# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IN ASSOCIATION WITH

## ROBOTICS & ARTIFICIAL INTELLIGENCE CLUB

PRESENTS

# upagraha 21

## 07 - 05 - 2021

**CRYPTO'EM**

**MIND DRILL**

**PAPER PRESENTATION**

**SHARK TANK**

**TECH JAM**

**OUR SPONSOR**

**FOR REGISTRATION VISIT**

🌐 **upagraha.info**

**CHIEF PATRON**
DR. M. SIVANANDHAM, SECRETARY, SVEHT

**PATRON**
DR. S. GANESH VAIDYANATHAN, PRINCIPAL

**CONVENOR**
DR. S. MUTHUKUMAR, PROFESSOR & HOD, ECE

**CO-ORDINATORS**
MS.T.J.JEYAPRABHA,ASSISTANT PROFESSOR,ECE
MR.G.LOGANATHAN,ASSISTANT PROFESSOR,ECE

# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

In Association with

## ROBOTICS & ARTIFICIAL INTELLIGENCE CLUB

Solicit your esteemed presence for the INAUGURAL CEREMONY
Of

# UPAGRAHA'21

(A NATIONAL LEVEL  ONLINE TECHNICAL SYMPOSIUM)
07.05.2021

Guest of Honour
Dr.S.Muthukumar
HOD ECE Department,
Sri Venkateswara College of Engineering

Venue : Google Meet
**Click here to join the meet**
Date : 07.05.2021
TIME : 8.30 a.m - 9.00 a.m

# SRI VENKATESWARA COLLEGE OF ENGINEERING
## Pennalur,Sriperumbudur Taluk - 602117

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
### In Association with
## ROBOTICS & ARTIFICIAL INTELLIGENCE CLUB

**UPAGRAHA'21**
**(A NATIONAL LEVEL ONLINE TECHNICAL SYMPOSIUM)**
**07.05.2021**

**AGENDA:**

08.30 am : 08.40 am : Welcome address by Pooja Ramesh, Secretary, ECEA
08.40 am : 09.00 am : Address of gathering by Dr.S.Muthukumar, HOD, ECE Dept
09.00 am : 11.30 am : Mind drill
11.30 am : 01.00 pm : Crypto'em
01.00 pm : 04.00 pm : Paper presentation
02.30 pm : 04.00 pm : TECH JAM
02.30 pm : 04.00 pm : Shark tank
05.00 pm : 05.05 pm : Welcome address by Rahul B, Executive Member, RAIC
05.05 pm : 05.20 pm : Prize winners announcement by Dr.S.Muthukumar, HOD, ECE, Dept
05.20 pm : 05.30 pm : Vote of Thanks by Madhumitha.V, Executive Member, RAIC

Audience : All Participants of Upagraha'21 event & ECEA,RAIC office bearers.


Dr.S.Muthukumar                                      Mrs.T.J.Jeyaprabha
 (HOD-ECE)                                  (ECEA, IETE-SF, RAIC INCHARGE)


                                             Mr.G.Loganathan
                                             (ECEA Co-ordinator)

# SRI VENKATESWARA COLLEGE OF ENGINEERING
## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

In association with

ROBOTICS & ARTIFICIAL INTELLIGENCE CLUB

# UPAGRAHA'21

(7th May 2021)

In association with Robotics and Artificial Intelligence Club, the ECE Association of SVCE organized a one-day online inter-college national level technical symposium event UPAGRAHA'21. Participants from various colleges around Tamil Nadu actively took part in the events.

Some colleges include **SKR Engineering college, Panimalar Institute of Technology, Presidency University, GRT Institute of Engineering and Technology, SKR Engineering College, Hindustan Institute of Technology and Science, Rajalakshmi Engineering College, VIT Chennai, Velammal College of Engineering and Technology, Mepco Schlenk Engineering College, Sivakasi, Dayananda Sagar College Of Engineering, Rajalakshmi Engineering College, KCG College OF Technology, IFET College of Engineering, Bannari Amman Institute of Technology, R.M.D Engineering College.**

There were 5 events under this banner namely:

- Crypto'em
- Mind drill
- Tech jam
- Paper presentation
- Shark tank

## INAUGURAL CEREMONY:

The inaugural event commenced at 08.30 am with Pooja Ramesh, the secretary of the ECEA delivering the welcome address and Niranjan S, the treasurer of ECEA presenting the inaugural banner, followed by the inaugural address presented by Dr.S.Muthukumar, HOD-ECE Dept. He encouraged the organisers to conduct more such technical events in the future and the faculty coordinators Ms.T.J Jeyaprabha and Mr.Loganathan wished the participants best of luck. The inaugural event concluded by 09:00 am.



**(Inaugural Ceremony)**

# Crypto'em:

There were a total of 134 registrations, where the participants were to perform as an individual. The rules to be followed and the event timings were notified to the participants a day before. The link for the test portals and other information regarding the event were conveyed simultaneously throughout the event through WhatsApp groups and Emails.

**Round 1:** Decrypting the cryptographic puzzles

This round consisted of 20 questions and was a combination of multiple-choice questions and filling in the missing blanks. The test was hosted in the online portal named Test Portal. The candidates were given a time limit of 20 minutes.

**Round 2**: Coding the Ciphers

This round comprised 4 coding questions, where the participants had to decode the ciphers within a time span of 45 minutes. This round was hosted in the Hackerrank portal.

The results of the successive rounds were declared through mails within 10 minutes and were also personally intimated. They were given a preparation time of 30 minutes between the commencement of each round. The questions are completely based on cracking the cipher first and then coding for the same. The questions were set on higher RBT levels by the mentors to test spontaneity, understanding of concepts, evaluation, and analysis of the problems of the contestants. And at last, they were judged on their scores amidst their competitors. The results of the 1st round were declared at 11:55 am and around 29 contestants who obtained a minimum of 75% were selected for the next round.

The second round started at 12:40 am. Around 3 participants were shortlisted as winners. The participants were given an option to code in languages like C, C++, Python, Java, Kotlin, and Go. They were evaluated based on the number of test cases they solved for each question and the time in which they completed each question. And finally, the winners were announced by 5.00 p.m through the valedictory. The final round depicted the essence of the competition.

**WINNERS:**

**1st Place:**
**Name:** DURGA G
**Department:** Electronics and Communication Engineering
**College**: Sri Venkateswara College of Engineering

**2nd Place:**
**Name**: SANTHOSH TK
**Department**: Electronics and Communication Engineering
**College**: Velammal College Of Engineering and Technology



**(OFFICIAL POSTER)**

# Mind drill:

The main idea of the mind drill event was to evaluate the knowledge of students in implementing and designing circuits.

**Round 1:**

The first round was a quiz that dealt with basic electronics topics. The first round commenced at 9:00 am and ended at 11:30 am. There were about 78 participants in the first round. Based on the scores, 44 participants were shortlisted for the second round.

**Round 2:**

The second round was also a quiz round which dealt with the basics of circuit designing. Based on the score obtained 15 participants were shortlisted for the third round.

**Round 3:**

The third round was a circuit designing round. Questions along with the components that were required to design the circuit were sent to the shortlisted participants. Participants were asked to send their circuit designs in a pdf document to the ECE association mail-id. Based on the scores given by the judges, the winners were finalized.

**WINNERS:**

**1st place:** Karthik Rajagopal -2nd year- SVCE

**2nd place:** B.Gayathri -2nd year- SVCE

**3rd place:** Sambhav Keshari -2nd year-VIT-ECM(SENSE)

**JUDGES:**

1.)Mrs.C.Gomatheeswari Preethika, Asst.Prof, ECE Dept

2.)Mr.G.Loganathan, Asst.Prof, ECE Dept

3.)Mr.N.Sathish, Asst.Prof, ECE Dept



**(OFFICIAL POSTER)**

# TECH JAM

In Tech Jam there were a total of 34 registrations from different colleges. The event consists of two rounds. The event commenced at 2:30 pm and ended at 04:00 pm. The event dealt with basic technological advancement topics.

## ROUND 1:

**Rules:**
- Each participant was given a technical topic on which they have to talk for a minute.
- 30 seconds of preparation time was provided for every participant.
- Based on spontaneity, subject knowledge, and fluency, the students were shortlisted for the 2nd round.

## JUDGES:

1.)Mr. Sudesh Kumar, Final year, ECE.

2.)Mr. Thejesh Chandar, Final year, ECE.

## EVENT PLATFORM: GOOGLE MEET

Round 1 was conducted in two different slots judged by  Mr. Sudesh (Final Year ECE-C) and Mr. Thejesh (Final Year ECE-C).
A total of 8 participants were filtered and shortlisted for the next round based on the Scores.



**(SCREENSHOTS TAKEN DURING ROUND 1)**

# ROUND 2:

## Rules:

- The participant has to defend and oppose the given topic for 2 minutes. Each time they hear the buzzer , they will have to switch sides accordingly.

- 1 minute was given to each participant to prepare.

## JUDGE:

1.)Mrs. L Anju , Assistant professor , ECE.

## EVENT PLATFORM: GOOGLE MEET

A total of 8 participants were judged by Mrs. Anju and the winners were filtered based on the scores.



**(SCREENSHOTS TAKEN DURING ROUND 2)**

**RESULTS:**

**1ST PLACE:** Meer Thahir - SVCE - 1st year

**2ND PLACE:** S.Justin Kiran Kumar - SVCE - 1st year

**3RD PLACE :** Pooja. V - SVCE - 1st year

**OFFICIAL POSTER:**

# PAPER PRESENTATION

In the Paper presentation event, there were a total of 29 teams registered for the event from different colleges. The event commenced at 1:30 pm and ended at 03:30 pm. This event evaluated the presentation and research skills of students.

**VENUE:** Google Meet

**TIMINGS:** 1:00 P.M-4:00 P.M

**SELECTION PROCESS:** A total of 29 abstracts were received for the event, out of which 13 abstracts were selected.

The teams were given 10 minutes for presenting their idea and approximately 5 minutes for viva voce.

**The scores were given based on five criterias:-**
1. The originality of the idea
2. Technical knowledge
3. Fluency of content delivery
4. Societal Relevance/Benefit
5. Viva Voce

**JUDGES:**

1. Mrs K. S. Subhashini,Asst.Prof,ECE Dept

2. Dr. B. Ashvanth,Asst.Prof,ECE Dept

3. Mr A. R. Guru Gokul,Asst.Prof,IT Dept

4. Mr S. R. Balasubramaniam,Asst.Prof,ECE Dept

5. Mrs K. Srividhya,Asst.Prof,ECE Dept

6. Ms P. Leela Rani,Asst.Prof,IT Dept

**WINNERS:**

| Place | Title of presentation | Presenters | Year & Dept | College |
|---|---|---|---|---|
| 1 | Use of Seismic Noise Interferometry to Monitor Volcanic Whispers in order to Forecast Volcanic Eruption | 1)Mohamed Farooq I 2)Megha K 3)Mohammed Hamza | III & ECE | Meenakshi Sundararajan Engineering College |
| 2 | Smart Trashing with IoT and Cloud | Smith S Trivedi | IV & IT | Loyola ICAM College of Engineering and Technology |
| 3 | Design of Automatic Hand Sanitizer System Compatible with Various Containers | 1)M. B. Diviya Bhavaani 2)S Loganayagi | II & EE | Sri Venkateswara College of Engineering |
| 3 | Obstacle Detecting Voice-Controlled Bluetooth Car | 1)S Sai Santhosh 2)S Priya Darshini | III & ECE | Sri Venkateswara College of Engineering |
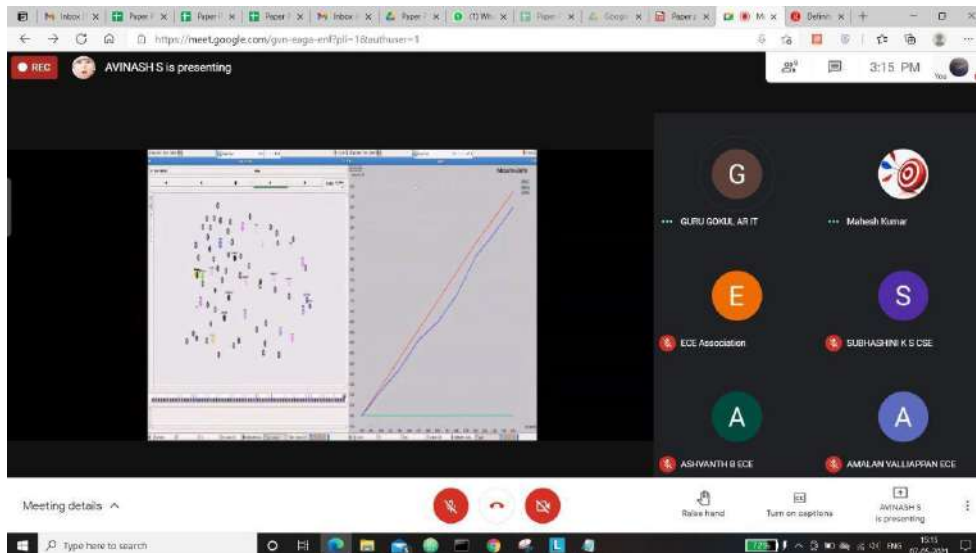
**(SCREENSHOT TAKEN DURING THE EVENT)**

**OFFICIAL POSTER:**
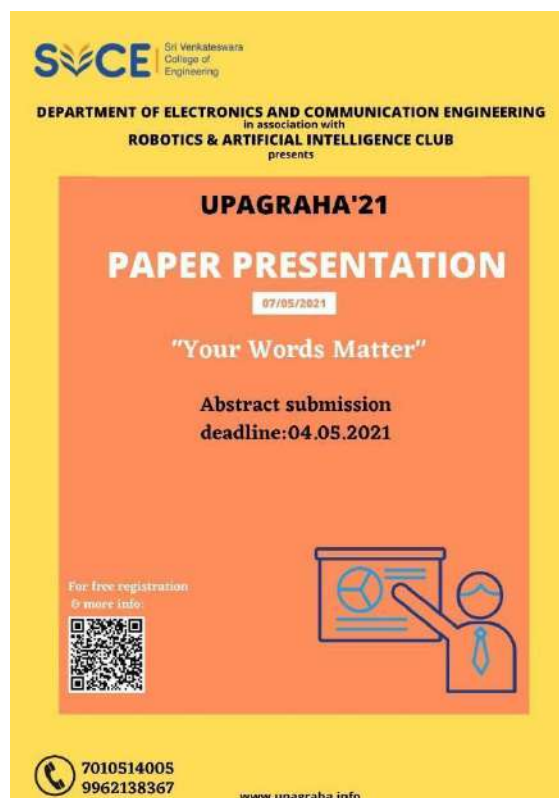
# SHARK TANK:

The main idea of the event was to evaluate the knowledge of students in marketing and technical knowledge of each team. The event commenced at 2:30 P.M. and ended at 4:00 P.M.

## Round 1:

The first round was abstract submission. There were about 14 teams in the first round. Based on the abstracts submitted by each team 9 teams were shortlisted for the second round.

## Round 2:

The second round was to pitch their idea on the google meet platform respective to the abstracts submitted during round 1. The teams were given 6 minutes for presenting their idea to the judges and approximately 4 minutes for viva voice. Based on the score obtained by the nine teams in the second round, the winners list was announced during the valedictory of UPAGRAHA' 21.

## The scores were given based on five criteriaS:

1.    Creativity

2.    Technical knowledge

3.    Fluency of content delivery

4.    Marketing Skill Set

5.    Innovation
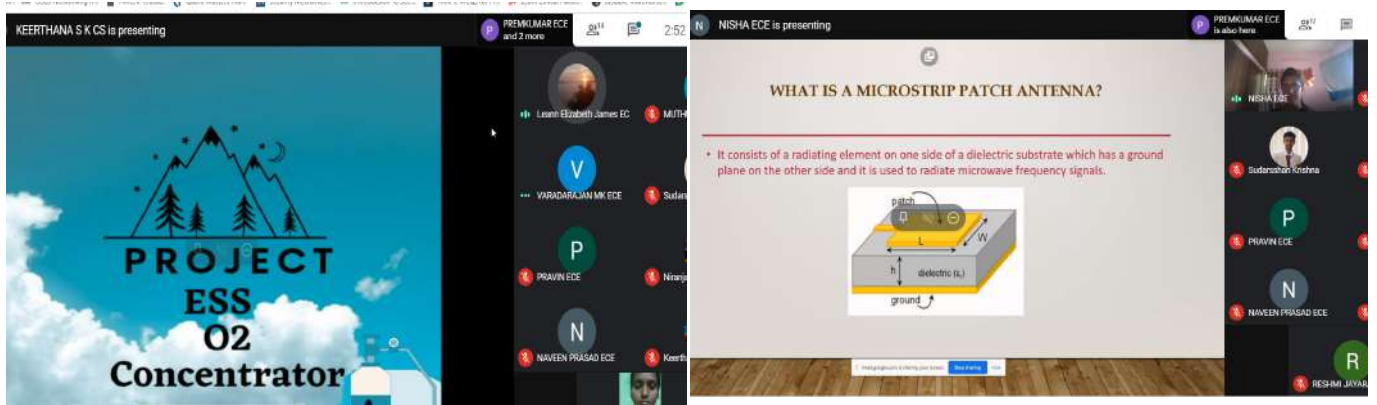
**(SCREENSHOTS TAKEN DURING THE EVENT)**

**OFFICIAL POSTER:**

**WINNERS:**

| Place | TITLE OF PRESENTATION | PRESENTERS | YEAR & DEPT | COLLEGE |
|-------|----------------------|------------|-------------|---------|
| 1 | Smart NLP Service Vertical 6 | 1) Smith S Trivedi | IV & IT | Loyola ICAM College of Engineering and Technology |
| 2 | Online AI Voting System | 1) Thaarun G Srivatsav<br>2) HariKrishnan B | III & IT | Srisairam Engineering College |
| 3 | Design of Multiband Microstrip Patch | 1) Nisha S | IV & ECE | Sri Venkateswara College of Engineering |

**JUDGES:**

1) Mr. P.Muthukumaran, Asst.Prof, ECE Dept
2) Mr. Sudarsshan krishna, (Alumnus of SVCE - 2020)

**FACULTY INCHARGE – ECEA**

1. Ms.T.J.Jeyaprabha, Asst.Prof, ECE Dept
2. Mr.G.Loganathan, Asst.Prof, ECE Dept
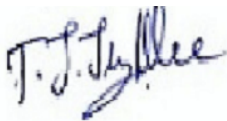
**OFFICE BEARERS - ECE ASSOCIATION(2020-2021)**

1. **President** - **PIYUSH M** (FINAL YEAR ECE B)

2. **Vice President** - **ANVITA ASHOK KUMAR** (FINAL YEAR ECE A)
   **THEJESH RAO J C** (FINAL YEAR ECE C)

3. **Secretary** - **POOJA RAMESH** (THIRD YEAR ECE B)

4. **Treasurer** - **NIRANJAN S** (THIRD YEAR ECE B)

5. **Joint Secretary** - **R.GOKUL** (SECOND YEAR ECE A)
   **KISHORE M** (SECOND YEAR ECE B)
   **SUBHASHREE BASKARAN** (SECOND YEAR ECE C)

6. **Executive Member** - **AMALAN VALLIAPPAN M P** (THIRD YEAR ECE A)
   **FIONA J P J** (THIRD YEAR ECE A)
   **S KULANDAIYAN** (THIRD YEAR ECE B)
   **RESHMI JAYARAJAN** (THIRD YEAR ECE B)
   **SRIVARSHINI** (THIRD YEAR ECE C)
   **VIGNESH M** (THIRD YEAR ECE C)

**OFFICE BEARERS - RAIC (2020-21)**

1. **President** - **SUDESH KUMAR S** (FINAL YEAR

2. **Secretary** - **SANDEEP PAI K** (FINAL YEAR ECE C)

3. **Joint Secretary** - **SUSHMA K** (FINAL YEAR ECE C)

4. **Executive Member** - **V MADHUMITHA** (THIRD YEAR ECE B)

   **RAHUL B** (THIRD YEAR ECE B)

# RAIC MENTORS - ECE DEPT (2020-21)

1. S PREMRAJ (FINAL YEAR B)

2. MADHUMITHA S (THIRD YEAR B)

3. VISHNUSAI R (THIRD YEAR C)

4. HARSHITHAH K S (THIRD YEAR A)

5. MONICA (THIRD YEAR B)

Co-ordinator

Head of the Department
Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Sriperumbudur - 602 117, India

**(2017-2021 batch)**

| Sl. No. | University / College Roll No | First Name | |
|---|---|---|---|
| 1 | 170701001 | Aakash K.S.J. | ECE |
| 2 | 170701004 | Abirami Sivakumar | ECE |
| 3 | 170701007 | Afridha M | ECE |
| 4 | 170701008 | Agela M | ECE |
| 5 | 170701010 | Ajgith Krishnan | ECE |
| 6 | 170701012 | AKSHAYA C. R | ECE |
| 7 | 170701016 | Anirudh Balaji | ECE |
| 8 | 170701017 | Anusmrthi J | ECE |
| 9 | 170701018 | Anvita Ashokkumar | ECE |
| 10 | 170701023 | Balaji M | ECE |
| 11 | 170701024 | Baskar Ganesarajaram | ECE |
| 12 | 170701026 | Bhuvaneswari Chandrasekaran | ECE |
| 13 | 170701028 | DEEPAN R | ECE |
| 14 | 170701029 | Dhanush kumar D | ECE |
| 15 | 170701030 | Dharmasurya A | ECE |
| 16 | 170701031 | Dhinesh Thyagarajan | ECE |
| 17 | 170701032 | DHYANESHWARAN N V | ECE |
| 18 | 170701036 | Gokulakrishnan K | ECE |
| 19 | 170701038 | S Gopalakrishnan Sundaramurthy | ECE |
| 20 | 170701040 | GUNDU PRAKASHAM Haranraj | ECE |
| 21 | 170701042 | Harini Sivakumar | ECE |
| 22 | 170701043 | Harish Damodharan | ECE |
| 23 | 170701045 | Hema Priya M | ECE |
| 24 | 170701047 | JAGADEESHWARI S | ECE |
| 25 | 170701048 | Jailesh Perumal S | ECE |
| 26 | 170701049 | Jayanth Subramanian Saravanan | ECE |
| 27 | 170701050 | Jayashree J N | ECE |
| 28 | 170701055 | KAMALI N | ECE |
| 29 | 170701056 | Kamesh V | ECE |
| 30 | 170701058 | Kavwin Kailash N | ECE |
| 31 | 170701059 | Kavya E | ECE |
| 32 | 170701060 | KEERTHANA LAKSHMI KESAVAN | ECE |
| 33 | 170701061 | Keerthana Ramesh sankar | ECE |
| 34 | 170701062 | Keerthi Raj Dillibabu | ECE |
| 35 | 170701063 | Keshav E | ECE |
| 36 | 170701064 | Keslin M | ECE |
| 37 | 170701068 | Kiruthiga B | ECE |
| 38 | 170701069 | Kishore Kumar | ECE |
| 39 | 170701070 | Krishkumar S | ECE |
| 40 | 170701072 | Lakshmi Narayanan.R | ECE |
| 41 | 170701073 | LOGESHWARAN M | ECE |
| 42 | 170701074 | Lokesh S | ECE |
| 43 | 170701075 | Madhumitha S | ECE |
| 44 | 170701078 | MARY SHARON | ECE |

| 45 | 170701084 | Narendiran Arumugam | ECE |
|----|-----------|---------------------|-----|
| 46 | 170701086 | NELAKANTI SAI MOUNIKA | ECE |
| 47 | 170701089 | Nimmagadda V S A Bhargava Abhiram | ECE |
| 48 | 170701091 | Nisha Sunny | ECE |
| 49 | 170701093 | Nitish K | ECE |
| 50 | 170701096 | Prakash Chellapandian | ECE |
| 51 | 170701099 | Preetha G | ECE |
| 52 | 170701101 | Prem Raj S | ECE |
| 53 | 170701102 | Pritam A | ECE |
| 54 | 170701103 | Ragavi Annamalai | ECE |
| 55 | 170701104 | Rahil H Sakariya | ECE |
| 56 | 170701105 | Rahil Jain | ECE |
| 57 | 170701108 | Raksha P.k. | ECE |
| 58 | 170701111 | RISHIKESH S | ECE |
| 59 | 170701113 | Saagar M | ECE |
| 60 | 170701114 | Saai Ghanesh P | ECE |
| 61 | 170701117 | Sai Harshith k | ECE |
| 62 | 170701118 | Sairam K | ECE |
| 63 | 170701122 | Santhosh S | ECE |
| 64 | 170701125 | Saranya Krishnamurthy | ECE |
| 65 | 170701126 | Shalini A J | ECE |
| 66 | 170701129 | Shivani R | ECE |
| 67 | 170701131 | Shruti Sharada S | ECE |
| 68 | 170701133 | SIVA AYTHIKA.A | ECE |
| 69 | 170701135 | subhashree p s | ECE |
| 70 | 170701137 | SUDHARSHAN HARIHARAN | ECE |
| 71 | 170701138 | Surya Narayanan | ECE |
| 72 | 170701140 | Swaathi C | ECE |
| 73 | 170701141 | Varun Tadimeti | ECE |
| 74 | 170701142 | Tarun B | ECE |
| 75 | 170701143 | Tarun Haris S | ECE |
| 76 | 170701145 | Thahib Zaman S | ECE |
| 77 | 170701146 | Tharik Riswan M | ECE |
| 78 | 170701148 | Thilak Praveen L | ECE |
| 79 | 170701149 | THIRUMURUGAN E | ECE |
| 80 | 170701151 | Venkatanarayanan Narayanan | ECE |
| 81 | 170701152 | AKSHAI VENUSUBA AKSHAI | ECE |
| 82 | 170701153 | Vignesh K | ECE |
| 83 | 170701154 | Vimal Raj P | ECE |
| 84 | 170701155 | Vinodhini s | ECE |
| 85 | 170701156 | Vinothini S | ECE |
| 86 | 170701159 | Ujwal Vuppalapati chenchu | ECE |
| 87 | 170701303 | ASWINI G | ECE |
| 88 | 170701305 | Bharath Kumar Venkatesan | ECE |
| 89 | 170701309 | Harish.S Sundar | ECE |
| 90 | 170701310 | Sharath N | ECE |
| 91 | 170701158 | Vivek | ECE |
| 92 | 170701033 | Freddy Immanuel. S | ECE |

| 93 | 170701083 | L.Nandha kumar | ECE |
|-----|-----------|-----------------------|-----|
| 94 | 170701097 | K. PRANAV KANNA | ECE |
| 95 | 170701120 | S.R Sakthi Saileshram | ECE |
| 96 | 170701144 | Tejwin Gehlot | ECE |
| 97 | 170701121 | Sandeep Pai | ECE |
| 98 | 170701123 | Santhosh vs | ECE |
| 99 | 170701132 | Siddharth J | ECE |
| 100 | 170701147 | Thejesh Chandar Roa | ECE |

**Event Coordinator**

Head of the Department
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