस एस क्षेत्रीय निदेशालय  
N.S.S. Regional Directorate

F.No.2-24/2023-24/NSS/6889-6939

26<sup>th</sup> March, 2024

To  
All NSS Programme Coordinator's,  
Tamil Nadu/Puducherry/A&N Islands.

**Sub: NSS – Mera Pehla Vote Desh Ke Liye (My First Vote for the country) - Campaign – reg.**

- Ref:** 1. Letter No. F.No. P.32-1/NSS/DTE/2023/213-229, Dated: 27.02.2024 from the Office of Deputy Programme Officer, Directorate of NSS, Ministry of Youth Affairs & Sports, Govt. of India. (copy enclosed)
2. Letter No. D.O.No. 16-38/2022-U1A, Dated: 27.02.2024 from the Office of Joint Secretary (HE), Department of Higher Education, Ministry of Education, Govt. of India. (copy enclosed)
3. Mail from Office of the Section Officer, NSS Section, Department of Youth Affairs, Ministry of Youth Affairs & Sports, Govt of India, Dated: 26.03.2024.

Sir/Madam,

I am to draw your attention to the letters cited at reference above on the subject cited and to state that a review meeting was taken by the Hon'ble Minister of Youth Affairs & Sports on 19.03.2024 and it has been decided to organize at least 3 programmes in each college by Programme Officer (NSS units) on Campaign on Mera Pehla Vote Desh Ke Liye (as said in reference 1). Apart from this, it has been also decided that a 10 minutes orientation about election may be done in every classroom of that college before the start of lesson.

In this connection, you are requested to direct the Programme Officers under your jurisdiction to take the above mentioned into action, and organize at least 3 programmes and 10 minutes orientation about election in each college and a furnished report may be sent to this office by 03.04.2024 positively.

**Your kind cooperation is solicited.**

Yours faithfully,

Encl: As above.

(Y.M. UPPIN)  
REGIONAL DIRECTOR

Copy to: The State NSS Officer, Tamil Nadu/Puducherry/A&N Islands.

शास्त्री भवन, बी विंग, IV ब्लॉक, IV फ्लोर, हड्डोस रोड, नुंगम्बक्कम, चेन्नई - 600 006.  
Shastri Bhawan, B Wing, IV Block, IV Floor, Haddows Road, Nungambakkam, Chennai-600 006.  
टेलीफोन / फैक्स सं Phone / Fax No. 044-29819704  
ई-मेल / Email: nssrdchennai@gmail.com, chennai-nss@nic.in

PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (Old),  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**

An Autonomous Institution - Approved by AICTE, New Delhi & Affiliated to Anna University.  
Recognized by UGC under 2(f) & 12(B) Act Accredited by NBA & NAAC 'A' Grade

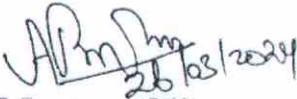


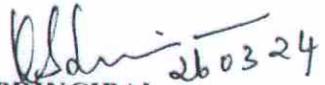
Ref.No: MSAJCE/NSS /2023 – 2024 / Dtd 26-03-24 – 1

26.03.2024

**CIRCULAR**

It is hereby informed to all students that NSS Unit of MSAJCE organizing **Election awareness campaign** on 28.03.2024 Thursday. Hence the interested NSS Volunteers are advised to enroll their names to Mr.P.Sakthivel AP / Mechanical on or before 27.03.2024.

  
26/03/2024  
NSS Program Officer

  
26/03/24  
PRINCIPAL

**Copy To|:**

- The Director
- All HoDs & Staff for student's circulation
- Admin Office
- Notice Board

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## REPORT ON ELECTION AWARENESS CAMPAIGN

**DATE:29.03.2024**

The National Service Scheme (NSS) Cell at Mohamed Sathak AJ College of Engineering has undertaken a significant initiative to foster civic responsibility and encourage active participation in the democratic process among its students. Recognizing the crucial role of youth in shaping the future of the nation, the NSS Cell organized a Voters Pledge event aimed at ensuring that every student across all classes commits to participating in the upcoming parliamentary elections by casting their vote. This report provides a detailed overview of the initiative, its objectives, planning, execution, and impact.

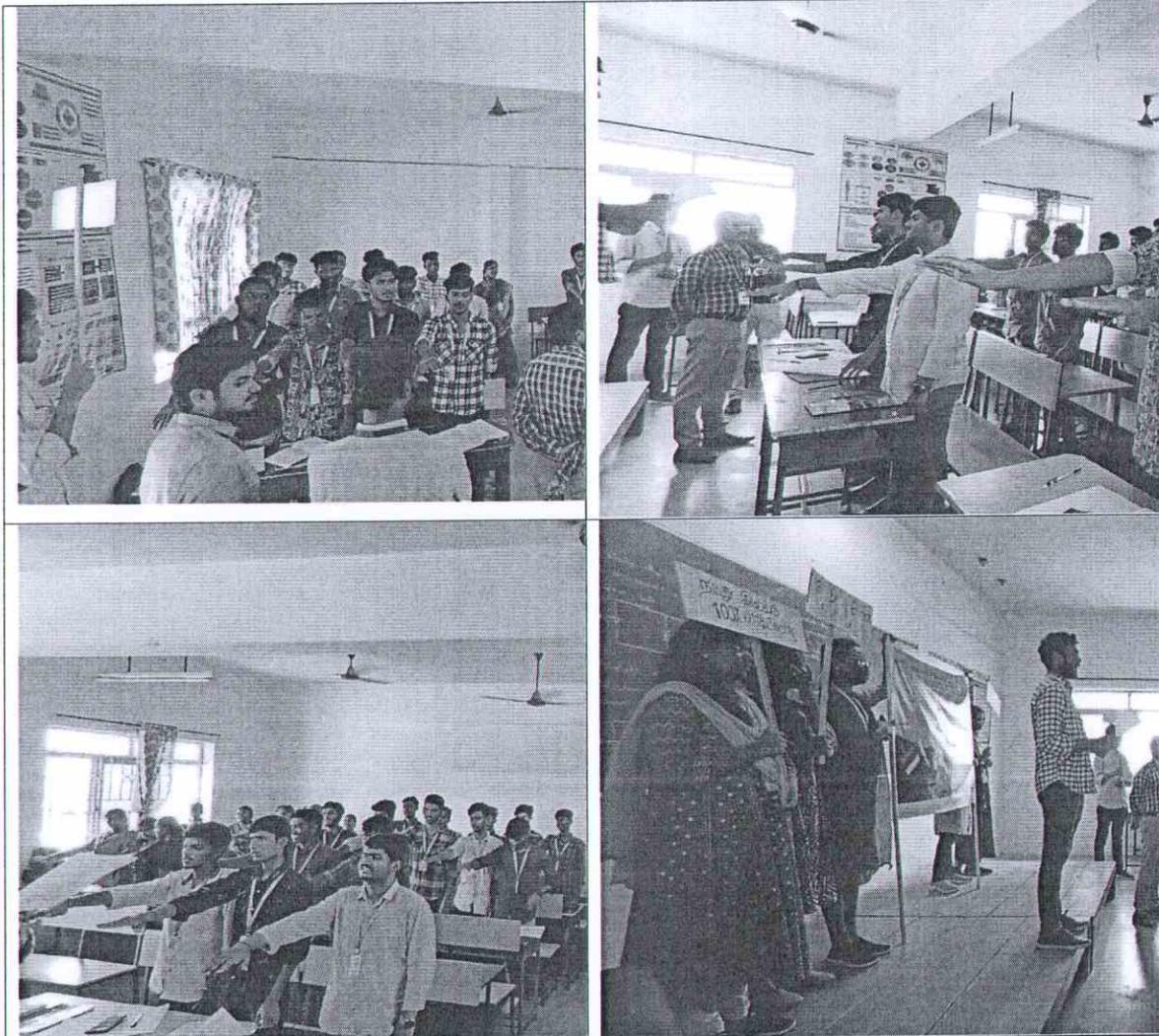
The Voters Pledge event was held on 28.03.2024, with all students taking pledge in their class rooms . The event commenced with an introductory speech by Dr. A.Balakrishnan NSS Program Officer, who highlighted the importance of voting and the role of youth in democracy. After the speeches, students were invited to take the Voters Pledge. The pledge was a solemn commitment to exercise their right to vote responsibly and to encourage others to do the same. The text of the pledge was read by Mr.R.Yogesh – NSS Student Secretary, and students repeated it in unison. The atmosphere was charged with enthusiasm and a sense of duty as students affirmed their commitment to participate in the democratic process.

In conclusion, the NSS Cell's Voters Pledge event was a successful endeavor that contributed to fostering a culture of active citizenship and responsible voting among students. By ensuring that young voters are informed and motivated to participate in elections, the initiative has laid a strong foundation for a more robust and vibrant democracy. The NSS Cell plans to continue its efforts in promoting civic engagement and looks forward to organizing similar events in the future to further enhance the democratic involvement of its students. The event was successfully organized by Dr. A.Balakrishnan, NSS Program Officer, Mr.D.Sakthivel, NSS Coordinator, and Mr. R. Yogesh, NSS Secretary.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Photographs:**



**Students taking Voter's Pledge in their class rooms**

*Alshini*

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

## VOTERS' PLEDGE

We, the citizens of India, having abiding faith in democracy, hereby pledge to uphold the democratic traditions of our country and the dignity of free, fair and peaceful elections, and to vote in every election fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement.

## வாக்காளர் உறுதி மொழி

ஜனநாயகத்தின் மீது உறுதியான நம்பிக்கையைக் கொண்டுள்ள இந்தியக் குடிமக்களாகிய நாம், நம் நாட்டின் ஜனநாயக மரபினையும், சுதந்திரமான, நேர்மையான, அமைதியான தேர்தல்களின் கண்ணியத்தை நிலைநிறுத்தவும், மதம், சாதி, இனம், சமுதாயம், மொழி மற்றும் எந்த தூண்டுதலுக்கும் அடிபணியாமலும், பயமில்லாமலும் ஒவ்வொரு தேர்தலிலும் வாக்களிப்போம் என்று உறுதி கொள்வோம்.

....



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
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Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING**  
**NSS PROGRAM**  
**Election Awareness Campaign 28.03.2024**

Sl.No	Name of the student	Register Number	Department / Year
1	Jaya kumar.V	311823106020	I ECE
2	Mohamed Ashbak Parvesh	311822106025	II ECE
3	Sandesh Kumar K	311821103003	III CIVIL
4	mohamed Izzat	311821105006	III EEE
5	Nagaraj.B	311821105010	III EEE
6	Thiyagu A	311821105015	III EEE
7	Asma Fathima	311821106005	III ECE
8	Bhavani	311821106006	III ECE
9	Chithra.S	311821106007	III ECE
10	Hikkum.N	311821106017	III ECE
11	Md yahya	311821106019	III ECE
12	Siby C	311821106030	II ECE
13	MUGILAN	311821205037	III IT
14	Dhanush .S	311822106007	II ECE
15	Santhosh raja	311822106035	II ECE
16	Amirudeen F	311822205007	II IT
17	Kavisree.D	311822205019	II IT
18	Leelambikai	311822205021	II IT
19	Mohamed hafeed	311822205033	II IT
20	S.Rakshana	311822205051	II IT
21	Sanjay kumar B	311822205055	II IT
22	Mohamed Ibrahim.S	311822244012	II CSBS
23	Prasanna G	311822244016	II CSBS
24	S.Suriyabalaji	311822244021	II CSBS
25	Kamalath.p	311823106020	I ECE
26	Mohamed ajmal	311823106028	I ECE
27	Hajeer ahamed imam	311823149004	I CYS
28	MohamedT	311823149009	I CYS
29	Sri Ganesh.A	311823149020	I CYS
30	Mohamed rifayathullah	311823205020	III IT

31 Yogesh . R                      311822205059                      II IT

[Handwritten Signature]

**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.



भारत सरकार  
Government of India  
युवा कार्यक्रम एवं खेल मंत्रालय  
Ministry of Youth Affairs & Sports  
एन.एस.एस. क्षेत्रीय निदेशालय  
N.S.S. Regional Directorate

F.No.2-77/2024-25/NSS/66

05<sup>th</sup> April, 2024

To

The NSS Programme Coordinator,  
Anna University.

**Sub: NSS – Discussion on Poll Pulse (Jan Vani) - Requesting to depute around 50 Volunteers – reg.**

Sir,

I am to refer to the subject cited and to state that the Door Dharshan Tamil is yet to organize a discussion programme titled 'Poll Pulse' (Jan Vani) in connection with Lok Sabha Elections 2024, from 5.30 Pm to 8.30 pm on 08.04.2024, at Gandhi Mandapam, Guindy, Chennai.

In this regard, you are requested to depute 50 Volunteers who are knowledgeable in the topic of politics and make sure to be presented at the above said venue before 4.30pm. Refreshments will be provided to all the participants at the venue.

**Your kind cooperation is solicited.**

  
PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Yours faithfully,



(Y.M. UPPIN)  
REGIONAL DIRECTOR



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



### REPORT ON POLL PULSE INDIA EVENT

Date: 18.04.2024

The National Service Scheme (NSS) unit of Mohamed Sathak AJ College of Engineering (MSAJCE) actively participated in the "Poll Pulse" TV debate show organized by DD India at Gandhi Mandapam, Chennai on 08.04.2024. This report encapsulates the involvement of our students in this significant event aimed at promoting voter awareness and engagement in the democratic process.

Under the guidance of Dr. A. Balakrishnan NSS Program Officer, two enthusiastic NSS volunteers Mr.Dinesh Kumar T & Mr.Yogesh R from MSAJCE took part in the debate show. The preparation for the event involved extensive discussions and research on current electoral issues, ensuring that our students were well-equipped to contribute meaningfully to the debate.

During the show, our students actively engaged in discussions on a range of topics including voter apathy, the role of social media in elections, the importance of informed voting, and ways to increase youth voter turnout. Their articulate and informed contributions not only represented the youth's perspective but also highlighted the significance of active civic participation.

The participation of NSS volunteers from MSAJCE in the "Poll Pulse" TV debate show reflects our commitment to promoting civic engagement, democratic values, and youth participation in governance. Through informed discussions and active engagement, we strive to contribute to the creation of an informed and empowered citizenry. The students' involvement in the debate showcased their awareness of electoral issues and their dedication to fostering a more participative democracy.

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Sipcot - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK  
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34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



This experience was invaluable for our students, providing them with a unique opportunity to voice their opinions on a public platform and engage with a wider audience. It also reinforced the importance of being well-informed and actively participating in the democratic process.

We extend our sincere gratitude to DD India for providing us with the opportunity to participate in the "Poll Pulse" TV debate show and contribute to the discourse on electoral issues. Special thanks to all the NSS volunteers whose enthusiasm and articulate contributions enriched the debate. Their performance was a testament to the values and principles instilled by the NSS unit.

Lastly, we express our heartfelt appreciation to Dr. A. Balakrishnan for his encouragement and support, which was instrumental in motivating our students to participate in this significant event. His guidance ensured that our students were well-prepared and confident in representing the voice of the youth in this important discussion.

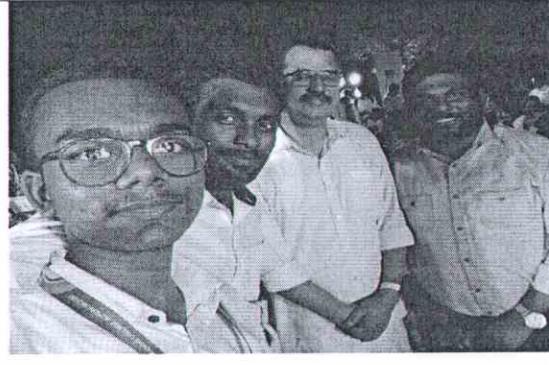
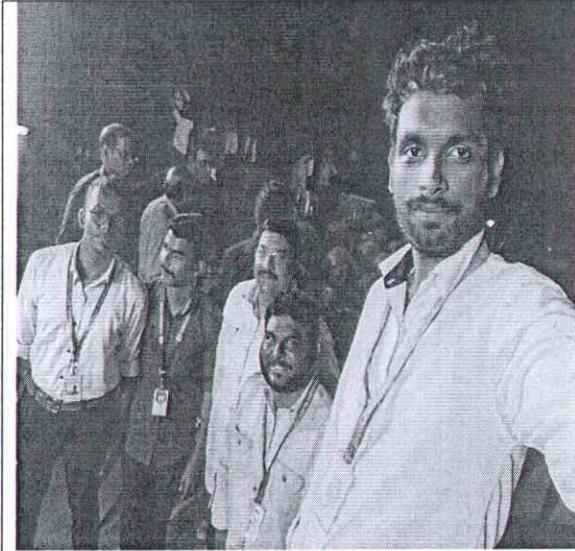
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Chennai - 603103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



**Photographs:**



**Our NSS Volunteers participating in DD India's Poll pulse Debate Show**

**PRINCIPAL**  
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A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103



Ref. No: MSAJCE/NSS/Dt:15/04/2024

Date:15/04/2024

**CIRCULAR**

It is hereby informed to all students and staff that NSS Unit of MSAJCE & Tamilnadu Fire Service Siruseri SIPCOT jointly organizing fire safety awareness program on 17.04.2024 in our college premises on the account of National Fire service Day. Hence the interested students and staff are advised to participate in the event.

  
15/04/2024  
NSS Programme Officer

  
15/04/2024  
Principal

Copy to:

- All Depts.
- Admin Office
- Notice Board
- Office File

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
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**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## REPORT ON FIRE SAFETY AWARENESS PROGRAM

The National Service Scheme (NSS) unit of MSAJCE organized a Fire Safety Awareness Program on 17.04.2024. The program was conducted in the fourth floor auditorium at 10.45am. The objective of this program was to educate students and staff about the importance of fire safety, the causes of fire, and the preventive measures to be taken to avoid fire-related incidents.

The fire officials spoke about necessity to educate students about fire hazards and safety measures, to demonstrate the use of fire safety equipment, to create awareness about emergency evacuation procedures and to instill a sense of responsibility towards fire safety among students and staff. Nearly 100 students and 12 staff members participated and got benefitted by the program. The firemen demonstrated on Fire Safety in Educational Institutions, safe handling of Electrical Equipment, storage and handling of flammable materials, types of fire extinguishers and their uses and usage, fire Alarms and Smoke Detectors.

The participants actively engaged in discussions and practical demonstrations, enhancing their understanding of fire safety. Hands-on training in using fire extinguishers and conducting evacuation drills provided practical knowledge. Emphasis was placed on the importance of having an emergency plan and regular fire drills in institutions. The feedback from participants was overwhelmingly positive. They appreciated the practical approach of the sessions and expressed increased confidence in handling fire emergencies.

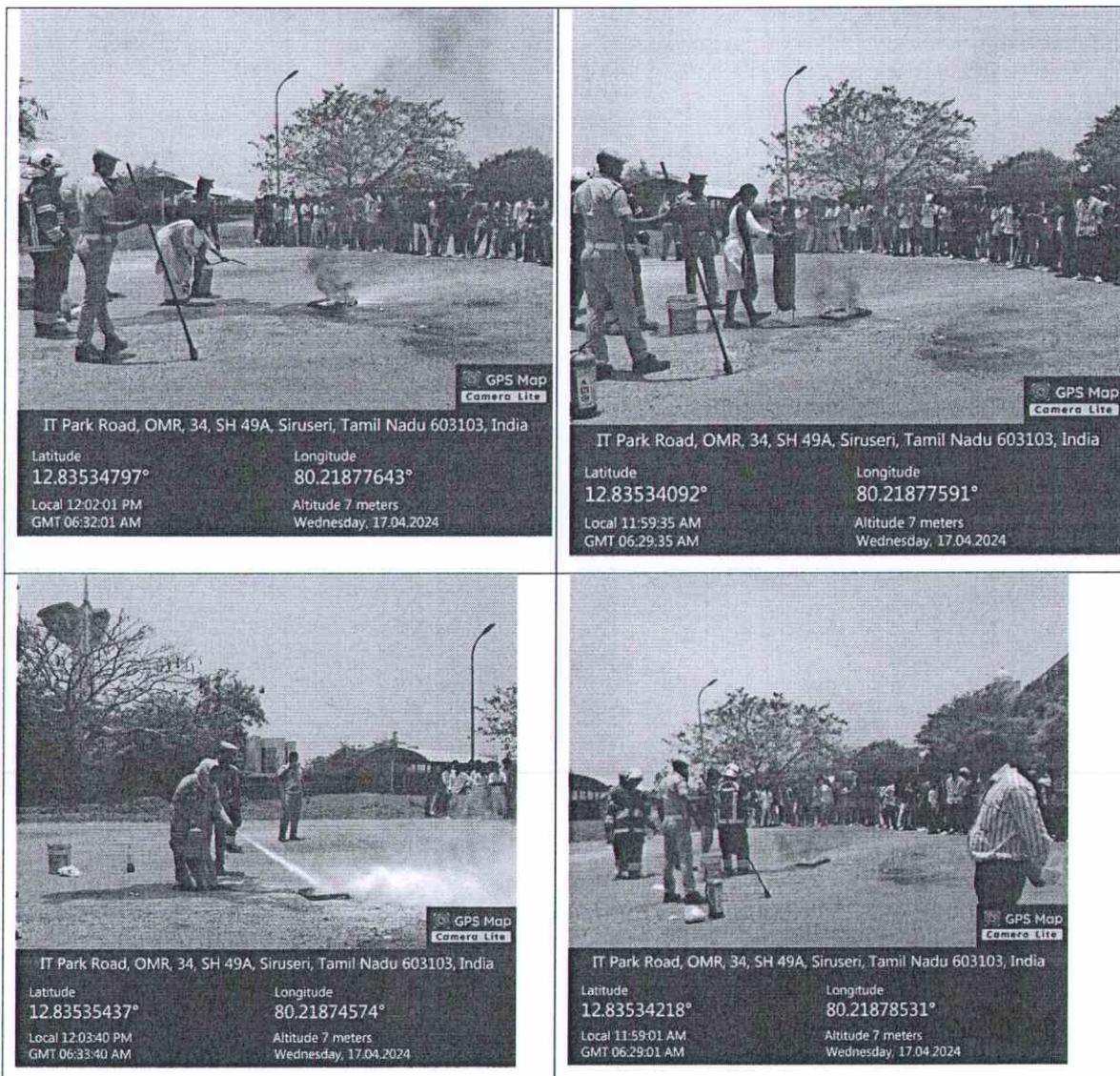
The program successfully instilled a sense of responsibility towards maintaining fire safety standards in their daily lives. Participants are now more aware of the causes of fire and preventive measures. Practical sessions equipped participants with the skills to use fire safety equipment effectively. Increased awareness about emergency evacuation procedures and the importance of regular drills.

The event was successfully organized by Dr. A. Balakrishnan, NSS Program Officer and Mr. D. Sakthivel, NSS Coordinator. Their efforts in planning and executing the training program were highly appreciated by both the participants and the resource person. The program concluded

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with a vote of thanks by Mr. D. Sakthivel, who expressed gratitude to the fire officials for their explicit demonstration and invaluable contribution to the society, especially youngsters.

This Fire Safety Awareness Program was a significant step towards promoting a culture of safety and preparedness. It emphasized the need for continuous education and practice to prevent fire-related incidents and ensure the safety of everyone in the college community.



**Fireman Providing Demonstration on Fire Safety**

  
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**NSS Unit of MSAJCE  
&**

**Tamilnadu Dr.MGR Medical University**  
*Jointly Organizes*

# Blood Donation Camp

**Date: 08/05/2024**

**Venue: MSAJCE**

**Convener**  
Dr.A.Balakrishnan  
NSS Programme Officer

**Staff Coordinator**  
Mr.P.Sakthivel  
NSS Coordinator

**Student Coordinator**  
Mr.R.Yogesh II IT  
NSS Secretary



**99400004500**



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**A BOTTLE OF BLOOD SAVED MY LIFE. WAS IT YOURS?**

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No.34, Rajiv Gandhi Salai (OMR),  
Sipcot - IT Highway Egambrasi,  
Chennai - 603103.



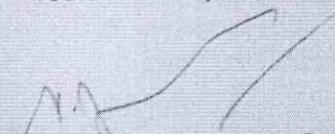
As a part of the Post Graduate teaching and training in *Immunohaematology and Blood Transfusion*, a 24 hours Blood Bank is functioning with state of art equipments with necessary specialists. The blood collected here are screened for various transfusion transmitted infections and separated into various components which are issued to the needy patients of the following Government Hospitals at free of cost.

1. Madras Medical College & Government Rajiv Gandhi General Hospital, Chennai.
2. Stanley Medical College & Govt. Hospital, Chennai.
3. Government Kilpauk Medical College & Hospital, Kilpauk Chennai.
4. Govt. Institute of Child Health & Hospital, Egmore, Chennai.
5. Government Kasturba Gandhi Hospital for Women and Children, Triplicane.
6. Government Peripheral Hospital, Anna Nagar, Chennai.
7. Arignar Anna Memorial Cancer Hospital & Research Institute, Karapettai, Kanchi.
8. Greater Chennai Corporation Hospital's, Chennai.
9. Government Primary Health Centre's (PHC), Chennai, Kanchi, Thiruvallur Districts.
10. Government Royapettah Hospital, Royapettah, Chennai.
11. Government Medical College, Omandurar Government Estate, Triplicane.
12. Institute of Obstetrics and Gynaecology & Hospital, Egmore, Chennai.
13. Chengalpattu Medical College, Chengalpattu.
14. Government Villupuram Medical College Hospital, Mundiampakkam, Vilupuram.

To provide safe blood to the society it is absolutely essential to collect the same from the voluntary non remunerated blood donors. The blood donation is safe and each individual is physically examined before the blood collection. Hence it is requested a **Blood Donation Camp may kindly be organised in your esteemed institution** thereby the eligible voluntary blood donors may be given an opportunity to come forward to donate their blood which will save the suffering patients.

Thanking you,

Yours faithfully,

  
(Prof. Dr. P. Arumugam, M.D.,)

Pls Further Cont:  
S. Alvarammal, M.S.W.,  
S.G. Social Welfare Officer – DTM  
dtmswo1@tnmgrmu.ac.in  
Mobile No: 8778619480



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



Ref.No: MSAJCE/NSS/Dtd:06/05/2024

Date:06/05/2024

## CIRCULAR

It is hereby informed to all the students that , NSS unit of MSAJCE and The Tamilnadu Dr.MGR Medical university jointly organising a blood donation camp on 08/05/2024 in our college premises . Students those who are interested can participate.

Certificates and Refreshments will be provided.

NSS Programme officer

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipeet - IT Highway Egattur,  
Chennai - 603103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## **REPORT ON BLOOD DONATION CAMP**

**Date : 10.05.2024**

On May 8, 2024, the NSS unit of Mohamed Sathak A.J. College of Engineering (MSAJCE), in collaboration with Dr. MGR Medical University, successfully organized a voluntary blood donation camp at the MSAJCE campus. The event aimed to address the critical shortage of blood in medical emergencies and promote a culture of voluntary blood donation among students. The camp witnessed enthusiastic participation from over 30 students who selflessly donated blood, demonstrating their commitment to serving the community.

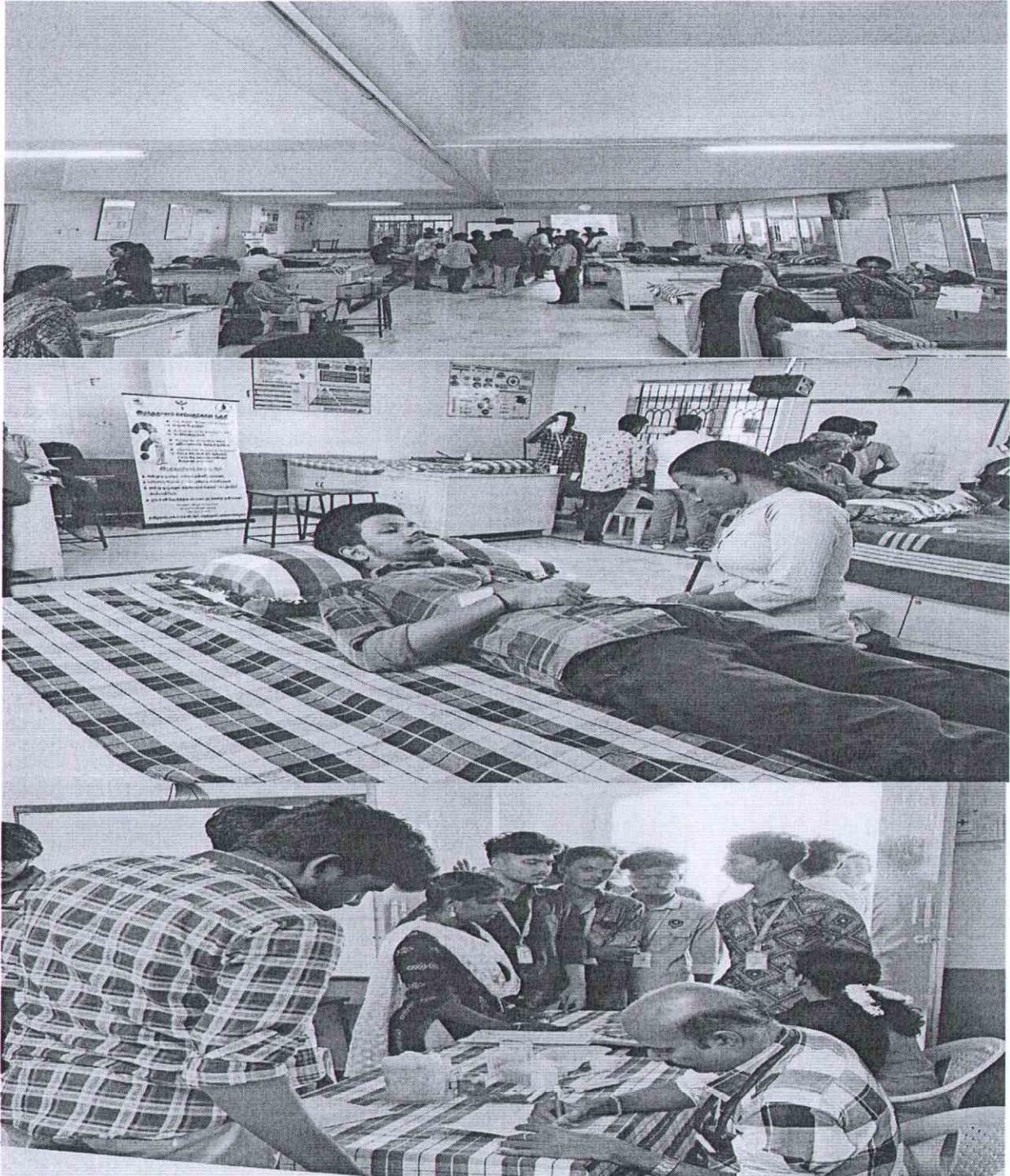
The camp commenced with an inaugural address by Dr. A. Balakrishnan, NSS Program Officer emphasizing the importance of blood donation in saving lives. Rigorous health checks were conducted for all donors to ensure their eligibility for donation, under the supervision of experienced medical professionals. Throughout the day, students enthusiastically participated in the donation process, showcasing their altruism and compassion towards those in need. The event also included informative sessions conducted by volunteers from Dr. MGR Medical University, educating participants about the benefits of regular blood donation and dispelling common myths and misconceptions.

The voluntary blood donation camp was a resounding success, with the collective effort resulting in a significant contribution to the blood bank. The event not only fulfilled its immediate objective of blood collection but also served as a platform to instill a sense of social responsibility and community service among the students.

In conclusion, the voluntary blood donation camp organized by NSS MSAJCE and Dr. MGR Medical University exemplified the spirit of altruism and solidarity, highlighting the commitment of the student community towards serving society. Through such initiatives, MSAJCE continues to uphold its ethos of social responsibility and humanitarianism, leaving a positive impact on society. Led by Dr. A. Balakrishnan – NSS Programme Officer, Mr. D. Sakthivel-NSS Coordinator, and Mr. R. Yogesh-NSS Secretary, the organizers ensured the smooth execution of the event, with the support of the medical team from Dr. MGR Medical University

**PRINCIPAL**  
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Chennai - 603103.

**PHOTOGRAPHS**



**NSS Volunteers participating in Blood Donation Camp**

*Abhinav*  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

No.69, ANNA SALAI, GUINDY, CHENNAI - 600 032.

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E-mail : [mail@tnmgrmu.ac.in](mailto:mail@tnmgrmu.ac.in)

Ph. : 22353574, 22353576 - 79, 22301760 - 63, 22353094  
Fax : 91-44-22353698

DR.P.ARUMUGAM, M.D., (Path)  
PROFESSOR & HOD,  
DEPARTMENT OF TRANSFUSION MEDICINE

Phone No. 044 -22353546 - 47

DTM/SWO(1)/05142/2024

Date: 10.05.2024

To

DR.K.S.SRINIVASAN ,  
PRINCIPAL,  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING,  
NO.34, RAJIV GANDHI SALAI (OMR), SIRUSERI IT PARK, CHENNAI – 603 103.

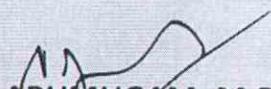
Respected Sir,

We appreciate the efforts taken by you in successfully organizing the Voluntary blood donation camp on 8<sup>th</sup> May 2024 at MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING, CHENNAI – 603 103. During the camp 52 donors donated Blood. Thereby setting an example for other. Congratulations for exceptional group of dedicated voluntary blood donor.

Very many thanks to the donors for helping the needy.

Thanking you,

Yours faithfully,

  
Dr.P.ARUMUGAM, M.D.,

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
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Sipcot - IT Highway Egattur,  
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DEPARTMENT OF TRANSFUSION MEDICINE

Phone No. 044 -22353546 - 47

DTM/SWO(1)/05142/2024

Date: 10.05.2024

To

DR.A. BALAKRISHNAN,  
NSS PROGRAMME OFFICER,  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING,  
NO.34, RAJIV GANDHI SALAI (OMR), SIRUSERI IT PARK, CHENNAI – 603 103.

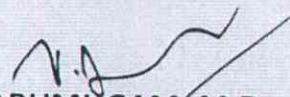
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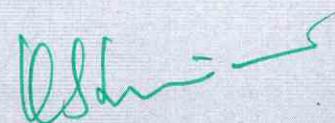
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Very many thanks to the donors for helping the needy.

Thanking you,

Yours faithfully,

  
Dr.P.ARUMUGAM, M.D.,

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
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Sipcot - IT Highway Egattur.  
Chennai - 603103.



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PROFESSOR & HOD,  
DEPARTMENT OF TRANSFUSION MEDICINE

Phone No. 044 -22353546 - 47

DTM/SWO(1)/05142/2024

Date: 10.05.2024

To

MR. P. SAKTHIVEL,  
NSS COORDINATOR,  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING,  
NO.34, RAJIV GANDHI SALAI (OMR), SIRUSERI IT PARK, CHENNAI – 603 103.

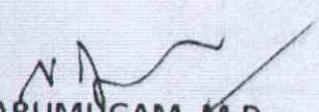
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PROFESSOR & HOD,  
DEPARTMENT OF TRANSFUSION MEDICINE

Phone No. 044 -22353546 - 47

DTM/SWO(1)/05142/2024

Date: 10.05.2024

To

MR. R. YOGESH  
NSS SECRETARY – STUDENT COORDINATOR,  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING,  
NO.34, RAJIV GANDHI SALAI (OMR), SIRUSERI IT PARK, CHENNAI – 603 103.

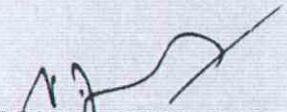
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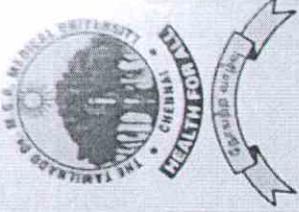
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Thanking you,

Yours faithfully,

  
Dr.P.ARUMUGAM, M.D.,

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# The Tamil Nadu Dr. M.G.R. Medical University

## Certificate of Appreciation

We are pleased to appreciate the noble gesture of **D.R.:K.:S.:S.R.I.N.I.V.A.S.A.N.:J.:P.R.I.N.C.I.P.A.L**  
for organising a Voluntary Blood Donation Camp at **M.O.H.A.M.E.D...S.A.T.H.A.K...A.:J.:C.O.L.L.E.G.E**  
**O.F...F.N.G.I.N.E.E.R.I.N.G...C.H.E.N.N.A.I...603.103**..... on **08.05.2024**.....

This noble gesture shown by your organisation towards the needy patients is commendable.

Blood Bank Medical Officer

Head of Institution

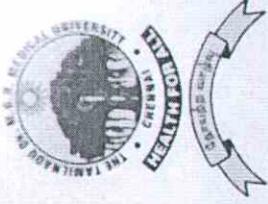
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Dr. M.G.R. MEDICAL UNIVERSITY



# The Tamil Nadu Dr. M.G.R. Medical University

## Certificate of Appreciation

We are pleased to appreciate the noble gesture of **M.R.P. SAKTHIVELU...N.S.S.COORDINATOR**  
for organising a Voluntary Blood Donation Camp at **MOHAMMED SAATHAK...A.J.COLLEGE OF  
DENTAL SURGERY...CHENNAI...ON 08.05.2024**.....

This noble gesture shown by your organisation towards the needy patients is commendable.

Blood Bank Medical Officer

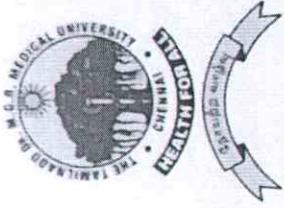
Head of Institution

PRINCIPAL

Principal  
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DEPARTMENT OF TRANSFUSION MEDICINE  
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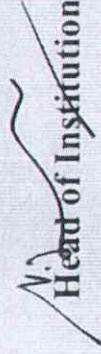
# The Tamil Nadu Dr. M.G.R. Medical University

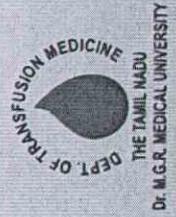
## Certificate of Appreciation

We are pleased to appreciate the noble gesture of **DR. A. BALAKRISHNAN,**  
for organising a Voluntary Blood Donation Camp at **NSS PROGRAMME OFFICER**  
**MOKHAMMED SATHAK A.I. COLLEGE**  
**CHENNAI** on **05.05.2024**

This noble gesture shown by your organisation towards the needy patients is commendable.

  
Blood Bank Medical Officer

  
Head of Institution

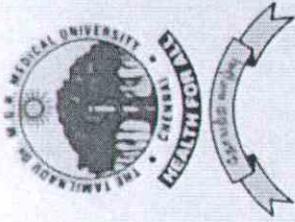


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Sipcot - IT Highway Egattur,  
Chennai - 603103



# The Tamil Nadu Dr. M.G.R. Medical University

## Certificate of Appreciation

We are pleased to appreciate the noble gesture of **.D.R.:K.:S.:S.R.I.N.I.V.A.S.A.N.:P.R.I.N.C.I.P.A.L**  
for organising a Voluntary Blood Donation Camp at **.M.O.H.A.M.E.D..S.A.T.H.A.K...A.:J.:C.O.L.L.E.G.E**  
**.O.F...F.N.G.I.N.E.E.R.I.N.G...C.H.E.N.N.A.I.-603.103:**..... on **08:05:2024**.....

This noble gesture shown by your organisation towards the needy patients is commendable.

Blood Bank Medical Officer

  
Head of Institution

**DEPARTMENT OF TRANSFUSION MEDICINE**  
69, Anna Salai, Guindy, Chennai - 600 032.

**PRINCIPAL**  
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Chennai - 600103.

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	711	VIGNESHWARAN. R 4/421, MAIN ROAD - URANIPURAM			
	712	THIRUKAICASANATHAN 6-2-1E VASANTHA NAGAR BATLAGUNDU - 624202			
	713	ANUSHA. R DOOR NO 5, Unity Estate Flat no 9 PULYVIST Lane, Thiruvallur Kodambakkam Ch-24			
	714	N. SIVA SANKAR MADHA DENTAL COLLEGE HOSTEL			
	715	R. HARISH. NO 80/37 WEST MADA STREET KALADIPEI, CHENNAI - 600019.			
	716	GANESH. S.K NO. 6/40B, 4TH CROSS STREET, VADAPALAM CHENNAI - 600026			
	717	SUDHARSAN. V NO. 18/22 SIVAN KOVIL ST, KOJAMBEDU CHENNAI - 600077			
	718	MOHAMAD SATHAK A.J. COLLEGE S. MANJUNATHAN			
	719	S. MOHAMED IMRAN.			
	720	G. ASHWIN			



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

  
NSS Programme Officer  
Mohamed Sathak A.J. College of Engineering  
Sirusri IT Park Chennai - 603103

# BLOOD DONOR

Sl. No.	Date	Bag No.	Donor Name / Address	Age	Sex	Height
		724	V. O. JAINATHI			
		722	KAVIRAJAN P.T			
		723	MUHAMMAD THOUFIK			
		724	A. SHEIK SAMIEER AHMED			
		725	M. MUHAMMAD AHMAD			
		726	A. MUHAMMAD HAREED			
		727	M. J. B. BAHAM SHAFIQ			
		728	CHI THAPPA M.			
		729	MUHAMMAD BASITH			
		730	YAMHAN M.			
		731	A. KATHIRA SHAMEER			
		732	M. HARISHA ADITHYAN			
		733	M. MOHAMMAD JAYAN MAHDI			
		734	S. HAJI MUHAMMAD			
		735	M. RASHEED M.			

*[Handwritten Signature]*

NSS Programme Officer  
 -Mohamed Saifullah College of Engineering  
 Sreenivasarayan Road, Chennai - 600 103

# REGISTER / RECORD

Sl. No.	Pulse	CVS / RS	Blood Group	Donor Voluntary / Replacement	Donor Signature	Medical Officer Signature
				Voluntary	<i>[Signature]</i>	
				Replacement	<i>[Signature]</i>	
				Voluntary	<i>[Signature]</i>	
				Replacement	<i>[Signature]</i>	
				Voluntary	<i>[Signature]</i>	
				Replacement	<i>[Signature]</i>	
				Voluntary	<i>[Signature]</i>	
				Replacement	<i>[Signature]</i>	
				Voluntary	<i>[Signature]</i>	
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				Voluntary	<i>[Signature]</i>	
				Replacement	<i>[Signature]</i>	

*[Handwritten Signature]*



# BLOOD DONOR

Sl. No.	Date	Bag No	Donor Name / Address	Age	Sex	Weight Kg
		751	MOHAMED RAFIEK . K.			
		752	S. REYHAN			
		753	AASIF . S.			
		754	SHAHID AHMED . S.			
		755	K. MOHAMED ARSATH.			
		756	NARES . P.			
		757	GT. CHANDRA PRAKASH BABU.			
		758	HAMDAR ASHRAP.			
		759	MOHAMED . T.			
		760	HAFIER AHAMED IMAM.			
		761	SYED MOHAMMED			
		762	MOHAMED JAFFAR . M			
		763	RAM KUMAR . C.			
		764	A. MOHAMED HAFIS.			
		765	S. ANAS RAHMAN.			

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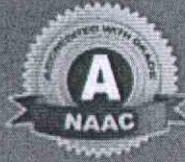
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Chennai - 603103.





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**NSS Unit of MSAJCE**

&

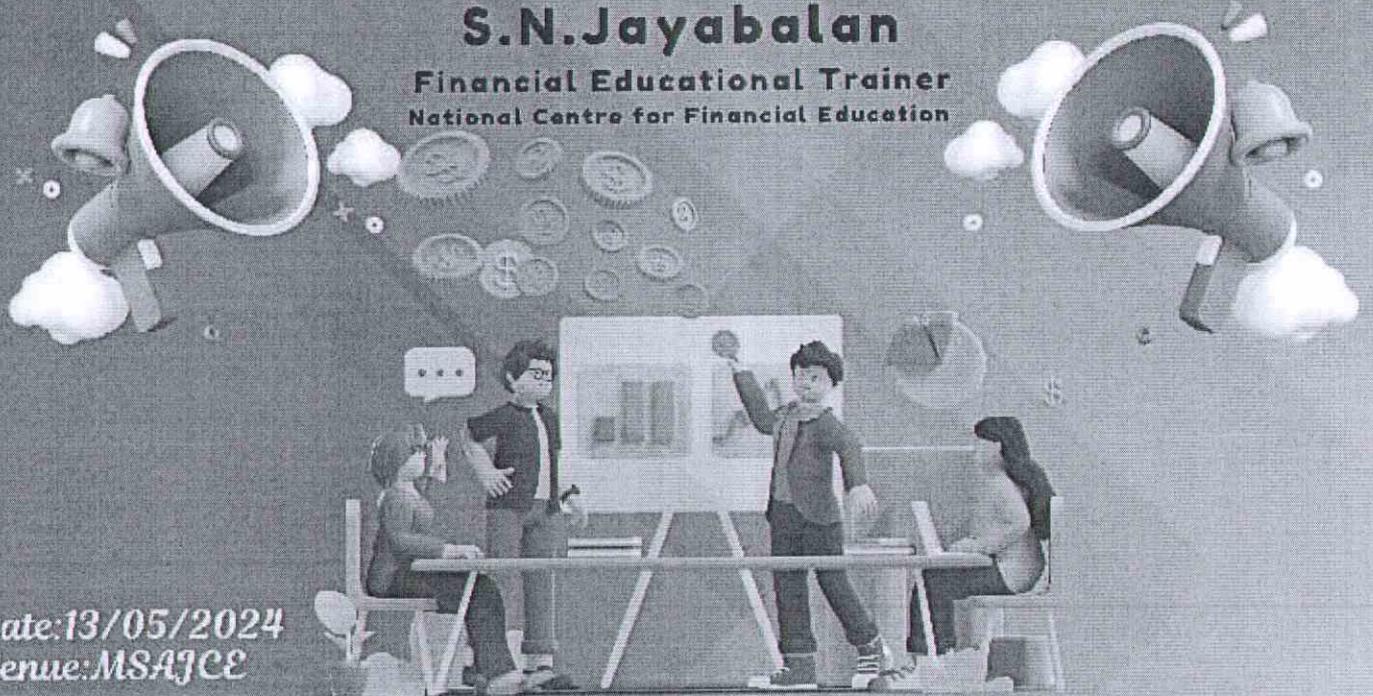
**National Centre for Financial Education  
organizes**

# FINANCIAL TRAINING FOR NON TEACHING STAFFS

**Resource Person**

**S.N.Jayabalan**

**Financial Educational Trainer  
National Centre for Financial Education**



**Date: 13/05/2024  
Venue: MSAJCE**

**Convener  
Dr.A.Balakrishnan  
NSS Programme Officer**

**Staff Coordinator  
Mr.P.Sakthivel  
NSS Coordinator**

**Student Coordinator  
Mr.R.Yogesh II IT  
NSS Secretary**

**99400004500**

**www.msajce-edu.in**

**msaj.engg.college**

**msajce**

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**TNEA  
CODE  
1301**



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## REPORT ON FINANCIAL TRAINING PROGRAM

Date: 15.05.2024

The NSS Cell of Mohamed Sathak A.J. College of Engineering collaborated with the National Centre for Financial Education (NCFE) to organize a comprehensive financial training program for the college's non-teaching staff on 13.05.2024. The primary objective of this initiative was to enhance financial literacy among the staff, empowering them with essential skills for better financial management and decision-making. The training took place in the college seminar hall, which was fully equipped to provide a conducive environment for learning.

The program witnessed active participation from around 50 non-teaching staff members, including administrative staff, lab assistants, and maintenance personnel. These participants were eager to improve their understanding of financial concepts and gain practical knowledge that could be applied to their personal and professional lives. The session was led by Mr. S. N. Jayabalan, a highly experienced financial education trainer from NCFE. He brought with him a wealth of knowledge and experience, having conducted numerous workshops on financial literacy across various institutions.

The program began with an introductory address by Dr. A. Balakrishnan, the NSS Program Officer, who emphasized the importance of financial literacy in today's economic environment. This was followed by Mr. Jayabalan's engaging and interactive lectures. He broke down complex financial topics into simple, relatable examples, ensuring that all participants could easily grasp the concepts being taught. The training also included Q&A sessions, where participants had the opportunity to clarify their doubts and gain deeper insights into specific financial matters.

To reinforce the theoretical knowledge, practical exercises were integrated into the training. Participants engaged in activities such as budgeting simulations and financial planning exercises, allowing them to apply what they had learned in a hands-on manner. This practical approach helped to solidify their understanding and build confidence in managing their finances.

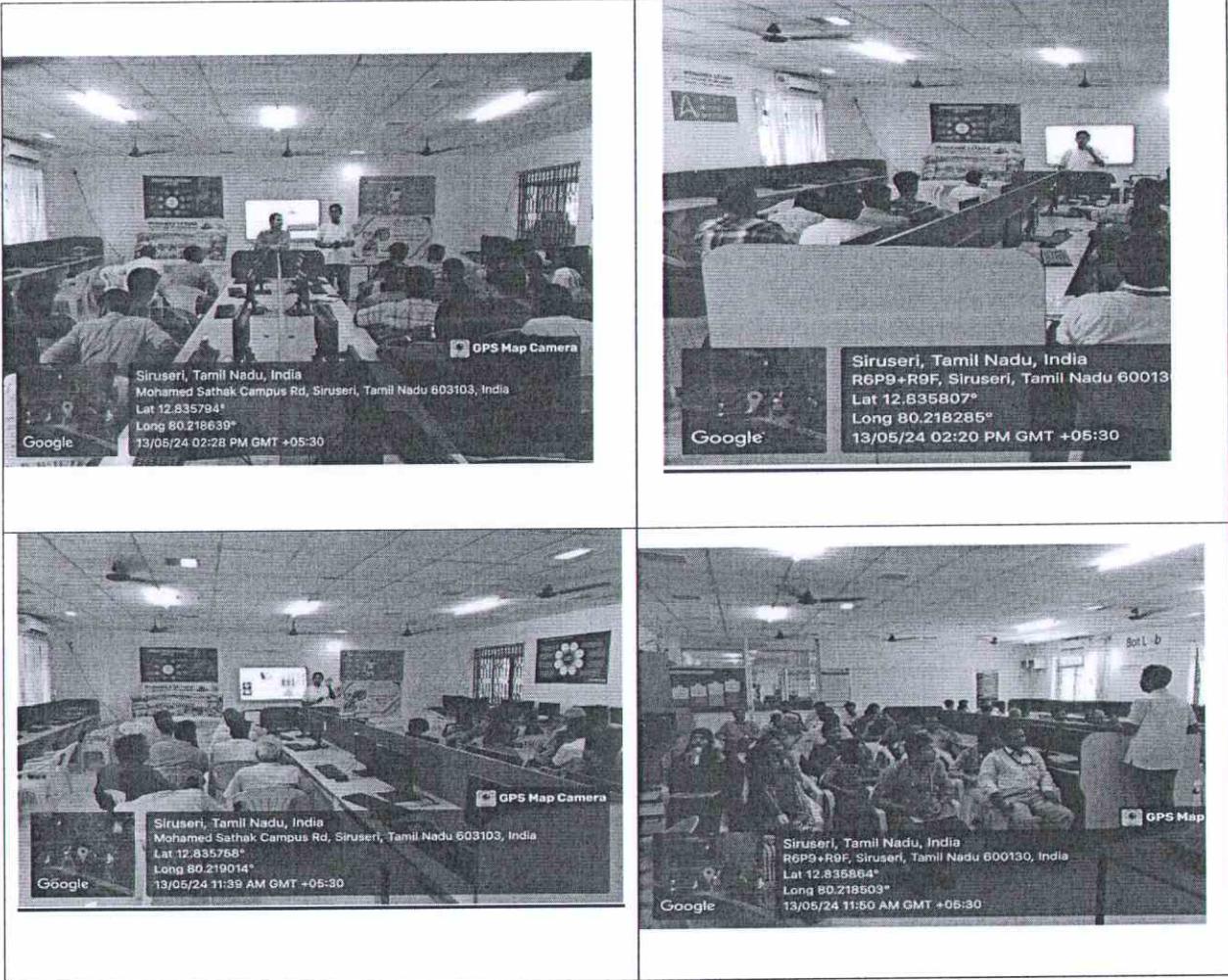
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The event was successfully organized by Dr. A. Balakrishnan, NSS Program Officer, Mr. D. Sakthivel, NSS Coordinator, and Mr. R. Yogesh, NSS Secretary. Their efforts in planning and executing the training program were highly appreciated by both the participants and the resource person. The program concluded with a vote of thanks by Mr. D. Sakthivel, who expressed gratitude to the speaker for his invaluable contribution and to all participants for their enthusiastic involvement.

Feedback collected from the participants indicated a high level of satisfaction with the training program. Many expressed their appreciation for the practical insights and useful knowledge gained, which they believed would significantly benefit their personal financial management. The successful execution of this program highlighted the commitment of MSAJCE's NSS Cell and NCFE to promoting financial literacy and empowering individuals with the skills necessary for financial well-being.

  
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**Photographs:**



**Trainer Mr.Jayabalan from NCFE providing Financial Training for Staff**

  
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National Service Scheme (NSS) Cell  
Financial Trainig for Adults (13.05.2024)  
Attendance Sheet

1	Mr.B.Ravi	[Signature]
2	Mr.S.Meganathan	[Signature]
3	Mr.Nithyanantham	[Signature]
4	Mr.K.Ravi	[Signature]
5	Mr.A.Dinesh	[Signature]
6	Mr.Ramesh	[Signature]
7	Mohamad Jamil Rasak	[Signature]
8	Mr.K.Jayabalan	[Signature]
9	Mr.Ekambaram	Ekambaram.
10	Mr.S. Mohan	[Signature]
11	Mr.E. Dhanraj	[Signature]
12	Mr.Dhakshinamoorthy	[Signature]
13	Mr.M. Prakash	[Signature]
14	Mr. SalimAnnavi	[Signature]
15	Mr.Nidhin karthik	[Signature]
16	Mrs.V.Vani Shree	[Signature]
17	Mrs.P.Nandhini	[Signature]
18	Mrs.Anitha Sivakumar	[Signature]
19	Mr. Syed Hameed Basha	[Signature]
20	Mr.N. Bharath Kumar	[Signature]
21	Mr.G. Durai	[Signature]
22	Mr.Rangaraj	[Signature]
23	Mr.K.S. Syed Mohideen	[Signature]
24	Mr.A.Sathish Kumar	[Signature]
25	Mr.J. Stanis Peter Vishal	[Signature]
26	Mrs.S.Saraswathi	[Signature]
27	Mr.R.Soundarajan	[Signature]
28	Mr.R.Soundarajan	[Signature]
29	Ms.M.Saradha	[Signature]
30	Mr.Priyadharshini	[Signature]

[Signature]  
NSS Programme Officer  
Mohamed Sathak AJ College of Engineering  
Siruseri IT Park Chennai 603 103

[Signature]  
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Chennai - 603103.

31	Mr. V. Moorthy	<i>V. Moorthy</i>
32	Mr. A. Selvakumar	<i>A. Selvakumar</i>
33	Mr. M. Velu	<i>M. Velu</i>
34	Mr. E. Sathish	<i>E. Sathish</i>
35	Mr. S. Suresh	<i>S. Suresh</i>
36	Mr. T. Kanagaraj	<i>T. Kanagaraj</i>
37	Mr. K. Sathish	<i>K. Sathish</i>
38	Mr. M. Murugan	<i>M. Murugan</i>

*Abhinav  
Bostrey*

*Abhinav*

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भारत सरकार  
Government of India  
युवा कार्यक्रम एवं खेल मंत्रालय  
Ministry of Youth Affairs & Sports  
एन.एस.एस. क्षेत्रीय निदेशालय  
N.S.S. Regional Directorate

Lr.No.F.2-145/2024-25/ NSS/

२३७ - २३४

Date: 02.05.2024.

To

The Programme Coordinators, NSS,  
Anna University and Directorate of Technical Education  
Chennai.

**Sub: Mobilization of NSS Programme Officer as Master Training for My Bharat & Digital Literacy at St.Josephs College of Engineering, Kancheepuram, on 29<sup>th</sup> and 30<sup>th</sup> May, 2024 - reg.**

Sir,

I am to refer to the above subject and to inform that the Ministry of Youth Affairs & Sports, Govt. of India has planned to impart training programme to NSS Programme Officers on My Bharath & Digital Literacy. The Training will be conducted at **St.Josephs College of Engineering, Kancheepuram Old Mahabalipuram Road, Kamaraj Nagar, Semmancheri, Semmanjeri, Chennai, Tamil Nadu - 600119 on 29<sup>th</sup> and 30<sup>th</sup> May, 2024** (Two days).

In this connection, you are requested to depute **30 NSS Programme Officers from Anna University and 25 NSS Programme Officer from Directorate of Technical Education** who are not attended the earlier programme under your jurisdiction from nearby **Chennai, Kanchipuram & Chengalpattu region** to attend the training and become Master Trainers for NSS. The selected NSS Programme Officers should have basic computer knowledge & communication skills to train further NSS functionaries in My Bharat & Digital Literacy.

The Traveling TA/DA by shortest route, accommodation, Food and refreshment will be provided by the Organisers.

You are requested to furnish the details of Programme Officers in G-Form by 12 noon tomorrow (03.05.2024).

**G-Form Link:**

[https://docs.google.com/forms/d/e/1FAIpQLSc7QnAIRJCYdz2bYgdNqYaUBt59xGu41bKxc4s4gdddqgyIvg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSc7QnAIRJCYdz2bYgdNqYaUBt59xGu41bKxc4s4gdddqgyIvg/viewform?usp=sf_link)

Your kind Cooperation is solicited.

Yours faithfully,

(DR.C.SAMUEL CHELLIAH)  
REGIONAL DIRECTOR

Copy to: The Director of College Education, Tamil Nadu. For kind information.

शास्त्री भवन, बी विंग, IV ब्लॉक, IV फ्लोर, हाडोस रोड, नुंगम्बाक्कम, चेन्नै - 600 006.  
Shastri Bhawan, B Wing, IV Block, IV Floor, Haddows Road, Nungambakkam, Chennai - 600006  
टेलीफोन / फैक्स सं Phone / Fax No. 044-29819704

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An Autonomous Institution

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Recognized by UGC 12(B) & 2(f) Act | An ISO: 9001-2015 Certified Institution | Accredited by NBA, NAAC with "A" Grade

## PARTICIPATION IN MY BHARAT AND DIGITAL LITERACY PROGRAMME

01.06.2024

Mobilization of NSS Programme Officer as Master Training for My Bharat & Digital Literacy programme was held on 29<sup>th</sup> & 30<sup>th</sup> May 2024 at St. Joseph's College of Engineering. In this programme Dr.A.Balakrishnan NSS Programme Officer, Mohamed Sathak AJ College of Engineering have participated. 25 NSS Programme Officer from various polytechnic colleges, and Engineering Colleges from Chennai, Kancheepuram and Chengalpet region.

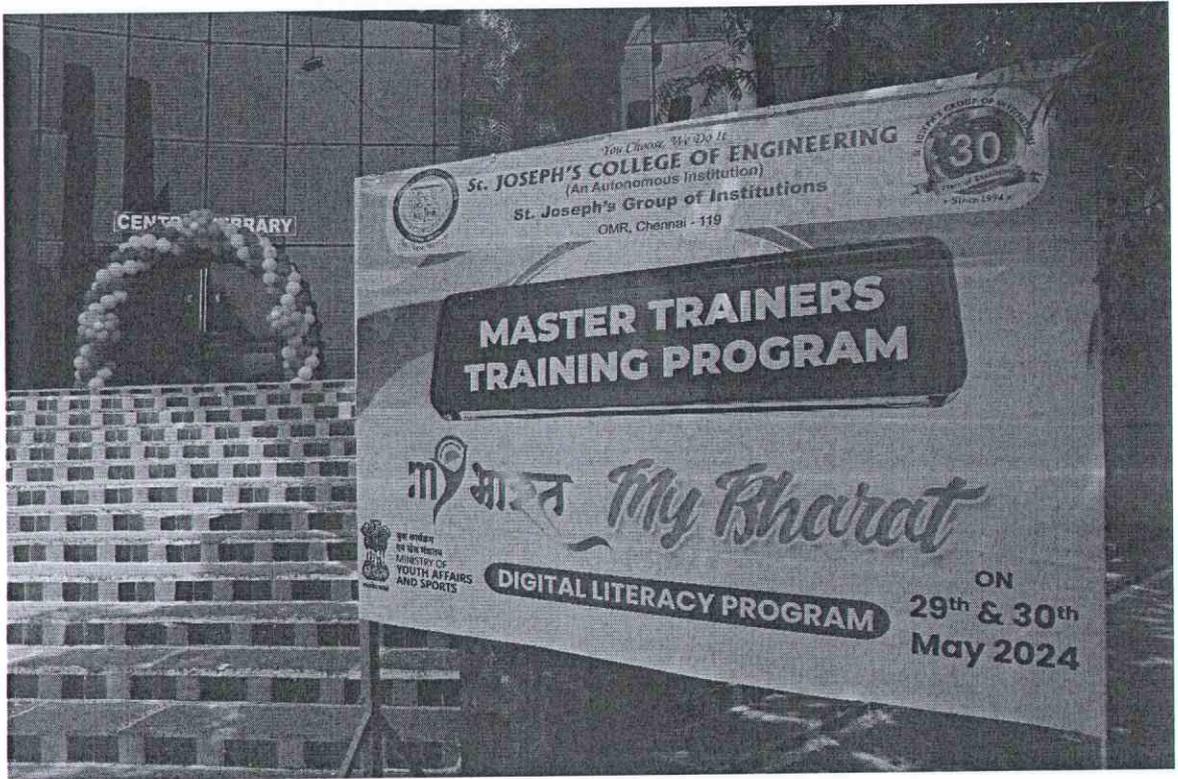
On 29.05.2024 the formal Inaugural function started. In this function, **Dr.C.Samuel Chellaiah**, Regional Director, Ministry of Youth Affairs and Sports delivered the inaugural address. He also appreciated all the NSS Programme Officer of the Institute for their dedicated efforts in the development of the Nation through student community involvement. He also insisted the programme officer to motivate the students to active participation in their social activities.

In this Programme, Principal of St. Joseph's College of Engineering briefed about the programme My Bharat & Digital Literacy. In afternoon session the faculty members have given hands on training on My Bharat Portal. They also well explained about the role of student and faculty in the portal. They also talked about the facility available for the students like experiential learning, CV building, Voluntary social work. For NSS programme officer the available portal in my Bharat and the evaluation method for NSS volunteer for their task completion also explained well. Finally link for quiz for I day session shared to all participants. We are completed the task and went to home.

On second day 30.05.2024 morning session the faculty expert taught about Microsoft MS Word, XL and PPT well. At the same session the hands-on training also provided for all participants. In afternoon session Faculty expert taught about mail merge, Canva (Poster making software). Finally, the link for Quiz II Day shared to all participants. We have completed the task and went to home. The programme was very useful for all NSS Programme Officers.

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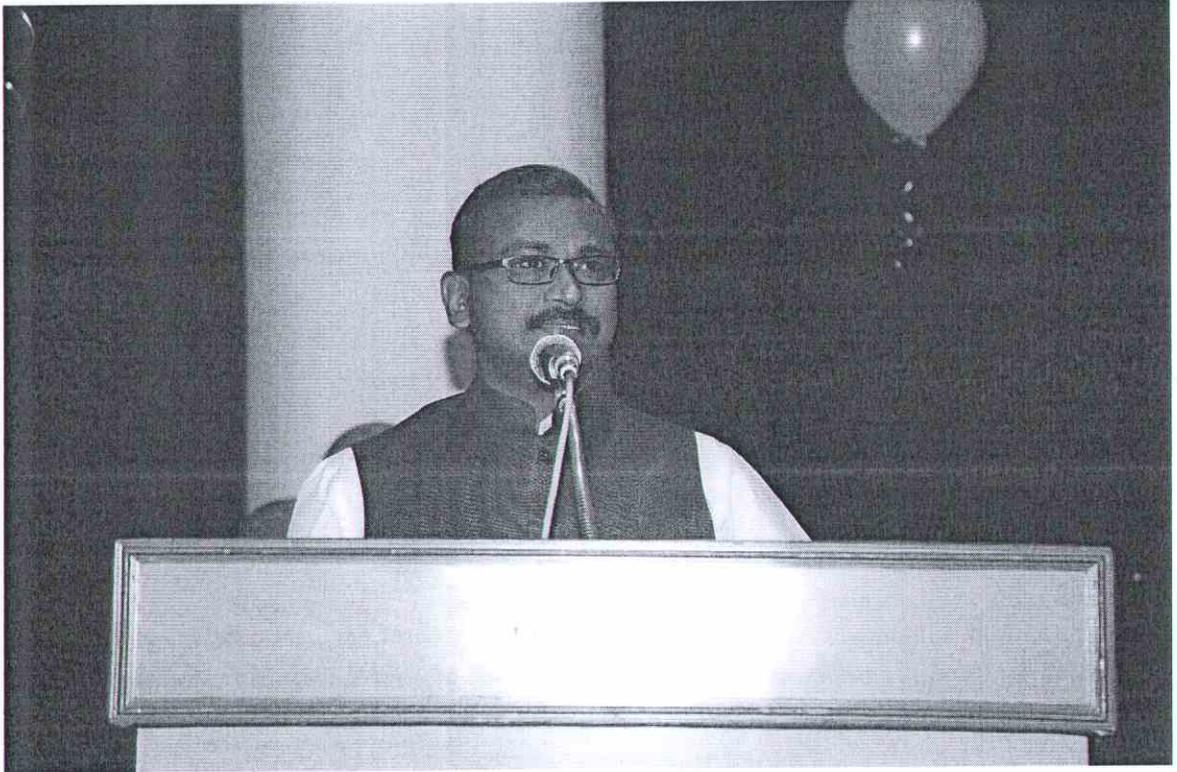


Master Trainers Training Programme

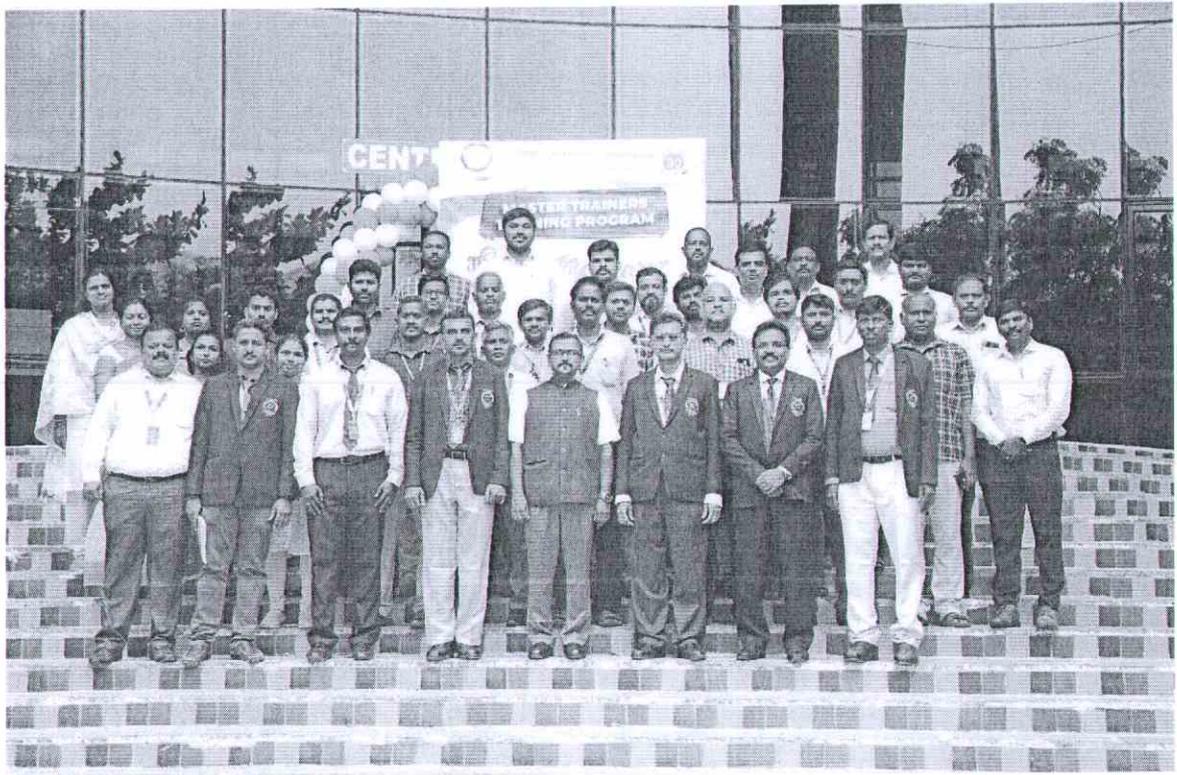


Inaugural Function of My Bharat and Digital Literacy

  
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Chief Guest address the gathering



Group Photo Session

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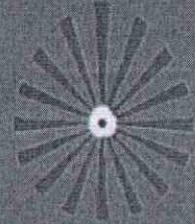
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MSAJCE NSS CELL

&

PRAJAPITA BRAHMA KUMARIS  
ISHWARIYA VISHWA VIDYALAYA  
JOINTLY ORGANIZES



# TOBACCO AWARENESS RALLY



WORLD NO  
TOBACCO DAY



SHOLLINGANALLUR,  
CHENNAI

YOUR DECISION TO QUIT SMOKING TODAY  
WILL SHAPE A HEALTHIER TOMORROW.

NSS PROGRAMME OFFICER

Dr.A.Balakrishnan  
Head Administration

NSS COORDINATOR

Mr.D.Sakthivel  
AP/MECH

NSS SECRETARY

Mr.R.Yogesh  
II / IT



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[nss@msajce-edu.in](mailto:nss@msajce-edu.in)

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Ref No: MSAJCE/ NSS /2023-2024/007

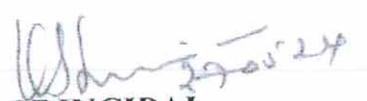
Date:27.05.2024

**CIRCULAR**

It is hereby to informed to all students that NSS unit of MSAJCE and Brama kumarikal Jointly organizing on a Tobacco awareness rally on 31.05.2024 Friday in Sholinganallur. Hence the interested students enroll their name using the following link.

URL Link: <https://forms.gle/dJSAgEmtXuVZf5u56>.

  
NSS Coordinator

  
PRINCIPAL

**Copy to:**

1. The director
2. All the HODs and staff (for student circulation)
3. Notice board
4. Admin office.

  
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## REPORT ON TOBACCO AWARENESS RALLY

Date: 03.06.2024

In observance of World No Tobacco Day, Mohamed Sathak A.J. College of Engineering and Prajapitha Brahma Kumaris Ishwariya Vishwa Vidyalaya jointly organized a comprehensive tobacco awareness rally across four areas: Shollinganallur, Navalur, Thiruvanmiyur, and Kotturpuram on 31.05.2024. The primary objective of this initiative was to educate the community about the severe health risks associated with tobacco use and to promote a tobacco-free lifestyle.

Nearly 55 students and faculty members from MSAJCE, alongside volunteers from Prajapitha Brahma Kumaris enthusiastically participated in the rally. The combined efforts of these participants were crucial in spreading the message of a tobacco-free life effectively. Each participant carried banners and placards with impactful slogans such as 'Say No to Tobacco', 'Be Smart, Don't Start', and 'Quit Today for a Healthier Tomorrow'. They distributed informative pamphlets that detailed the dangers of tobacco use and provided practical tips for quitting, aiming to reach as many community members as possible.

The event was meticulously organized to maximize outreach and impact. In Shollinganallur, the rally began at 9:00 am from a central community park, passing through major streets and attracting significant attention from local residents and shopkeepers. The presence of students and faculty members marching with determination created a strong visual impact, reinforcing the anti-tobacco message.

In Navalur, the rally started at 10:00 am from the main bus stand, where participants marched through the busy market area. The inclusion of local school children added an extra layer of engagement, as they performed brief street plays highlighting the adverse effects of smoking and the numerous benefits of quitting. This interactive approach not only entertained the public but also effectively conveyed the message.

The Thiruvanmiyur rally team commenced at 11:00 am from the beach road, with a

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significant turnout of college students. Moving through residential and commercial areas, participants used loudspeakers to spread awareness, while also engaging in personal interactions with passersby. The involvement of local health officials provided an additional resource, as they offered free counseling and support for those willing to quit tobacco on the spot.

In Kotturpuram, the rally kicked off at 12:00 pm from the metro station. Participants, including members of various community organizations, walked through key localities, distributing anti-tobacco literature and engaging in meaningful discussions with the public about the hazards of tobacco use and the importance of maintaining a smoke-free environment. The diverse participation in this rally helped to reinforce the message across different segments of the community

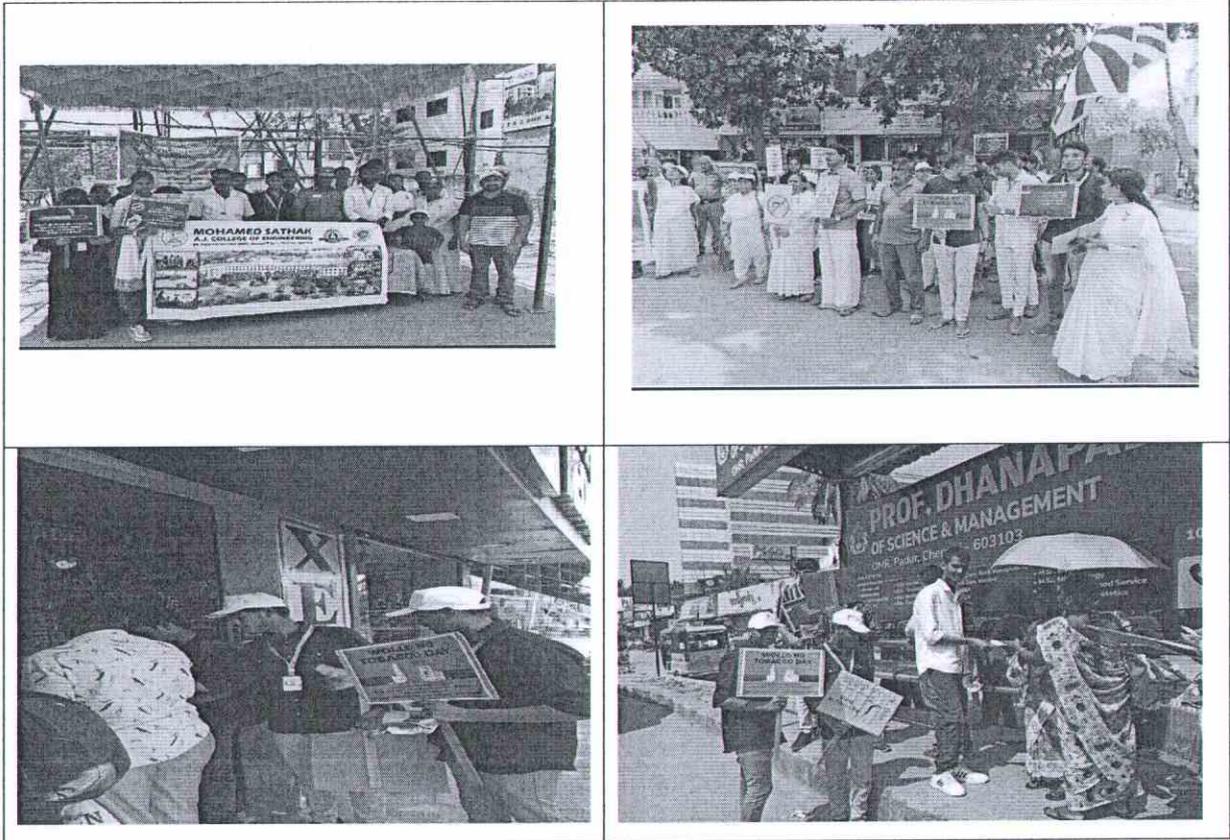
The rallies in all the four areas were well-received, with many community members expressing their support and appreciation for the initiative. The event successfully raised awareness about the detrimental effects of tobacco and encouraged many individuals to consider quitting. The active involvement of students and faculty from MSAJCE was particularly noteworthy, as their dedication and commitment played a crucial role in the event's success.

This joint effort between MSAJCE and Prajapitha Brahma Kumaris Ishwariya Vishwa Vidyalaya was a significant step towards promoting a healthier, tobacco-free society. The collaboration between the institutions, the enthusiasm of the participants, and the support of the local community were instrumental in making this initiative impactful and memorable. The organizers extend their heartfelt gratitude to all participants, volunteers, and local authorities for their invaluable support and cooperation in achieving the event's objectives. The rallies were organized by the NSS Unit of MSAJCE, by Dr. A. Balakrishnan NSS Programme officer, Mr. Sakthivel, Faculty Coordinator, and other faculty members also helped to conduct the rally in all the places smoothly to exemplify the spirit of community service.



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**Photographs:**



**Students participating Tobacco Awareness Rally**

  
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**Attendance Sheet**  
**Tobacco Awareness Rally**

Date: 31.05.2024

Sl.No	Full Name	Register Number	Year / Department	Signature
1	S. Dhanush	311822106007	II / ECE	Dhanush
2	R.gajendiran	311821106009	III/ ECE	R.gajendiran
3	Karthik S	311822106013	II/ECE	Karthik S
4	V.charumathi	311822104010	II/ CSE	V. Charumathi
5	Yogesh R	311822205059	II/IT	Yogesh R
6	Kathija shameema	311822104025	II/CSE	M. Kathija
7	Gomathi.T	311822104014	II/CSE	T. Gomathi
8	K. Mohammed iyad	311822205042	II / IT	Mohammed iyad
9	Karan raj r	311822106012	II/ ECE	Karan raj r
10	Yuvaraj.S	311822106045	II/ECE	Yuvaraj.S
11	Prasanna G	311822244016	II / CSBS	Prasanna G
12	Kamalnath P	311823106020	I/ECE	Kamalnath P
13	V. Bhuvaneshwari	311822104008	II/CSE	V. Bhuvaneshwari
14	S.rakshana	311822205051	II/IT	S. Rakshana
15	Dhanalakshmi. B	311822205011	II/IT	Dhanalakshmi. B
16	S.hema	311822205015	II/IT	S.hema
17	R girish	311820106303	I/ECE	R girish
18	Mohamed irfan	311822114013	I/MECH	Mohamed irfan

  
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19	Somamah faisal a	311822106041	II/ECE	<i>Somah faisal</i>
20	Darvesh ahmed	311822243008	II/AIDS	<i>Darvesh</i>
21	Mohamed rafeek	311822106018	II/ECE	<i>Mohamed</i>
22	Chithra	311821106007	III/ECE	<i>Chithra</i>
23	Mohamed zavith.z	311822205039	II / IT	<i>Zavith</i>
24	Idrees	311822244006	II/CSBS	<i>Idrees</i>
25	Syedmasthan	311822103004	II/CIVIL	<i>Syedmasthan</i>
26	Mohamed jaffar.M	31122105301	II / EEE	<i>Jaffar</i>
27	Mohamed nadeem	311822105302	II/EEE	<i>Mohamed Nadeem</i>
28	Gurijala Chandra prakash	311823103002	I / CIVIL	<i>Gurijala Chandra</i>
29	Mohamed suhail	311822105005	II/EEE	<i>Suhail</i>
30	Saleemullah S	311823243023	I / AIDS	<i>Saleemullah</i>
31	Aashif.H	311823244002	I/ CSBS	<i>Aashif</i>
32	Niyaz ahamed	311822114022	II / MECH	<i>Niyaz</i>
33	Navadharshan k	311823149016	I/ CYS	<i>Navadharshan</i>
34	Sasidharan r	311823149018	I/CYS	<i>Sasidharan</i>
35	H.aadil mohamed	311822243001	II / IT	<i>Aadil</i>
36	S.syed sameer	311823149022	I/CYS	<i>Sameer</i>
37	F. Mohamed hareez	311823205012	I/ IT	<i>Hareez</i>
38	Taaha	311823243031	I / AIDS	<i>Taaha</i>
39	R.mohamed aathif	311822114302	II / MECH	<i>Aathif</i>
40	Abu fahath	8122781513	I / CSBS	<i>Abu fahath</i>
41	Lokesh k	311822205022	II / IT	<i>Lokesh</i>
42	A mohammed afsar	311823243015	I/ AIDS	<i>Afsar</i>
43	Karthikeyan P	311822205018	II/IT	<i>Karthikeyan</i>
44	H. Mohammed nabes	311823104028	I / CSE	<i>Nabes</i>
45	Abubakkar siddiq.a	311823205002	I/ IT	<i>Siddiq</i>
46	Syed aahil r	311822104051	II /CSE	<i>Aahil</i>
47	Syed aakhil r	311822104052	II/CSE	<i>Aakhil</i>
48	Mohammed buhari	311822104035	II/ CSE	<i>Buhari</i>
49	A kishore kumar	311823205017	I/IT	<i>Kishore</i>
50	Pradeep	311822104040	II/CSE	<i>Pradeep</i>
51	Akash M	311822104005	II/ CSE	<i>Akash</i>
52	Abdul basith	311822205002	II / IT	<i>Basith</i>
53	Mohamed ashif	311822205028	II/ IT	<i>Ashif</i>
54	Ibrahim shafeeq	311822104020	II/CSE	<i>Ibrahim Shafeeq</i>
55	Subhasri	311823149021	I/CYS	<i>Subhasri</i>

*[Handwritten Signature]*

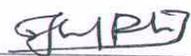
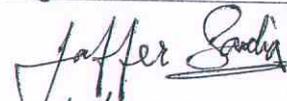
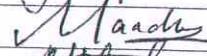
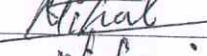
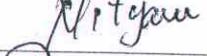
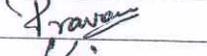
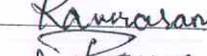
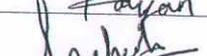
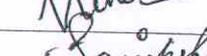
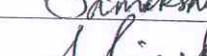
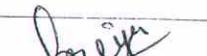
**PRINCIPAL**  
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 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway, Egattur,  
 Chennai - 603103.

56	A. Jannathul firthose	311823149005	CSE( cyber security)	<i>Jannathul</i>
57	Ansar nisha	311823149002	1/CSE-CYBER SECURITY	<i>Nisha</i>
58	Adheem rahman a	311823244005	First year/CSBS	<i>Adheem</i>
59	Sikkander basha aasif	311823104049	1st year, CSE	<i>Sikkander</i>
60	Abu bakkar siddiq.A	311832104003	1st year cse	<i>Abu</i>
61	Zakir hussain	311822104056	2nd year cse	<i>Zakir Hussain</i>
62	Ashwath K	311822104007	2nd/CSE	<i>Ashwath</i>
63	Hajeer ahamed imam	311823149004	1/Cse cyber security	<i>Hajeer Ahamed</i>
64	S.mohammed suhail hussain	311823243017	1st / B TECH AI&DS	<i>Suhail.</i>
65	Mohamed kamaludeen irfan	311822104304	2nd year / cse	<i>Irfan</i>
66	Akaram zubair	311823104054	1st year / CSE	<i>Akaram</i>
67	Kavirajan PT	311823106021	1st ECE	<i>Kavirajan</i>
68	Jaffer siddiqui n	311823104014	1st year csc	<i>Jaffer</i>
69	Karthikeyan.m	311822104028	2nd year CSE	<i>Karthikeyan</i>
70	K.Mithilesh vinayak	311822106015	2 /Ece	<i>Mithilesh</i>
71	M.praveen	311822106026	II/ECE	<i>Praveen</i>
72	Manigandan.M	311822104026	2nd/CSE	<i>Manigo</i>
73	Mohamed T	311823149009	1st Year Cyber Security	<i>Mohamed</i>
74	Mohammed ansari n	311823104037	CSE/1st yr	<i>Ansari</i>
75	Sajjad k	311823243022	AIDS 1st year	<i>Sajjad</i>
76	Deepakkumar	311823244007	1st year CSBS	<i>Deepak</i>
77	P.dinakaran	311823243003	1 St / AIDS	<i>Dinakaran</i>
78	Dinesh kumar R	311823244008	1st/B. Tech CSBS	<i>Dinesh R</i>
79	Rajkumar V	311823243019	1st year / AI&DS	<i>Rajkumar</i>
80	Habib rihan	311823244009	1st year / csbs	<i>Habib</i>
81	Mohamed riyas	311823205032	IT	<i>Riyas</i>
82	Mohammed ammar f	311823243016	1st year/ AIDS	<i>Ammar</i>
83	M.harishadithya	311822105001	2year EEE DEPARTMENT	<i>Harishadithya</i>
84	P.Dharnish babu	311822104013	2 year /BE .CSE	<i>Dharnish</i>
85	Mohamed jamees	311822104031	2/cse	<i>Jamees</i>
86	Marwan ali	311822104027	2nd/ CSE	<i>Marwan ali</i>
87	Hanish s	311822104016	II / CSE	<i>Hanish</i>
88	Joshua T	311822104024	2nd / Computer Science Engineering	<i>Joshua</i>

*Mohamed Sathak A.J.*

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89	Fahadur rahman j	311823243005	1 yr/ AIDS	
90	Mohammed jaffar saadiq	311822243022	2nd /Artificial intelligence and data science	
91	Maadhavan c.d	311822106303	Ece	
92	Nihal F	311822106023	BE ECE	
93	Nityasri E	311822106025	2nd year ECE department	
94	Praveen kumar	311822106026	Ece 2 year	
95	Kaviarasan	311823205016	1st IT	
96	Ahamed raiyan.s	311423104004	1/cse	
97	Mehek tabassum.a	311823244012	1st yerar b.tech csbs	
98	Samiksha	311823243024	1st year AIDS	
99	Abineshwari	311823243002	Artificial intelligence and data science	
100	Priya	311822106028	2nd year ECE department	
101	Divya dharshini S	311823243004	1 year B Tech Artificial intelligence and Data Science	
102	S.Shareen nishath	311823243027	1st year/AIDS	
103	S. Priyadharshini	311823244017	1st year / CSBS	



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भारत सरकार  
Government of India  
युवा मामले और खेल मंत्रालय  
Ministry of Youth Affairs & Sports  
क्षेत्रीय नदिशालय एन.एस.एस.  
Regional Directorate of N.S.S.

शास्त्री भवन बी वगि  
Shastri Bhavan, B Wing,  
IV ब्लॉक, IV फ्लोर  
IV Block, IV Floor  
हैडोज रोड, नुंगमबक्कम,  
चेन्नई - 600 006  
Haddows Road,  
Nungambakkam,  
Chennai - 600 006.

F.No.2-80/2023-24/RD-NSS/

23<sup>rd</sup> May, 2023.

To  
The All Programme Coordinator's, NSS,  
Tamil Nadu/U.T of Puducherry/U.T. of A & N Islands.

**Sub: NSS - Activities to be undertaken in the run up to the  
World Environment Day before & on 5<sup>th</sup> June, 2023 – regarding.**

Sir/Madam,

I am to refer to the subject cited above and to inform you that the Ministry of Youth affairs & Sports, New Delhi has given directions to all NSS units to organize Environment awareness and Pro Planet activities on event of "World Environment Day" on 05<sup>th</sup> June, 2023. The activities may be organised before 5<sup>th</sup> June and on 5<sup>th</sup> June, 2023 in all NSS units in Colleges/Schools/University/Directorate level.

Sl. No	Activities	Action to be taken
1.	Organize Environment awareness events	1. Cleaning public places 2. Cleaning water bodies, 3. Bicycle rallies, 4. Plastic carry bags awareness 5. Collection of E-wastes 6. Human Chain 6. Tree plantation 7. Promote Environment awareness messages in all social media handles 8. Download Merilife Mobile app (upload your activities photos ) 9. Conduct Mission Life- Environment awareness lectures, workshops at the college/schools.
2.	Promote Activities in Social Media	To Utilize social media handles to post creatives and activities to generate maximum reach. For this purpose, creatives and videos could be downloaded from the LiFE portal <a href="http://missionlife-moefcc.nic.in/Downloads.php">http://missionlife-moefcc.nic.in/Downloads.php</a> . Use these posters, videos and awareness messages in your social media handles
3.	Daily activities Reporting	Send daily report of all awareness generation and LIFE events being undertaken on the portal merilife.org with a limit of 5 pictures per event with relevant captions, 3 vidoes of 45 seconds each per event with captions, and a short description of each event to the email <a href="mailto:nssrdchennai@gmail.com">nssrdchennai@gmail.com</a> & share photos/videos with brief description in your university WhatsApp group .

You are requested to take necessary action in this regard

Yours faithfully,

(Dr.C.Samuel Chelliah)  
Regional Director

Copy to: 1. The Under Secretary, NSS Section, MOYA & Sports, New Delhi.  
2. The Director, Directorate of NSS, MOYA & Sports, New Delhi.  
3. The State NSS Officer, Tamil Nadu/ Puducherry/A & N Islands.

  
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 An Autonomous Institution



**National Service Scheme (NSS) Cell**  
**&**  
**Institution's Innovation Council**  
*jointly Organizes*



**INSTITUTION'S  
 INNOVATION  
 COUNCIL**  
 (Ministry of Education Initiative)

# Drawing Competition

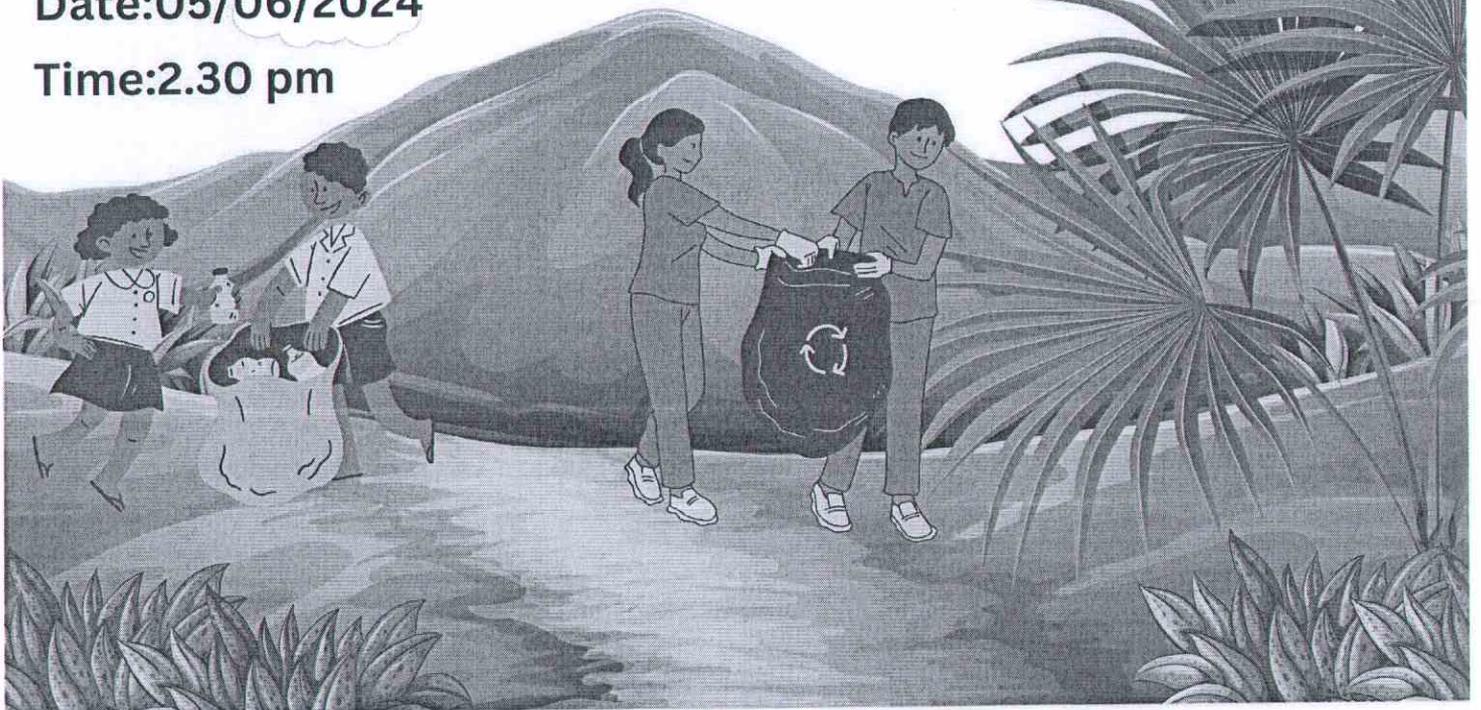
*On the Account of*

## WORLD Environment Day

"One touch of nature makes the whole world kin."

Date:05/06/2024

Time:2.30 pm



**NSS PROGRAMME OFFICER**

**NSS COORDINATOR**

**NSS SECRETARY**

**Dr.A.Balakrishnan**  
 Head Administration

**Mr.D.Sakthivel**  
 AP/MECH

**Mr.R.Yogesh**  
 II / IT



*[Signature]*  
**PRINCIPAL**

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 Chennai - 603103.





Ref No: MSAJCE/ NSS /2023-2024/008

Date:03.06.2024

### CIRCULAR

It is hereby to informed to all students that NSS unit of MSAJCE organizing a Drawing competition on the occasion of World Environment day celebration on 05.06.2024 Wednesday in our college premises. Hence the interested students can apply using the following link.

URL Link: <https://forms.gle/ApD7v2CRSYKffVT77>.

  
NSS Coordinator

  
PRINCIPAL 03.06.24

#### Copy to:

1. The director
2. All the HODs and staff (for student circulation)
3. Notice board
4. Admin office.

  
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Chennai - 603103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## REPORT ON DRAWING COMPETITION

Date: 07.06.2024

On the occasion of World Environment Day, the NSS Cell and Institution's Innovation Council (IIC) of MSAJCE (Mohamed Sathak A.J. College of Engineering) jointly organized a drawing competition. The event was aimed at promoting environmental awareness and encouraging creativity among students. The competition took place on 5<sup>th</sup> June 2024, in the college auditorium, which was decorated with eco-friendly materials to highlight the importance of environmental conservation.

World Environment Day is celebrated annually on 5 June and encourages awareness and action for the protection of the environment. Every year, the program has provided a theme and forum for businesses, non-government organizations, communities, politicians and stars to advocate environmental causes. This World Environment Day, our public health community gave efforts towards land restoration, halting desertification and building drought resilience not to forget that this is our land, and our future. The theme for the drawing competition was 'Restore Our Earth' focusing on the urgent need to protect and rejuvenate our natural ecosystems.

The competition saw enthusiastic participation from over 100 students across various departments. Students from all academic years were invited to showcase their artistic skills and convey their messages on environmental conservation through their drawings.

**Judging Panel:** The drawings were evaluated by a panel of judges comprising:

1. Dr. A. Balakrishnan- NSS Programme Officer
2. Mr. D. Sakthivel- NSS Coordinator
3. Ms.S. Usha-AP English

**Winners:** The competition concluded with the announcement of the winners.

- **First Place:** S.Manjunathan, B.Tech IT I Year
- **Second Place:** Shayaan Aariz, B.E. CSE I Year
- **Third Place:** D.Divakar , B.E Mech I Year

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A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



The drawing competition was a resounding success, fulfilling its objective of spreading environmental awareness and fostering a sense of responsibility among students towards nature. The event concluded with a speech by the NSS Coordinator Mr. D. Sakthivel who emphasized the importance of such initiatives in building a sustainable future. Many students took part in the competition enthusiastically and made creative drawing on the given topic.

The activity was held with the aim to explore the creativity and imagination of students. And also to create awareness among the youngsters regarding environmental protection. This competition strived to achieve the core values of quest for excellence, inculcating value system and fostering global competency. The MSAJCE NSS Cell and IIC extend their heartfelt gratitude to all participants, judges, and volunteers for their support and dedication in making this event a memorable and impactful one.

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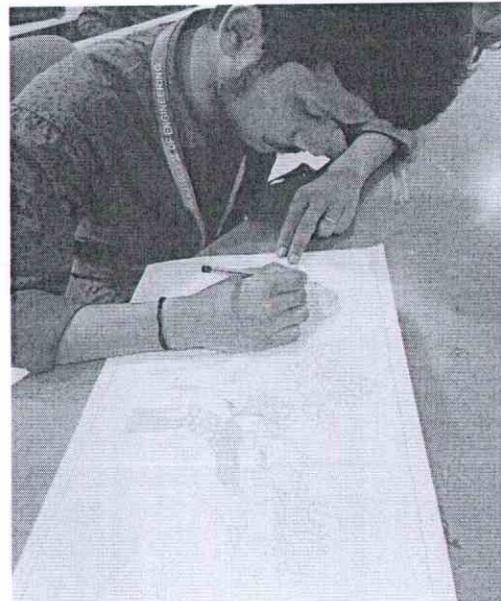
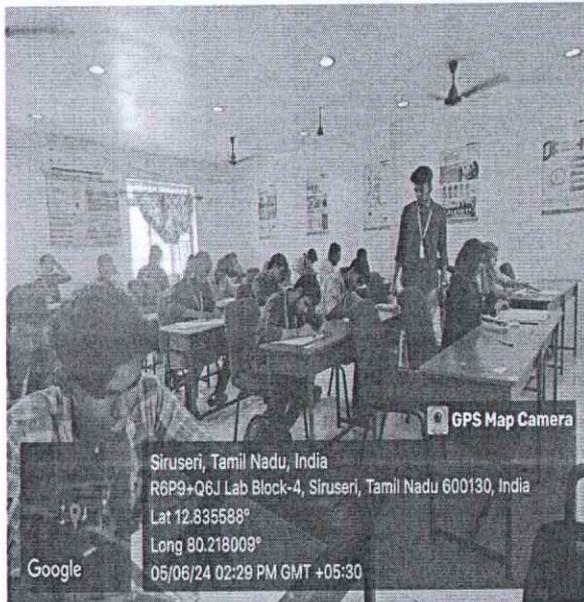
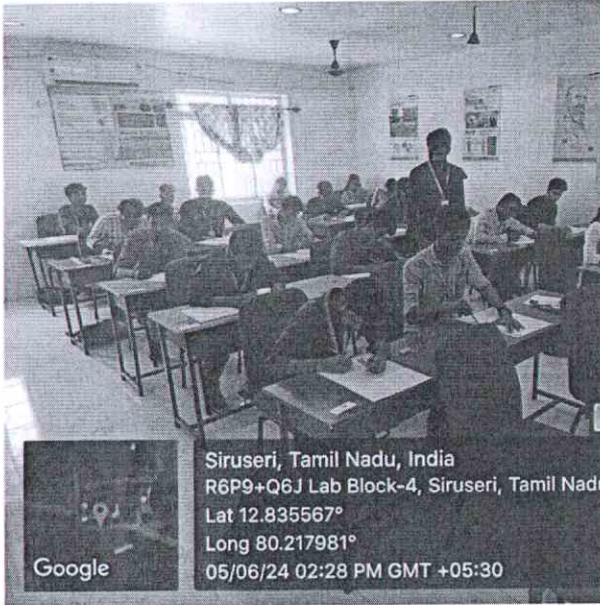


**MOHAMED SATHAK  
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34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



**Photographs:**



**Students participating in Drawing Competition**

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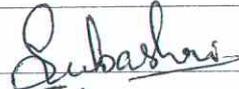
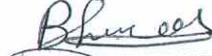
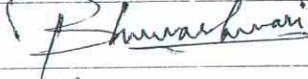
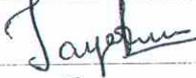
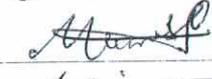
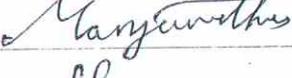
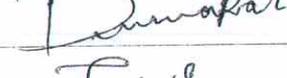
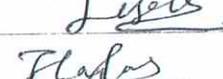
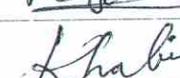
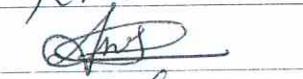
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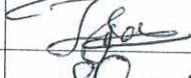
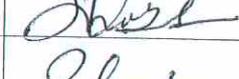
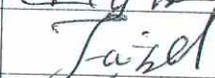
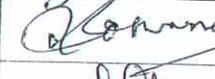
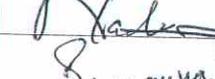
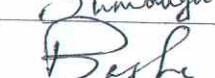
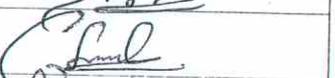
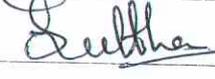
## Attendance Sheet

### World Environment Day- Drawing Competition

Date: 05.06.2024

S.No	Name	Year / Department	Signature
1	Subashri R	I/CYS	
2	Mahira Sulthana R	I/ECE	
3	Ahamed Jabir	I/ECE	
4	Bhuvaneshwari	II/CSBS	
5	Aamir Ahamed G	I/AIDS	
6	Jayakumar	I/ECE	
7	Joshua T	II/CSE	
8	Thaha Mamoodha	I/CSE	
9	Manjunathan S	I/IT	
10	Shayaan Aariz	I/CSE	
11	Diwakar D	I/MECH	
12	Jerose Ashiyar	II/ECE	
13	Hajeer Ahamed Imaam Ali	I/CYS	
14	Khabira M	I ECE	
15	Mohamed Ansar A	I/ECE	
16	Mohamed Jahir	I/ECE	

  
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Sipcot - IT Highway Egattur,  
Chennai - 603103

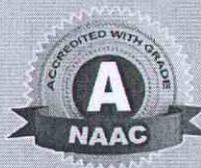
17	Dhanush S	II/ECE	
16	Ijas Ahamed	I/MECH	
17	Shahid Ahamed	I/CSE	
18	Mohamed Uawais	I/CSE	
19	Reyhan	I/CSE	
20	Mohamed Suhail J	II/EEE	
21	Somamah Faizal	II/ECE	
22	Sharukesh E	I/CYS	
23	Mohamed Nadeem	II/EEE	
24	Sumauya Farheen	I/ECE	
25	Ameer Basha	I/MECH	
26	Chandra Prakash G	I/Civil	
27	Sulthan Mashud	II/MECH	

  
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 Chennai - 603103.



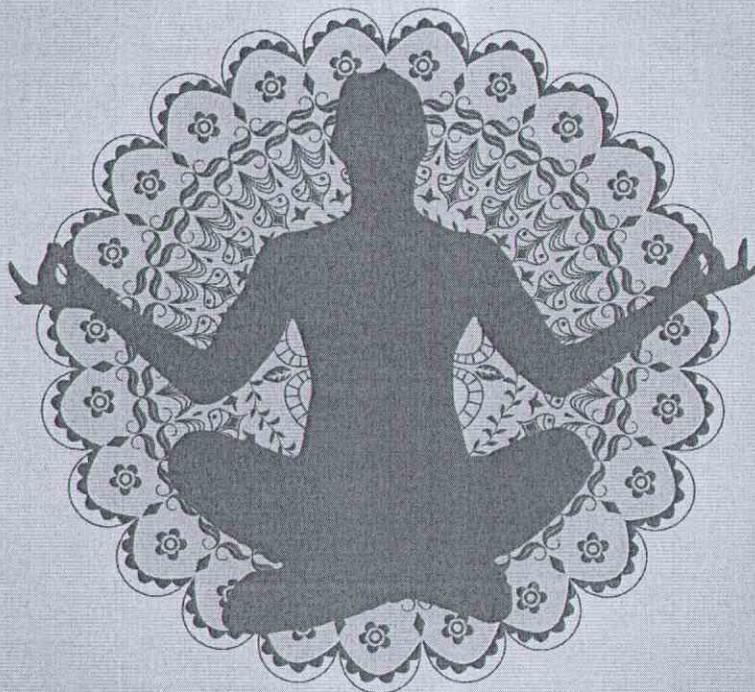
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34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



**MSAJCE NSS CELL**

Welcomes you



**International  
Yoga Day  
Celebration**

**NSS Programme Officer**

**Dr.A.Balakrishnan**

**NSS Coordinator**

**Mr.Sakthivel AP/Mech**

**NSS Secretary**

**Mr.R.Yogesh II / IT**

**PRINCIPAL**

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Siruseri, Chennai - 603 103



भारत सरकार  
Government of India  
युवा कार्यक्रम एवं खेल मंत्रालय  
Ministry of Youth Affairs & Sports  
एन.एस.एस. क्षेत्रीय निदेशालय  
N.S.S. Regional Directorate

F.No.2-89/2024-25/NSS/546-598

Date: 12-06-2024.

To  
All NSS Programme Coordinators,  
Tamil Nadu, Puducherry, A & N Islands.

**Sub: Observation of International Day of Yoga (IDY)-2024-Reg.**

Sir,

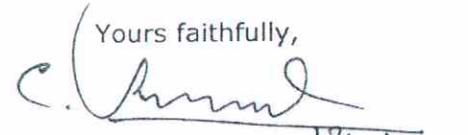
I am to refer to the subject and to state that the Ministry of Youth Affairs & Sports, New Delhi, it is to inform you this year International day of Yoga (IDY) 2024 will be observed on the theme "**Yoga for Women Empowerment**" at all NSS units, Universities, Colleges & Schools on 21<sup>st</sup> June, 2024 in Befitting manner. The suggestive activities are as under: -

1. Common Yoga protocol practice.
2. Yoga Day Mass Demonstration at Universities/Colleges/Schools.
3. Yoga Awareness Rallies at Universities to generate public awareness on Yoga.
4. Yoga Demonstration & Yoga Lectures at Institution.
5. Yoga Workshops.
6. Yoga Poster Making competitions.
7. Yoga Demonstration Competition among students.
8. Y-Break at College/Schools and familiarize the concept of Y break. (Y-Break is a five-minutes Yoga protocol, especially designed for working professionals to de-stress, refresh and re-focus at their workplace to increase their productivity, consists of Asanas, Pranayam and Dhyana).
9. Creation of events on MY Bharat Portal
10. Yoga at home & with Family and post a photo in Social Media.

In this connection you are requested to issue necessary instructions to the field unit to ensure all to create events on My Bharat Portal. You may also create the buzz on IDY through Social Media and submit photos as well as reports to this office Email:([nssrdchennai@gmail.com](mailto:nssrdchennai@gmail.com)) to us or WhatsApp in TNNSS Group without fail for sharing with our Hon'ble Minister. Post Yoga activities photos in social media handles like Facebook, Twitter and YouTube of your institution after the IDY is organized. Further, you are requested to periodically check the Ministry of AYUSH website (<https://www.ayush.gov.in>) for any update in this regard.

An early action the matter is solicited.

Yours faithfully,

  
(Dr.C.Samuel Chelliah) 12/6/24  
Regional Director

Copy to:

1. The Director, Directorate of NSS, MOYAS, New Delhi.
2. The State NSS Officer, Tamil Nadu/Puducherry/A & N Islands for kind information.

शास्त्री भवन, बी विंग, IV ब्लॉक, IV फ्लोर, हाडोस रोड, नुंगम्बाक्कम, चेन्नै - 600 006  
Shastri Bhawan, B Wing, IV Block, IV Floor, Haddows Road, Nungambakkam, Chennai-600 006

टेलीफोन / फैक्स सं Phone / Fax No. 044-29819704

ई-मेल / Email: [nssrdchennai@gmail.com](mailto:nssrdchennai@gmail.com), [chennai-nss@nic.in](mailto:chennai-nss@nic.in)

  
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34, Rajiv Gandhi Salai (OMR), Sriruseri IT Park, Chennai - 603 103.

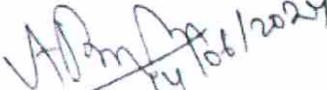


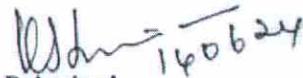
Ref. No: MSAJCE/NSS/Dt:14/06/2024

Date: 14/06/2024

**CIRCULAR**

It is hereby informed that our college NSS unit has planned to Celebrate International Yoga Day on 21/05/2024 in Yoga Hall – Fourth Floor. Hence all the Students and NSS volunteers are instructed to bring mat / long towel to do Yoga. Prajapitha Brahma Kumaris has consented to preside over the program.

  
NSS Programme Officer

  
Principal

Copy to:

- All Depts.
- Admin Office
- Notice Board
- Office File

  
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## Report on International Yoga Day Celebration

Date:22/06/2024

On July 21, 2024, the NSS unit of Mohamed Sathak A. J. College of Engineering (MSAJCE), in collaboration with Prajapitha Brahma Kumaris, celebrated International Yoga Day with great enthusiasm and dedication. The event took place in the Yoga Hall on the 4th floor of the college building, offering a peaceful and inviting atmosphere for the participants. This celebration aimed to highlight the numerous benefits of yoga and foster an awareness of healthy living among students and faculty members.

The event commenced at 10:00 AM .The hall was beautifully decorated with banners and posters that showcased the theme of International Yoga Day, focusing on "Yoga for Health and Wellness." The NSS volunteers, under the supervision of the NSS Program Officer, Dr. A. Balakrishnan , ensured that all preparations were executed flawlessly, from the arrangement of yoga mats to the setup of audio-visual equipment for presentations and demonstrations.The session began with a warm welcome address by Mr.R.Yogesh NSS Secretary, who elaborated on the significance of yoga in contemporary life and its contribution to mental and physical well-being. He emphasized the necessity of integrating yoga into daily routines to combat stress and maintain a balanced lifestyle. Following his speech, Sister from Prajapitha Brahma Kumaris delivered an enlightening talk on the spiritual dimensions of yoga and its potential to bring inner peace and harmony. Her words had a profound impact on the audience, creating an atmosphere of calmness and reflection.

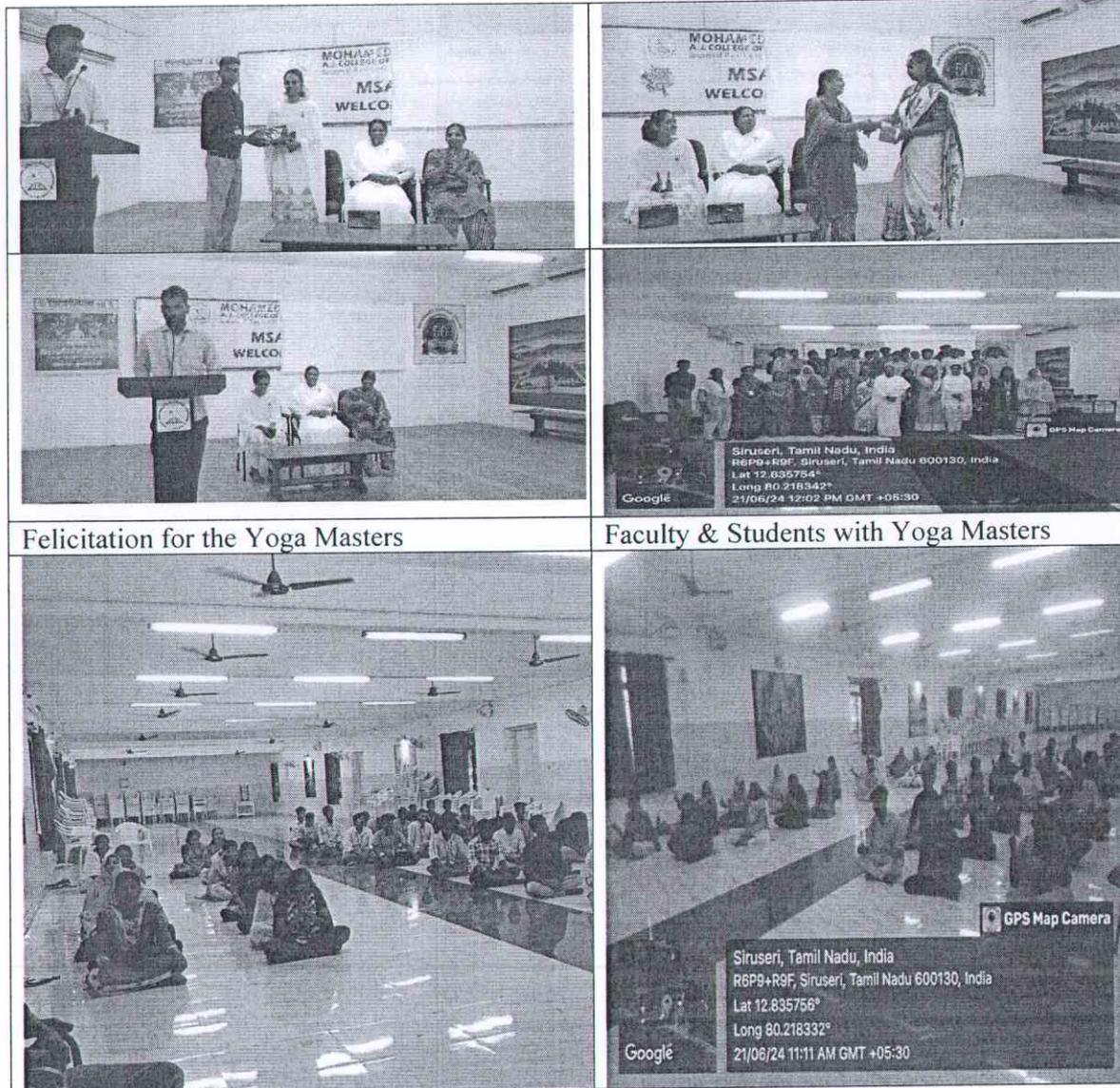
The highlight of the event was the yoga session conducted by experienced instructors from the Brahma Kumaris. They guided the participants through a variety of asanas (postures) and pranayama (breathing exercises) designed to enhance flexibility, strength, and relaxation. The instructors provided detailed explanations of each posture, ensuring that participants executed them correctly to prevent any injuries. The session was highly engaging, with participants eagerly following the instructions and participating with enthusiasm.In addition to the physical exercises, a meditation session was conducted, focusing on mindfulness and mental clarity. The participants were guided through techniques to calm the mind, reduce anxiety, and improve concentration. The soothing music and gentle instructions created a serene ambiance, allowing everyone to experience a deep sense of relaxation and inner peace. Many participants shared that the meditation session was a transformative experience, helping them connect with their inner selves

To conclude the celebration, a vote of thanks was delivered by Dr. A. Balakrishnan, who expressed his gratitude to the Brahma Kumaris, the college administration, and the NSS volunteers for their

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hard work and dedication in making the event a success. He also encouraged the participants to continue practicing yoga regularly and to promote its benefits within their communities

**Photographs:**



Felicitation for the Yoga Masters

Faculty & Students with Yoga Masters

**Yoga Session for the Students**

  
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**Mohamed Sathak A. J. College of Engineering**  
**(An Autonomous Institution)**  
**National Service Scheme (NSS) Cell**  
**International Yoga Day Celebration 2024 (21.06.2024)**  
**Attendance Sheet**

S.NO	STUDENTS NAME	SIGNATURE
1	RAMYA R	Ramya
2	SHIYAM S	Shiyam
3	KAVIN D	Kavin D
4	MOHAMMED AHSAN S	Ahsan M.
5	SIVAVADIVEL S	Siva
6	SHAREEN NISHATH S	Shareen Nishath
7	DINAKARAN P	Dinakaran.
8	MOHAMMED AMMAR F	Ammar
9	MOHAMED RAYYAN B	Rayyan B
10	TAAHA M	Taaha M
11	DIVYA DIHARSHINI S	Divya
12	ABINESHIWARI K	Abi
13	SAMIKSHA B	Samiksha B
14	MOHAMED FADIL. A.R	Fadil
15	SAJJAD K	Sajjad
16	MOHAMMED SUHAIL HUSSAIN S	Suhail M
17	MOHAMED FOUZ SULAIMAN	Fouza
18	SANDHIYA S	Sandhya
19	MOHAMED FARSHAN A	Farshan A
20	FAHADUR RAHMAN J	Fahadur
21	AASHIF H	Aashif
22	SALEEMULLAH S	Saleem
23	RAJKUMAR.V.	Rajkumar
24	HAFIL AHAMED B	Hafil
25	MOHAMED AFSAR	Afsar

  
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26	AAMIR AHAMED G	G. My.
27	SAHIBUL MIGFAR M	M. Migfar M.
28	SAQLIN MUSTAQ M	Saqlin M.
29	NIYAS AHMED N	N. N.
30	IRSHAD AHMED	Irshad
31	ABDULLA S	Abu S.
32	HEMALATHA P	Hemalatha P.
33	ABDUL JUMAIL M	Abdul Jumail M.
34	KAMALNATH P	Kamal Nath P.
35	MOHAMED FAYAS M	Fayaz M.
36	HARISHKUMAR S	Danny
37	DIHANUJA R	Dhanuja R.
38	JAYAKUMAR V	Jayakumar V.
39	SUMAIYA FARHEEN N	Sumaiya N.
40	AJAY V	Ajay V.
41	MADHANKUMAR S	Madhan Kumar S.
42	AHAMED JABIR U	Ahmed Jabir U.
43	JEFFIN SAMRAJ D	Jeffin D.
44	MOHAMED AJMAL M	Ajmal M.
45	MOHAMMED FAHEEM H	Faheem H.
46	RAJADURAI E	Raja E.
47	MOHAMED HATHEM P	Hatem P.
48	MOHIDEEN ABDULLAH N	Mohideen N.
49	MOHAMMED ZAKEER A	Zakeer A.
50	MOHAMMED WASIFDEEN H	Wasifdeen H.
51	SYED AFRIDE H	Syed Afride H.
52	MOHAMED RIHAM M A	Riham M A.
53	PRASANNA	Prasanna
54	MOHAMED NATHIR S	Nathir S.
55	MOHAMMAD ANSAR A	Ansar A.

  
PRINCIPAL

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56	FAHD AHMED KHAN K	Fahd..
57	NAFEELDEEN ASARAF ALI	Naf
58	ANWAR JAMAL PACKIR MOHAMED	Anwar
59	MAADHAVAN C D	M. Madhavan..
60	MOHAMED NAYEEM M	<del>Nayeem..</del>
61	MOHAMED AFRAN K	<del>Afran..</del>
62	V YUVANRAJ	<del>V. Yuvanraj..</del>
63	MUHAYADEEN ABDUL KADHIR S D	M. Kadhir..
64	MOHAMED JIYATH B	<del>Jiyath..</del>
65	GAYATHIRI S	G. S.
66	MOHAMED IMRAN S	<del>I. Mran..</del>
67	MUHAMMAD BUSHRUL HEMAYA M	<del>M. Bushrul..</del>
68	ZEENATH NISHA S	Z. Zeenath Nisha
69	MUHAMMAD SUFYAAN M	<del>M. Sufyaan..</del>
70	MOHAMED THIAUFICK M	M. Thiaufick
71	MOHAMED RASIN M	<del>M. Rasin..</del>
72	SHYAM NICOLAS M	Shyam
73	MANJUNATHAN S	<del>M. Manjunathan..</del>
74	ASHWIN G	Ashwin
75	MOHAMED ARSATH RAHMATHULLAH K	<del>M. Arsath..</del>
76	MURUGAN P	<del>P. Murugan..</del>
77	MOHAMED SAFFICK S	<del>M. Saffick..</del>
78	DILLIRANI P	<del>P. Dillirani..</del>
79	FATEMA M	<del>M. Fatema..</del>
80	MOHANA PRIYA M	<del>M. Mohana Priya..</del>
81	ARSHATUNNISHA M	<del>M. Arshatunnisha..</del>
82	A KISHORE KUMAR	<del>A. Kishore Kumar..</del>
83	HARISH K	<del>H. Harish..</del>
84	AFRIN FATHIMA B	Afrin Fathima .B
85	ABUBAKKAR SIDDIQ A	<del>A. Siddiq..</del>



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86	NIHETHA M	<i>ni</i>
87	ANJALIN JABAKUMARI J	<i>anj</i>
88	MASIL SANJAI P	<i>sanjai</i>
89	KAVIARASAN S	<i>kaviaras</i>
90	MOHAMED RIFAYATHULLAH M	<i>mo</i>
91	HAMEED SAHBEEN M M	<i>hameed</i>
92	MOHAMED ILYASH P A	<i>mo</i>
93	DWARAK S	<i>dw</i>
94	SHEIK ALAWDEEN M	<i>sheik</i>
95	MOHAMMED NIJAMUDEEN J	<i>mo</i>
96	MOHAMED IRFAN A	<i>A. Irfan</i>
97	ABDULLAH N	<i>abdullah</i>

*W. Sathak*  
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 Chennai - 603108.

Mohamed Sathak A J College of Engineering, Chennai-603103

Department of Computer Science and Engineering

1.3.2. Average percentage of courses that include experiential learning through project work/field work/internship during AY2023-24

courses that include experiential learning through project work/field work/internship during 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING , PROJECT DETAILS 2023-24

S.No	Title of Final Year Project	Subject code & Subjects name related to the Projects
1	Block Chain Powered Social Media	CS8691 Artificial Intelligence & CS8792 Cryptography and Network Security
2	Malware Detection Using Generative AI For Android	CS8691 Artificial Intelligence & CS8792 Cryptography and Network Security
3	Enhanced Student Performance Monitoring Mobile Application Using Flutter	CS8691 Artificial Intelligence & CS8601 Mobile Computing
4	Prediction Of Machine Failure Status	CS8792 Cryptography and Network Security & CS8079 - Human Computer Interaction
5	Virtual Reality Tourism	CS8691 Artificial Intelligence, CS8601 Mobile Computing & CS8791 Cloud Computing,
6	Prediction Of Tesla And Microsoft Stock Price Prediction By Using Regression Model	CS8691 Artificial Intelligence & CS8079 - Human Computer Interaction
7	Keyboard For People With Physical Disabilities	CS8691 Artificial Intelligence
8	Face Expression Recognition Using Cnn	CS8691 Artificial Intelligence & CS8082 Machine Learning Technoques
9	Accurate Positioning Surveillance Drone Simulation System	CS8691 Artificial Intelligence & Drone system
10	eCommerce using node js	CS8691 Artificial Intelligence , CS8601 Mobile Computing & Digital Marketing
11	Ai Assisted Virtual Try - On	CS8691 Artificial Intelligence
12	Predicting The Hereditary Disorder In The Way Of Parallelism	CS8691 Artificial Intelligence & CS8603 Distributed Systems
13	Medzine: Medicine Inventory Management System	CS8691 Artificial Intelligence & CS8079 - Human Computer Interaction
14	Symptosense - Disease Prediction System Using Machine Learning	CS8691 Artificial Intelligence & CS8082 Machine Learning Technoques
15	Voice Visualizer - Object Detection With Voice	CS8691 Artificial Intelligence
16	Restore site for blindness using vision transformer	CS8691 Artificial Intelligence & CS8791 Cloud Computing,
17	Data Mining Approaches	CS8492 Database Maangement Systems , CS8691 Artificial Intelligence & CS8791 Cloud Computing,

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Department of Computer Science and Engineering

1.3.3. Average percentage of courses that include experiential learning through project work/field work/internship during AY2023-24

S.No	Title of Project	Register No	Name of Student	Supervisor Name
1	Block Chain Powered Social Media	311820104005	ALTHAF. J	Mr.Mohideen AbdulKader M
2		311820104025	MOHAMMED KHAJA NAWAZ. A	
3		311820104307	MOHAMMED THAYYAB.A.R	
4	Malware Detection Using Generative AI For Android	311820104016	LALITH ADITHYAN. H	Dr.Paramesh J
5		311820104018	MOHAMED ASIQ ALI A	
6		311820104041	YUVAN.R.K	
7	Enhanced Student Performance Monitoring Mobile Application Using Flutter	311820104004	ABRAR MUSHARAF P	Mr.Vimalathithan S
8		311820104021	MOHAMED NABEEL. A	
9		311820104019	MOHAMED HANIFA HAARISH P	
10	Prediction Of Machine Failure Status	311820104003	ABISH K	Mrs.Kalaichelvi N
11		311820104007	ARSHATH AHMED M Y	
12		311820104014	JALEEL AHAMED K	
13	Virtual Reality Tourism	311820104026	MOHAMMED RIZWAN K.R	Mr.Vimalathithan S
14		311820104034	SATHISH. S	
15		311820104035	SHAIKH ZAITH. R	
16		311820104036	SULTHAN NIFAN. S	
17	Prediction Of Tesla And Microsoft Stock Price Prediction By Using Regression Model	311820104002	ABINAYA BHARATHI. M	Mrs.Kalaichelvi N
18		311820104009	AYSHA THASLIM. A	
19		311820104037	VASUMATHLA	
20		311820104039	VINITHA. M	
21	Keyboard For People With Physical Disabilities	311820104006	ARSATH KHAN. A	Dr.Paramesh J
22		311820104020	MOHAMED JASHIM. A	
23		311820104022	MOHAMED NOWFEES. A	
24	Face Expression Recognition Using CNN	311820104024	MOHAMMED HASEEB RAKSHAN. P	Mrs.Kalaichelvi N
25		311820104027	MOHAMED SIDDIQUE. C	
26		311820104701	SYED AHAMED RABIUDEEN N	
27	Accurate Positioning Surveillance Drone Simulation System	311820104011	ELANGO. V	Mr.Vimalathithan S
28		311820104033	SAKTHIVEL K.H	
29	E Commerce using node JS	311820104031	RASHID C.K	Mr.Pandarinathan V
30		311820104032	RIZWAN. M	
31		311820104301	ASHAR.A	
32	Ai Assisted Virtual Try - On	311820104008	ARUN. G	Mr.Mohideen AbdulKader M
33		311820104010	DILIPAN. DG	
34		311820104028	MUSHARAF MUBEEN. A	
35	Predicting The Hereditary Disorder In The Way Of Parallelism	311820104013	IMRAAN. H	Mr.Pandarinathan V
36		311820104015	KARAN R	
37		311820104030	NITHISH KUMAR S	
38	Medzine: Medicine Inventory Management System	311820104303	BHUVANESHWARAN.P	Mr.Pandarinathan V
39		311820104310	SURYA KANTH.S	
40	Symptosense - Disease Prediction System Using Machine Learning	311820104306	MANISH PRASAD.V	Mrs.Angayarkanni N
41		311820104308	MONISHWARAN ARUNACHALAM.B	
42		311820104309	SURYA.S	
43	Voice Visualizer - Object Detection With Voice	311820104001	ABDUL KADAR JAILANI J	Mr.Mohideen AbdulKader M
44		311820104017	MOHAMED ABDUL KALAM S	

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**BLOCKCHAIN POWERED  
SOCIAL MEDIA**

**A PROJECT REPORT**

*Submitted by*

Mohammed Thayyab A R	311820104307
Althaf J	311820104005
Mohammed Khaja Nawaz A	311820104025

*In partial fulfillment for the award of*

*the degree of*

**BACHELOR OF  
ENGINEERING**

in

**COMPUTER SCIENCE AND ENGINEERING**

**MOHAMED SATHAK A J COLLEGE OF  
ENGINEERING SIRUSERI IT PARK, OMR,  
CHENNAI-603 103**



*[Handwritten signature]*

**ANNA UNIVERSITY: CHENNAI 600 025  
MAY 2024**

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Chennai - 603103.**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "BLOCKCHAIN POWERED SOCIAL MEDIA" is the bonafide work of "MOHAMMED THAYYAB A R (311820104305), ALTHAF J(311820104005), MOHAMMED KHAJA NAWAZ A(311820104025)" who carried out the project work under my supervision.



**Mr.M.MOHIDEEN ABDULKADER**  
**HEAD OF THE DEPARTMENT**

Department of Computer Science and  
Engineering  
Mohammed Sathak A J College of  
Engineering.,  
Siruseri,Chennai-603103



**Mr.M.MOHIDEEN ABDULKADER**  
**SUPERVISOR**

Department of Computer Science and  
Engineering  
Mohammed Sathak A J College  
ofEngineering.,  
Siruseri,Chennai-603103

Project Viva-Voice held on 13-05-2024



**INTERNAL EXAMINER**



**PRINCIPAL**

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**EXTERNAL EXAMINER**

## ABSTRACT

Blockchain technology offers a promising solution to address the inherent challenges of traditional social media platforms, including centralized control, data privacy concerns, and lack of user empowerment. This paper proposes the design and implementation of a blockchain-based social media platform aimed at decentralizing control, enhancing user privacy, and incentivizing user participation.

The platform leverages blockchain's decentralized ledger to ensure transparency, immutability, and censorship resistance, empowering users with ownership and control over their digital identities and content. Smart contracts facilitate automated and trustless interactions, enabling users to monetize their contributions, participate in platform governance, and enforce transparent content moderation policies.

The platform integrates with existing social media ecosystems through interoperability standards and user-friendly interfaces, facilitating seamless migration and cross-platform interaction. Key considerations such as scalability, security, and regulatory compliance are addressed through innovative technical solutions and governance mechanisms. Performance evaluation metrics including transaction throughput, latency, and consensus mechanism efficiency demonstrate the platform's viability and effectiveness. Challenges such as scalability bottlenecks, user adoption barriers, and regulatory uncertainty are discussed, along with future enhancements and opportunities for further innovation.

The proposed blockchain-based social media platform represents a significant step towards a more decentralized, transparent, and user-centric digital communication landscape, offering tangible benefits to users, content creators, and platform operators alike.

**Keywords:** Blockchain, Social media, Decentralization, Cryptocurrency, Transparency, Immutable, Smart contracts, Tokenization, Peer-to-peer, Distributed ledger, Privacy, Security, Consensus mechanism, Trustless, Digital identity, Verification, Content monetization, User incentivization, Data ownership,

## CHAPTER 8

### CONCLUSION

In conclusion, the implementation of a blockchain-based social media platform holds great promise in revolutionizing the digital communication landscape by addressing the limitations of traditional social media platforms. By leveraging blockchain technology, the proposed platform offers decentralization, transparency, and user empowerment, enabling users to regain control over their data, identities, and interactions online. Through smart contracts and token incentives, users are incentivized to contribute valuable content, participate in platform governance, and engage in meaningful interactions within the community. Integration with existing social media platforms and interoperability standards ensures seamless user migration and cross-platform interaction, fostering network effects and community growth.

While the proposed platform presents significant advantages, challenges such as scalability, user adoption, and regulatory compliance must be addressed to realize its full potential. Continued research and development efforts focused on scalability solutions, user education, and regulatory engagement are essential to overcome these challenges and drive widespread adoption of blockchain-based social media platforms. Furthermore, ongoing innovation and collaboration within the blockchain community offer opportunities for further enhancements and advancements, including improved governance models, privacy-enhancing technologies, and interoperability standards.

Overall, the proposed blockchain-based social media platform represents a transformative step towards a more decentralized, transparent, and user-centric digital communication ecosystem. By empowering users, fostering trust, and promoting freedom of expression, blockchain technology has the potential to reshape the way we connect, communicate, and collaborate online, ushering in a new era of digital empowerment and inclusivity.



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# MALWARE DETECTION USING GENERATIVE AI FOR ANDROID

## A PROJECT REPORT

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in

**COMPUTER SCIENCE AND ENGINEERING**

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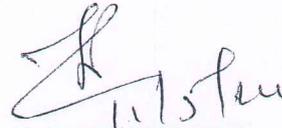
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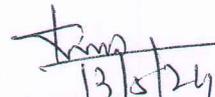


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## ABSTRACT

Due to the widespread use of Android devices, malware threats have significantly increased, requiring advanced detection techniques. This study proposes a new method for Android malware detection using Conditional Generative Adversarial Networks (CGAN) to improve detection systems' robustness and accuracy. Utilizing generative AI, we propose a framework to produce authentic Android application data, tackling the issue of insufficient malware samples and skewed datasets.

We extract significant features from Android apps in a format compatible with CGAN processing. The CGAN generates new, synthetic instances of application data that mimic the intricate patterns and actions of real malware. The training dataset for the CNN classifier is enhanced with synthetic samples, increasing its richness and diversity.

Our experiments yielded greater detection rates than traditional methods. When trained on the augmented dataset, the CNN demonstrates improved generalization abilities and, as a result, achieves higher precision and recall. Using CGAN for data augmentation in Android ecosystems is a promising solution against the continually shifting threat landscape.

GANs' ability to detect malware lies in their capability to distinguish intricate patterns within code structures and discern subtle differences between benign software and malicious entities. These systems can detect threats by identifying deviations from established patterns, even in unfamiliar terrain. Zero-day attacks represent the primary unidentified threat using current detection methods.

### MALWARE/ MALICIOUS SOFTWARE:

Any software intentionally designed to cause disruption to a computer, server, client, or computer network, leak private information, gain unauthorized access to information or systems, deprive access to information, or which unknowingly interferes with the user's computer security and privacy.



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## CHAPTER 9 CONCLUSION

In the realm of cybersecurity, where threats evolve rapidly and adversaries continuously seek new avenues for exploitation, the development of effective malware detection mechanisms is paramount. Throughout this project, the utilization of Generative Artificial Intelligence (AI) for Android malware detection has been explored and implemented with promising results. The journey commenced with a comprehensive understanding of Android malware and its intricate behaviors. Through meticulous research, we identified the pressing need for innovative detection approaches capable of adapting to the ever-changing landscape of malicious software targeting the Android ecosystem.

By leveraging Generative AI, we ventured into uncharted territory, tapping into its capacity to discern subtle patterns and anomalies within Android applications. Through the creation of a robust detection model, we endeavored to fortify the defenses of Android users against the perils of malware infiltration. Our experimentation and analysis unveiled encouraging outcomes, demonstrating the efficacy of Generative AI in identifying previously unseen malware variants. The model exhibited commendable adaptability, swiftly discerning malicious intent amidst the vast sea of benign applications, thus empowering users with enhanced security and peace of mind.

However, our journey is not without its limitations and avenues for future exploration. While the Generative AI approach showcased promise, refinement and optimization remain imperative for its seamless integration into real-world applications. Moreover, the perpetual arms race between defenders and adversaries underscores the need for continuous innovation and vigilance in the realm of cybersecurity. In conclusion, the endeavor to combat Android malware through Generative AI represents a significant stride towards bolstering the security posture of mobile devices. As we reflect on our accomplishments and chart the course ahead, let us remain steadfast in our commitment to safeguarding digital ecosystems and preserving the integrity of user experiences in an ever-evolving cyber landscape.



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# ENHANCED STUDENT PERFORMANCE MONITORING MOBILE APPLICATION USING FLUTTER

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## ABSTRACT

The development of an innovative mobile application tailored for enhancing student performance monitoring, leveraging the Flutter framework. The application provides a comprehensive solution for educators, students, and parents to efficiently track and manage academic progress.

The application's frontend is developed using Flutter, a versatile and cross-platform UI toolkit, ensuring consistent user experiences across different devices and platforms. Flutter's rich set of widgets and customizable components enable the creation of a visually appealing and intuitive user interface.

Through Flutter's hot reload feature, developers can quickly iterate on the application's design and functionality, speeding up the development process and improving time-to-market. Additionally, Flutter's reactive framework facilitates smooth animations and transitions, enhancing the overall user experience.

The Enhanced Student Performance Monitoring Mobile Application offers features such as real-time performance tracking, attendance management, assignment submission, and communication channels between educators, students, and parents. These features are seamlessly integrated into a user-friendly interface, providing stakeholders with easy access to relevant information and tools.



III

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## 18. CONCLUSION

In conclusion, the development of the Enhanced Student Performance Monitoring Mobile Application using Flutter represents a significant step forward in the realm of educational technology. Through our project, we have successfully addressed the need for a comprehensive and user-friendly platform to monitor and track students' academic progress effectively.

The application's implementation using Flutter has provided a versatile and cross-platform solution, ensuring accessibility across a wide range of devices and operating systems. By leveraging Flutter's rich set of features and intuitive development environment, we were able to streamline the development process and deliver a polished end product.

Through rigorous testing and quality assurance measures, we have ensured that the application meets high standards of reliability, performance, and security. User feedback and testing results have been positive, indicating that the application fulfills its intended purpose effectively.

Looking ahead, there are several avenues for future enhancement and expansion of the application. This includes incorporating additional features such as real-time notifications, personalized recommendations, and integration with learning management systems. Furthermore, ongoing updates and optimizations will be crucial to keeping the application relevant and responsive to the evolving needs of educators, students, and stakeholders.

In essence, the Enhanced Student Performance Monitoring Mobile Application represents a valuable tool for educators and administrators to monitor and support students' academic journey effectively. By fostering greater transparency, engagement, and collaboration, the application contributes to creating a more conducive learning environment and ultimately enhances student success. We are confident that our project will make a meaningful contribution to the field of educational technology and look forward to seeing its impact in practice.



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**PREDICTION OF MACHINE FAILURE STATUS USING  
MACHINE LEARNING TECHNIQUES**

**A PROJECT REPORT**

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## ABSTRACT

This abstract presents a study on predicting machine failure status using machine learning techniques. With the increasing complexity of industrial systems, early detection of machinery failures is crucial for maintaining operational efficiency and minimizing downtime.

In this research, various machine learning algorithms are employed to analyse historical sensor data and identify patterns indicative of impending failures. The proposed approach demonstrates significant potential in accurately predicting machine failures, thus enabling proactive maintenance strategies.

Experimental results showcase the effectiveness of the model in achieving high accuracy and precision in predicting failure conditions across diverse industrial settings. This work contributes to the field of predictive maintenance by harnessing the power of machine learning to enhance operational reliability and optimize maintenance schedules.

**Keywords:** Machine Failure, Machine Learning



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## CHAPTER 8

### CONCLUSION

#### 8.1 CONCLUSION:

The analytical process started from data cleaning and processing, missing value, exploratory analysis and finally model building and evaluation. The best accuracy on public test set is higher accuracy score is will be find out. This application can help to predict the machine failure prediction.

In conclusion, the application of machine learning techniques for predicting machine failure status holds significant promise in various industries, offering opportunities for proactive maintenance strategies, improved operational efficiency, and cost savings. Through the analysis of historical data, machine learning models can effectively identify patterns and indicators of impending failures, enabling timely intervention and minimizing downtime.

Overall, the adoption of machine learning for predicting machine failure status represents a significant step towards achieving predictive maintenance goals, fostering a proactive and data-driven approach to asset management and operational optimization in the era of smart manufacturing.

#### 8.2 FUTURE WORK

- Implemented this Machine failure Prediction using IOT system.
- Deployed to the Cloud.



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# Virtual Reality Tourism

A PROJECT REPORT

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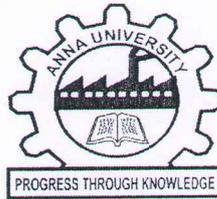
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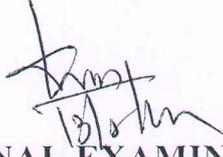
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## ABSTRACT

Our project on VR tourism of wonders aims to provide an immersive and interactive experience of visiting historical sites using cutting-edge technologies. By leveraging virtual reality, users can explore and learn about wonders from around the world, including their architecture, culture, and significance. The project will allow users to experience these sites in a way that is not possible through traditional tourism, with the added benefit of being able to interact with and learn from the environment. This project will be an innovative and engaging tool for both educational and recreational purposes, giving users a unique glimpse into the wonders of the world.

As technology continues to advance, VR tourism is likely to evolve, offering increasingly realistic and engaging experiences that blur the line between the virtual and physical worlds. It has the potential to create social connections and facilitate shared experiences. Users can engage with friends, family, or even strangers in virtual destinations, fostering a sense of community and shared exploration. This can be achieved by designing the model using Blender and building the environment and adding animation using Unity.

**Keywords:** VR Tourism, cutting edge technologies, wonders of world, recreation, engaging, social connections, community, blender, unity, exploration

IV



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careful choreography and synchronization to guide users' attention and convey narrative elements effectively.

### **Visual and Audio Design:**

- **Graphics Fidelity:** Achieving high-quality visuals in VR environments, including realistic lighting, textures, and effects, requires optimization techniques to balance visual fidelity with performance constraints.
- **Spatial Audio:** Implementing spatial audio techniques, such as binaural audio and dynamic sound propagation, enhances immersion and presence in VR experiences but requires careful audio design and integration to achieve convincing spatialization and realism.

### **6. CONCLUSION & FUTURE SCOPES:**

Virtual reality (VR) is a rapidly developing technology that has the potential to revolutionize the tourism industry. VR can be used to create immersive experiences that allow people to explore different destinations without ever leaving home. This can be a valuable tool for travelers who are looking for inspiration, planning their next trip, or simply want to experience a new place without the hassle of travel. VR has a number of potential benefits for the tourism industry. First, VR can help to increase awareness of tourist destinations. By allowing people to experience different locations without ever leaving home, VR can make it easier for people to decide where they want to travel. Second, VR can help to improve the planning process for travelers. By allowing people to explore



**PREDICTION OF TESLA & MICROSOFT STOCK  
PRICE PREDICTION BY USING REGRESSION**

**MODEL**

**A PROJECT REPORT**

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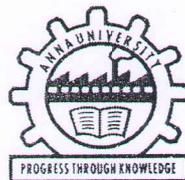
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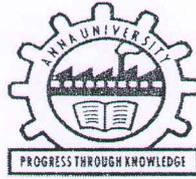
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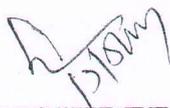
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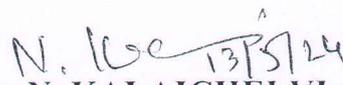
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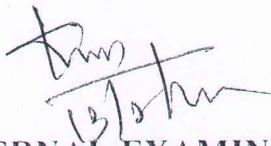
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## ABSTRACT

Stock price prediction has been a challenging yet crucial area of research in financial markets. Investors and traders often seek accurate and reliable methods to forecast future stock prices to make informed decisions. This study focuses on utilizing regression models to predict the stock prices of two prominent technology companies, Tesla and Microsoft. To ensure the accuracy of the predictions, the dataset is divided into training and testing sets. The training set is used to train the regression models, while the testing set is utilized to evaluate their performance and generalization capabilities. The dataset used in this research contains historical stock price data, financial indicators, and macroeconomic factors affecting the companies' performance.

The regression model is employed to establish relationships between the stock prices and the independent variables. The findings of this study indicate that regression models can provide valuable insights into the potential price trends of Tesla and Microsoft stocks. Although regression models can be effective for stock price prediction, it is essential to acknowledge that financial markets are influenced by numerous unpredictable factors.

Keywords: stock price prediction, regression model, Tesla, Microsoft, financial markets, accuracy, evaluation, investing, risk analysis.



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## CHAPTER 8

### CONCLUSION AND RECOMMENDATION

#### 8.1 CONCLUSION

To predict the Tesla share's closing price, this paper employed five different algorithms, including statistical and deep learning methods. It can be seen that the Random Forest prediction algorithm has the greatest forecast accuracy for the Tesla stock among machine learning algorithms. Because it's possible that changes in the share market don't often adhere to a recognizable pattern or a constant cycle. The existence and longevity of trends will differ based on the organizations and industries. Investment results will increase with an awareness of these cycles and trends. We should use an integrated algorithm technique like Random Forest, which has excellent anti-interference and anti-over-fitting characteristics, to assess highly volatile equities like Tesla. Deep learning models that include news stories about the economy and monetary factors like income statements, trade volume, etc. can be constructed for future work to produce potentially better outcomes.

The analytical process started from data cleaning and processing, missing value, exploratory analysis and finally model building and evaluation. The Best accuracy on public test set is higher accuracy score is will be find out. This application can help out to find the Tesla and Microsoft Stock Price.

#### 8.2 FUTURE WORK

Tesla and Microsoft Stock Price prediction to connect the AI Model

To automate this process by show the prediction result in web application or desktop application.

To optimize the work to implement in Artificial Intelligence Environment.



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# KEYBOARD FOR PEOPLE WITH PHYSICAL DISABILITIES

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## ABSTRACT

The virtual keyboard for people physical disabilities has been developed using real time machine vision based concepts. The main goal of this project is to create a robust virtual keyboard that aim to improve the life of disabled people who are unable to communicate. The report describes the development of a virtual keyboard which work by detecting eye gaze and eye blinking. The algorithm developed is unique to any currently published papers, which was a primary objective of the project. The system deals with using information obtained from the binary version of the images captured from camera to find the edges of the face, which narrows the area of where the eyes may exist. Once the face area is found the eyes are detected using a shape predictor, which will predict 68 landmark points on our face. From this 68 points we select the landmarks of eyes and calculate the ratio between horizontal and vertical length of eyes using this landmarks to determine whether the eyes are open or closed. The system also detect eye gaze as left, right to select keyboard portion and eye blinking to select the desired key from the virtual keyboard on the board. The goal of such application is to write without using the hands. Such applications are really important for people affected by quadriplegia who completely lost the control of their limbs.

Keywords- Virtual keyboard, Eye blink detector, Eye gaze detection, Keyboard for physically disabled.



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# CHAPTER 1

## INTRODUCTION

### 1.1 OVERVIEW OF THE PROJECT

The main idea behind this project is to develop a virtual keyboard that can be controlled by the user's eyes who cannot use their hands. The majority of software has been traditionally designed for people who use a standard keyboard, mouse and screen display. A person needs good hand control, vision, hand-eye coordination as well as cognitive abilities in order to access most standard and even some special needs software. This can be a critical barrier to access the technologies for many users with special needs. Some will need some form of special access to allow them to use some computer software.

The 2011 census estimated that the number of people with disabilities in India is close to 2.68 crore that is nearly 2.2% of the population, which is more than the entire population of Australia.

Many precious systems are being developed for people to make their life more secure and easy. But there was a need to develop such systems for the people who can't work spontaneously, who are only able to perform any involuntary action. Many disabled people have only the action that they can perform of their own free will is the blinking of their eyes.

There are so many thoughts become unexpressed, experiences un-enjoyed, and talents unexplored just due to the fact that millions of people with disabilities like Cerebral Palsy, Quadriplegia can't make a free and autonomous use of essential devices such as computers.

Therefore developing a gaze controlled keyboard is literally a key to open the doors of digital inclusion to people with physical disabilities while also designing it to be just as useful to people with Down Syndrome, Tremors, Parkinson's, Alzheimer's, and many other physical, motor and intellectual disabilities. The idea behind the virtual keyboard is to display the keys in a rectangle form like a keyboard and continuously light up the keys one by one at a

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# FACE EXPRESSION RECOGNITION USING CNN

A PROJECT REPORT

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**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**



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## ABSTRACT

Face emotion recognition (FER) is a crucial task in computer vision with widespread applications in human-computer interaction, affective computing, and psychology. This paper provides a comprehensive review of recent advancements in FER techniques, focusing on methodologies, challenges, and applications.

We begin by discussing the importance of FER in various domains and the evolution of techniques from traditional methods to deep learning-based approaches. Subsequently, we delve into the key components of FER systems, including face detection, feature extraction, and emotion classification.

Furthermore, we highlight the challenges associated with FER, such as occlusions, illumination variations, and cultural differences in facial expressions. We explore recent strategies to mitigate these challenges, including data augmentation, domain adaptation, and multimodal fusion.

Moreover, we survey real-world applications of FER across diverse domains, including human-computer interaction, healthcare, and marketing. We examine the impact of FER on improving user experience, emotion-aware systems, and personalized services.

In conclusion, we outline future research directions to address remaining challenges and exploit emerging opportunities in FER, such as multimodal fusion, cross-domain adaptation, and deep reinforcement learning. We anticipate that continued advancements in FER will lead to more robust and versatile systems with significant societal impact.



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## CHAPTER 5

### CONCLUSION AND RECOMMENDATION

#### Conclusion

In this case, when the model predicts incorrectly, the correct label is often the second most likely emotion.

The facial expression recognition system presented in this research work contributes a resilient face recognition model based on the mapping of behavioral characteristics with the physiological biometric characteristics. The physiological characteristics of the human face with relevance to various expressions such as happiness, sadness, fear, anger, surprise and disgust are associated with geometrical structures which restored as base matching template for the recognition system.

The behavioral aspect of this system relates the attitude behind different expressions as property base. The property bases are alienated as exposed and hidden category in genetic algorithmic genes. The gene training set evaluates the expressional uniqueness of individual faces and provide a resilient expressional recognition model in the field of biometric security.

The design of a novel asymmetric cryptosystem based on biometrics having features like hierarchical group security eliminates the use of passwords and smart cards as opposed to earlier cryptosystems. It requires a special hardware support like all other biometrics system. This research work promises a new direction of research in the field of asymmetric biometric cryptosystems which is highly desirable in order to get rid of passwords and smart cards completely. Experimental analysis and study show that the hierarchical security structures are effective in geometric shape identification for physiological traits.



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**ACCURATE POSITIONING SURVEILLANCE DRONE  
SIMULATION SYSTEM**

**A PROJECT REPORT**

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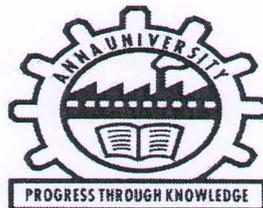
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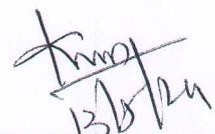
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## ABSTRACT

In the realm of surveillance, drones have emerged as a transformative force, enhancing data acquisition and monitoring capabilities across diverse sectors. Despite their widespread adoption, these unmanned aerial vehicles (UAVs) encounter significant challenges in data consistency and integration with Geographic Information Systems (GIS). Traditional methods leveraging GPS and camera-based technologies for location estimation are fraught with inaccuracies, especially in complex environments. Moreover, the lack of seamless integration with GIS hampers the effective use of collected data for spatial analysis and decision-making, compounded by prevalent errors in coordinate data due to signal interference and camera calibration issues.

This project introduces a novel Surveillance Drone Simulation System designed to elevate the precision and efficiency of surveillance operations. At its core, the system utilizes OpenCV for real-time object detection and extraction from high-resolution TIFF-based aerial imagery. The integration of QGIS enables the mapping of geographic information, correlating spatial data with object coordinates to generate intricate maps that depict object distribution and movement patterns. Gazebo, the chosen visualization tool, simulates the drone's movement within the surveillance area, offering an interactive and dynamic view of its flight path, which is crucial for optimizing surveillance coverage. Finally, the Robot Operating System (ROS) orchestrates the drone's control and flight, providing a robust and adaptable framework for the execution of sophisticated drone control algorithms, ensuring adept navigation and maneuverability in a variety of surveillance contexts.

This comprehensive system promises to address the current limitations of drone-based surveillance, paving the way for more accurate, integrated, and efficient operations.



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## CHAPTER 7

### CONCLUSION AND FUTURE WORK

The project has capitalized on the transformative potential of surveillance drones in various domains, enhancing data collection and monitoring capabilities. The project has identified the common sources of errors in coordinate data from GPS and camera-based systems, such as signal interference and multipath effects. This awareness is indicative of efforts to refine data accuracy, which is fundamental for the reliability of GIS applications.

Despite the challenge of inconsistent data, the project has made strides in harmonizing the integration of drone-collected data with GIS, which is crucial for accurate spatial analysis.

Overcoming technological limitations by acknowledging the inefficiencies of GPS and camera-based location estimation, particularly in challenging environments, the project has likely developed more robust methods to mitigate these issues.

The project has recognized the importance of integrating with GIS for better data utilization. This suggests that steps have been taken to ensure seamless data transfer, enabling effective spatial analysis, visualization, and decision-making.



# ECOMMERCE USING NODE JS

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## ABSTRACT

Electronic Commerce is process of doing business through computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products.

Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time. E-Commerce which was started in early 1990's has taken a great leap in the world of computers, but the fact that has hindered the growth of e-commerce is security. Security is the challenge facing e-commerce today & there is still a lot of advancement made in the field of security.

The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC.

For increasing the use of e-commerce in developing countries the B2B e-commerce is implemented for improving access to global markets for firms in developing countries. For a developing country advancement in the field of e-commerce is essential. The research strategy shows the importance of the e-commerce in developing countries for business applications.

Electronic commerce or ecommerce is a term for any type of business, or commercial transaction, that involves the transfer of information across the Internet. It covers a range of different types of businesses, from consumer based retail sites, through auction or music sites, to business exchanges trading goods and services between corporations. It is currently one of the most important aspects of the Internet to emerge..



## 12 CONCLUSION

In conclusion, the development of the node js ecommerce using represents a significant step forward in the realm of educational technology. Through our project, we have successfully addressed the need for a comprehensive and user-friendly platform to monitor and track students' academic progress effectively.

The application's implementation using has provided a versatile and cross-platform solution, ensuring accessibility across a wide range of devices and operating systems. By leveraging rich set of features and intuitive development environment, we were able to streamline the development process and deliver a polished end product.

Through rigorous testing and quality assurance measures, we have ensured that the application meets high standards of reliability, performance, and security. User feedback and testing results have been positive, indicating that the application fulfills its intended purpose effectively.

Looking ahead, there are several avenues for future enhancement and expansion of the application. This includes incorporating additional features such as real-time notifications, personalized recommendations, and integration with learning management systems. Furthermore, ongoing updates and optimizations will be crucial to keeping the application relevant and responsive to the evolving needs of educators, students, and stakeholders.

In essence, the Enhanced Student Performance Monitoring Mobile Application represents a valuable tool for educators and administrators to monitor and support students' academic journey effectively. By fostering greater transparency, engagement, and collaboration, the application contributes to creating a more conducive learning environment and ultimately enhances student success. We are confident that our project will make a meaningful contribution to the field of educational technology and look forward to seeing its impact in practice.



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**AI ASSISTED VIRTUAL TRY - ON**  
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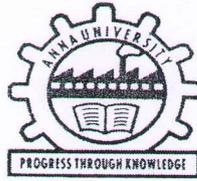
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We express our profound thanks to **ALHAJ JANAB S.M. YOUSUF, Chairman**, and **Mr. MOHAMED SATHAK, Director**, of Mohammed Sathak

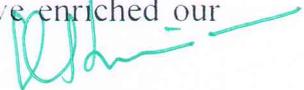
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Our sincere gratitude is directed towards our esteemed **Principal, Dr. K. S. SRINIVASAN**, for granting us the opportunity to carry out our project within the nurturing environment of our college.

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We would also like to acknowledge the collective efforts of **All Faculty Members and Staff Members** of the Department of Computer Science and Engineering. Their support has been instrumental throughout our academic journey. Lastly, we are thankful to our friends, whose camaraderie and assistance have enriched our project experience.



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## ABSTRACT

The AI-Assisted Virtual Try-On System epitomizes the convergence of artificial intelligence and augmented reality to redefine the consumer experience in the fashion and retail sectors. By integrating sophisticated computer vision and deep learning technologies, the system meticulously captures user body measurements and posture through a simple webcam interface, mapping these dimensions onto a responsive digital avatar. This innovative approach allows users to virtually try on clothing, accurately visualizing how garments will look and fit without the need for physical trial, thereby addressing the prevalent issue of high return rates in online shopping. The system not only supports realistic fabric simulations that enhance the visual authenticity of garments but also includes a smart recommendation engine that tailors clothing suggestions based on user preferences and shopping history. This report thoroughly examines the system's technical framework, detailing the algorithms used, the design and implementation of the user interface, and the effectiveness of the system based on initial user feedback. Moreover, it discusses potential future enhancements such as increased personalization options and expansion into other retail areas, positioning the AI-Assisted Virtual Try-On System as a pioneering tool for the future of digital retailing.



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## CHAPTER 10 CONCLUSION AND FUTURE WORK

### 10.1 CONCLUSION :

In conclusion, an AI-assisted virtual try-on system represents a transformative innovation in the fashion industry, offering users a dynamic and immersive way to explore, customize, and experience clothing items in a virtual environment. By integrating advanced technologies such as computer vision, machine learning, and augmented reality, these systems empower users to virtually try on garments with unprecedented realism and convenience, bridging the gap between online and offline shopping experiences. From accurate body pose estimation to personalized outfit recommendations, each component of the system works synergistically to enhance user engagement, satisfaction, and ultimately drive business growth.

### 10.2 FUTURE WORK :

Future work in the realm of AI-assisted virtual try-on systems holds vast potential for further advancements and enhancements to enrich the user experience and expand the capabilities of these platforms. One avenue of exploration involves the integration of more sophisticated body pose estimation algorithms and garment simulation techniques to achieve even greater accuracy and realism in virtual try-on experiences. Additionally, leveraging generative adversarial networks (GANs) and style transfer algorithms could enable users to seamlessly visualize how garments would look in different fabrics, patterns, or styles, further enhancing customization options.

Another area ripe for exploration is the integration of virtual fitting rooms with augmented reality (AR) technologies, allowing users to overlay virtual garments onto their physical bodies in real-world environments, providing



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**PREDICTING THE HEREDITARY DISORDER IN  
THE WAY OF PARALLELISM**

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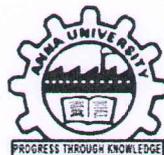
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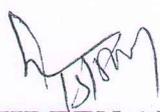
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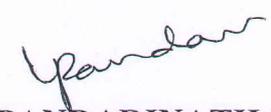
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## ABSTRACT

Machine Learning is a limb of Artificial Intelligence and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy and allows software applications to become more accurate at predicting the outcomes without being explicitly programmed. Machine Learning aims to teach a machine how to perform a specific task and identifying patterns with precise returns. In this study, we propose a strategy for forecasting biological anomalies. Because we are aware that each of our biological parents contributes to half of the inherited features in us, we concentrated on estimating inherited abnormalities. It can be difficult to quantify anything accurately, like a biological trait. As a result, we currently possess a plethora of knowledge regarding genetic diseases, and technological development is quickening. Our proposed method employs a classification algorithm to inefficiently evaluate chromosomal abnormalities. It is possible to investigate behavioral patterns, neurological anomalies, visual or auditory impairment, growth retardation, birth defects, problems with the skin and hair, chronic illnesses, developmental disorders, and many other things. We waste a great deal of time and effort diagnosing the illness in the next vibe, which is very expensive. By identifying people who have specific mutations before symptoms occur, a hereditary simulation that gathers data for changes that cause common illnesses could be used to identify people at risk for chronic diseases. Chromosome abnormalities can result from a number of things, such as mutations that alter the nucleotide sequence. A successful outcome with our approach required a Random Forest algorithm to anticipate which autoimmune mutations are likely to emerge in the upcoming years.



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**CHAPTER - 10**  
**10. CONCLUSION AND FUTURE ENHANCEMENT**

**CONCLUSION:**

The precision of our suggested model increases for chromosomal abnormalities. The decision's knowledge extraction and, consequently, decisions, will be more accurate the more data that are accessible for lifting the decision. Decision tree algorithms, which are used to make choices and are straightforward to use data mining techniques with high predictive accuracy, are one potential approach to abstracting knowledge from historical data. To affect our model, we suggest a uniform catalytic with chromosome symptoms and a random forest. Which data have the highest accuracy. That is determined by the proposed classification technique. Our algorithm quickly eliminates unnecessary information while enhancing the findings' readability and precision. We are also excellent senior communication tools, and this model consistently forecasts sound judgement.

**FUTURE ENHANCEMENT:**

Our proposed model improves accuracy in chromosomal abnormalities. The more data available for lifting the decision, the more accurate its knowledge extraction, and thus its decisions, will be. A possible idea is to abstract knowledge from historic information into decision tree algorithms, which are used to make decisions and are simple to use data mining techniques with high predictive accuracy. We propose a Chromosome symptom homogeneous catalytic with a random forest to influence our model. The proposed classification method determines which data has the highest accuracy. Our algorithm easily removes redundant parts and improves the readability and accuracy of the results. We are also very useful as executive communication tools, and this model predicts the highest accuracy and good decision-making. Complex issues are less comprehensive in prediction in our process, but this exception will be resolved in the future.



# MEDZINE: MEDICINE INVENTORY MANAGEMENT SYSTEM

A PROJECT REPORT

*Submitted by*

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SURYAKANTH S            311820104310

*In partial fulfillment for the award of the degree  
of*

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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ANNA UNIVERSITY: CHENNAI 600 025

MAY 2024



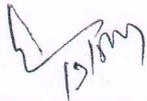
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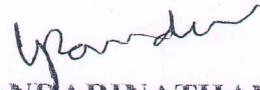
BONAFIDE CERTIFICATE

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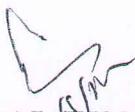
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Project Viva-Voice held on 13/5/2024



INTERNAL EXAMINER



EXTERNAL EXAMINER



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## ABSTRACT

In today's rapidly evolving healthcare landscape, efficient management of medicine inventory is paramount to ensuring the smooth operation of healthcare facilities. The complexity of managing diverse medicine supplies, equipment, and pharmaceuticals necessitates the implementation of robust inventory management systems. This abstract introduces a comprehensive medicine inventory management system designed to streamline the procurement, storage, distribution, and tracking of medicine inventory within healthcare institutions.

The proposed system leverages advanced technology, including cloud-based storage and real-time data tracking, to enhance the efficiency and accuracy of inventory management processes. Key features include inventory cataloging, automated reordering, expiration date tracking, and customizable reporting functionalities. Additionally, the system incorporates user-friendly interfaces tailored to the unique needs of healthcare professionals, enabling seamless integration into existing workflows.

By optimizing inventory control and reducing the risk of stockouts, overstocking, and expiration of medicine supplies, the proposed system aims to improve patient care outcomes, minimize operational costs, and enhance overall organizational efficiency within healthcare settings. Moreover, the system's scalability and adaptability make it suitable for implementation across a range of healthcare facilities, from small clinics to large hospitals.

In conclusion, the development and implementation of a robust medicine inventory management system represent a significant step towards addressing the challenges associated with inventory control in healthcare. By harnessing the power of technology to automate and streamline inventory management processes, healthcare institutions can optimize resource utilization, improve patient care delivery, and ultimately contribute to better healthcare outcomes for all.



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## CHAPTER 7

### CONCLUSION AND FUTURE WORK

#### 7.1 FEATURE EXPANSION:

**Advanced Reporting and Analytics:** The system offers advanced reporting and analytics, including customizable reports for inventory turnover, data visualization through interactive charts and dashboards, and predictive analytics using machine learning models to forecast future demand and optimize inventory levels.

**Supplier Management and Inventory Tracking and Traceability:** The supplier portal streamlines supplier management by allowing them to view orders, invoices, and product catalogs. It also tracks supplier performance metrics like delivery lead times and product quality. Inventory tracking is enabled by batch or lot numbers, facilitating traceability and recall management. Additionally, expiration date tracking alerts users about upcoming expiration dates, reducing waste and ensuring product freshness.

#### **Mobile Accessibility:**

**Mobile App:** Develop a mobile application for iOS and Android devices, allowing users to access inventory data, place orders, and perform inventory tasks on the go.

**Barcode Scanning:** Integrate barcode scanning functionality into the mobile app to streamline inventory management tasks such as receiving, picking, and stock-taking.

#### **Workflow Automation and Integration with External Systems:**

workflows for inventory-related processes like receiving, picking, packing, and shipping, with automated notifications and task assignments. Integration with ERP systems synchronizes inventory data, financial transactions, and customer information across business functions, while e-commerce platforms enable real-time inventory updates, product listing management, and online order fulfillment.



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# RESTORE SIGHT FOR BLINDNESS USING VISION TRANSFORMER

A PROJECT REPORT

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VINITH D	311820104038
YOGARAJ S	311820104040

In partial for the award fulfillment of the degree

of

**BACHELOR OF ENGINEERING**

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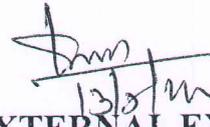
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Project Viva-Voice held on 13 / 05 / 2024.



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## ABSTRACT

Visual implants are intended to produce an artificial vision leading to some levels of functional vision restoration. It uses 60 microelectrodes implanted in the retina and can improve the quality of life of visually impaired people by making them experience light even if they were in the dark for many years. Due to the limited number of microelectrodes of existing visual system stimulator, the artificial vision they permit has very low resolution. Many researchers have worked on improving the artificial vision created with low resolution implants by using image processing and machine vision algorithms. Users express dissatisfaction with the Retinal Prosthesis System due to the low resolution of phosphene images, visual clarity and improve overall user satisfaction. This project proposes a simulation of the artificial vision in which the information synthesized by the system to the visually impaired user using a visual implants generated low resolution phosphene image. By employing Vision Transformer (ViT), the method extracts valuable information about individuals surrounding the visually impaired user, such as their count, familiarity, gender, estimated ages, and approximate distances. This data, derived from camera frames on the user's glasses, is utilized to generate signals fed into a visual stimulator, presenting a promising approach to enrich the visual experience for individuals with visual impairments. For each feature, an appropriate algorithm is selected based on its accuracy and time complexity to enable affordable real-time implementations in an autonomous portable system. The proposed system conveys important information about the people around a visually impaired person through audio and to make that person more comfortable to communicate with other people. Thus, this project can be considered for some next generation visual implant systems.



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## CHAPTER 8

### CONCLUSION

#### 8.1. OVERALL REPORT

In conclusion, the project aims to revolutionize the artificial vision experience for visually impaired individuals by integrating advanced technologies and innovative approaches. Through the implementation of Vision Transformer technology, real-time image processing algorithms, and information extraction techniques, the project endeavors to enhance accessibility, promote independence, and improve the overall quality of life for visually impaired users. By addressing key challenges such as limited access to information, navigation barriers, social interaction limitations, and educational and employment obstacles, the project seeks to empower visually impaired individuals to lead more fulfilling and independent lives. The integration of audio output with text-to-speech conversion ensures accessible feedback, while the validation with a simulated prosthetic vision and the feasibility analysis for everyday use further solidify the project's potential impact. This project not only aims to improve the daily lives of visually impaired individuals by providing a heightened artificial vision experience but also contributes to the broader field of artificial vision technologies.

#### 8.2. FUTURE SCOPE

In the future, the project envisions significant advancements to enhance the artificial vision system for visually impaired individuals. The development of

# VOICE VISUALIZER - OBJECT DETECTION WITH VOICE

## A PROJECT REPORT

*Submitted by*

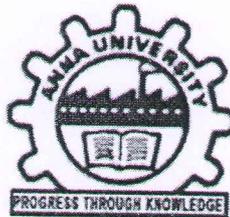
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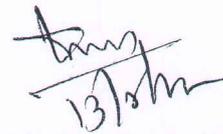
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## ABSTRACT

This project implements real-time object detection using the YOLOv4-tiny model with OpenCV in Python. The system captures video frames from a webcam and processes them using a pre-trained YOLOv4-tiny model to detect objects within the frames. It utilizes a constant focal length and known object width to estimate the distance of the detected objects from the camera.

Detected objects along with their estimated distances are displayed on the video feed. Additionally, the system employs text-to-speech functionality to audibly announce the class names and distances of the detected objects in real-time. This project provides a practical demonstration of object detection and distance estimation for applications such as surveillance, robotics, and assistive technologies. This project aims to address the challenges faced by visually impaired individuals by revolutionizing artificial vision through the integration of a Vision Transformer-based approach.

Current visual implant systems, such as the Retinal Prosthesis System, often encounter user dissatisfaction due to low-resolution images. By leveraging the Vision Transformer, valuable information from the user's surroundings can be extracted, including recognizing people, interpreting facial expressions, and identifying surrounding objects and approximate distances.



**PRINCIPAL**

## CHAPTER 8

### CONCLUSION

In this project we used image recognition, voice generation modules for the development of the project. As of now accuracy is good but in case if we want to increase the accuracy we have to train the model with more object/images in the dataset. This project is a small experiment which is useful for blind persons, can be able to find the objects which are surrounded by them, and they are in a position of taking care of themselves when they are outside. The ability of the blind person to stand alone and carry out tasks independently makes this blind assistance device useful for object detection by voice warnings. The device's camera serves as the blind person's virtual eye, capturing every detail of their environment. The voice alerts keep the person informed about the surroundings so that accidents are decreased. Reduced rely on other parties. There are so many people present in the world who are visually impaired and illiterate from different parts of the world .Some of them do not understand other languages except their local language in their local accent . so, one of the future scope for this project is to develop the idea in which voice alerts in such a way that they can use their own local language.

### FUTURE SCOPE

**Assistive Technology for Visually Impaired:** Object detection with voice feedback can greatly enhance the independence and mobility of visually



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# SYMPTOSENSE - DISEASE PREDICTION SYSTEM USING MACHINE LEARNING

A PROJECT REPORT

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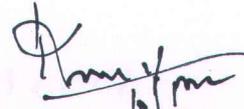
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Submitted for the project viva voice held on 13.08.24



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



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## ABSTRACT

Advancements in technology have indeed transformed the landscape of healthcare, catalyzing a paradigm shift in how we approach diagnosis and treatment. This project represents a significant stride in this direction, aiming to develop a sophisticated diagnostic model capable of identifying various diseases based on their symptoms. Leveraging the power of data mining techniques, particularly classification, this system has revolutionized the way we analyze and interpret medical data.

The foundation of this project lies in the meticulous gathering and refinement of vast datasets containing detailed information about patient diseases. Through careful curation and classification of this data, we have constructed a robust framework for training an intelligent diagnostic agent. At the heart of this system lies the Naive Bayes Algorithm, a powerful tool for classification that calculates the probabilities of different diseases based on the symptoms presented by the patient.

The process is straightforward yet immensely effective: as a patient inputs their symptoms into the system, the Naive Bayes Classifier swiftly analyzes this information and provides probabilities for various diseases. This information empowers patients to make informed decisions about their health, allowing them to contact a doctor promptly for further evaluation and treatment.

This project blends tech and medical expertise to prioritize prevention. Using data and algorithms, we diagnose diseases accurately, empowering individuals proactively. In a world with growing healthcare demands, initiatives like this offer hope for early detection and prevention. As we refine this model, we move towards predictive healthcare, enhancing quality of life.

### 13 CONCLUSION

Our proposed Disease Prediction System is set to transform healthcare outcomes, offering a substantial improvement in output results. With an unprecedented accuracy rate of nearly 100% on our dataset, surpassing existing systems, our system promises advanced support in assessing one's health status through a simple personal survey. The primary objective of this project is to predict diseases based on symptoms. By taking user symptoms as input and generating disease predictions as output, our system streamlines the diagnostic process, eliminating the need for patients to wait for doctor appointments, thereby saving both time and money.

Furthermore, our system goes beyond mere prediction. Once the anticipated disease is identified, it facilitates access to specialized doctors online, ensuring timely consultations and personalized treatment plans. This not only enhances patient convenience but also accelerates the initiation of necessary medical interventions, potentially saving lives.

Moreover, our proposed system serves as a comprehensive decision support system, providing valuable assistance to physicians in diagnosing illnesses accurately. By leveraging cutting-edge technology, our system integrates data mining techniques and machine learning algorithms to analyze vast amounts of medical data, enabling clinicians to make informed decisions quickly and effectively.

With its potential to enhance early detection and prevention, our Disease Prediction System stands as a significant advancement in the field of healthcare technology. By empowering individuals to take proactive measures towards their health and facilitating timely interventions, our system holds the promise of better health outcomes for all.



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**COURSE OBJECTIVES:****To train the students**

- For gaining domain knowledge, and technical skills to solve potential business / research problems
- Gather requirements and Design suitable software solutions and evaluate alternatives
- To work in small teams and understand the processes and practices in the 'industry.
- Implement, Test and deploy solutions for target platforms
- Preparing project reports and presentation

The students shall individually / or as group work on business/research domains and related problems approved by the Department / organization that offered the internship / project.

The student can select any topic which is relevant to his/her specialization of the programme. The student should continue the work on the selected topic as per the formulated methodology. At the end of the semester, after completing the work to the satisfaction of the supervisor and review committee, a detailed report which contains clear definition of the identified problem, detailed literature review related to the area of work and methodology for carrying out the work, results and discussion, conclusion and references should be prepared as per the format prescribed by the University and submitted to the Head of the department. The students will be evaluated based on the report and viva-voce examination by a panel of examiners as per the Regulations.

**TOTAL: 300 PERIODS****COURSE OUTCOMES:**

**At the end of the project, the student will be able to**

- CO1: Gain Domain knowledge and technical skill set required for solving industry / research problems
- CO2: Provide solution architecture, module level designs, algorithms
- CO3: Implement, test and deploy the solution for the target platform
- CO4: Prepare detailed technical report, demonstrate and present the work

PROGRESS THROUGH KNOWLEDGE



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**OBJECTIVES:**

- To understand the basic concepts of mobile computing.
- To learn the basics of mobile telecommunication system .
- To be familiar with the network layer protocols and Ad-Hoc networks.
- To know the basis of transport and application layer protocols.
- To gain knowledge about different mobile platforms and application development.

**UNIT I INTRODUCTION**

9

Introduction to Mobile Computing – Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing – Spread spectrum -MAC Protocols – SDMA- TDMA- FDMA- CDMA

**UNIT II MOBILE TELECOMMUNICATION SYSTEM**

9

Introduction to Cellular Systems - GSM – Services & Architecture – Protocols – Connection Establishment – Frequency Allocation – Routing – Mobility Management – Security – GPRS- UMTS – Architecture – Handover - Security

**UNIT III MOBILE NETWORK LAYER**

9

Mobile IP – DHCP – AdHoc– Proactive protocol-DSDV, Reactive Routing Protocols – DSR, AODV , Hybrid routing –ZRP, Multicast Routing- ODMRP, Vehicular Ad Hoc networks ( VANET) – MANET Vs VANET – Security.

**UNIT IV MOBILE TRANSPORT AND APPLICATION LAYER**

9

Mobile TCP– WAP – Architecture – WDP – WTLS – WTP –WSP – WAE – WTA Architecture – WML

**UNIT V MOBILE PLATFORMS AND APPLICATIONS**

9

Mobile Device Operating Systems – Special Constraints & Requirements – Commercial Mobile Operating Systems – Software Development Kit: iOS, Android, BlackBerry, Windows Phone – MCommerce – Structure – Pros & Cons – Mobile Payment System – Security Issues

**TOTAL 45 PERIODS****OUTCOMES:**

**At the end of the course, the students should be able to:**

- Explain the basics of mobile telecommunication systems
- Illustrate the generations of telecommunication systems in wireless networks
- Determine the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network
- Explain the functionality of Transport and Application layers
- Develop a mobile application using android/blackberry/ios/Windows SDK

**TEXT BOOKS:**

1. Jochen Schiller, "Mobile Communications", PHI, Second Edition, 2003.
2. Prasant Kumar Pattnaik, Rajib Mall, "Fundamentals of Mobile Computing", PHI Learning Pvt.Ltd, New Delhi – 2012

**REFERENCES**

1. Dharma Prakash Agarwal, Qing and An Zeng, "Introduction to Wireless and Mobile systems", Thomson Asia Pvt Ltd, 2005.
2. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, "Principles of Mobile Computing", Springer, 2003.
3. William.C.Y.Lee, "Mobile Cellular Telecommunications-Analog and Digital Systems", Second Edition, TataMcGraw Hill Edition ,2006.
4. C.K.Toh, "AdHoc Mobile Wireless Networks", First Edition, Pearson Education, 2002.
5. Android Developers : <http://developer.android.com/index.html>
6. Apple Developer : <https://developer.apple.com/>
7. Windows Phone DevCenter : <http://developer.windowsphone.com>
8. BlackBerry Developer : <http://developer.blackberry.com>

  
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**OBJECTIVES:**

- To learn the foundations of Human Computer Interaction.
- To become familiar with the design technologies for individuals and persons with disabilities.
- To be aware of mobile HCI.
- To learn the guidelines for user interface.

**UNIT I FOUNDATIONS OF HCI**

**The Human:** I/O channels – Memory – Reasoning and problem solving; **The Computer:** Devices – Memory – processing and networks; **Interaction:** Models – frameworks – Ergonomics – styles – elements – interactivity- Paradigms. - **Case Studies** 9

**UNIT II DESIGN & SOFTWARE PROCESS**

**Interactive Design:** Basics – process – scenarios – navigation – screen design – Iteration and prototyping. **HCI in software process:** Software life cycle – usability engineering – Prototyping in practice – design rationale. **Design rules:** principles, standards, guidelines, rules. **Evaluation Techniques – Universal Design** 9

**UNIT III MODELS AND THEORIES**

**HCI Models:** Cognitive models: Socio-Organizational issues and stakeholder requirements – Communication and collaboration models-**Hypertext, Multimedia and WWW.** 9

**UNIT IV MOBILE HCI**

**Mobile Ecosystem:** Platforms, Application frameworks- **Types of Mobile Applications:** Widgets, Applications, Games- Mobile Information Architecture, Mobile 2.0, **Mobile Design:** Elements of Mobile Design, Tools. - **Case Studies** 9

**UNIT V WEB INTERFACE DESIGN**

**Designing Web Interfaces – Drag & Drop, Direct Selection, Contextual Tools, Overlays, Inlays and Virtual Pages, Process Flow - Case Studies** 9

**TOTAL :45 PERIODS****OUTCOMES:**

Upon completion of the course, the students should be able to:

- Design effective dialog for HCI
- Design effective HCI for individuals and persons with disabilities.
- Assess the importance of user feedback.
- Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Web sites.
- Develop meaningful user interface.

**TEXT BOOKS:**

1. Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale, "Human Computer Interaction", 3rd Edition, Pearson Education, 2004 (UNIT I, II & III)
2. Brian Fling, "Mobile Design and Development", First Edition, O'Reilly Media Inc., 2009 (UNIT – IV)
3. Bill Scott and Theresa Neil, "Designing Web Interfaces", First Edition, O'Reilly, 2009. (UNIT-V)

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**OBJECTIVES:**

- To understand Cryptography Theories, Algorithms and Systems.
- To understand necessary Approaches and Techniques to build protection mechanisms in order to secure computer networks.

**UNIT I INTRODUCTION**

9

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security – Security attacks, services and mechanisms – OSI security architecture – Classical encryption techniques: substitution techniques, transposition techniques, steganography- Foundations of modern cryptography: perfect security – information theory – product cryptosystem – cryptanalysis.

**UNIT II SYMMETRIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF SYMMETRIC KEY CRYPTOGRAPHY: Algebraic structures - Modular arithmetic-Euclid's algorithm- Congruence and matrices - Groups, Rings, Fields- Finite fields- SYMMETRIC KEY CIPHERS: SDES – Block cipher Principles of DES – Strength of DES – Differential and linear cryptanalysis - Block cipher design principles – Block cipher mode of operation – Evaluation criteria for AES – Advanced Encryption Standard - RC4 –

Key distribution.

**UNIT III PUBLIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF ASYMMETRIC KEY CRYPTOGRAPHY: Primes – Primality Testing – Factorization – Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem – Exponentiation and logarithm - ASYMMETRIC KEY CIPHERS: RSA cryptosystem – Key distribution – Key management – Diffie Hellman key exchange - ElGamal cryptosystem – Elliptic curve arithmetic-Elliptic curve cryptography.

**UNIT IV MESSAGE AUTHENTICATION AND INTEGRITY**

9

Authentication requirement – Authentication function – MAC – Hash function – Security of hash function and MAC – SHA – Digital signature and authentication protocols – DSS- Entity Authentication: Biometrics, Passwords, Challenge Response protocols- Authentication applications - Kerberos, X.509

**UNIT V SECURITY PRACTICE AND SYSTEM SECURITY**

9

Electronic Mail security – PGP, S/MIME – IP security – Web Security - SYSTEM SECURITY: Intruders – Malicious software – viruses – Firewalls.

**TOTAL 45 PERIODS**

**OUTCOMES:**

At the end of the course, the student should be able to:

- Understand the fundamentals of networks security, security architecture, threats and vulnerabilities
- Apply the different cryptographic operations of symmetric cryptographic algorithms
- Apply the different cryptographic operations of public key cryptography
- Apply the various Authentication schemes to simulate different applications.
- Understand various Security practices and System security standards

**TEXT BOOK:**

1. William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.

**REFERENCES:**

1. C K Shyamala, N Harini and Dr. T R Padmanabhan: Cryptography and Network Security, Wiley India Pvt.Ltd
2. Behrouz A. Foruzan, Cryptography and Network Security, Tata McGraw Hill 2007.
3. Charlie Kaufman, Radia Perlman, and Mike Speciner, Network Security: PRIVATE Communication in a PUBLIC World, Prentice Hall, ISBN 0-13-046019-2



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**OBJECTIVES:**

- To understand the various characteristics of Intelligent agents
- To learn the different search strategies in AI
- To learn to represent knowledge in solving AI problems
- To understand the different ways of designing software agents
- To know about the various applications of AI.

**UNIT I INTRODUCTION**

9

Introduction–Definition - Future of Artificial Intelligence – Characteristics of Intelligent Agents– Typical Intelligent Agents – Problem Solving Approach to Typical AI problems.

**UNIT II PROBLEM SOLVING METHODS**

9

Problem solving Methods - Search Strategies- Uninformed - Informed - Heuristics - Local Search Algorithms and Optimization Problems - Searching with Partial Observations - Constraint Satisfaction Problems – Constraint Propagation - Backtracking Search - Game Playing - Optimal Decisions in Games – Alpha - Beta Pruning - Stochastic Games

**UNIT III KNOWLEDGE REPRESENTATION**

9

First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining-Backward Chaining – Resolution – Knowledge Representation - Ontological Engineering-Categories and Objects – Events - Mental Events and Mental Objects - Reasoning Systems for Categories - Reasoning with Default Information

**UNIT IV SOFTWARE AGENTS**

9

Architecture for Intelligent Agents – Agent communication – Negotiation and Bargaining – Argumentation among Agents – Trust and Reputation in Multi-agent systems.

**UNIT V APPLICATIONS**

9

AI applications – Language Models – Information Retrieval- Information Extraction – Natural Language Processing - Machine Translation – Speech Recognition – Robot – Hardware – Perception – Planning – Moving

**TOTAL :45 PERIODS****OUTCOMES:**

Upon completion of the course, the students will be able to:

- Use appropriate search algorithms for any AI problem
- Represent a problem using first order and predicate logic
- Provide the apt agent strategy to solve a given problem
- Design software agents to solve a problem
- Design applications for NLP that use Artificial Intelligence.

**TEXT BOOKS:**

- 1 S. Russell and P. Norvig, "Artificial Intelligence: A Modern Approach", Prentice Hall, Third Edition, 2009.
- 2 I. Bratko, "Prolog: Programming for Artificial Intelligence", Fourth edition, Addison-Wesley Educational Publishers Inc., 2011.

**REFERENCES:**

1. M. Tim Jones, "Artificial Intelligence: A Systems Approach(Computer Science)", Jones and Bartlett Publishers, Inc.; First Edition, 2008
2. Nils J. Nilsson, "The Quest for Artificial Intelligence", Cambridge University Press, 2009.
3. William F. Clocksin and Christopher S. Mellish, "Programming in Prolog: Using the ISO Standard", Fifth Edition, Springer, 2003.
4. Gerhard Weiss, "Multi Agent Systems", Second Edition, MIT Press, 2013.
5. David L. Poole and Alan K. Mackworth, "Artificial Intelligence: Foundations of Computational Agents", Cambridge University Press, 2010.


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**OBJECTIVES:**

- To understand the concept of cloud computing.
- To appreciate the evolution of cloud from the existing technologies.
- To have knowledge on the various issues in cloud computing.
- To be familiar with the lead players in cloud.
- To appreciate the emergence of cloud as the next generation computing paradigm.

**UNIT I INTRODUCTION**

9

Introduction to Cloud Computing – Definition of Cloud – Evolution of Cloud Computing – Underlying Principles of Parallel and Distributed Computing – Cloud Characteristics – Elasticity in Cloud – On-demand Provisioning.

**UNIT II CLOUD ENABLING TECHNOLOGIES**

10

Service Oriented Architecture – REST and Systems of Systems – Web Services – Publish-Subscribe Model – Basics of Virtualization – Types of Virtualization – Implementation Levels of Virtualization – Virtualization Structures – Tools and Mechanisms – Virtualization of CPU – Memory – I/O Devices – Virtualization Support and Disaster Recovery.

**UNIT III CLOUD ARCHITECTURE, SERVICES AND STORAGE**

8

Layered Cloud Architecture Design – NIST Cloud Computing Reference Architecture – Public, Private and Hybrid Clouds - IaaS – PaaS – SaaS – Architectural Design Challenges – Cloud Storage – Storage-as-a-Service – Advantages of Cloud Storage – Cloud Storage Providers – S3.

**UNIT IV RESOURCE MANAGEMENT AND SECURITY IN CLOUD**

10

Inter Cloud Resource Management – Resource Provisioning and Resource Provisioning Methods – Global Exchange of Cloud Resources – Security Overview – Cloud Security Challenges – Software-as-a-Service Security – Security Governance – Virtual Machine Security – IAM – Security Standards.

**UNIT V CLOUD TECHNOLOGIES AND ADVANCEMENTS**

8

Hadoop – MapReduce – Virtual Box – Google App Engine – Programming Environment for Google App Engine – Open Stack – Federation in the Cloud – Four Levels of Federation – Federated Services and Applications – Future of Federation.

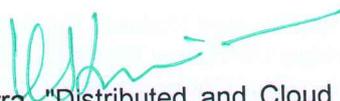
**TOTAL: 45 PERIODS****OUTCOMES:**

**On Completion of the course, the students should be able to:**

- Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
- Learn the key and enabling technologies that help in the development of cloud.
- Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
- Explain the core issues of cloud computing such as resource management and security.
- Be able to install and use current cloud technologies.
- Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.

**TEXT BOOKS:**

1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
2. Rittinghouse, John W., and James F. Ransome, "Cloud Computing: Implementation, Management and Security", CRC Press, 2017.



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**REFERENCES:**

1. Rajkumar Buyya, Christian Vecchiola, S. ThamaraiSelvi, "Mastering Cloud Computing", Tata Mcgraw Hill, 2013.
  2. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing - A Practical Approach", Tata Mcgraw Hill, 2009.
- George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud: Transactional Systems for EC2 and Beyond (Theory in Practice)", O'Reilly, 2009.

**OBJECTIVES:**

- To understand the foundations of distributed systems.
- To learn issues related to clock Synchronization and the need for global state in distributed systems.
- To learn distributed mutual exclusion and deadlock detection algorithms.
- To understand the significance of agreement, fault tolerance and recovery protocols in Distributed Systems.
- To learn the characteristics of peer-to-peer and distributed shared memory systems.

**UNIT I INTRODUCTION**

9

**Introduction:** Definition –Relation to computer system components –Motivation –Relation to parallel systems – Message-passing systems versus shared memory systems –Primitives for distributed communication –Synchronous versus asynchronous executions –Design issues and challenges. **A model of distributed computations:** A distributed program –A model of distributed executions –Models of communication networks –Global state – Cuts –Past and future cones of an event –Models of process communications. **Logical Time:** A framework for a system of logical clocks –Scalar time –Vector time – Physical clock synchronization: NTP.

**UNIT II MESSAGE ORDERING & SNAPSHOTS**

9

**Message ordering and group communication:** Message ordering paradigms –Asynchronous execution with synchronous communication –Synchronous program order on an asynchronous system –Group communication – Causal order (CO) - Total order. **Global state and snapshot recording algorithms:** Introduction –System model and definitions –Snapshot algorithms for FIFO channels

**UNIT III DISTRIBUTED MUTEX & DEADLOCK**

9

**Distributed mutual exclusion algorithms:** Introduction – Preliminaries – Lamport's algorithm – Ricart-Agrawala algorithm – Maekawa's algorithm – Suzuki-Kasami's broadcast algorithm. **Deadlock detection in distributed systems:** Introduction – System model – Preliminaries – Models of deadlocks – Knapp's classification – Algorithms for the single resource model, the AND model and the OR model.

**UNIT IV RECOVERY & CONSENSUS**

9

**Checkpointing and rollback recovery:** Introduction – Background and definitions – Issues in failure recovery – Checkpoint-based recovery – Log-based rollback recovery – Coordinated checkpointing algorithm – Algorithm for asynchronous checkpointing and recovery. **Consensus and agreement algorithms:** Problem definition – Overview of results – Agreement in a failure – free system – Agreement in synchronous systems with failures.

**UNIT V P2P & DISTRIBUTED SHARED MEMORY**

9

**Peer-to-peer computing and overlay graphs:** Introduction – Data indexing and overlays – Chord – Content addressable networks – Tapestry. **Distributed shared memory:** Abstraction and advantages – Memory consistency models –Shared memory Mutual Exclusion.

**TOTAL: 45 PERIODS****OUTCOMES:****At the end of this course, the students will be able to:**

- Elucidate the foundations and issues of distributed systems
- Understand the various synchronization issues and global state for distributed systems.
- Understand the Mutual Exclusion and Deadlock detection algorithms in distributed systems
- Describe the agreement protocols and fault tolerance mechanisms in distributed systems.
- Describe the features of peer-to-peer and distributed shared memory systems

**TEXT BOOKS:**

1. Kshemkalyani, Ajay D., and Mukesh Singhal. Distributed computing: principles, algorithms, and systems. Cambridge University Press, 2011.
2. George Coulouris, Jean Dollimore and Tim Kindberg, "Distributed Systems Concepts and Design", Fifth Edition, Pearson Education, 2012.

**REFERENCES:**

1. Pradeep K Sinha, "Distributed Operating Systems: Concepts and Design", Prentice Hall of India, 2007.
  2. Mukesh Singhal and Niranjana G. Shivaratri. Advanced concepts in operating systems. McGraw-Hill, Inc., 1994.
  3. Tanenbaum A.S., Van Steen M., "Distributed Systems: Principles and Paradigms", Pearson Education, 2007.
  4. Liu M.L., "Distributed Computing, Principles and Applications", Pearson Education, 2004.
- Nancy A Lynch, "Distributed Algorithms", Morgan Kaufman Publishers, USA, 2003


  
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**OBJECTIVES:**

- To understand the basic concepts of mobile computing.
- To learn the basics of mobile telecommunication system .
- To be familiar with the network layer protocols and Ad-Hoc networks.
- To know the basis of transport and application layer protocols.
- To gain knowledge about different mobile platforms and application development.

**UNIT I INTRODUCTION**

9

Introduction to Mobile Computing – Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing – Spread spectrum -MAC Protocols – SDMA- TDMA- FDMA- CDMA

**UNIT II MOBILE TELECOMMUNICATION SYSTEM**

9

Introduction to Cellular Systems - GSM – Services & Architecture – Protocols – Connection Establishment – Frequency Allocation – Routing – Mobility Management – Security – GPRS- UMTS – Architecture – Handover – Security

**UNIT III MOBILE NETWORK LAYER**

9

Mobile IP – DHCP – AdHoc– Proactive protocol-DSDV, Reactive Routing Protocols – DSR, AODV , Hybrid routing –ZRP, Multicast Routing- ODMRP, Vehicular Ad Hoc networks ( VANET) –MANET Vs VANET – Security.

**UNIT IV MOBILE TRANSPORT AND APPLICATION LAYER**

9

Mobile TCP– WAP – Architecture – WDP – WTLS – WTP –WSP – WAE – WTA Architecture – WML

**UNIT V MOBILE PLATFORMS AND APPLICATIONS**

9

Mobile Device Operating Systems – Special Constraints & Requirements – Commercial Mobile Operating Systems – Software Development Kit: iOS, Android, BlackBerry, Windows Phone – MCommerce – Structure – Pros & Cons – Mobile Payment System – Security Issues

**TOTAL 45 PERIODS****OUTCOMES:**

**At the end of the course, the students should be able to:**

- Explain the basics of mobile telecommunication systems
- Illustrate the generations of telecommunication systems in wireless networks
- Determine the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network
- Explain the functionality of Transport and Application layers
- Develop a mobile application using android/blackberry/ios/Windows SDK

**TEXT BOOKS:**

1. Jochen Schiller, "Mobile Communications", PHI, Second Edition, 2003.
2. Prasant Kumar Pattnaik, Rajib Mall, "Fundamentals of Mobile Computing", PHI Learning Pvt.Ltd, New Delhi – 2012

**REFERENCES**

1. Dharma Prakash Agarwal, Qing and An Zeng, "Introduction to Wireless and Mobile systems", Thomson Asia Pvt Ltd, 2005.
2. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, "Principles of Mobile Computing", Springer, 2003.
3. William.C.Y.Lee, "Mobile Cellular Telecommunications-Analog and Digital Systems", Second Edition, TataMcGraw Hill Edition ,2006.
4. C.K.Toh, "AdHoc Mobile Wireless Networks", First Edition, Pearson Education, 2002.
5. Android Developers : <http://developer.android.com/index.html>
6. Apple Developer : <https://developer.apple.com/>
7. Windows Phone DevCenter : <http://developer.windowsphone.com>
8. BlackBerry Developer : <http://developer.blackberry.com>

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**OBJECTIVES:**

- To understand the need for machine learning for various problem solving
- To study the various supervised, semi-supervised and unsupervised learning algorithms in machine learning
- To understand the latest trends in machine learning
- To design appropriate machine learning algorithms for problem solving

**UNIT I INTRODUCTION**

Learning Problems – Perspectives and Issues – Concept Learning – Version Spaces and Candidate Eliminations – Inductive bias – Decision Tree learning – Representation – Algorithm – Heuristic Space Search. 9

**UNIT II NEURAL NETWORKS AND GENETIC ALGORITHMS**

Neural Network Representation – Problems – Perceptrons – Multilayer Networks and Back Propagation Algorithms – Advanced Topics – Genetic Algorithms – Hypothesis Space Search – Genetic Programming – Models of Evaluation and Learning. 9

**UNIT III BAYESIAN AND COMPUTATIONAL LEARNING**

Bayes Theorem – Concept Learning – Maximum Likelihood – Minimum Description Length Principle – Bayes Optimal Classifier – Gibbs Algorithm – Naïve Bayes Classifier – Bayesian Belief Network – EM Algorithm – Probability Learning – Sample Complexity – Finite and Infinite Hypothesis Spaces – Mistake Bound Model. 9

**UNIT IV INSTANT BASED LEARNING**

K- Nearest Neighbour Learning – Locally weighted Regression – Radial Basis Functions – Case Based Learning. 9

**UNIT V ADVANCED LEARNING**

Learning Sets of Rules – Sequential Covering Algorithm – Learning Rule Set – First Order Rules – Sets of First Order Rules – Induction on Inverted Deduction – Inverting Resolution – Analytical Learning – Perfect Domain Theories – Explanation Base Learning – FOCL Algorithm – Reinforcement Learning – Task – Q-Learning – Temporal Difference Learning 9

**TOTAL :45 PERIODS****OUTCOMES:****At the end of the course, the students will be able to**

- Differentiate between supervised, unsupervised, semi-supervised machine learning approaches
- Discuss the decision tree algorithm and identify and overcome the problem of overfitting
- Discuss and apply the back propagation algorithm and genetic algorithms to various problems
- Apply the Bayesian concepts to machine learning
- Analyse and suggest appropriate machine learning approaches for various types of problems

**TEXT BOOK:**

1. Tom M. Mitchell, "Machine Learning", McGraw-Hill Education (India) Private Limited, 2013.

**REFERENCES:**

1. Ethem Alpaydin, "Introduction to Machine Learning (Adaptive Computation and Machine Learning)", The MIT Press 2004.
2. Stephen Marsland, "Machine Learning: An Algorithmic Perspective", CRC Press, 2009.

**OBJECTIVES**

- To learn the fundamentals of data models and to represent a database system using ER diagrams.
- To study SQL and relational database design.
- To understand the internal storage structures using different file and indexing techniques which will help in physical DB design.
- To understand the fundamental concepts of transaction processing- concurrency control techniques and recovery procedures.
- To have an introductory knowledge about the Storage and Query processing Techniques

**UNIT I RELATIONAL DATABASES**

10

Purpose of Database System – Views of data – Data Models – Database System Architecture – Introduction to relational databases – Relational Model – Keys – Relational Algebra – SQL fundamentals – Advanced SQL features – Embedded SQL– Dynamic SQL

**UNIT II DATABASE DESIGN**

8

Entity-Relationship model – E-R Diagrams – Enhanced-ER Model – ER-to-Relational Mapping – Functional Dependencies – Non-loss Decomposition – First, Second, Third Normal Forms, Dependency Preservation – Boyce/Codd Normal Form – Multi-valued Dependencies and Fourth Normal Form – Join Dependencies and Fifth Normal Form

**UNIT III TRANSACTIONS**

9

Transaction Concepts – ACID Properties – Schedules – Serializability – Concurrency Control – Need for Concurrency – Locking Protocols – Two Phase Locking – Deadlock – Transaction Recovery - Save Points – Isolation Levels – SQL Facilities for Concurrency and Recovery.

**UNIT IV IMPLEMENTATION TECHNIQUES**

9

RAID – File Organization – Organization of Records in Files – Indexing and Hashing –Ordered Indices – B+ tree Index Files – B tree Index Files – Static Hashing – Dynamic Hashing – Query Processing Overview – Algorithms for SELECT and JOIN operations – Query optimization using Heuristics and Cost Estimation.

**UNIT V ADVANCED TOPICS**

9

Distributed Databases: Architecture, Data Storage, Transaction Processing – Object-based Databases: Object Database Concepts, Object-Relational features, ODMG Object Model, ODL, OQL - XML Databases: XML Hierarchical Model, DTD, XML Schema, XQuery – Information Retrieval: IR Concepts, Retrieval Models, Queries in IR systems.

**TOTAL: 45 PERIODS****OUTCOMES:**

Upon completion of the course, the students will be able to:

- Classify the modern and futuristic database applications based on size and complexity
- Map ER model to Relational model to perform database design effectively
- Write queries using normalization criteria and optimize queries
- Compare and contrast various indexing strategies in different database systems
- Appraise how advanced databases differ from traditional databases.

**TEXT BOOKS:**

1. Abraham Silberschatz, Henry F. Korth, S. Sudharshan, "Database System Concepts", Sixth Edition, Tata McGraw Hill, 2011.
2. Ramez Elmasri, Shamkant B. Navathe, "Fundamentals of Database Systems", Sixth Edition, Pearson Education, 2011.

**REFERENCES:**

1. C.J.Date, A.Kannan, S.Swamynathan, "An Introduction to Database Systems", Eighth Edition, Pearson Education, 2006.
  2. Raghu Ramakrishnan, —Database Management Systemsll, Fourth Edition, McGraw-Hill College Publications, 2015.
- G.K.Gupta, "Database Management Systems", Tata McGraw Hill, 2011.


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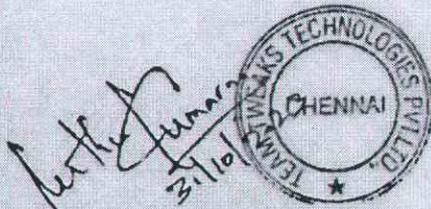
31<sup>st</sup> Oct 2023,

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Imraan H(Reg No:311820104013) has successfully completed 3 months of (02<sup>nd</sup> August 2023 – 31<sup>st</sup> October 2023) internship in Flutter App Development at Team Tweaks Technologies Pvt. Ltd.

His internship activity includes basics of development in Flutter Applications under the guidance of Mr. Vivek S and Mr. Subash M – Team Lead - Flutter. He had majorly involved in learning Flutter Application development in dart language. During the period of his internship program with us he had been exposed to different process which was found hardworking and inquisitive. We wish him every success in the life and career.

**Congratulations and Best Wishes!!!**



**MUTHU KUMARAN G**

**SENIOR HR**



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Mohamed Sathak A J College of Engineering, Chennai-603103

Department of Information Technology

1.3.2. Average percentage of courses that include experiential learning through project work/field work/internship during AY2023-24

S.No	Title of IV yr Project	Subject code & Subjects name related to the Projects
1	BlockChain Based File Storage	CS8691 -Artificial Intelligence & CS8082 -Machine Learning & CS8792- Cryptography and Network Security
2	Parkinsons Disease Detection Using Support Vector Machine Algorithm	CS8691 -Artificial Intelligence & CS8082 -Machine Learning & CS8792- Cryptography and Network Security
3	Efficient Facial Based BMI Prediction Using Machine Learning	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
4	KYAAT- The Kinesics Recognition	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
5	Book Recommendation System	CS8691 -Artificial Intelligence & CS8791 Cloud Computing
6	Emergency Communication System For Hilly and Forest Regions	CS8792- Cryptography and Network Security
7	Advanced Software Defect Prediction a Novel Machine Learning Framework for Enhanced Accuracy	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
8	ASK ME A JOB_ TheRecommendation App	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
9	Advanced NLP Techniques for Automated Summarization of Lengthy Educational Video Content on YouTube	CS8691- Artificial Intelligence & CS8792- Cryptography and Network Security
10	Plant Disease Detection Using Machine Learning Techniques	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
11	AES-Shield Image Vault	CS8691- Artificial Intelligence & CS8792- Cryptography and Network Security
12	CryptoCom-Secure Communication Application with Secure Enhanced AES Encryption	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
13	E-Waste Trading Network with BlockChain Integration	CS8691 Artificial Intelligence & CS8792 Cryptography and Network Security



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14	Third EYE Wearable Device for Visually Impaired	CS8792 Cryptography and Network Security
15	Deep Learning Based Segmentation in Classification of Alzheimer's Disease	CS8691 -Artificial Intelligence & CS8082 -Machine Learning Techniques
16	Vision Transformer Based Vision Enhancement for visually Impaired Individuals	CS8691- Artificial Intelligence & CS8792 - Cryptography and Network Security
17	Finding Missing Person Using Email System	CS8691- Artificial Intelligence & CS8792 - Cryptography and Network Security
18	Image Processing Software for Medicinal Plant Identification	CS8691- Artificial Intelligence & CS8082 -Machine Learning Techniques & CS8792- Cryptography and Network Security

  
HOD



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**BLOCKCHAIN BASED FILE STORAGE**

**A FINAL YEAR PROJECT REPORT**

*Submitted by*

SIVAPRAKASAM N	311820205043
PACKEER MOHIDEEN FAHEEM S	311820205028
PRAMOTH M	311820205032

*In partial fulfilment for the award of the degree*

*Of*

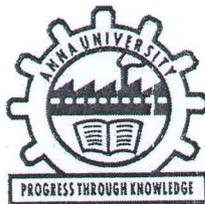
**BACHELOR OF TECHNOLOGY**

*in*

**INFORMATION TECHNOLOGY**

**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING.**

**SIRUSERI IT PARK, OMR, CHENNAI-603 103**



**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2024**

**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering  
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Sipcot - IT Highway Egattur,  
Chennai - 603103.**

## BONAFIDE CERTIFICATE

It is certified that this report "**BLOCKCHAIN BASED FILE STORAGE**" bonafide work of the **SIVAPRAKASAM N (311819205043)**, **MOHIDEEN FAHEEM S (311820205028)** and **PRAMOTH M (311819205032)**" Who carried out the project under my supervision.

  
Dr.D.Prakash,M.E.,M.Tech.,Ph.D.

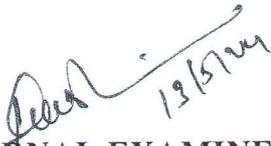
**HEAD OF THE DEPARTMENT,**  
Department of Information Technology,  
Mohamed Sathak A.J.College of  
Engineering, Siruseri,  
Chennai – 603 103

  
Mr.M.karthikeyan, M.E.,

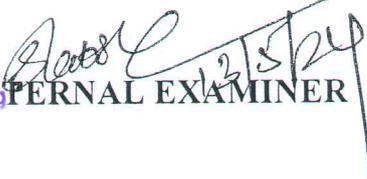
**SUPERVISOR**

Department of information Technology,  
Mohamed Sathak A.J.College of  
Engineering,Siruseri,  
Chennai-603 103

Submitted for the university practical examination held at **MOHAMED SATHAK AJ COLLEGE OF ENGINEERING, CHENNAI** On **13.05.24..(F.N)**

  
**INTERNAL EXAMINER**

  
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**EXTERNAL EXAMINER**

## ABSTRACT

The emergence of blockchain technology has paved the way for innovative solutions in various domains, including file storage. This paper explores the concept of decentralized file storage systems built on blockchain technology. By leveraging the table and decentralized nature of blockchain, such systems offer enhanced it is used to save a file in the decentralized storage for a secured file transaction into the key components and mechanisms underlying blockchain-based file storage, such as distributed consensus algorithms, smart contracts, and encryption techniques. Furthermore, it discusses the advantages of this approach, including reduced dependency on centralized entities, improved accessibility, and potential cost. The emergence of blockchain technology has paved the way for innovative solutions Savings. Additionally, challenges such as scalability, latency, and regulatory considerations are addressed, along with proposed solutions and future research directions. Overall, blockchain-based file storage presents a promising paradigm shift towards a more secure, transparent, and resilient data storage infrastructure.



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## CHAPTER-8

### CONCLUSION AND FUTURE ENHANCEMENT

#### **Conclusion an future enhancement:**

Blockchain-based file storage presents a promising solution to traditional centralized storage systems by offering decentralization, enhanced security, and immutable records of file transactions. By leveraging distributed ledger technology, users can store their data across a network of nodes rather than relying on a single central authority. This not only reduces the risk of data loss or tampering but also enhances trust in the integrity of the stored files.

However, despite its potential, blockchain-based file storage faces several challenges that need to be addressed for widespread adoption. These include scalability limitations, slow transaction speeds, and complex user interfaces. Furthermore, concerns about energy consumption, particularly in proof-of-work consensus mechanisms, also need to be addressed to make blockchain-based storage more sustainable in the long run.

#### **Future Enhancements:**

To overcome these challenges and further enhance blockchain-based file storage systems, several avenues for improvement can be explored:

**Scalability Solutions:** Research and development efforts should focus on scalability solutions such as sharding, layer-2 protocols, or off-chain scaling solutions. These techniques can help increase the throughput of transactions and improve overall network performance.

**Consensus Mechanisms:** Exploring alternative consensus mechanisms beyond proof-of-work, such as proof-of-stake or delegated proof-of-stake, can reduce energy consumption and improve transaction speeds. Consensus mechanisms tailored specifically for file storage applications could also be developed to optimize performance.

**User Experience:** Simplifying the user experience and making blockchain-based file storage more accessible to non-technical users is crucial for adoption. This includes developing intuitive interfaces, seamless integration with existing applications, and providing clear documentation and support.

**Interoperability and Standards:** Establishing interoperability standards between different blockchain-based storage platforms can facilitate seamless data transfer and interoperability between applications. This would allow users to easily switch between different storage providers without being locked into a specific ecosystem.



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# PARKINSON'S DISEASE DETECTION USING SUPPORT VECTOR MACHINE ALGORITHM

A PROJECT REPORT

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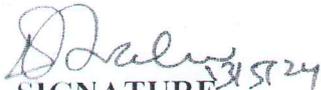
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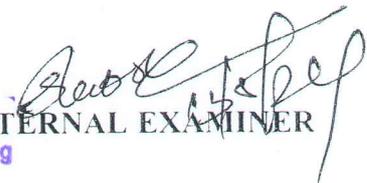
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## ABSTRACT

Parkinson's disease, a progressive neurological disorder, often goes undetected in its initial stages due to the subtle and easily over looked nature of its early symptoms. This neural disease affects the central nervous system, manifesting through tremors, stiffness, changes in facial expressions, and fever. Even medical professionals sometimes struggle to identify Parkinson's in its early phases, leading to delayed diagnosis and treatment, which can exacerbate the condition's effects.

Our project aims to address this critical challenge by developing a highly accurate Parkinson's disease detection system capable of identifying the condition from its earliest stages. We have trained our system on a comprehensive dataset, enabling it to recognize the subtle patterns and biomarkers associated with Parkinson's. By leveraging advanced machine learning techniques and analyzing various physiological signals, our system can provide early detection with high precision.

Early intervention is crucial for managing Parkinson's disease, as it can significantly slow its progression and improve the quality of life for those affected. Our data-driven approach, combined with cutting-edge algorithms, represents a significant step forward in the fight against this debilitating condition. Early detection empowers individuals to seek timely medical attention and appropriate treatment, offering hope and better outcomes for those at risk of Parkinson's disease.

Through our project, we aim to raise awareness about the importance of early detection and provide a reliable tool to identify Parkinson's disease before it progresses to more advanced stages, ultimately improving the lives of those affected by this neurological disorder.

**Keywords:** Parkinson's disease, early detection, machine learning, physiological signals, data-driven, algorithms, early intervention, quality of life, neurological disorder.

## 7 CONCLUSION AND FUTURE SCOPE:

### 7.1 CONCLUSION:

Through this research, we have successfully developed and implemented a robust machine learning model and algorithm for predicting Parkinson's disease using the highly effective Support Vector Machine (SVM) technique. By leveraging the power of SVM, our system can accurately detect the presence of Parkinson's disease from various vocal data inputs, providing a reliable and efficient means for early diagnosis.

Looking ahead, we aim to further enhance the capabilities and user experience of our system. One key improvement will be the integration of microphone functionality directly into devices, allowing for seamless and convenient voice data collection. This integration will provide users with an intuitive interface for interacting with the system, streamlining the process of data acquisition and analysis, and ultimately improving the overall user experience.

Additionally, we plan to incorporate a feature that enables individuals affected by Parkinson's disease to directly connect with and search for suitable medical professionals through a provided link. This addition will empower patients by granting them immediate access to relevant healthcare resources, facilitating prompt diagnosis and treatment, and fostering a more collaborative approach to managing the condition.

Through continuous improvement and the incorporation of these enhancements, our system will become an increasingly powerful tool in the fight against Parkinson's disease. By enabling early detection, improving patient outcomes, and providing direct access to healthcare resources, our system will contribute significantly to improving the quality of life for those affected by this debilitating condition, ultimately making a positive impact on the lives of individuals and their families.

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## 7.2 FUTURE SCOPE:

- 1. Expanding the Dataset:** Continuously expanding and diversifying the dataset used for training the machine learning model is crucial. This can include collecting voice samples from a larger and more diverse population, encompassing different age groups, ethnicities, and linguistic backgrounds. A more comprehensive dataset will enhance the model's ability to generalize and improve its accuracy across a wider range of individuals.
- 2. Multi-Modal Approach:** While the current system relies solely on vocal data, incorporating additional modalities could further improve its performance. This could involve integrating data from various sources, such as handwriting samples, gait analysis, or even brain imaging techniques. A multi-modal approach leveraging multiple biomarkers could provide a more holistic assessment and increase the system's sensitivity in detecting Parkinson's disease.
- 3. Longitudinal Monitoring:** Extending the system's capabilities to enable longitudinal monitoring of patients could be valuable for tracking the progression of Parkinson's disease over time. By regularly collecting and analyzing vocal data, the system could potentially detect subtle changes in speech patterns, allowing for early intervention and personalized treatment strategies.
- 4. Integration with Wearable Devices:** Integrating the system with wearable devices or smart phones could facilitate continuous monitoring and data collection in real-world settings. This could provide valuable insights into the impact of various environmental factors, daily activities, and medication adherence on the symptoms of Parkinson's disease.

**EFFICIENT FACIAL BASED BMI PREDICTION  
USING MACHINE LEARNING**

**A PROJECT REPORT**

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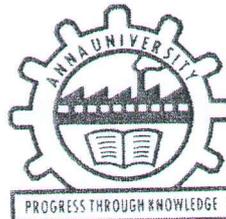
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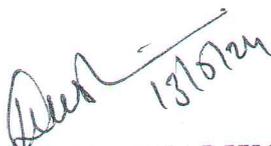
  
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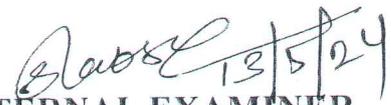
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## ABSTRACT

- ▶ A novel approach to predicting Body Mass Index (BMI) solely from facial images using a Recurrent Neural Network (RNN). Motivated by the importance of BMI as a health metric and the widespread availability of facial recognition technology,
- ▶ we collect a dataset comprising facial images paired with corresponding height and weight measurements. Following preprocessing steps, including normalization of height and weight data and image processing techniques, we devise an RNN architecture.
- ▶ This architecture integrates a Recurrent Neural Network (RNN) to extract facial features and an RNN to incorporate height and weight information. The model is trained on the prepared dataset and evaluated on an independent test set. Results demonstrate the efficacy of our approach in accurately predicting BMI from facial images alone, showcasing the potential of deep learning methods for leveraging facial data in health-related contexts.



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## CHAPTER 8

### CONCLUSION AND FUTURE SCOPE

#### 8.1 Conclusion

- ▶ The development and training of an RNN model for BMI prediction involve several key steps, including data collection, preprocessing, model architecture design, training, and evaluation. By leveraging facial images alongside biometric data, RNN models can learn complex patterns and relationships, enabling them to make informed predictions about individuals' BMI categories.
- ▶ While RNN-based BMI prediction offers numerous advantages, including the ability to analyze visual information and capture temporal dependencies, it also presents certain challenges and considerations. These include the need for robust preprocessing techniques, careful selection of hyperparameters, and the interpretation of model predictions.

#### 8.2 Future Scope

Future enhancements for face-based BMI detection may include integrating multimodal data such as body composition analysis from wearable sensors, improving robustness to variations in facial expressions, and exploring advanced deep learning architectures like attention mechanisms. Additionally, leveraging longitudinal data for continuous BMI monitoring and incorporating personalized feedback systems could enhance user engagement and promote long-term health management. Integration with telemedicine platforms for remote monitoring and intervention may also be explored to broaden accessibility and effectiveness.



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# KYAAT - THE KINESICS RECOGNITION

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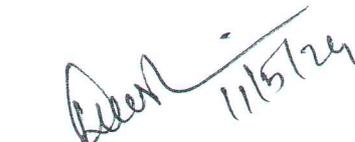
  
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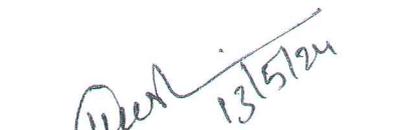
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## ABSTRACT

The Virtual Mouse system revolutionizes Human-Computer Interaction (HCI) by leveraging real-time camera technology to offer an innovative alternative to traditional input methods. By capturing and processing real-time images through a camera, the system extracts precise coordinates for cursor movement, allowing users to control actions through hand gestures. This approach introduces a seamless and accessible interface that transcends the limitations of physical mouse or button presses.

Integrating hand movement further enhances the system's convenience and accessibility, particularly benefiting individuals facing challenges related to hand mobility. By mimicking all the functions of a physical mouse, the Virtual Mouse seamlessly integrates with existing technologies, thereby marking a significant advancement in HCI.

The system's ability to interpret hand gestures provides specially-abled individuals with intuitive control, fostering digital independence and enhancing productivity. This empowerment opens new avenues for inclusivity in the digital realm, ensuring that individuals of diverse abilities can engage with technology effectively.

Overall, the Virtual Mouse represents a pivotal innovation in advancing human-computer interactions across a wide spectrum of user demographics. Its ability to offer intuitive control, accessibility, and seamless integration with existing technologies makes it a game-changer in HCI, promising to redefine how users interact with digital interfaces in both personal and professional settings. This innovation not only enhances the user experience but also contributes to a more inclusive and equitable digital landscape, where technology serves as a tool for empowerment and connectivity for all.

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## CHAPTER 6

### 6.CONCLUSION:

- The accuracy and efficiency plays an important role in making the program as useful as an actual physical mouse, a few techniques had to be implemented.
- After implanting such type of application there is big replacement of physical mouse i.e., there is no need of any physical mouse. Each & every movement of physical mouse is done with this Virtual.
- The basic goal of the virtual mouse system is to control the mouse cursor and complete activities without needing a physical mouse by using hand gestures.
- This proposed system is created by using a webcam (or any built-in camera) that recognises hand gestures and hand tip movement and processes these frames to perform the relevant mouse actions.
- The proposed model has been tested for high sophistication, the virtual mouse can be used for real-time applications.
- Because the proposed mouse system may be operated digitally utilising hand gestures rather than the traditional physical mouse, it will be of more value in combating the propagation of viruses like COVID-19 in the current context.



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# BOOK RECOMMENDATION SYSTEM

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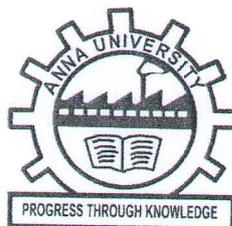
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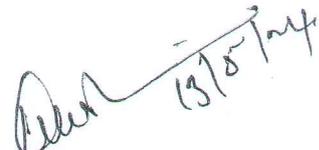
  
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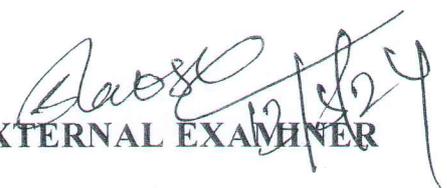
  
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## ABSTRACT

The rapid growth of digital libraries and online bookstores has led to an overwhelming abundance of available books, making it increasingly challenging for readers to discover new titles suited to their preferences. In response, our project endeavors to develop a sophisticated book recommendation algorithm implemented within a web-based platform. Leveraging the power of machine learning and web development technologies, our system aims to provide personalized book recommendations to users based on their past reading history, preferences, and demographic information.

This project explores a comprehensive range of recommendation algorithms, including collaborative filtering, content-based filtering, and hybrid approaches, to determine the most effective method for generating accurate and relevant book suggestions. Additionally, we delve into the design and implementation of a user-friendly web interface, ensuring seamless interaction and engagement for users of varying technical proficiency.

Through rigorous experimentation and evaluation, we assess the performance of our recommendation algorithm in terms of accuracy, diversity, and user satisfaction. Our findings contribute valuable insights to the fields of recommendation systems and web development, offering practical solutions to enhance the browsing and selection experience for book enthusiasts worldwide.

Overall, this project represents a significant step towards the advancement of personalized recommendation technologies within the realm of literature, facilitating more informed and enjoyable reading experiences for users across diverse backgrounds and interests.



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## CHAPTER 9

### Conclusion:

#### 9.1 Summary of Achievements:

Throughout the development and implementation phases of our project, several key achievements have been realized:

- Successful integration of advanced machine learning algorithms for personalized book recommendations.
- Creation of a user-friendly web application interface facilitating seamless interaction and exploration of recommended books.
- Iterative refinement of the recommendation system, resulting in enhanced accuracy and relevance of suggested reading material.
- Incorporation of social features, fostering community engagement and peer-to-peer book discussions.
- Robust evaluation process involving user testing, feedback analysis, and comparative studies with existing systems, validating the effectiveness and usability of our solution.

These achievements underscore our commitment to delivering a comprehensive and innovative book recommendation platform tailored to the needs and preferences of modern readers.



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## 9.2 Implications and Significance of the Project:

The implications of our project extend beyond the realm of literature consumption, impacting various stakeholders and domains:

- Empowering readers with personalized book recommendations, enhancing their reading experiences and promoting lifelong learning.
- Providing authors and publishers with insights into reader preferences and trends, facilitating targeted marketing strategies and content creation.
- Offering libraries and educational institutions a valuable tool for promoting literacy and fostering a culture of reading among diverse demographics.
- Advancing research in the fields of machine learning, recommendation systems, and web development, contributing to the development of novel algorithms and methodologies.

The significance of our project lies in its potential to reshape the way individuals discover, engage with, and derive value from literature in the digital age, fostering a deeper appreciation for the written word and promoting intellectual exploration and discovery.

## 9.3 Closing Remarks:



In conclusion, our project represents a culmination of creativity, innovation, and dedication aimed at addressing the contemporary challenges

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faced by readers in navigating the vast literary landscape. By harnessing the power of advanced algorithms and intuitive web development, we have created a platform that not only simplifies the process of discovering new books but also fosters a sense of community and camaraderie among readers.

As we embark on the next phase of our journey, we remain committed to refining and expanding our solution, continuously striving to enrich the lives of readers worldwide. We extend our gratitude to all those who have supported and contributed to this endeavour, and we look forward to the continued evolution and impact of our project in the years to come.



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# EMERGENCY COMMUNICATION SYSTEM FOR HILLY AND FOREST REGIONS

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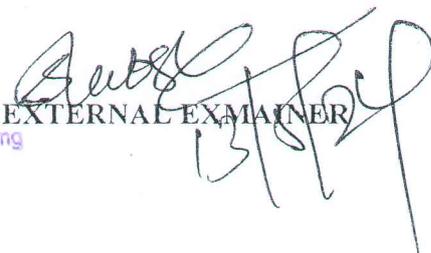
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## ABSTRACT

This project aims to design and implement an effective emergency communication system tailored for industries situated in hilly and forested regions. The challenging terrain of such environments poses unique obstacles to traditional communication infrastructure. Our proposed solution integrates advanced wireless technologies, sensor networks, and geospatial mapping to establish a robust communication network capable of overcoming natural barriers. The system also incorporates intelligent algorithms for real-time environmental monitoring, enabling early detection of hazards. With a user-friendly interface and scalability features, the developed emergency communication system enhances safety and response capabilities, ensuring timely and efficient communication for industrial operations in challenging terrains.

The goal is to address the unique challenges posed by the rugged terrain and dense vegetation in such environments. By integrating advanced wireless technologies, sensor networks, and geospatial mapping, the system aims to establish a resilient communication infrastructure capable of providing effective coverage despite natural obstacles. The primary objective includes the implementation of intelligent algorithms for real-time environmental monitoring, facilitating early detection of potential hazards. With a focus on user-friendly interfaces and scalability, the project seeks to enhance safety and response capabilities, ensuring reliable and timely communication for industrial operations in challenging terrains.

The proposed system consists of strategically placed LoRa gateways deployed across the targeted area to ensure comprehensive coverage. In times of emergency, individuals can utilize portable LoRa-enabled devices, such as smartphones or dedicated emergency transceivers, to transmit distress signals to the nearest gateway. These signals are then relayed through the LoRa network to a centralized command center, facilitating prompt response and coordination of rescue efforts.

Key features of the system include low power consumption, allowing for extended battery life of deployed devices, and robustness against interference and signal degradation often encountered in remote environments. Furthermore, the use of LoRa technology enables efficient utilization of available spectrum resources, minimizing the infrastructure requirements and associated costs.



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## CHAPTER 7

### 7. CONCLUSION

By integrating cutting-edge technologies, such as LoRa communication, environmental sensors, and intelligent algorithms, the proposed system addresses the limitations of existing infrastructure, offering comprehensive coverage and adaptability to dynamic emergency scenarios. The strategic placement of communication nodes, real-time environmental monitoring, and user-friendly interfaces enhance the system's efficacy in providing timely and reliable communication. Additionally, the scalability and durability of the hardware components ensure the system's sustainability in evolving industrial landscapes. The proposed emergency communication system stands as a robust solution to mitigate risks, facilitate swift responses to emergencies, and ultimately safeguard the well-being of personnel and assets in industries situated in hilly and forested regions.

The development and implementation of the Emergency Communication System (ECS) for Hilly and Forest Regions Using LoRa Technology represent a significant advancement in addressing the communication challenges inherent in remote and rugged terrains. Through a combination of innovative technology and robust infrastructure, the ECS offers a reliable and resilient communication network tailored specifically for emergency situations in these challenging environments.

Throughout this project, we have demonstrated the feasibility and effectiveness of leveraging LoRa technology to establish long-range communication capabilities, overcoming the geographical barriers and connectivity limitations prevalent in hilly and forest regions. By strategically deploying LoRa gateways and utilizing portable LoRa-enabled devices, individuals in remote areas can now quickly and efficiently transmit distress signals and emergency information to designated authorities and responders, facilitating prompt response and coordination of rescue efforts.

The testing and validation procedures conducted during the development of the ECS have confirmed its reliability, performance, and suitability for deployment in real-world scenarios. From range testing to interference testing and field trials, the ECS has consistently demonstrated its ability to maintain communication connectivity and deliver emergency messages promptly and consistently, even under adverse conditions.



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**ADVANCING SOFTWARE DEFECT PREDICTION A NOVEL MACHINE  
LEARNING FRAMEWORK FOR ENHANCED ACCURACY**

**A FINAL YEAR PROJECT REPORT**

*Submitted by*

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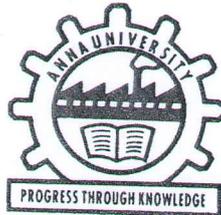
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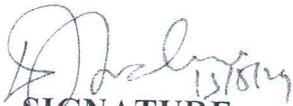
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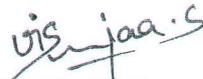
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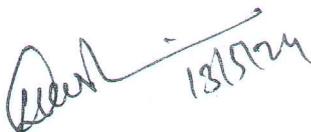
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## ABSTRACT

Software defect prediction is crucial in software engineering to identify potential defects early and reduce maintenance costs. Traditional methods use statistical and machine learning techniques on metrics from software repositories, but their accuracy is often limited by software complexity.

This project proposes a novel machine learning framework to enhance defect prediction accuracy. Our framework integrates multiple algorithms, feature engineering, and ensemble learning, adept at handling imbalanced datasets and providing interpretable results.

We employ data preprocessing to handle missing values, normalize features, and address class imbalance. We explore various feature selection methods and introduce new features from code complexity and change history.

Diverse machine learning algorithms like decision trees, random forests, SVMs, and neural networks are employed. Our ensemble approach combines these algorithms to improve generalization and reduce overfitting.

We introduce a novel technique for model interpretation, analyzing feature importance to provide insights into the decision-making process.

Experiments on multiple open-source projects demonstrate our approach's superiority in accuracy, precision, recall, and F1-score. Our framework shows robust performance across datasets and can adapt to new projects with minimal tuning.

In conclusion, our proposed framework offers a comprehensive solution for defect prediction, enhancing accuracy and interpretability. By leveraging advanced techniques, developers can build more reliable software systems.

  
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## CHAPTER 9

### 9 CONCLUSION

The proposed software defect prediction system integrates boosting algorithms like Gradient Boosting and AdaBoost with comprehensive feature engineering, demonstrating a significant potential for highly accurate defect identification. By emphasizing accuracy, diverse feature analysis, and adept handling of imbalanced data, the system aims to minimize false positives and improve overall prediction precision. Its adaptability to evolving software environments, combined with enhanced transparency through model interpretation, signifies a notable advancement in defect prediction methodologies. This system's capability to adapt to changing software landscapes ensures its relevance over time, allowing it to effectively identify and mitigate defects in modern software development scenarios. With its ability to provide actionable insights into potential defects and their underlying causes, the system promotes proactive defect prevention, ultimately leading to improved software quality and streamlined development processes. Additionally, the system's transparency enhances trust among developers, enabling more informed decision-making. In summary, the integration of boosting algorithms, comprehensive feature engineering, and adaptability to changing environments represent a significant leap forward in defect prediction methodologies, promising a more reliable and efficient approach to software defect detection and mitigation.



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# ASK ME A JOB

THE RECOMMEDATION APP

A PROJECT REPORT

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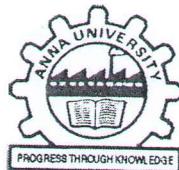
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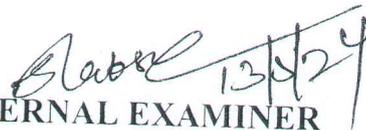


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## ABSTRACT

In today's rapidly evolving job market, the challenge of matching individuals with suitable employment opportunities has become increasingly complex. To address this issue, we present a novel application leveraging artificial intelligence (AI) within the Python and Kivy framework to provide personalized job recommendations.

The core functionality of the application revolves around user interaction, starting with inputting their interests. Utilizing AI algorithms, the application suggests relevant job roles based on these interests, offering users a curated selection to choose from. Once a job role is selected, the application prompts the user to specify their preferred job platform (such as LinkedIn or Naukri) and desired location.

Upon receiving this information, the application seamlessly redirects users to the specified job platform, presenting them with real-time job listings matching their selected role and location. This integration streamlines the job search process, eliminating the need for users to manually navigate multiple job platforms and sift through countless listings.

The AI-powered recommendation engine is a key feature of the application, employing advanced algorithms to analyze user interests and preferences, as well as job market trends. Through continuous learning and refinement, the recommendation engine enhances its accuracy over time, ensuring increasingly tailored suggestions for each user.

Moreover, the application prioritizes user experience and accessibility, with an intuitive interface designed using the Kivy framework. This framework allows for cross-platform development, enabling the application to run seamlessly on various devices, including desktops, tablets, and smartphones.

Overall, our project represents a significant advancement in the field of job search and recommendation systems. By harnessing the power of AI and intuitive design principles, our application empowers users to navigate the job market with greater efficiency and confidence, ultimately facilitating more successful job placements and career advancements.

**KEYWORDS :** Interaction ,Job recommendation ,Voice Search, Jobsite Web Automation.



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## 7 CONCLUSION AND FUTURE SCOPE:

### 7.1 CONCLUSION:

In conclusion, the development of our AI-powered job recommendation application represents a significant advancement in the field of career guidance and employment facilitation. Through the integration of cutting-edge technologies such as artificial intelligence, machine learning, and natural language processing, we have created a platform that streamlines the job search process and provides personalized recommendations tailored to individual skills, interests, and preferences.

Our application addresses the inefficiencies and challenges inherent in traditional job search methodologies by leveraging AI algorithms to analyze vast amounts of data and generate relevant job suggestions in real-time. By considering factors such as user profiles, job descriptions, and historical interactions, our recommendation engine delivers accurate and meaningful recommendations, empowering users to make informed decisions about their career paths.

Moreover, our application prioritizes inclusivity and accessibility, ensuring that users from diverse backgrounds and skill levels have equal access to employment opportunities. Through intuitive user interfaces and transparent recommendation algorithms, we strive to foster user trust and engagement, enhancing the overall user experience.

Looking ahead, we recognize the potential for further enhancements and refinements to our application. Future efforts may focus on incorporating additional data sources, refining recommendation algorithms, and integrating feedback mechanisms to continuously improve recommendation quality and user satisfaction.

Overall, our AI-powered job recommendation application represents a transformative solution to the challenges of modern job searching, providing users with the tools and resources needed to navigate the job market with confidence and efficiency. By leveraging technology to match individuals with suitable jobs, we aim to facilitate meaningful career development and empower users to achieve their professional aspirations.



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# Advanced NLP Techniques for Automated Summarization of Lengthy Educational Video Content on YouTube

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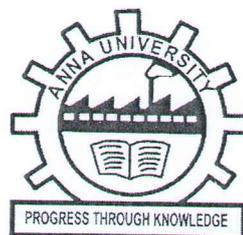
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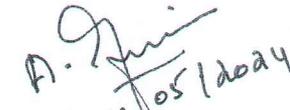
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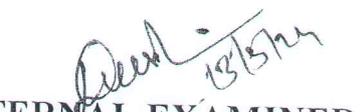
  
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## ABSTRACT

The exponential growth of educational content on platforms like YouTube, learners are often overwhelmed by the sheer volume of information available. Lengthy educational videos, while rich in content, pose a significant challenge for viewers who seek quick comprehension or review. To address this challenge, this project proposes the development of an automated summarization system using advanced Natural Language Processing (NLP) techniques specifically tailored for educational video content on YouTube. The primary objective of this project is to create a robust and efficient system that can automatically generate concise and informative summaries of lengthy educational videos.

The system will start by preprocessing the video transcripts to extract relevant textual data. Subsequently, it will utilize extractive summarization techniques to identify key sentences or phrases that encapsulate the core concepts discussed in the video. This initial summary will serve as the foundation for further refinement using abstractive summarization methods. By generating novel sentences that capture the essence of the content while maintaining coherence and fluency, the abstractive summarization component will ensure that the final summary is not merely a concatenation of extracted sentences but a coherent piece of text in its own.

The system will incorporate semantic understanding capabilities to discern the context and meaning of the content being summarized. This will enable it to prioritize essential information and exclude redundant or trivial details, thus producing summaries that are both concise and comprehensive. Furthermore, named entity recognition will be employed to identify and highlight key entities such as people, organizations, locations, and important terms, enhancing the readability and utility of the summaries.

The effectiveness of the proposed system will be evaluated through extensive testing and validation using a diverse dataset of educational videos across various domains.

In Summary, this project aims to leverage advanced NLP techniques to alleviate the information overload faced by learners on platforms like YouTube by providing them with concise, informative, and easily digestible summaries of lengthy educational video content.



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like to compare the effectiveness of using these two types of summaries and see how different they affect a user's search behavior.

Apply the proposed framework and methods to other question retrieval/generation tasks. In fact, the problem tackled in this thesis can be formulated as an inverse question-answering task by using given "answers" to find/generate relevant questions, which may have numerous applications in the real world. Although we use product reviews as the experimental dataset, our approach can be applied to other text summarization tasks, such as news, scientific articles, social media, and knowledge bases. Examples of applications include question generation for educational material creation, automatic email responding machine. The framework can even be extended for feeding in more than just text data, such as multimedia data. Examples of applications include generating questions for images and videos.

## 5.4 CONCLUSION

In conclusion, the exploration of advanced Natural Language Processing (NLP) techniques for the automated summarization of lengthy educational video content on platforms like YouTube presents significant opportunities and challenges. Through the implementation of various NLP models such as transformer-based architectures like BERT, GPT, or T5, alongside techniques like extractive or abstractive summarization, researchers and developers have made strides in enhancing the accessibility and utility of educational content online. These techniques offer the promise of condensing lengthy videos into concise summaries, facilitating efficient knowledge acquisition and review for users with limited time or attention spans.

The scalability and generalization of NLP models for summarization across diverse educational domains and languages remain areas of ongoing research. While these models demonstrate remarkable performance on certain datasets, their effectiveness may vary depending on the specific characteristics of the content and the language used.



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# Plant Disease Detection Using Machine Learning Techniques

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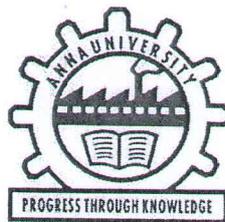
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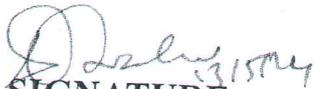
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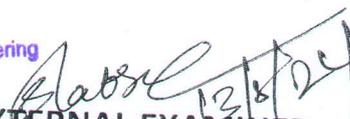
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## ABSTRACT

Plant diseases may have a major impact on food safety, also a considerable decline in agricultural product output. The great majority of automated systems developed thus far are based on digital pictures, allowing for the rapid deployment of algorithms. The difficulty of autonomous illness identification in plants has been solved using traditional machine learning approaches such as (SVM) support vector machines, Multilayer Perception Neural Networks, and Decision Trees. The focus of this article was on leaf plant disease. A new plant leaf disease detection technique has been developed that is based on a transfer learning methodology such as deep learning, where CNN is employed as a feature extractor and SVM is used for classification. A benchmark dataset called PlantVillage was used to assess the evaluation of the proposed model. The suggested model was examined and compared to current methodologies, and it outperformed previous work, achieving an 88.77 percent training accuracy.



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## Conclusion:

It is important to provide a more user-friendly, faster alternative to deep learning calculations, and produce better results with a shorter burning time. It is important to work on unsupervised learning toward supervised learning for unlabeled and labeled datasets. Moreover, we will investigate how non-supervised learning algorithms will affect the plant leaf disease detection.



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# AES-Shielded Image Vault

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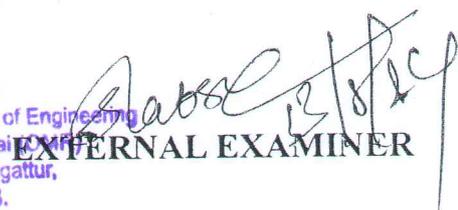
  
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## ABSTRACT

Visual Cryptography is an encryption technique where a secret image is encoded and divided into  $n$  meaningless images, called shares. These shares resemble black and white dots scattered randomly in an image, concealing any information about the original image. Each share is printed on transparent paper, and decryption is achieved by superimposing shares without the need for computer decryption algorithms.

When all  $n$  shares are overlapped, the original picture is revealed. A  $(k, n)$ -threshold visual cryptography involves generating  $n$  shares, with  $k$  being the minimum number of shares required to decrypt the original image. If fewer than  $k$  shares are provided to the decryption function, the output will not provide any clues about the original image.

In an integrated approach, a symmetric encryption algorithm like AES (Advanced Encryption Standard) can be employed for encryption and decryption within the visual cryptography framework. This enhances the security of the system by adding an additional layer of encryption to the shares, further safeguarding the secrecy of the original image.

Visual Cryptography is like a secret picture code. Imagine you have a picture, and you want to keep it safe from prying eyes. Instead of using a complex password, you break the picture into multiple pieces that look like random black and white dots. Each piece, when printed on a clear sheet, doesn't reveal anything about the original picture. But when you put all the pieces together, the original picture magically appears.



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## CHAPTER 6

### 6. CONCLUSIONS

In conclusion, the implementation of encryption and decryption systems is a multifaceted endeavor that demands meticulous attention to various technical, operational, and regulatory aspects. By delving deeper into each component, organizations can fortify their data security strategies and mitigate potential vulnerabilities effectively.

Firstly, the choice of encryption algorithms plays a pivotal role in determining the strength and resilience of the encryption system. Selecting algorithms like AES-256 for symmetric encryption or RSA-4096 for asymmetric encryption ensures robust protection against brute-force attacks and cryptographic vulnerabilities.

Additionally, adopting encryption algorithms that comply with industry standards and certifications, such as FIPS 140-2 for government agencies or ISO/IEC 27001 for information security management, bolsters the credibility and trustworthiness of the encryption implementation.

Key management emerges as a critical challenge in encryption systems, necessitating comprehensive strategies for key generation, storage, distribution, rotation, and revocation. Leveraging hardware security modules (HSMs) or secure key management services (KMS) enhances the security posture by safeguarding encryption keys against unauthorized access or theft. Implementing key lifecycle management practices, including regular audits, key expiration policies, and key escrow mechanisms, fosters resilience and continuity in key management operations.



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Moreover, encryption systems should integrate seamlessly with data integrity and authentication mechanisms to provide comprehensive data protection. Utilizing cryptographic hash functions like SHA-256 or SHA-3 ensures data integrity by detecting any unauthorized modifications or tampering attempts.

Concurrently, incorporating digital signatures based on asymmetric cryptography enhances data authentication and non-repudiation, affirming the origin and authenticity of encrypted data.

Addressing compliance and regulatory requirements constitutes another imperative facet of encryption system implementations. Organizations must align their encryption strategies with relevant data protection laws, industry regulations, and privacy frameworks such as GDPR, HIPAA, PCI DSS, or CCPA.

Adhering to encryption standards prescribed by regulatory bodies, implementing encryption controls for sensitive data handling, and documenting encryption practices in compliance documentation bolster organizational resilience against legal repercussions and data privacy breaches.

Furthermore, the seamless integration of encryption technologies with existing infrastructure, applications, and services optimizes operational efficiency and user experience. Leveraging encryption APIs, software development kits (SDKs), and encryption libraries simplifies encryption integration across diverse platforms and environments.

Collaborating with cloud service providers offering robust encryption capabilities and secure data storage options facilitates scalable and resilient encryption deployments.



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In essence, the successful implementation of encryption and decryption systems rests on a foundation of meticulous planning, comprehensive risk assessment, adherence to industry best practices, and continuous monitoring and improvement.

By embracing encryption as a fundamental pillar of cybersecurity, organizations can fortify their defense mechanisms, safeguard sensitive information, foster customer trust, and navigate the evolving landscape of cyber threats and regulatory challenges with resilience and confidence.



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**CryptoCom – Secure Communication  
Application with SecureEnhanced  
AES Encryption**

**A PROJECT REPORT**

*Submitted by*

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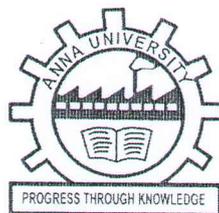
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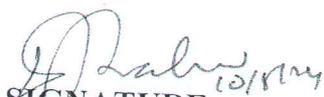
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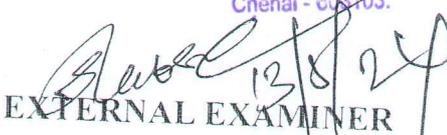
  
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## ABSTRACT

In today's interconnected world, ensuring the security and privacy of personal information is paramount. This project addresses this critical need by developing a sophisticated messaging application for Android devices, designed to provide users with a secure and reliable platform for exchanging messages. Leveraging the power of Firebase for authentication and real-time database management, the application offers seamless user registration and login processes while ensuring data integrity and confidentiality.

One of the key features of the application is its implementation of end-to-end encryption (E2EE) using the Secure Enhanced AES algorithm, which guarantees that messages exchanged between users are encrypted at the source and decrypted only by the intended recipient, thereby preventing unauthorized access and interception. By adopting this advanced encryption technique, the project aims to establish a trustworthy environment where users can communicate freely without compromising their privacy.

Furthermore, the project incorporates a user-friendly interface, prioritizing intuitive design principles and accessibility considerations to enhance the overall user experience. From the moment users log in, they are greeted with a streamlined interface that allows them to effortlessly navigate through the application's various features, including viewing their profile details, managing contacts, and initiating secure chats.



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## CHAPTER 9

### 9 CONCLUSION

In conclusion, this project represents a significant endeavour towards providing users with a secure and efficient messaging platform that prioritizes privacy and data security. Through the integration of advanced encryption techniques, such as Secure Enhanced AES, and robust authentication mechanisms, the application ensures that user communications remain confidential and protected from unauthorized access.

Throughout the development process, key milestones were achieved, including the successful implementation of essential features such as user authentication, encrypted messaging, and seamless user experience design. The rigorous testing and validation procedures conducted have validated the reliability and functionality of the application, confirming its suitability for real-world deployment.

Looking back at the project's objectives, it is evident that significant progress has been made in achieving the goals outlined at the outset. The successful integration of technologies such as Android Studio and Firebase has facilitated the development of a robust and scalable messaging application that meets the needs of modern users while adhering to stringent security standards.

In summary, this project has not only demonstrated the feasibility of building a secure messaging platform using contemporary technologies but has also laid the foundation for future enhancements and innovations in the realm of secure communication. By prioritizing user privacy, data security, and seamless user experience, this project sets a benchmark for the development of secure communication applications in the digital age.

  
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# E-WASTE TRADING NETWORK WITH BLOCKCHAIN INTEGRATION

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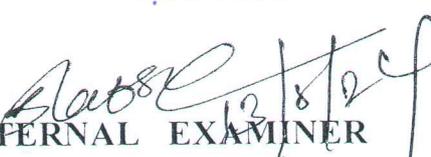
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## ABSTRACT

The generation of electronic waste (E-waste) has reached unprecedented levels, with electronic and smart devices contributing significantly to this problem. Mobile phones and other interconnected smart devices make a significant contribution to the generation of e-waste. To address these issues, this project proposes a distributed, trustless, and secure framework for managing electronic equipment in reverse logistics (RL) activities using blockchain technology. This focuses on the remanufacturing/refurbishing recovery option for electronic devices, and an autonomous and efficient back-end data sharing architecture based on smart contracts and blockchain is developed to track all the remanufacturing / refurbishing processes. Reverse logistics (RL) activities play an essential role in managing e-waste and further prolonging the life-cycle of equipment.

The project includes the integration of real time data collection on electronic waste, the utilization of smart contracts based on blockchain technology to enable transparent tracking and traceability, and the implementation of AI algorithms for identifying counterfeit or non-compliant waste.

The project aims to ensure compliance with recycling regulations and standards, engage stakeholders in responsible recycling practices, and assess the positive environmental impact of the framework. Through these efforts, the project seeks to enhance electronic waste management, promote sustainability, and mitigate the environmental and health risks associated with improper recycling practices



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## CHAPTER-5

### CONCLUSION AND FUTURE ENHANCEMENT

#### CONCLUSION:

The study proposes to develop blockchain platform is E-waste A blockchain enabled e-waste systems where all stakeholders can see and stream real time information about electronics and e-waste movement and easily track the non-compliance of e-waste rules. A blockchain enabled e-waste solution will promote an efficient and environment friendly e-waste management. Blockchain will definitely help towards better statistics on e-waste, eliminating the main data gaps and help measure the effectiveness of legislation to plan for potential improvements in the future. In this paper, we have presented an innovative traceability and auditability framework for RL activities of e-equipment, with a special focus on electronic devices. Based on blockchain technology and its intrinsic characteristics, we have tried to tackle emerging issues in mobile phones RL activities like safeguarding the chain-of-custody for all the remanufacturing/refurbishing activities taking place with a particular focus on managing retained user sensitive data. Also, we have provided a functional implementation through the use of a local private blockchain and various smart contracts.

#### FUTURE ENHANCEMENT:

As future work of the proposed model, the functions included can be improved further to bring reliability in the supply chain management.

1. **Integration of IoT Devices:** Incorporating Internet of Things (IoT) devices can provide real-time data on the condition and location of electronic waste. IoT sensors can monitor temperature, humidity, and other relevant parameters during transportation and recycling, ensuring optimal conditions and detecting



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any abnormalities. This integration can enhance the accuracy of tracking and improve the overall efficiency of the recycling process.

2. **Machine Learning and Artificial Intelligence:** By leveraging machine learning and artificial intelligence techniques, the system can analyze large amounts of data collected from the blockchain and other sources. These technologies can identify patterns, predict recycling outcomes, optimize the recycling process, and provide intelligent recommendations for waste management strategies. Machine learning algorithms can also help detect anomalies or potential counterfeit recycling attempts.
3. **Mobile Application and User Interface Enhancements:** Developing a user-friendly mobile application can enhance the user experience and make it more convenient for users to interact with the system. The application can allow users to easily initiate waste collection requests, track the status of their waste items, and access reports and insights on recycling performance. Improving the user interface of the system can increase user adoption and engagement.
4. **Integration with External Systems:** Integrating the system with external databases, recycling certification bodies, and regulatory authorities can facilitate seamless data exchange and ensure compliance with industry standards and regulations. This integration can enhance the accuracy of data verification and provide a comprehensive view of the entire recycling ecosystem.
5. **Expansion to Other Waste Types:** While the project primarily focuses on electronic waste, future enhancements can include the expansion to other types of waste, such as plastics, batteries, or hazardous materials.



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# THIRD EYE WEARABLE DEVICE FOR VISUALLY IMPAIRED

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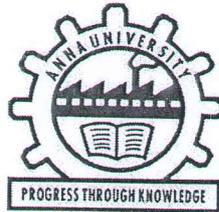
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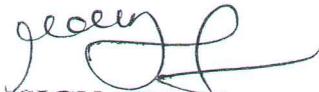
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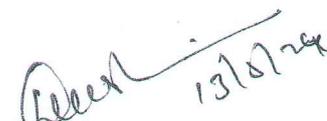
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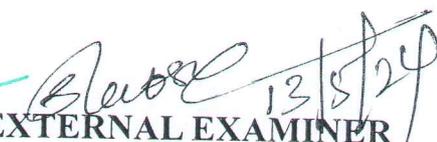
  
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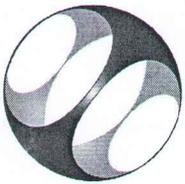
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Spoken Tutorial  
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# Certificate for the Completion of HTML Training

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## ABSTRACT

The "Artificial Vision System for the Visually Impaired" is an innovative solution utilizing state-of-the-art computer vision technologies to enhance the perceptual abilities of individuals with visual impairments. This system seamlessly integrates facial recognition, object detection, and optical character recognition (OCR), creating a sophisticated artificial visual interface.

Equipped with a web camera mounted on portable devices, the system proficiently identifies familiar faces, detects common objects, and converts printed text into audible speech. Serving as a vital tool for the visually impaired community, this technology addresses a critical need, fostering inclusivity, and significantly transforming the way individuals with visual impairments interact with their surroundings.

In summary, the "Artificial Vision System for the Visually Impaired" stands as a comprehensive and empowering solution, promoting independence and reshaping the daily experiences of those with visual impairments.

**Keywords**— Artificial Vision System, Visual Impairment, Computer Vision, Facial Recognition, Object Detection, OCR, Assistive Technology, Accessibility, Web Camera, Audible Speech, Independence, Innovative Solution.



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## 7.CONCLUSION:

In conclusion, the integration of face recognition, text recognition, and object detection technologies holds profound implications for the lives of visually impaired individuals, offering new avenues for accessibility, independence, and inclusion.

For visually impaired individuals, face recognition technology serves as a powerful tool for enhancing social interactions and personal safety. By accurately identifying individuals in real-time, these systems enable users to recognize familiar faces, navigate crowded environments, and engage in more meaningful social interactions.

Text recognition capabilities offer another layer of accessibility for visually impaired individuals, allowing them to access printed materials and digital content with greater ease and independence. By converting printed text into digital formats, OCR technology enables users to read books, documents, signs, and labels using specialized assistive devices or software applications.

Object detection technology plays a crucial role in enhancing the mobility and safety of visually impaired individuals, enabling them to navigate their surroundings with greater confidence and awareness. By detecting and identifying obstacles, hazards, and landmarks in real-time, these systems provide users with valuable auditory or haptic feedback to help them avoid collisions and navigate complex environments more effectively.



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# Vision Transformer Based Vision Enhancement for Visually Impaired Individuals

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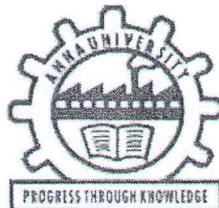
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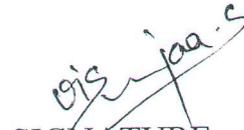
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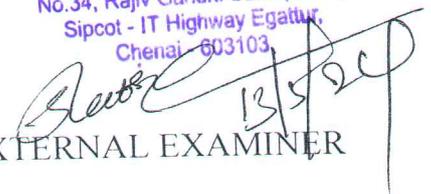
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## ABSTRACT

Visual implants are intended to produce an artificial vision leading to some levels of functional vision restoration. It uses 60 microelectrodes implanted in the retina and can improve the quality of life of visually impaired people by making them experience light even if they were in the dark for many years. Due to the limited number of microelectrodes of existing visual system stimulator, the artificial vision they permit has very low resolution. Many researchers have worked on improving the artificial vision created with low resolution implants by using image processing and machine vision algorithms. Users express dissatisfaction with the Retinal Prosthesis System due to the low resolution of phosphine images, highlighting the critical need for focused research to enhance visual clarity and improve overall user satisfaction. This project proposes a simulation of the artificial vision in which the information synthesized by the system to the visually impaired user using a visual Implants generated low resolution phosphene image. By employing Vision Transformer (ViT), the method extracts valuable information about individuals surrounding the visually impaired user, such as their count, familiarity, gender, estimated ages, facial emotions, surrounding objects and approximate distances. This data, derived from camera frames on the user's glasses, is utilized to generate signals fed into a visual stimulator, presenting a promising approach to enrich the visual experience for individuals with visual impairments. For each feature, an appropriate algorithm is selected based on its accuracy and time complexity to enable affordable real-time implementations in an autonomous portable system. The proposed system conveys important information about the people around a visually impaired person through audio and to make that person more comfortable to communicate with other people. Thus, this project can be considered for some next generation visual implant systems.

  
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## CHAPTER 8

### CONCLUSION

#### 8.1. Conclusion

In conclusion, the project aims to revolutionize the artificial vision experience for visually impaired individuals by integrating advanced technologies and innovative approaches. Through the implementation of Vision Transformer technology, real-time image processing algorithms, and information extraction techniques, the project endeavors to enhance accessibility, promote independence, and improve the overall quality of life for visually impaired users. By addressing key challenges such as limited access to information, navigation barriers, social interaction limitations, and educational and employment obstacles, the project seeks to empower visually impaired individuals to lead more fulfilling and independent lives. The integration of audio output with text-to-speech conversion ensures accessible feedback, while the validation with a simulated prosthetic vision and the feasibility analysis for everyday use further solidify the project's potential impact. This project not only aims to improve the daily lives of visually impaired individuals by providing a heightened artificial vision experience but also contributes to the broader field of artificial vision technologies. By fostering accessibility, independence, and user satisfaction, the project strives to set a benchmark for future innovations in visual implant systems. Moreover, by laying the groundwork for next-generation visual implant systems and exploring integration with existing visual implant technologies, the project sets the stage for continuous advancements in the field of artificial vision. Through user satisfaction assessments and feedback collection, the project aims to continually refine and improve the developed solutions to better meet the needs of visually impaired individuals.



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## CHAPTER 8

### CONCLUSION

#### 8.1. Conclusion

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# FINDING MISSING PERSON USING EMAIL SYSTEM

## A PROJECT REPORT

*Submitted by*

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311820205051

VINEETH BABA K B

311820205312

*In partial fulfillment for the award of the degree*

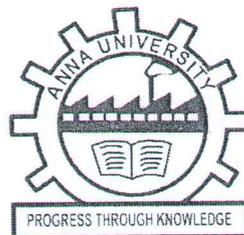
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**BACHELOR OF TECHNOLOGY**

*in*

**INFORMATION TECHNOLOGY**

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING.  
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**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2024**



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**BONAFIDE CERTIFICATE**

It is certified that this project report titled "FINDING MISSING PERSON USING EMAIL SYSTEM" is the bonafide work of "ZAMIL K (311020205051), VINEETH BABA K B (311820205312)" who carried out the project work under the supervision.

  
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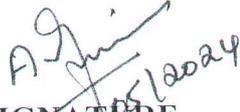
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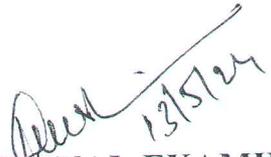
Mohamed Sathak A J College of

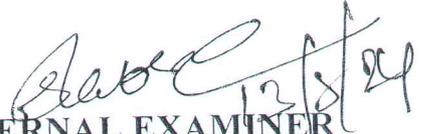
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Chennai - 603 103.

Submitted for the university practical examination held at **MOHAMED SATHAK A J COLLEGE OF ENGINEERING, CHENNAI** on 13/05/24.

  
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EXTERNAL EXAMINER

  
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## ABSTRACT

In the world, a countless number of people are missing every day which includes kids, teens, mentally challenged, old-aged people with Alzheimer's, etc. Most of them remain untraced. This paper proposes a system that would help the police and the public by accelerating the process of searching using face recognition. Face recognition technique can be used for many things and finding the missing person is a biggest advantage for any face recognition technique. To make the task of finding the missing person easier we are planning to make an application which will be accessed by some volunteers through which we can find missing person in short span of time. This will make the work of police to find a particular person easier. Meanwhile, there is a need of automation for automating the task of finding the particular person by recognizing particular image and comparing that image with other image in order to check whether both images has same characteristics or not. By doing this we will come to know whether the missing person in the image clicked from particular location is correct or not, and if it is correct then police can start their next steps to find the person from that area.



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## CHAPTER 7

### CONCLUSION AND FUTURE ENHANCEMENT

#### 7.1 CONCLUSION

In conclusion, the "Finding the Missing Person Using Face Match Making Algorithm with User and Admin Dashboard" project is a valuable tool for locating missing persons and enhancing public safety. The project utilizes advanced technologies such as facial recognition and machine learning algorithms to increase the accuracy and speed of the search process. By creating a database of known individuals and continuously updating it, the system is able to compare images of missing persons with potential matches, thus increasing the chances of locating the missing person. The user-friendly interface and admin dashboard make it easy for users to submit images of missing persons and for administrators to manage the system. The success of the project will be measured by its ability to locate missing persons and reunite them with their families. The project has the potential to revolutionize the way missing persons are located, and it represents a significant step forward in the use of technology for public safety. Overall, the "Finding the Missing Person Using Face Match Making Algorithm with User and Admin Dashboard" project is a valuable contribution to society, and it has the potential to save lives and bring peace of mind to families affected by missing persons.



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## 7.2 FUTURE ENHANCEMENTS

Finding missing persons using AI is a promising approach that can help locate and reunite missing individuals with their families. However, there is always room for improvement, and the following enhancements could be made to make the technology more effective and efficient:

**Improved accuracy:** The accuracy of AI models used for finding missing persons could be improved to reduce false positives and false negatives in identifying missing individuals.

**More data sources:** The technology could be expanded to include data from a wider range of sources, such as social media and surveillance cameras, to improve the accuracy of identifying missing persons.

**Real-time monitoring:** The technology could be developed to enable real-time monitoring of missing persons, enabling early detection and intervention.

**More comprehensive profiles:** The profiles of missing persons could be made more comprehensive, including information such as medical history, dental records, and tattoos, to improve the accuracy of identification.

**Integration with social services:** The technology could be integrated with social services, such as homeless shelters and mental health clinics, to improve the identification and care of missing individuals.

**User-friendly interface:** The user interface of the technology could be improved to make it more user-friendly and accessible for individuals and families searching for missing loved ones.



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**Mobile applications:** The technology could be developed into a mobile application that individuals can use to report missing persons and receive real-time updates on search efforts.

**Integration with law enforcement:** The technology could be integrated with law enforcement databases to improve communication and collaboration in the search for missing persons.

**Early warning systems:** The technology could be developed to provide early warning systems for individuals at high risk of going missing, such as those with cognitive impairments.

**Cloud-based processing:** The use of cloud-based processing could improve the speed and accuracy of AI models used for finding missing persons by offloading processing to more powerful servers.



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# Image Processing Software for Medicinal Plant Identification

A FINAL YEAR PROJECT REPORT

*Submitted by*

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MOHAMMD AFRITH R	311820205021
RAFIQ SHERIFF S	311820205034

*In partial fulfilment for the award of the degree  
of*

**BACHELOR OF TECHNOLOGY**

*in*

**INFORMATION TECHNOLOGY**

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**BONAFIDE CERTIFICATE**

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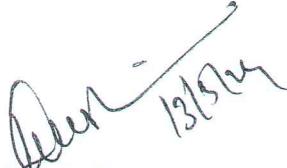
**Mr.J.H.HAMER SHIELD, M.E  
SUPERVISOR**

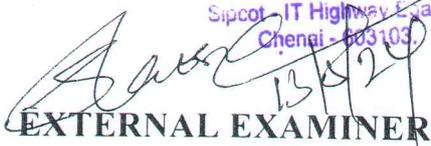
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**EXTERNAL EXAMINER**

## ABSTRACT

This project aims to develop image processing software using machine learning (ML) to identify medicinal plants, with the primary objective of enhancing authenticity and ensuring integrity in the medicinal plant supply chain. By leveraging advanced ML techniques, we seek to create a robust system capable of accurately identifying various medicinal plant species from images, thereby mitigating the risks associated with misidentification, substitution, and adulteration in the supply chain. Through this initiative, we aim to contribute to the promotion of quality assurance, traceability, and sustainability in the medicinal plant industry.

The software leverages cutting-edge computer vision algorithms and deep learning techniques to analyze botanical images and classify plant species based on their visual characteristics. Developed with the specific needs of researchers and botanists in mind, the software provides an intuitive user interface for uploading, processing, and analyzing plant images. Key features include automated image segmentation, feature extraction, and classification using pretrained models or customizable deep learning architectures. The software facilitates the rapid and accurate identification of medicinal plants, aiding in biodiversity conservation, herbal medicine research, and pharmacological studies. Its versatility and scalability make it a valuable tool for both academic research and industrial applications in the field of plant science and healthcare.



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## CHAPTER 10

### 10. CONCLUSION :

In conclusion, the development of image processing software for medicinal plant identification represents a significant advancement in the field of botanical sciences and healthcare. Through the integration of machine learning, computer vision, and domain expertise, our project aims to address critical challenges in the medicinal plant supply chain, including authenticity, traceability, and sustainability.

The image processing software offers a reliable and efficient solution for accurately identifying medicinal plant species from images, mitigating risks associated with misidentification, substitution, and adulteration. By leveraging advanced ML techniques and data-driven approaches, we can enhance the integrity and reliability of the medicinal plant trade, ensuring consumer safety and product quality.

Throughout the project, we have conducted thorough research, analysis, and design to develop a robust software system that meets the needs of researchers, botanists, and industry professionals. By incorporating user-friendly interfaces, scalable architectures, and rigorous testing methodologies, we have created a solution that is accessible, efficient, and reliable.

Looking ahead, there are numerous opportunities for further enhancement and innovation in the field of medicinal plant identification. By embracing emerging technologies, collaborating with stakeholders, and promoting interdisciplinary research, we can continue to advance the frontiers of botanical sciences and healthcare.

In conclusion, our project represents a significant step forward in promoting quality assurance, traceability, and sustainability in the medicinal plant industry. By fostering transparency, trust, and collaboration, we can create a safer, more reliable future for medicinal plant trade and contribute to the well-being of communities around the world



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CS8691

**ARTIFICIAL INTELLIGENCE**

L T P C  
3 0 0 3

**OBJECTIVES:**

- To understand the various characteristics of Intelligent agents
- To learn the different search strategies in AI
- To learn to represent knowledge in solving AI problems
- To understand the different ways of designing software agents
- To know about the various applications of AI.

**UNIT I INTRODUCTION**

9

Introduction–Definition - Future of Artificial Intelligence – Characteristics of Intelligent Agents– Typical Intelligent Agents – Problem Solving Approach to Typical AI problems.

**UNIT II PROBLEM SOLVING METHODS**

9

Problem solving Methods - Search Strategies- Uninformed - Informed - Heuristics - Local Search Algorithms and Optimization Problems - Searching with Partial Observations - Constraint Satisfaction Problems – Constraint Propagation - Backtracking Search - Game Playing - Optimal Decisions in Games – Alpha - Beta Pruning - Stochastic Games

**UNIT III KNOWLEDGE REPRESENTATION**

9

First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining-Backward Chaining – Resolution – Knowledge Representation - Ontological Engineering-Categories and Objects – Events - Mental Events and Mental Objects - Reasoning Systems for Categories - Reasoning with Default Information

**UNIT IV SOFTWARE AGENTS**

9

Architecture for Intelligent Agents – Agent communication – Negotiation and Bargaining – Argumentation among Agents – Trust and Reputation in Multi-agent systems.

**UNIT V APPLICATIONS**

9

AI applications – Language Models – Information Retrieval- Information Extraction – Natural Language Processing - Machine Translation – Speech Recognition – Robot – Hardware – Perception – Planning – Moving

**TOTAL :45 PERIODS**

**OUTCOMES:**

Upon completion of the course, the students will be able to:

- Use appropriate search algorithms for any AI problem
- Represent a problem using first order and predicate logic
- Provide the apt agent strategy to solve a given problem
- Design software agents to solve a problem
- Design applications for NLP that use Artificial Intelligence.

**TEXT BOOKS:**

- 1 S. Russell and P. Norvig, "Artificial Intelligence: A Modern Approach", Prentice Hall, Third Edition, 2009.
- 2 I. Bratko, "Prolog: Programming for Artificial Intelligence", Fourth edition, Addison-Wesley Educational Publishers Inc., 2011.

**REFERENCES:**

1. M. Tim Jones, "Artificial Intelligence: A Systems Approach(Computer Science)", Jones and Bartlett Publishers, Inc.; First Edition, 2008
2. Nils J. Nilsson, "The Quest for Artificial Intelligence", Cambridge University Press, 2009.
3. William F. Clocksin and Christopher S. Mellish," Programming in Prolog: Using the ISO Standard", Fifth Edition, Springer, 2003.
4. Gerhard Weiss, "Multi Agent Systems", Second Edition, MIT Press, 2013.
5. David L. Poole and Alan K. Mackworth, "Artificial Intelligence: Foundations of Computational Agents", Cambridge University Press, 2010.

  
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**OBJECTIVES:**

- To understand the need for machine learning for various problem solving
- To study the various supervised, semi-supervised and unsupervised learning algorithms in machine learning
- To understand the latest trends in machine learning
- To design appropriate machine learning algorithms for problem solving

**UNIT I INTRODUCTION**

9

Learning Problems – Perspectives and Issues – Concept Learning – Version Spaces and Candidate Eliminations – Inductive bias – Decision Tree learning – Representation – Algorithm – Heuristic Space Search.

**UNIT II NEURAL NETWORKS AND GENETIC ALGORITHMS**

9

Neural Network Representation – Problems – Perceptrons – Multilayer Networks and Back Propagation Algorithms – Advanced Topics – Genetic Algorithms – Hypothesis Space Search – Genetic Programming – Models of Evaluation and Learning.

**UNIT III BAYESIAN AND COMPUTATIONAL LEARNING**

9

Bayes Theorem – Concept Learning – Maximum Likelihood – Minimum Description Length Principle – Bayes Optimal Classifier – Gibbs Algorithm – Naïve Bayes Classifier – Bayesian Belief Network – EM Algorithm – Probability Learning – Sample Complexity – Finite and Infinite Hypothesis Spaces – Mistake Bound Model.

**UNIT IV INSTANT BASED LEARNING**

9

K- Nearest Neighbour Learning – Locally weighted Regression – Radial Basis Functions – Case Based Learning.

**UNIT V ADVANCED LEARNING**

9

Learning Sets of Rules – Sequential Covering Algorithm – Learning Rule Set – First Order Rules – Sets of First Order Rules – Induction on Inverted Deduction – Inverting Resolution – Analytical Learning – Perfect Domain Theories – Explanation Base Learning – FOCL Algorithm – Reinforcement Learning – Task – Q-Learning – Temporal Difference Learning

**TOTAL :45 PERIODS****OUTCOMES:**

**At the end of the course, the students will be able to**

- Differentiate between supervised, unsupervised, semi-supervised machine learning approaches
- Discuss the decision tree algorithm and identify and overcome the problem of overfitting
- Discuss and apply the back propagation algorithm and genetic algorithms to various problems
- Apply the Bayesian concepts to machine learning
- Analyse and suggest appropriate machine learning approaches for various types of problems

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**TEXT BOOK:**

1. Tom M. Mitchell, "Machine Learning", McGraw-Hill Education (India) Private Limited, 2013.

**REFERENCES:**

1. Ethem Alpaydin, "Introduction to Machine Learning (Adaptive Computation and Machine Learning)", The MIT Press 2004.
2. Stephen Marsland, "Machine Learning: An Algorithmic Perspective", CRC Press, 2009.

CS8792

**CRYPTOGRAPHY AND NETWORK SECURITY**

L T P C  
3 0 0 3

**OBJECTIVES:**

- To understand Cryptography Theories, Algorithms and Systems.
- To understand necessary Approaches and Techniques to build protection mechanisms in order to secure computer networks.

**UNIT I INTRODUCTION**

9

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security – Security attacks, services and mechanisms – OSI security architecture – Classical encryption techniques: substitution techniques, transposition techniques, steganography- Foundations of modern cryptography: perfect security – information theory – product cryptosystem – cryptanalysis.

**UNIT II SYMMETRIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF SYMMETRIC KEY CRYPTOGRAPHY: Algebraic structures - Modular arithmetic-Euclid's algorithm- Congruence and matrices - Groups, Rings, Fields- Finite fields- SYMMETRIC KEY CIPHERS: SDES – Block cipher Principles of DES – Strength of DES – Differential and linear cryptanalysis - Block cipher design principles – Block cipher mode of operation – Evaluation criteria for AES – Advanced Encryption Standard - RC4 – Key distribution.

**UNIT III PUBLIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF ASYMMETRIC KEY CRYPTOGRAPHY: Primes – Primality Testing – Factorization – Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem – Exponentiation and logarithm - ASYMMETRIC KEY CIPHERS: RSA cryptosystem – Key distribution – Key management – Diffie Hellman key exchange - ElGamal cryptosystem – Elliptic curve arithmetic-Elliptic curve cryptography.

**UNIT IV MESSAGE AUTHENTICATION AND INTEGRITY**

9

Authentication requirement – Authentication function – MAC – Hash function – Security of hash function and MAC – SHA – Digital signature and authentication protocols – DSS- Entity Authentication: Biometrics, Passwords, Challenge Response protocols- Authentication applications - Kerberos, X.509

**UNIT V SECURITY PRACTICE AND SYSTEM SECURITY**

9

Electronic Mail security – PGP, S/MIME – IP security – Web Security - SYSTEM SECURITY: Intruders – Malicious software – viruses – Firewalls.

**TOTAL 45 PERIODS**

**OUTCOMES:**

**At the end of the course, the student should be able to:**

- Understand the fundamentals of networks security, security architecture, threats and vulnerabilities
- Apply the different cryptographic operations of symmetric cryptographic algorithms
- Apply the different cryptographic operations of public key cryptography
- Apply the various Authentication schemes to simulate different applications
- Understand various Security practices and System security standards

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**TEXT BOOK:**

1. William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.

**REFERENCES:**

1. C K Shyamala, N Harini and Dr. T R Padmanabhan: Cryptography and Network Security, Wiley India Pvt.Ltd
2. Behrouz A. Foruzan, Cryptography and Network Security, Tata McGraw Hill 2007.
3. Charlie Kaufman, Radia Perlman, and Mike Speciner, Network Security: PRIVATE Communication in a PUBLIC World, Prentice Hall, ISBN 0-13-046019-2

**OBJECTIVES:**

- To understand the concept of cloud computing.
- To appreciate the evolution of cloud from the existing technologies.
- To have knowledge on the various issues in cloud computing.
- To be familiar with the lead players in cloud.
- To appreciate the emergence of cloud as the next generation computing paradigm.

**UNIT I INTRODUCTION**

9

Introduction to Cloud Computing – Definition of Cloud – Evolution of Cloud Computing – Underlying Principles of Parallel and Distributed Computing – Cloud Characteristics – Elasticity in Cloud – On-demand Provisioning.

**UNIT II CLOUD ENABLING TECHNOLOGIES**

10

Service Oriented Architecture – REST and Systems of Systems – Web Services – Publish-Subscribe Model – Basics of Virtualization – Types of Virtualization – Implementation Levels of Virtualization – Virtualization Structures – Tools and Mechanisms – Virtualization of CPU – Memory – I/O Devices – Virtualization Support and Disaster Recovery.

**UNIT III CLOUD ARCHITECTURE, SERVICES AND STORAGE**

8

Layered Cloud Architecture Design – NIST Cloud Computing Reference Architecture – Public, Private and Hybrid Clouds - IaaS – PaaS – SaaS – Architectural Design Challenges – Cloud Storage – Storage-as-a-Service – Advantages of Cloud Storage – Cloud Storage Providers – S3.

**UNIT IV RESOURCE MANAGEMENT AND SECURITY IN CLOUD**

10

Inter Cloud Resource Management – Resource Provisioning and Resource Provisioning Methods – Global Exchange of Cloud Resources – Security Overview – Cloud Security Challenges – Software-as-a-Service Security – Security Governance – Virtual Machine Security – IAM – Security Standards.

**UNIT V CLOUD TECHNOLOGIES AND ADVANCEMENTS**

8

Hadoop – MapReduce – Virtual Box – Google App Engine – Programming Environment for Google App Engine – Open Stack – Federation in the Cloud – Four Levels of Federation – Federated Services and Applications – Future of Federation.

**OUTCOMES:****TOTAL: 45 PERIODS**

**On Completion of the course, the students should be able to:**

- Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
- Learn the key and enabling technologies that help in the development of cloud.
- Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
- Explain the core issues of cloud computing such as resource management and security.
- Be able to install and use current cloud technologies.
- Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.

**TEXT BOOKS:**

1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
2. Rittinghouse, John W., and James F. Ransome, "Cloud Computing: Implementation, Management and Security", CRC Press, 2017.

**REFERENCES:**

1. Rajkumar Buyya, Christian Vecchiola, S. ThamaraiSelvi, "Mastering Cloud Computing", Tata Mcgraw Hill, 2013.
2. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing - A Practical Approach", Tata Mcgraw Hill, 2009.
3. George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud: Transactional Systems for EC2 and Beyond (Theory in Practice)", O'Reilly, 2009.

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**Deep Learning Based Segmentation in Classification of  
Alzheimer's Disease**

**A PROJECT REPORT**

*Submitted by*

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*In partial fulfillment for the award of the degree*

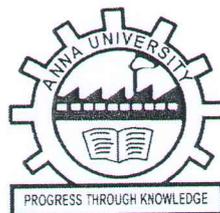
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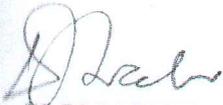
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**MAY 2024**

## BONAFIDE CERTIFICATE

Certified that this project report titled “Deep Learning Based Segmentation in Classification of Alzheimer’s Disease” is the bonafide work of "MUHAMMED MIDLAJ A C (311820205026), NANDHINI R (311820205027), RAHIMUNNISA S (311820205035)" who carried out the project work under my supervision.

  
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## ABSTRACT

Alzheimer's disease is a progressive neurodegenerative disorder characterized by contributing to improved patient care and outcomes. Then, design a CNN architecture with convolutional layers to automatically learn relevant features. Train the model using labeled data, where images are segmented into regions of interest. Fine-tune hyperparameters to optimize performance. cognitive decline and memory loss. Early detection of Alzheimer's disease is crucial for timely intervention and management. This abstract presents a matlab-based software tool designed to aid in the analysis and diagnosis of Alzheimer's disease. The tool utilizes various machine learning algorithms and image processing techniques to analyze medical imaging data such as magnetic resonance imaging(MRI) and positron emission tomography (PET) scans. It incorporates features for image preprocessing, segmentation of brain structures, and extraction of relevant biomarkers indicative of Alzheimer's disease progression. Additionally, the tool offers visualization capabilities to facilitate the interpretation of results and the communication of findings to healthcare professionals. Through the integration of advanced computational methods, this software tool aims to enhance the accuracy and efficiency of Alzheimer's disease diagnosis, ultimately During inference, input a new MRI image, and the trained CNN will segment brain regions. Extract features from segmented regions and feed them into a classification layer.

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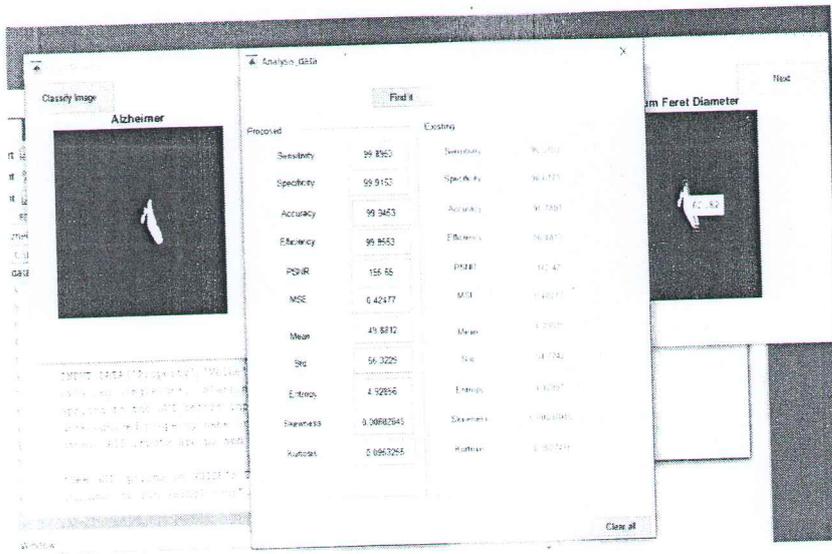


Figure 5.4 Analysis data

## CHAPTER 6

### 6.CONCLUSION AND FUTURE ENHANCEMENTS

#### 6.1 Conclusion

In conclusion, the MATLAB-based software tool developed for the analysis and diagnosis of Alzheimer's disease (AD) represents a significant advancement in the field of neuroimaging and computational healthcare. By integrating state-of-the-art machine learning algorithms and image processing techniques, the system offers clinicians a powerful tool for early detection and intervention in AD cases. The system's modular architecture, encompassing image preprocessing, brain structure

  
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segmentation, biomarker extraction, and machine learning model development, enables accurate and efficient analysis of diverse imaging datasets. Furthermore, the emphasis on user-friendliness and interpretability ensures that healthcare professionals can confidently interpret and communicate diagnostic results, facilitating informed decision-making and personalized patient care. Moving forward, continued research and development efforts will focus on further improving the system's performance, scalability, and clinical utility. Ultimately, the proposed software tool holds great promise for enhancing the accuracy, efficiency, and accessibility of AD diagnosis, thereby contributing to improved patient outcomes and quality of life.

## 6.2 Future Enhancements

Future enhancements to the proposed system could focus on several key areas to further improve its capabilities and utility in the diagnosis and management of Alzheimer's disease. One avenue for enhancement is the incorporation of multimodal imaging data, including not only MRI and PET scans but also other imaging modalities such as functional MRI (fMRI), diffusion tensor imaging (DTI), and amyloid imaging. Integrating information from multiple imaging modalities can provide complementary insights into AD pathology, allowing for more comprehensive analysis and potentially improving diagnostic accuracy.

  
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