



## SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

In association with

ELECTRONICS AND COMMUNICATION ENGINEERS ASSOCIATION

&

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS- SF

&

ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB

### REPORT ON UPAGRAHA '23

The National level technical symposium UPAGRAHA '23 held between 11<sup>th</sup> October 2023 (Wednesday) and 12<sup>th</sup> October 2023 (Thursday) was organized by the Department of Electronics and Communication Engineering in association with the Electronics and Communication Engineers Association (ECEA) along with the Institution of Electronics and Telecommunication Engineers-Student Forum (IETE-SF) and Robotics and Artificial Intelligence Club (RAIC). The target audiences were the second, third and final year students. The event witnessed participation from students across various departments and colleges.

## PROPOSAL OF THE EVENT



SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
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along with  
THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS -  
STUDENTS FORUM

### ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB

04th Sep 2023

Submitted to the Principal, SVCE, ECE

Respected Sir,

The Department of ECE along with the student forums have been able to organize the highly acclaimed intercollegiate symposium known as UPAGRHA-23, until last year, which had received positive feedback. This symposium has been a resounding success in previous years, receiving commendable feedback from participants and attendees alike. We are immensely grateful for the continuous encouragement and support extended by our college management, which has been instrumental in facilitating these achievements.

The ECE Association, IETE Students' Forum-SVCE and Robotics and Artificial Intelligence Club (RAIC) are planning to conduct UPAGRHA-23, a two-day National-level intercollegiate technical symposium on October 12th and 13th, 2023, on our esteemed campus.

The vision for UPAGRHA-23 is to provide a distinguished platform where students can freely exchange knowledge, engage in discussions on pivotal issues, and partake in intellectually stimulating academic debates. We believe that such an event will not only enhance the educational experience of our students but also strengthen the bonds between our college and other institutions in the region.

To : Head - ECE  
Appreciated  
RAIC  
SITI



The following events have been planned for UPADRAHA'23:

1. Paper presentation
2. Hackers Event
3. Coding event
4. Tech Tuning (PC Repair event)
5. Circuit based event
6. E - Gadget Marketplace
7. Techville Competition
8. Last call
9. MATLAB related event

The events will be open for students from all engineering colleges; the highest budget for the event is estimated to be around Rs.70,000.

We kindly request your consideration of our proposal, as your approval would undoubtedly contribute to the academic enrichment of our college community.

Thank you for your consideration.

Dr. T. V. Agasthi  
HOD, ECE  
IITMA, IETE & RAC Committee

Dr. G. A. Sudhakar Kumar  
HOD-ECE

Forwarded & Recommended for your approval pl.



**SVECE**  
Sri Venkateswara  
College of  
Engineering

**RAIC**



**SRI VENKATESWARA COLLEGE OF ENGINEERING**

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STUDENTS FORUM**

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**ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB**

21<sup>st</sup> Sep 2023

**Submitted to the principal through HoD-ECE**

Respected sir,

The students' forum of Electronics and Communication Department request the postponement of the upcoming National Intercollegiate technical symposium, UPAGRAHA'23 scheduled for 12<sup>th</sup> and 13<sup>th</sup> October, 2023. The reason for this request is the unforeseen visit of the National Board of Accreditation (NBA) to our college on the dates of 13<sup>th</sup> and 14<sup>th</sup> of October, 2023.

Hence, we request to change the dates of the technical symposium to 11<sup>th</sup> and 12<sup>th</sup> October, 2023. We also request to allow the other college students to use the transport and hostel facilities of our college in the above mentioned dates.

Thank you for your consideration.

Dr. T. J. Jayaprabha

Asst. Prof.

ECEA, IEEE & RAIC Coordinator

Dr. G A Sathish Kumar

HoD-ECE

## AGENDA OF THE EVENT

# UPAGRAHA'23

### **AGENDA:**

#### **11.10.2023 - DAY 1**

09:00 am to 09:15 am : Prayer Song.

09:15 am to 09:30 am : Welcome address by Mr.Srinivas R, Secretary - NAIC.

09:30 am to 09:45 am : Address of the gathering by Dr.G A Sajith Kumar, IISD, PGD Department.

09:45 am to 09:55 am : Address of the gathering by Dr.S Ganesha Venkateswara, Principal, NYCL.

09:55 am to 10:05 am : Introduction of the Chief Guest by Dr. T. J. Jayapratha, Faculty Coordinator.

10:05 am to 10:30 am : Special Talk by Chief Guest, Smt. Ranjya C, AGM, NRC.

10:30 am to 10:45 pm : Commencement of UPAGRAHA'23 Day 1 Events.

10:45 pm to 11:00 pm : Launch.

#### **12.10.2023 - DAY 2**

09:00 am to 09:15 pm : Commencement of Upagraha'23 Day - 2 Events.

09:15 pm to 09:30 pm : Launch.

09:30 pm to 09:45 pm : Introduction of the Chief Guest by Dr. T. J. Jayapratha, Faculty Coordinator.

09:45 pm to 10:05 pm : Special Talk by Chief Guest, Dr. V. Narayanan, Director, UPSC, ISRO.

10:05 pm to 10:20 pm : Prize Distribution.

10:20 pm to 10:30 pm : Vote of thanks by Ms. Mohilla V Narayanan, IETE - Chairman.



## THE INAUGURAL CEREMONY:

The Inaugural ceremony commenced with the arrival of the Chief Guest Smt Ramya Govisankaran, AGM, NEC along with Dr G A Sathish Kumar, Head of the Department, Department of ECE and faculty coordinators of the association, Dr T J Jeyaprabha, Associate professor, Department of ECE and Mr S Elangovan, Assistant professor, Department of ECE.



Chief Guest, Smt Ramya Govisankaran, Dr G. A. Sathish Kumar, Head of the Department, Dr T J Jeyaprabha, Faculty coordinator along with Office Bearers of the Club.

The event began with Thamizh Thaat Vaithim by Ms. Clarmida Susan and Ms. Monisha Rajam followed by the prayer song by Ms. Shreeja K, 3rd year, SVCE. Ms. Snekaa R, Secretary, EAIC delivered the welcome address. Dr G A Sathish Kumar, Head of the Department, Department of ECE addressed the gathering. Dr T J Jeyaprabha, Associate professor, Department of ECE introduced the chief guest to the gathering. The Chief Guest, Smt Ramya Govisankaran, AGM, NEC delivered a short presentation on "IG and Beyond" and shared her knowledge with the students present at the ceremony.

## ABOUT UPACRAHA'23:

Upacraha'23 is aimed with an objective to provide students from different engineering colleges a platform to demonstrate their technical abilities. It offers a wide variety of events for engineers to display their skills across various technical domains. This platform not only enhances students' knowledge but also serves as an ideal opportunity to enhance their technical and non-technical competencies. Moreover, it fosters students' curiosity and deepens their grasp of emerging concepts. The event schedule offers a wide range of chances for students to showcase their skills in different technical fields.

## ABOUT THE CHIEF GUEST:

Smt Ramya Gowrisankaran, AGM, NEC is an accomplished expert with a proven track record of experience in the Wireless Telecom Industry. She started her career as a Board Design Engineer and later handled multiple Product Design and Development - Embedded systems, 3G Radio, Wireless Backhaul, Network Access switch/Aggregators etc. She has almost 20+ years of experience in the Telecom field. She is an expert in the field of Product Design and Development. She worked as project manager in NEC and later became the senior manager. She excelled in the role of technical lead in Aricent Technologies (Holdings) Ltd. She performed as a senior design engineer in Midas Communication Technologies.

## SNAPSHOTS OF THE EVENT:



Lecture by Smt. Ramya Gowrisankaran



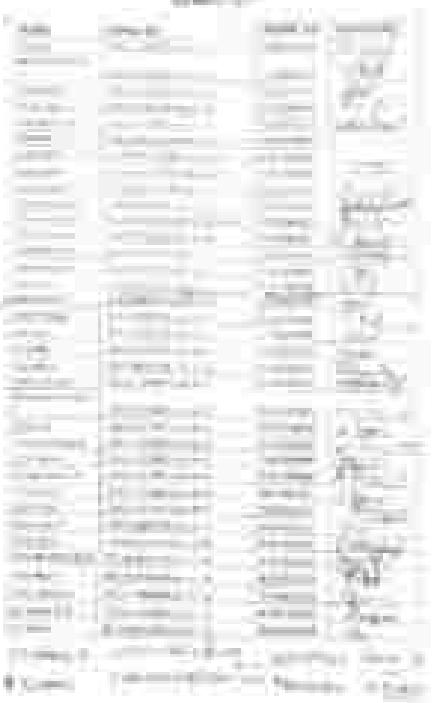
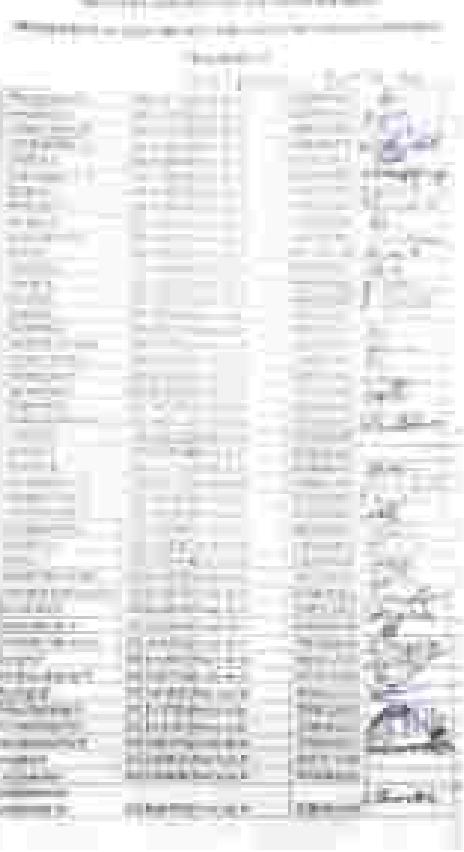
Dr. G. A. Srinivas Kumar, HOD, ECE Department, addressing the gathering



Participants and Audience attending Guest Lecture

### ATTENDANCE SHEET

S.NO	NAME	CLASS	ROLL NO.	DEPARTMENT	Attendance	
					Present	Absent
1	RAJESH KUMAR	III SEM	101	IT	✓	
2	SHREYA	III SEM	102	IT	✓	
3	SHREYA	III SEM	103	IT	✓	
4	SHREYA	III SEM	104	IT	✓	
5	SHREYA	III SEM	105	IT	✓	
6	SHREYA	III SEM	106	IT	✓	
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9	SHREYA	III SEM	109	IT	✓	
10	SHREYA	III SEM	110	IT	✓	
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13	SHREYA	III SEM	113	IT	✓	
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Simpler			
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93	94	95	96
97	98	99	100

Numbered (1-100) rows of the simplified version of the 100x100 grid.

1. The first row contains the numbers 1 through 4.

2. The second row contains the numbers 5 through 8.

3. The third row contains the numbers 9 through 12.

4. The fourth row contains the numbers 13 through 16.

5. The fifth row contains the numbers 17 through 20.

6. The sixth row contains the numbers 21 through 24.

7. The seventh row contains the numbers 25 through 28.

8. The eighth row contains the numbers 29 through 32.

9. The ninth row contains the numbers 33 through 36.

10. The tenth row contains the numbers 37 through 40.

11. The eleventh row contains the numbers 41 through 44.

12. The twelfth row contains the numbers 45 through 48.

13. The thirteenth row contains the numbers 49 through 52.

14. The fourteenth row contains the numbers 53 through 56.

15. The fifteenth row contains the numbers 57 through 60.

16. The sixteenth row contains the numbers 61 through 64.

17. The seventeenth row contains the numbers 65 through 68.

18. The eighteenth row contains the numbers 69 through 72.

19. The nineteenth row contains the numbers 73 through 76.

20. The twentieth row contains the numbers 77 through 80.

21. The twenty-first row contains the numbers 81 through 84.

22. The twenty-second row contains the numbers 85 through 88.

23. The twenty-third row contains the numbers 89 through 92.

24. The twenty-fourth row contains the numbers 93 through 96.

25. The twenty-fifth row contains the numbers 97 through 100.

Complex			
1	2	3	4
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9	10	11	12
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49	50	51	52
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73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Numbered (1-100) rows of the complex version of the 100x100 grid.

1. The first row contains the numbers 1 through 4.

2. The second row contains the numbers 5 through 8.

3. The third row contains the numbers 9 through 12.

4. The fourth row contains the numbers 13 through 16.

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7. The seventh row contains the numbers 25 through 28.

8. The eighth row contains the numbers 29 through 32.

9. The ninth row contains the numbers 33 through 36.

10. The tenth row contains the numbers 37 through 40.

11. The eleventh row contains the numbers 41 through 44.

12. The twelfth row contains the numbers 45 through 48.

13. The thirteenth row contains the numbers 49 through 52.

14. The fourteenth row contains the numbers 53 through 56.

15. The fifteen row contains the numbers 57 through 60.

16. The sixteen row contains the numbers 61 through 64.

17. The seventeen row contains the numbers 65 through 68.

18. The eighteen row contains the numbers 69 through 72.

19. The nineteen row contains the numbers 73 through 76.

20. The twenty row contains the numbers 77 through 80.

21. The twenty-one row contains the numbers 81 through 84.

22. The twenty-two row contains the numbers 85 through 88.

23. The twenty-three row contains the numbers 89 through 92.

24. The twenty-four row contains the numbers 93 through 96.

25. The twenty-five row contains the numbers 97 through 100.

Both the mean and median values were significantly higher than those of the control group ( $P < 0.001$ ,  $n = 77$ ).

1400-1500 AD: The Great Plague of London

**NAME** **ADDRESS** **PHONE NO.** **SIGNATURE**

#### THE ICARUS AND INTEGRATION COMMITTEE: 1995-1996

NAME	EMAIL-ID	PHONE NO.	SIGNATURE
Shivam Singh	shivam.singh@iitg.ac.in	9899511111	
Pranav Singh	pranav.singh@iitg.ac.in	9899522222	
Shubham Singh	shubham.singh@iitg.ac.in	9899533333	
Rishabh Singh	rishabh.singh@iitg.ac.in	9899544444	
Divyanshu Singh	divyanshu.singh@iitg.ac.in	9899555555	

SAINI AND INSTITUTE OF TECHNOLOGY, NEW DELHI

NAME	EMAIL ID	PHONE NO.	SIGNATURE
Sanjiv Kumar	sanjiv11@gmail.com	9899999999	
Chintan Patel	chintan123@gmail.com	9899999999	
Rishabh B.	rishabh123@gmail.com	9899999999	
Shivam B.	shivam123@gmail.com	9899999999	
Kartik G.	kartik123@gmail.com	9899999999	
Vishal J.	vishal123@gmail.com	9899999999	
Rahul T.	rahul123@gmail.com	9899999999	

2. **Radio-Phone** - an electronic device which receives radio signals and converts them into sound.

April 15 S. Sri Rajah. Govt. Mysore Compt. Ass. No 5442342.

## REPORT ON PROMPTIFY

Promptify was organized as a part of Upagama'23 by the Department of Electronics and Communication Engineering. The event aimed at bringing out the technical and prompting skills of the participants and also to check their ability to complete a task in the timeframe provided. A total of 40 teams (80 students) participated in the event.

Commencement of the event	October 11 <sup>th</sup> 2023 (12.30 PM IST)
End of the Event	October 11 <sup>th</sup> 2023 (3.00 PM IST)
Total Teams:	40
Total Participants	80

The judges for the event were Mr. K Venkatesh, Assistant Professor and Dr. S Vyasanand, Assistant Professor.

The event commenced at 12.30 pm and the venues for the event were CB531 and CB532. The rules and regulations were explained to the participants by the student coordinators. The round 1 was a Pen and Paper round in which the questions were based on Electronics and Communication related clues and AI generated images. The duration of the first round was 30 minutes.

Out of the total 40 teams, 11 teams were shortlisted based on their scores and were qualified to the second round. In the second round, participants were expected to handle tasks that will be revealed spontaneously. The winners were determined by their ability to complete these tasks by using AI tools within the specified time limit.

The event coordinators were Mr. Aadithya Narayanan B (III-year BCE-A) and Mr. Nikash S (III-year BCE-B).

Flyer of the Event:

The image shows a promotional flyer for an event. At the top left is the logo for SVCE (Sri Venkateswara College of Engineering). To its right is the text "SUPAGRAHA '23". Further to the right are logos for a cube and RANC. The central part of the flyer features the word "PROMPTIFY" in large, glowing white letters. Below it is a stylized graphic of a brain composed of various geometric shapes like triangles and rectangles. Underneath the graphic, the text "ELEVATE WITH AI EXPERTISE" is written in white. To the left of the date, there is a calendar icon. The date itself is "11/10/2023". At the bottom left, under the heading "CONTACT:", there is information for two individuals: Mukesh S. (Phone: +91 96290 31890) and Aadhilthiya Narayanan B (Phone: +91 93455 26682).

**PROMPTIFY**

ELEVATE WITH AI EXPERTISE

11/10/2023

**CONTACT:**

Mukesh S.  
+91 96290 31890

Aadhilthiya Narayanan B  
+91 93455 26682

**Attendance Sheet of the event:**

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Snapshots of the Event:



Round 1 (pen and paper round)



A team is being evaluated by Dr K Venkatesh, Assistant Professor, ECE in the Round 1

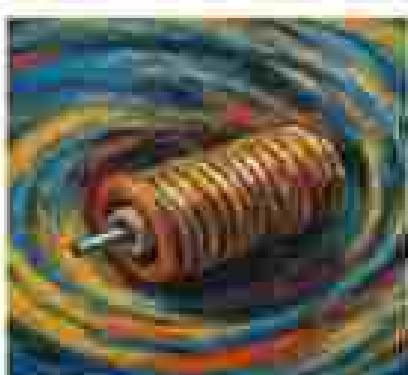
## Sample Question paper:

### Round 1:

#### Question 1:

Ques 1: It is used for power regulation and conversion in electronic circuits.

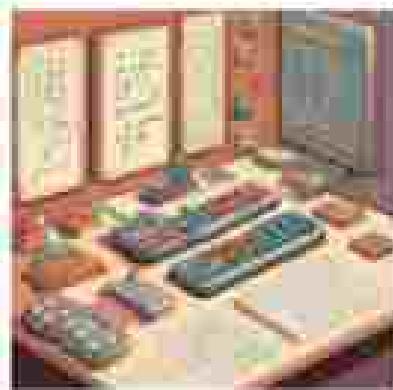
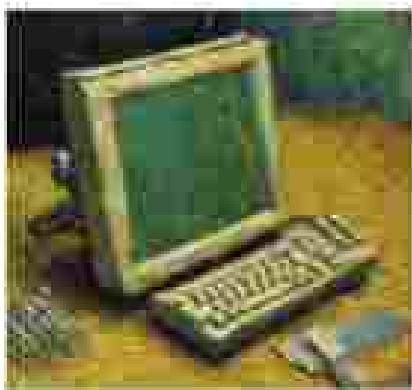
Ques 2: It operates based on the principles of self-inductance.



#### Question 2:

Ques 1: This component is often called the "brain" of electronic devices.

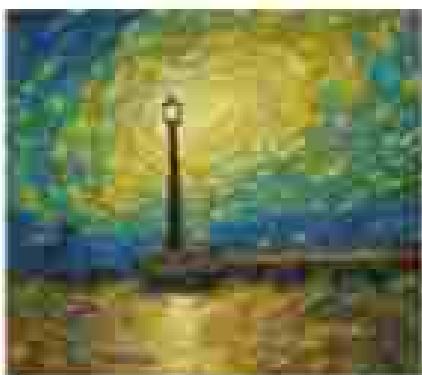
Ques 2: It can perform arithmetic and logical operations.



### Question 3:

Clue 1: It is commonly used in displays and indicators.

Clue 2: It emits different colors based on the materials used.



### Question 4:

Clue 1: It is commonly used in audio systems and speakers.

Clue 2: This component increases the power of electrical signals.



## Round 2:

### 1. Space Calculator - Calculate Light-Year Distance

- Description: Participants creates a program that calculates the distance in light-years to a specified celestial object.

**Prompt Question:** Write a program that calculates the distance in light-years of different Galaxies.

## 1. Alien Language Translator - Code Challenge:

**Description:** Participants program that translates English text into an imaginary alien language.

**Prompt Question:** Create a program that translates "Hello, Earthlings!" into the Zorblott language.

## 2. Space-themed Clock - Countdown Timer:

**Description:** Participants use a program and tinker or any other GUI to create a space-themed countdown timer with custom messages.

**Prompt Question:** Build a Python program with tinker that counts down from 10 minutes, displaying "Blast-off in T-minutes" messages.

## 4. UFO Tracker - Real-time Data Visualization:

**Description:** Participants design a program that retrieves and displays real-time UFO sighting data on a map.

**Sample Prompt Question:** Create an application that visualizes recent UFO sightings on a world map.

## 5. Astronomical Calculator - Planetary Data Retrieval:

**Description:** Participants code a Python tool to fetch and display data about celestial bodies (e.g., planets, moons).

**Prompt Question:** Write a program that retrieves and prints information about Saturn's rings.

## 6. Cosmic Quiz App - Interactive Quiz Game:

**Description:** Participants build a Python-based quiz app on space-related topics with multiple-choice questions.

**Prompt Question:** Develop a Python quiz app on the topic of Exoplanets with 5 multiple-choice questions.

## 7. Mars Rover Simulator - Remote Control Program:

**Description:** Participants create a Python script to simulate remote control of a Mars rover.

**Prompt Question:** Write a Python program to remotely control a Mars rover's movement (forward, backward, left, right).

## 8. Space Mission Planner - Optimal Route Finder:

**Description:** Participants write a Python program that finds the optimal route for a spacecraft to reach a distant planet.

## Evaluation Sheet:

### Round 2:

Evaluation Sheet							Score
Rank	Competitor	Performance	Speed	Accuracy	Consistency	Overall	Final Score
1	Walking Trotter	Slow, Poor Accuracy					45
2	Trotter	Start Strong & Consistent					39
3	Lamaze	Always the 3rd Strong Points, 2nd					44
4	Canter	1st, Consistent 3rd Strong Point					42
5	Walk Trotter	2nd Consistent 3rd Strong Points					38
6	Canter Trotter	3rd Consistent 1st Consistent					30
7	Piaffe	Consistent 3rd Consistent 2nd					44
8	Passage Lamaze	Steady, Differ. Lamaze, 5th, Walk					42+

1	To trotter	Walking Trotter, 3rd					35
2	Canter	3rd Strong Point 2nd Strong Point					44
3	Lamaze Trotter	Consistent 3rd Consistent 2nd					46
4							
5							
6							
7							

✓ - Valid trials  
 (7 entries)  
 ✓ - Consistent Trials  
 (3 entries)

**Winners of Promptify:**

Place	Team Name	Participants Name	College
1	Cypher Assassins	H. Madhav V. Subash	Sri Venkateswara College of Engineering
2	Inventors	M. Abhisartha A.S. Ajay Kumar	Sri Venkateswara College of Engineering

**Report by:**

**Mr. AADHITHYA NARAYANAN B (III-Year, ECE-A)**

**Executive Member, IETE-SF**

## REPORT ON ARDUINO ALLEY

Arduino Alley was organized by the Department of Electronics and Communication Engineering in association with the Electronics and Communication Engineers Association (ECEA), Institution of Electronics and Telecommunication Engineers Student Forum of SVCE (ISEF SVCE), and Robotics and Artificial Intelligence Club (RAIC) as an event in Upgraha'23, ECE Department Symposium.

Commencement of the event	October 11th, 2023(10:30 AM IST)
End of the event	October 11th 2023(3:00 PM IST)
Total Teams	24 Teams
Total Participants	96

### Event Description:

Arduino Alley comprised two thrilling rounds that tested the participant's knowledge and innovation. The rules and regulations were announced to the participants by the student coordinators.

#### **Round 1: Arduino Knowledge Challenge (MCQs)**

- Teams of four students each
- Teams split into batches for MCQs
- Average scores determined qualification for Round 2
- Questions based on Arduino, sensors, and actuators
- Students had to solve 25 questions in 30 minutes

Out of the total 24 teams, 6 teams were shortlisted based on their scores and were qualified to the second round.

#### **Round 2: Arduino Game Master (Sensor-Based Game Development)**

- Participants created unique sensor-based games.
- Sensors and components provided for game development.
- Emphasis on creativity, functionality, and presentation.
- Duration of the event: 1.5 hours

The event coordinators were Mr Parvez R (III-year ECE-S) and Mr Kiran Yash (III-year ECE-S). The faculty coordinators were Mr V Yokesh, Assistant Professor, Mr S Ramesh Kumar, Assistant Professor and Mrs S Radhika, Assistant Professor.

We would like to extend our heartfelt gratitude to our event sponsor, F22 Labs, for their invaluable support. Special thanks to Mr Shubham Ambastha and Mr Kethan Surana from F22 Labs for participating as judges in Round 2 and bringing their expertise to evaluate the participants.

Teams were assessed based on the following criteria:

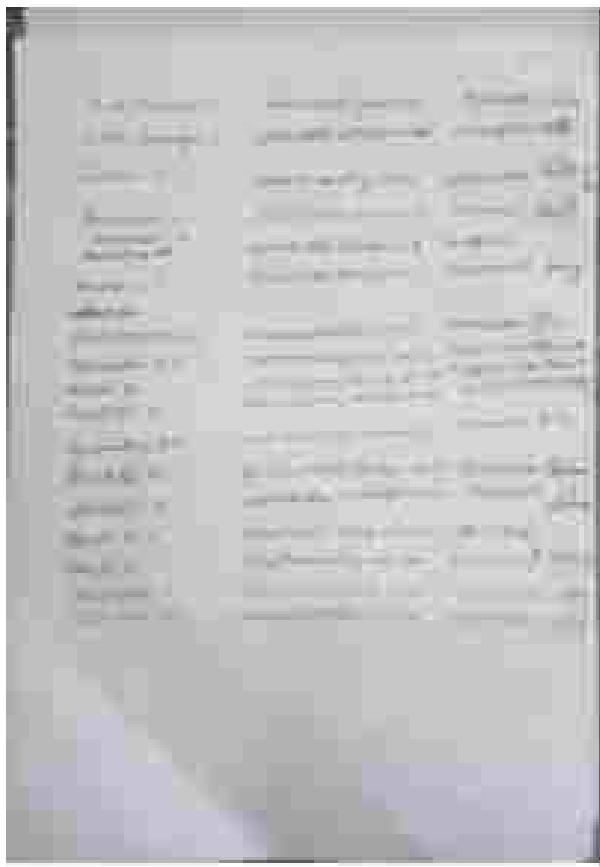
- Idea of the game
- Innovation of the solution
- Time of implementation
- Demonstration

Flyer of the event :



Attendance sheet of the event:

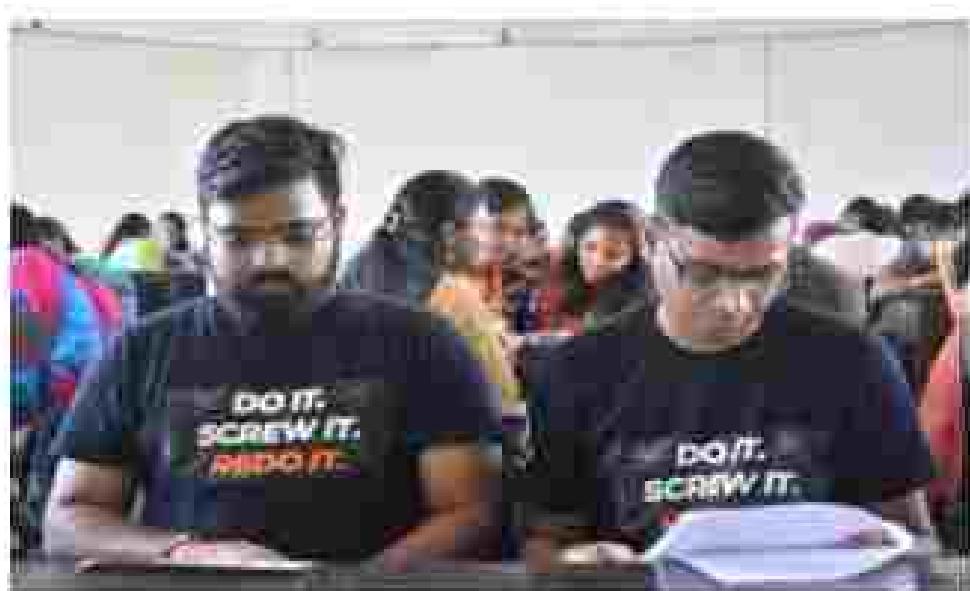
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## SAMPLE QUESTION PAPER (ROUND 1)

THE COMPUTERIZED SYSTEM FOR INTELLIGENT MANAGEMENT OF EDUCATIONAL AND COMMUNICATION PROCESSES	
ANSWER PAPER	
NAME _____	ROLL NO. _____
TIME ALLOWED: 120 MINUTES	
INSTRUCTIONS FOR ANSWER:	
1) All questions are compulsory.	
2) Answer all questions in sequence.	
3) A programming language	
4) A type of education	
5) A mobile app	
6) What is the maximum voltage that can be given to a peltier?	
(a) 10V (b) 12V (c) 15V (d) 18V	
7) What is the purpose of the survey? Subject to discussion?	
(a) To find about the students' marks (b) To spread out the student information (c) To provide the progress indication (d) To keep a record of data	
8) Which component is used to convert a computer to an educational system?	
(a) A computer (b) A monitor (c) A keyboard	

Snapshots of the event :



Mr Senthil Arbabsha and Mr Keshav Sharma evaluating the answer sheets



Panel 1: Participants solving the MCQ's

Round 2 Attendance Sheet:

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### Winners of the event

S.NO	POSITION	TEAM NAME	PARTICIPANTS NAME	COLLEGE NAME
1.	Winner	Cyber Corps Elite	S Anish K Jayash K Gommal	IITCE
			A S Aayu Kumar	
2.	Runner Up	Red Cannons	Soham Shree G Saudha K Deafma J. Ciruz Soham S	IITCE

**Report by:**

**Mr. PARVESH R (III Year, ECE B )**

**Executive Member, ISTE-SR**

## REPORT ON VENTURE VISION

Venture Vision was organized by the department of Electronics and Communication Engineering in association with the Electronics and Communication Engineers Association (ECEA), Institution of Electronics and Telecommunication Engineers Student Forum of SVCE (ISEF-SVCE) and Robotics and Artificial Intelligence Club (RAIC) as an event in Upagraha '23, ECE Department Symposium. Venture Vision was aimed at scouting for individuals with best pitching abilities. A total of 20 teams (80 students) registered for the event.

Commencement of the Event	October 11 <sup>th</sup> 2023 (11.00 AM IST)
End of the Event	October 11 <sup>th</sup> 2023 (3.00 PM IST)
Total Teams	20
Total Participants	80

The rules of the event were explained to all the participating teams by the event co-ordinators. Venture Vision consisted of two rounds; the first round required the teams to pitch a project idea specified to them. The teams were divided equally among a panel of 3 judges. Each team was given 5 minutes of preparation time and 5 minutes for presenting. The round lasted for about an hour. Out of 20 teams, 9 teams were selected for the second round, which was held from 1.45 PM. The second round required the team to pitch the allocated companies to the judges. Each team was judged based on 5 unique but necessary categories. After the panel of judges discussed amongst themselves, the winner and runner teams were announced. The event was concluded by 3.00 pm.

The event coordinators were Mr Prabin Dharshan R (III-year ECE-B), Mr Anish Krishnan (III-year ECE-A) and Ms Subasree S S (III Year ECE-C). The judges for the event were Dr M Bindhu, Associate professor, Mr M K Varadarajan, Assistant professor and Mrs C Gomisheeswari Preethika, Assistant professor.

Flyer of the event:



Snapshots of the Event:



Team pitching their product to Mr. C. Srinivasan and Preethika, Assistant Professor, BCE



### Participates of the system



Some portion from product to Mr M.K. Vaidya, Assistant Professor, ECE

### Evaluation Sheet:

## **Round-I**

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Category	Description	Actual	Budget	Variance	Actual %	Budget %
1. Materials	Raw materials, direct labor, and overhead costs.	\$12,000	\$10,000	\$2,000	120%	100%
2. Direct Labor	Cost of labor directly involved in production.	\$8,000	\$7,000	\$1,000	114%	100%
3. Manufacturing Overhead	Indirect costs allocated to production, including rent, utilities, and maintenance.	\$5,000	\$5,000	\$0	100%	100%
4. Total Manufacturing Costs	Total manufacturing costs for the period.	\$25,000	\$22,000	\$3,000	114%	100%
5. Selling Expenses	Costs associated with selling the product, such as sales commissions and advertising.	\$3,000	\$2,500	\$500	120%	100%
6. General & Admin Expenses	Overhead expenses not directly related to production or sales.	\$2,000	\$1,800	\$200	111%	100%
7. Total Period Expenses	Total non-manufacturing expenses for the period.	\$5,000	\$4,300	\$700	116%	100%
8. Total Costs & Expenses	Sum of all manufacturing and period expenses.	\$30,000	\$26,300	\$3,700	114%	100%
9. Net Income	Net income after deducting total costs and expenses from total revenues.	\$10,000	\$10,000	\$0	100%	100%

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59	568	569	570	571	572	573	574	575
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62	592	593	594	595	596	597	598	599
63	596	597	598	599	600	601	602	603
64	604	605	606	607	608	609	610	611
65	612	613	614	615	616	617	618	619
66	620	621	622	623	624	625	626	627
67	628	629	630	631	632	633	634	635
68	636	637	638	639	640	641	642	643
69	644	645	646	647	648	649	650	651
70	652	653	654	655	656	657	658	659
71	660	661	662	663	664	665	666	667
72	668	669	670	671	672	673	674	675
73	676	677	678	679	680	681	682	683
74	684	685	686	687	688	689	690	691
75	692	693	694	695	696	697	698	699
76	696	697	698	699	700	701	702	703
77	704	705	706	707	708	709	710	711
78	712	713	714	715	716	717	718	719
79	720	721	722	723	724	725	726	727
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82	744	745	746	747	748	749	750	751
83	752	753	754	755	756	757	758	759
84	760	761	762	763	764	765	766	767
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94	836	837	838	839	840	841	842	843
95	844	845	846	847	848	849	850	851
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97	860	861	862	863	864	865	866	867
98	868	869	870	871	872	873	874	875
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110	960	961	962	963	964	965	966	967
111	968	969	970	971	972	973	974	975
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Round 2:

Round - 2



**SCE**

**RAIC**

Venture Vision Scoring Sheet

Score 1000000

Team No.	Team Name	Team Category	Scoring Score	Scoring Score	Scoring Score	Scoring Score	Scoring Score	Scoring Score
2	Robotics Team 2	Robotics	1	1	1	1	1	1
6	Robotics Team 6	Robotics	3	1	1	1	1	1
7	Robotics Team 7	Robotics	1	1	1	1	1	1
8	Robotics Team 8	Robotics	1	1	1	1	1	1

Opportunities

• Common Function



**SCE**

**RAIC**

Venture Vision Scoring Sheet

Score 1000000

Team No.	Team Name	Team Category	Scoring Score	Scoring Score	Scoring Score	Scoring Score	Scoring Score	Scoring Score
1	Smart Car (Team 1)	Robotics	5	5	5	5	5	5
2	Smart Car (Team 2)	Robotics	5	5	5	5	5	5
3	Robotics (Team 3)	Robotics	5	1	5	5	5	5
4	Robotics (Team 4)	Robotics	0	9	9	9	9	9

Winnings (Team 4) 45

Attendance Sheet of the event:

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• 4 • *Journal of Health Politics, Policy and Law*, Vol. 33, No. 3, June 2008  
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1996-1997  
1997-1998  
1998-1999  
1999-2000

**Winners of the Event:**

Place	Team Name	Members Name	College
1 <sup>st</sup> place	One-Hit Wonders	Vikash S.K Srinath R. S.Tamil Nilavan S.Shakeel Irfan	Sri Venkateswara College of Engineering
2 <sup>nd</sup> place	Crocks	Karthikey Mishra Harish K.P Jayanth J Karthika V	RMK Engineering College

**Report by:**

**Mrs ANISH KRISHNAN (II-Year, BCB-A)**

**Executive Member, ECEA**

## REPORT ON ALGORITHM ALCHEMY

Algorithm alchemy was conducted on 11th October 2023 between 11.30 AM & 3.15 PM. This event was a part of the national-level technical symposium Upagruha '23 conducted by the Electronics and Communication Engineering Department, SVCE. Algorithm Alchemy was a coding event conducted to check the understanding of basic coding skills of participants.

Commencement of the event	October 11 <sup>th</sup> 2023(11.30 AM IST)
End of the event	October 11 <sup>th</sup> 2023(3.15 PM IST)
Total teams	30
Total participants	60

The event consists of 2 rounds. The first round was MCQ which consisted of 14 questions, to sharpen problem-solving skills by hunting the bugs in pen-paper mode. Based on the scores, the top 10 teams were shortlisted for round 2, which takes to an online coding round in the Hacker Rank platform, which consists of 5 problem statements but there was a surprise twist of swapping the participants of the team, each for 10 mins and last 15 minutes both the participants were allowed to code together to solve the tasks. The judgment was made based on the points of the problem statements solved and trivia scores.

Mr. A. Ramya, Assistant professor and Mrs.M.Kavitha, Assistant professor, were the judges for the event. The student coordinators for the event were, Ms S Lathika, Shri. Ms P.U Saambari, Mr S Kiran Sekar, and Mr H East.

Flyer of the event:



Snapshots of the event:



Round 1 Pen and paper round



#### Sessions from F12 evaluating the participants

## Attendance sheet of the event:

--



## Sample Questions from Round 1:

```
1)def find_average(nums):
    total = 0
    for num in nums:
        total += num
    average = total / len(nums)
    return average
```

The above code is supposed to calculate the average of a list of numbers and print it. However, there is a bug in the code. Can you identify and fix it?

2)

```
#include <iostream>
using namespace std;
int main()
```

```
1)
int age;
cout << "Enter your age: ";
cin >> age;
if (age >= 18)
{
    cout << "You are an adult." << endl;
}
else
{
    cout << "You are a minor." << endl;
}
return 0;
}
```

```
3) #include <iostream>
using namespace std;
int main()
{
int n;
cout << "Enter a number: ";
cin >> n;
int factorial = 1;
for (int i = 1; i <= n; i++) {
factorial *= i;
}
cout << "Factorial of " << n << " is: " << factorial << endl;
return 0;
}
```

```
4) def outer_function():
    x = 10
        def inner_function():
            x += 5
```

```

    return x
}

result = inner_function()
print("Result:", result)
outer_function()

```

## Questions from Round 2

- 1) Two friends like to pool their money and go to the ice cream parlor. They always choose two distinct flavors and they spend all of their money. Given a list of prices for the flavors of ice cream, select the two that will cost all of the money they have.

### Sample Input

STDIN Function

```

1
2   t=1
3   k=4
5   cost[] size n = 5
14132  cost = [1, 4, 3, 5, 2]
3   k=4
4   cost[] size n = 4
2243  cost=[1,2,4,3]

```

### Sample Output

```

14
12

```

- 2) A weighted string is a string of lowercase English letters where each letter has a weight. Character weights are as follows:  $a=1, b=2, \dots, z=26$ .

The weight of a string is the sum of the weights of its characters. For example, A uniform string consists of a single character repeated zero or more times. For example, `ccc` and `zzz` are uniform strings, but `bob` and `cd` are not. Given a string, let  $\mathcal{W}$  be the set of weights for all possible uniform contiguous substrings of string. There will be queries to answer where each query consists of a single integer. Create a return array where for each query, the value is Yes if  $\mathcal{W}$  contains the integer. Otherwise, append No.

Working from left to right, weights that exist are:

```
string weight
P 1
R 2
G 3
B 5
C 9
E 4
D 8
H 12
I 16
```

Now for each value in , see if it exists in the possible string weights. The return array is [ "Yes", "No", "No", "Yes", "Yes", "No" ].

Sample Input 0

```
abccddde
```

```
6  
1  
3  
12  
5  
9  
10
```

Sample Output 0

```
Yes  
Yes  
Yes  
Yes  
No  
No
```

3) An arcade game player wants to climb to the top of the leaderboard and track their timeline. The game uses [Dense Ranking](#), so its leaderboard works like this:

- The player with the highest score is ranked number 1 on the leaderboard.
- Players who have equal scores receive the same ranking number, and the next player(s) receive the immediately following ranking number.

Example

Ranked= [ 100, 90, 90, 80 ]

Player= [ 70, 80, 100 ]

The ranked players will have ranks 1, 2, 3 and 4 respectively.

### Evaluation sheet:

Section	Section Name	Section Description	Section Status
1	Section 1	Description 1	Active
2	Section 2	Description 2	Inactive
3	Section 3	Description 3	Active
4	Section 4	Description 4	Inactive
5	Section 5	Description 5	Active
6	Section 6	Description 6	Inactive
7	Section 7	Description 7	Active
8	Section 8	Description 8	Inactive
9	Section 9	Description 9	Active
10	Section 10	Description 10	Inactive
11	Section 11	Description 11	Active
12	Section 12	Description 12	Inactive
13	Section 13	Description 13	Active
14	Section 14	Description 14	Inactive
15	Section 15	Description 15	Active
16	Section 16	Description 16	Inactive
17	Section 17	Description 17	Active
18	Section 18	Description 18	Inactive
19	Section 19	Description 19	Active
20	Section 20	Description 20	Inactive

## **Winners of the event:**

SLNO	POSITION	TEAM NAME	PARTICIPANT NAME	COLLEGE
1	WINNER	PAETY SMASHERS	MADHUSUDHANANJ JESWIN SWINTON J	SRI VENKATESWARA COLLEGE OF ENGINEERING
2	PLACER	DED SEC	DHAYARNDHI R S GOKUL NAMBIAR R	SRI VENKATESWARA COLLEGE OF ENGINEERING

Report by:  
Ms LATHIKAA SHRI S (III year, BCE-5)  
Executive Member, BCEA

## REPORT ON PROJECT EXPO

Project Expo was organized by the Department of Electronics and Communication Engineering as an event in Upagruha'23, BCE Department Symposium. Project Expo was aimed at scouting for the best projects that the students have come up with on their own. A total of 15 teams (50 students) registered for the event, out of which 5 teams were awarded.

Commencement of the event	October 11 <sup>th</sup> 2023 (10.30 AM IST)
End of the event	October 11 <sup>th</sup> 2023 (12.30 PM IST)
Total Teams	15 Teams
Total Participants	50

The event commenced at 10.30am and the participants were given time to setup their project for display and additional time was provided for making any improvisations. The panel of judges evaluated the participants based on the following criteria: novelty and innovation of the solution, quality of implementation, people impact and the quality of their presentation. A total of 15 teams consisting of 50 participants were evaluated. Out of these, 5 teams were scrutinized. The event was concluded by 12.30 pm.

The event coordinators were Mr Unesh Anandh S (III-year ECE-C), Ms Srivairshini S (III-year ECE-C) and Ms Deepika S (III-year ECE-A).

The judges for the event were Dr M Athappan, Associate professor, Dr A Prasanth, Assistant professor, Mrs K S Subhashini, Assistant professor, Mrs S Kalyani, Mrs K Srividhya, Assistant professor, Mr Senthil Rajan, Assistant professor and Mrs R Kousalya, Assistant professor.

Flyer of the event:



## Evaluation sheet:

Name		Evaluation					
Category	Sub-category	1	2	3	4	5	6
1	1	1	1	1	1	1	1
1	2	1	1	1	1	1	1
1	3	1	1	1	1	1	1
2	1	1	1	1	1	1	1
2	2	1	1	1	1	1	1
2	3	1	1	1	1	1	1
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3	2	1	1	1	1	1	1
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66	2	1	1	1	1	1	1
66	3	1	1	1	1	1	1
67	1	1	1	1	1	1	1
67	2	1	1	1	1	1	1
67	3	1	1	1	1	1	1
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68	2	1	1	1</td			

### Attendance sheet of the event:

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2	2.1	2.1.1	2.1.1.1	2.1.1.1.1
3	3.1	3.1.1	3.1.1.1	3.1.1.1.1
4	4.1	4.1.1	4.1.1.1	4.1.1.1.1
5	5.1	5.1.1	5.1.1.1	5.1.1.1.1
6	6.1	6.1.1	6.1.1.1	6.1.1.1.1
7	7.1	7.1.1	7.1.1.1	7.1.1.1.1
8	8.1	8.1.1	8.1.1.1	8.1.1.1.1
9	9.1	9.1.1	9.1.1.1	9.1.1.1.1
10	10.1	10.1.1	10.1.1.1	10.1.1.1.1
11	11.1	11.1.1	11.1.1.1	11.1.1.1.1
12	12.1	12.1.1	12.1.1.1	12.1.1.1.1
13	13.1	13.1.1	13.1.1.1	13.1.1.1.1
14	14.1	14.1.1	14.1.1.1	14.1.1.1.1
15	15.1	15.1.1	15.1.1.1	15.1.1.1.1
16	16.1	16.1.1	16.1.1.1	16.1.1.1.1
17	17.1	17.1.1	17.1.1.1	17.1.1.1.1
18	18.1	18.1.1	18.1.1.1	18.1.1.1.1
19	19.1	19.1.1	19.1.1.1	19.1.1.1.1
20	20.1	20.1.1	20.1.1.1	20.1.1.1.1
21	21.1	21.1.1	21.1.1.1	21.1.1.1.1
22	22.1	22.1.1	22.1.1.1	22.1.1.1.1
23	23.1	23.1.1	23.1.1.1	23.1.1.1.1
24	24.1	24.1.1	24.1.1.1	24.1.1.1.1
25	25.1	25.1.1	25.1.1.1	25.1.1.1.1
26	26.1	26.1.1	26.1.1.1	26.1.1.1.1
27	27.1	27.1.1	27.1.1.1	27.1.1.1.1
28	28.1	28.1.1	28.1.1.1	28.1.1.1.1
29	29.1	29.1.1	29.1.1.1	29.1.1.1.1
30	30.1	30.1.1	30.1.1.1	30.1.1.1.1
31	31.1	31.1.1	31.1.1.1	31.1.1.1.1
32	32.1	32.1.1	32.1.1.1	32.1.1.1.1
33	33.1	33.1.1	33.1.1.1	33.1.1.1.1
34	34.1	34.1.1	34.1.1.1	34.1.1.1.1
35	35.1	35.1.1	35.1.1.1	35.1.1.1.1
36	36.1	36.1.1	36.1.1.1	36.1.1.1.1
37	37.1	37.1.1	37.1.1.1	37.1.1.1.1
38	38.1	38.1.1	38.1.1.1	38.1.1.1.1
39	39.1	39.1.1	39.1.1.1	39.1.1.1.1
40	40.1	40.1.1	40.1.1.1	40.1.1.1.1
41	41.1	41.1.1	41.1.1.1	41.1.1.1.1
42	42.1	42.1.1	42.1.1.1	42.1.1.1.1
43	43.1	43.1.1	43.1.1.1	43.1.1.1.1
44	44.1	44.1.1	44.1.1.1	44.1.1.1.1
45	45.1	45.1.1	45.1.1.1	45.1.1.1.1
46	46.1	46.1.1	46.1.1.1	46.1.1.1.1
47	47.1	47.1.1	47.1.1.1	47.1.1.1.1
48	48.1	48.1.1	48.1.1.1	48.1.1.1.1
49	49.1	49.1.1	49.1.1.1	49.1.1.1.1
50	50.1	50.1.1	50.1.1.1	50.1.1.1.1
51	51.1	51.1.1	51.1.1.1	51.1.1.1.1
52	52.1	52.1.1	52.1.1.1	52.1.1.1.1
53	53.1	53.1.1	53.1.1.1	53.1.1.1.1
54	54.1	54.1.1	54.1.1.1	54.1.1.1.1
55	55.1	55.1.1	55.1.1.1	55.1.1.1.1
56	56.1	56.1.1	56.1.1.1	56.1.1.1.1
57	57.1	57.1.1	57.1.1.1	57.1.1.1.1
58	58.1	58.1.1	58.1.1.1	58.1.1.1.1
59	59.1	59.1.1	59.1.1.1	59.1.1.1.1
60	60.1	60.1.1	60.1.1.1	60.1.1.1.1
61	61.1	61.1.1	61.1.1.1	61.1.1.1.1
62	62.1	62.1.1	62.1.1.1	62.1.1.1.1
63	63.1	63.1.1	63.1.1.1	63.1.1.1.1
64	64.1	64.1.1	64.1.1.1	64.1.1.1.1
65	65.1	65.1.1	65.1.1.1	65.1.1.1.1
66	66.1	66.1.1	66.1.1.1	66.1.1.1.1
67	67.1	67.1.1	67.1.1.1	67.1.1.1.1
68	68.1	68.1.1	68.1.1.1	68.1.1.1.1
69	69.1	69.1.1	69.1.1.1	69.1.1.1.1
70	70.1	70.1.1	70.1.1.1	70.1.1.1.1
71	71.1	71.1.1	71.1.1.1	71.1.1.1.1
72	72.1	72.1.1	72.1.1.1	72.1.1.1.1
73	73.1	73.1.1	73.1.1.1	73.1.1.1.1
74	74.1	74.1.1	74.1.1.1	74.1.1.1.1
75	75.1	75.1.1	75.1.1.1	75.1.1.1.1
76	76.1	76.1.1	76.1.1.1	76.1.1.1.1
77	77.1	77.1.1	77.1.1.1	77.1.1.1.1
78	78.1	78.1.1	78.1.1.1	78.1.1.1.1
79	79.1	79.1.1	79.1.1.1	79.1.1.1.1
80	80.1	80.1.1	80.1.1.1	80.1.1.1.1
81	81.1	81.1.1	81.1.1.1	81.1.1.1.1
82	82.1	82.1.1	82.1.1.1	82.1.1.1.1
83	83.1	83.1.1	83.1.1.1	83.1.1.1.1
84	84.1	84.1.1	84.1.1.1	84.1.1.1.1
85	85.1	85.1.1	85.1.1.1	85.1.1.1.1
86	86.1	86.1.1	86.1.1.1	86.1.1.1.1
87	87.1	87.1.1	87.1.1.1	87.1.1.1.1
88	88.1	88.1.1	88.1.1.1	88.1.1.1.1
89	89.1	89.1.1	89.1.1.1	89.1.1.1.1
90	90.1	90.1.1	90.1.1.1	90.1.1.1.1
91	91.1	91.1.1	91.1.1.1	91.1.1.1.1
92	92.1	92.1.1	92.1.1.1	92.1.1.1.1
93	93.1	93.1.1	93.1.1.1	93.1.1.1.1
94	94.1	94.1.1	94.1.1.1	94.1.1.1.1
95	95.1	95.1.1	95.1.1.1	95.1.1.1.1
96	96.1	96.1.1	96.1.1.1	96.1.1.1.1
97	97.1	97.1.1	97.1.1.1	97.1.1.1.1
98	98.1	98.1.1	98.1.1.1	98.1.1.1.1
99	99.1	99.1.1	99.1.1.1	99.1.1.1.1
100	100.1	100.1.1	100.1.1.1	100.1.1.1.1
101	101.1	101.1.1	101.1.1.1	101.1.1.1.1
102	102.1	102.1.1	102.1.1.1	102.1.1.1.1
103	103.1	103.1.1	103.1.1.1	103.1.1.1.1
104	104.1	104.1.1	104.1.1.1	104.1.1.1.1
105	105.1	105.1.1	105.1.1.1	105.1.1.1.1
106	106.1	106.1.1	106.1.1.1	106.1.1.1.1
107	107.1	107.1.1	107.1.1.1	107.1.1.1.1
108	108.1	108.1.1	108.1.1.1	108.1.1.1.1
109	109.1	109.1.1	109.1.1.1	109.1.1.1.1
110	110.1	110.1.1	110.1.1.1	110.1.1.1.1
111	111.1	111.1.1	111.1.1.1	111.1.1.1.1
112	112.1	112.1.1	112.1.1.1	112.1.1.1.1
113	113.1	113.1.1	113.1.1.1	113.1.1.1.1
114	114.1	114.1.1	114.1.1.1	114.1.1.1.1
115	115.1	115.1.1	115.1.1.1	115.1.1.1.1
116	116.1	116.1.1	116.1.1.1	116.1.1.1.1
117	117.1	117.1.1	117.1.1.1	117.1.1.1.1
118	118.1	118.1.1	118.1.1.1	118.1.1.1.1
119	119.1	119.1.1	119.1.1.1	119.1.1.1.1
120	120.1	120.1.1	120.1.1.1	120.1.1.1.1
121	121.1	121.1.1	121.1.1.1	121.1.1.1.1
122	122.1	122.1.1	122.1.1.1	122.1.1.1.1
123	123.1	123.1.1	123.1.1.1	123.1.1.1.1
124	124.1	124.1.1	124.1.1.1	124.1.1.1.1
125	125.1	125.1.1	125.1.1.1	125.1.1.1.1
126	126.1	126.1.1	126.1.1.1	126.1.1.1.1
127	127.1	127.1.1	127.1.1.1	127.1.1.1.1
128	128.1	128.1.1	128.1.1.1	128.1.1.1.1
129	129.1	129.1.1	129.1.1.1	129.1.1.1.1
130	130.1	130.1.1	130.1.1.1	130.1.1.1.1
131	131.1	131.1.1	131.1.1.1	131.1.1.1.1
132	132.1	132.1.1	132.1.1.1	132.1.1.1.1
133	133.1	133.1.1	133.1.1.1	133.1.1.1.1
134	134.1	134.1.1	134.1.1.1	134.1.1.1.1
135	135.1	135.1.1	135.1.1.1	135.1.1.1.1
136	136.1	136.1.1	136.1.1.1	136.1.1.1.1
137	137.1	137.1.1	137.1.1.1	137.1.1.1.1
138	138.1	138.1.1	138.1.1.1	138.1.1.1.1
139	139.1	139.1.1	139.1.1.1	139.1.1.1.1
140	140.1	140.1.1	140.1.1.1	140.1.1.1.1
141	141.1	141.1.1	141.1.1.1	141.1.1.1.1
142	142.1	142.1.1	142.1.1.1	142.1.1.1.1
143	143.1	143.1.1	143.1.1.1	143.1.1.1.1
144	144.1	144.1.1	144.1.1.1	144.1.1.1.1
145	145.1	145.1.1	145.1.1.1	145.1.1.1.1
146	146.1	146.1.1	146.1.1.1	146.1.1.1.1
147	147.1	147.1.1	147.1.1.1	147.1.1.1.1
148	148.1	148.1.1	148.1.1.1	148.1.1.1.1
149	149.1	149.1.1	149.1.1.1	149.1.1.1.1
150	150.1	150.1.1	150.1.1.1	150.1.1.1.1
151	151.1	151.1.1	151.1.1.1	151.1.1.1.1
152	152.1	152.1.1	152.1.1.1	152.1.1.1.1
153	153.1	153.1.1	153.1.1.1	153.1.1.1.1
154	154.1	154.1.1	154.1.1.1	154.1.1.1.1
155	155.1	155.1.1	155.1.1.1	155.1.1.1.1
156	156.1	156.1.1	156.1.1.1	156.1.1.1.1
157	157.1	157.1.1	157.1.1.1	157.1.1.1.1
158	158.1	158.1.1	158.1.1.1	158.1.1.1.1
159	159.1	159.1.1	159.1.1.1	159.1.1.1.1
160	160.1	160.1.1	160.1.1.1	160.1.1.1.1
161	161.1	161.1.1	161.1.1.1	161.1.1.1.1
162	162.1	162.1.1	162.1.1.1	162.1.1.1.1
163	163.1	163.1.1	163.1.1.1	163.1.1.1.1
164	164.1	164.1.1	164.1.1.1	164.1.1.1.1
165	165.1	165.1.1	165.1.1.1	165.1.1.1.1
166	166.1	166.1.1	166.1.1.1	166.1.1.1.1
167	167.1	167.1.1	167.1.1.1	167.1.1.1.1
168	168.1	168.1.1	168.1.1.1	168.1.1.1.1
169	169.1	169.1.1	169.1.1.1	169.1.1.1.1
170	170.1	170.1.1	170.1.1.1	170.1.1.1.1
171	171.1	171.1.1	171.1.1.1	171.1.1.1.1
172	172.1	172.1.1	172.1.1.1	172.1.1.1.1
173	173.1	173.1.1	173.1.1.1	173.1.1.1.1
174	174.1	174.1.1	174.1.1.1	174.1.1.1.1
175	175.1	175.1.1	175.1.1.1	175.1.1.1.1
176	176.1	176.1.1	176.1.1.1	176.1.1.1.1
177	177.1	177.1.1	177.1.1.1	177.1.1.1.1
178	178.1	178.1.1	178.1.1.1	178.1.1.1.1
179	179.1	179.1.1	179.1.1.1	179.1.1.1.1
180	180.1	180.1.1	180.1.1.1	180.1.1.1.1
181	181.1	181.1.1	181.1.1.1	181.1.1.1.1
182	182.1	182.1.1	182.1.1.1	182.1.1.1.1
183	183.1	183.1.1	183.1.1.1	183.1.1.1.1
184	184.1	184.1.1	184.1.1.1	184.1.1.1.1
185	185.1	185.1.1	185.1.1.1	185.1.1.1.1
186	186.1	186.1.1	186.1.1.1	186.1.1.1.1
187	187.1	187.1.1	187.1.1.1	187.1.1.1.1
188	188.1	188.1.1	188.1.1.1	188.1.1.1.1
189	189.1	189.1.1	189.1.1.1	189.1.1.1.1
190	190.1	190.1.1	190.1.1.1	190.1.1.1.1
191	191.1	191.1.1	191.1.1.1	191.1.1.1.1
192	192.1	192.1.1	192.1.1.1	192.1.1.1.1
193	193.1	193.1.1	193.1.1.1	193.1.1.1.1
194	194.1	194.1.1	194.1.1.1	194.1.1.1.1
195	195.1	195.1.1	195.1.1.1	195.1.1.1.1
196	196.1	196.1.1	196.1.1.1	196.1.1.1.1
197	197.1	197.1.1	197.1.1.1	197.1.1.1.1
198	198.1	198.1.1	198.1.1.1	

Winners of the event:

PLACE	TEAM NAME	MEMBERS NAME	COLLEGE
1 <sup>ST</sup> PLACE	INNOVATIVE SPHERE	<ul style="list-style-type: none"><li>• Sharven G S</li><li>• Aaron Ranjith S</li><li>• BalaKumaran T</li><li>• Mouli Vignesh K</li></ul>	Jerusalem College of Engineering
2 <sup>ND</sup> PLACE	DEVICE DREAMERS	<ul style="list-style-type: none"><li>• B. Shruthika</li><li>• V. Sai Sruthi</li></ul>	Sri Venkateswara College of Engineering
3 <sup>RD</sup> PLACE	CYPHER ASSASINS	<ul style="list-style-type: none"><li>• Madhav B</li><li>• Subash V</li></ul>	Sri Venkateswara College of Engineering

Report by:  
Mr.SRIVARSHINI S (III-Year BCE-5)  
Honetary Treasurer, IETE-SF

## REPORT ON CONNECTIVERSE

Connectiverse was organized as a part of Upagraha'23 by the Department of Electronics and Communication Engineering. Connectiverse was organized to assess the participants' technical skills, logical reasoning, creativity, and problem-solving capabilities. The event consisted of three rounds. Connectiverse was conducted on 12<sup>th</sup> October 2023 between 9:00 AM & 12 PM.

Commencement of the event	October 12 <sup>th</sup> 2023 (9 AM IST)
End of the event	October 12 <sup>th</sup> 2023 (12 PM IST)
Total Teams	51
Total Participants	102

The judges for the event were Mr. S P Srivignana Subramanian, Assistant Professor and Mrs. S M Abinaya, Assistant professor.

The event consisted of a total of 3 rounds and it commenced at 9 AM in CB531 and CB532. The rules and regulations were announced to the participants by the student coordinators.

The first round is rearranging letters, filling the crossword, and forming a word using the letters in the shaded boxes. As per the evaluation criteria, 18 teams were shortlisted for Round 2 which is a memory-based trivia round. The further short listing enabled the best 7 teams to participate in the final round, which is a buzzer round called connections. Participants had to find the technical words by connecting the pictures that were presented on the screen. The final judgment was made based on the number of words found by each team within the time limit.

The student coordinators for the event are Mr. Lok Ranjan P (III-year ECE-B) and Ms. P.U.Saambarvi (III-year ECE-B).

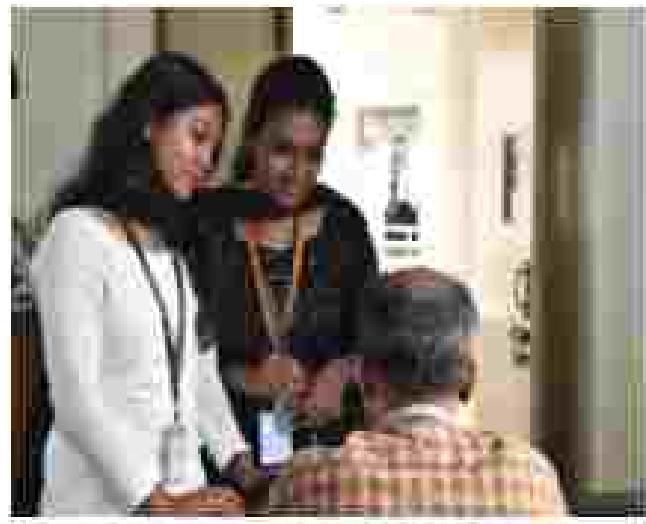
Flyer of the event:



Snapshots of the event:



Compass of Round 1-Crossword.



Round 2-Memory based round

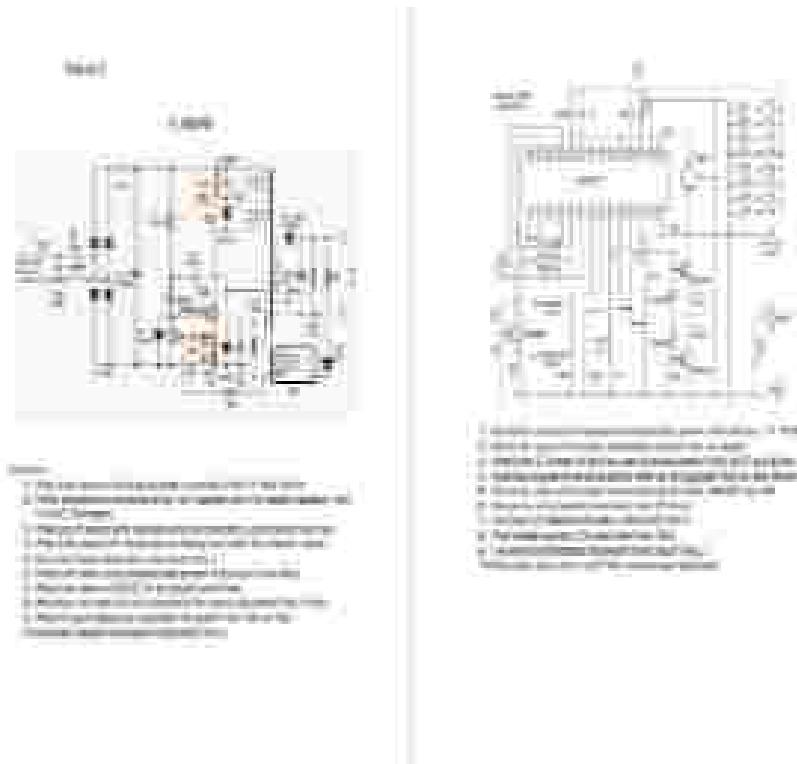


Round 3- Participants trying to find the woods

## Sample Question Paper for Round 1:



## Question Paper for Round 2:



Sample Questions for Round 3:

Whenuata Bay



Bonito mackerel



## **Attendance Sheet:**

## Round 1

This is a grayscale image of two pages from an old ledger or account book. The left page contains several columns of handwritten text, likely dates, descriptions, and monetary amounts. The right page continues the sequence of entries. A red circular stamp is located at the bottom left of the left page. The handwriting is cursive and appears to be in ink.

## **Round 2**

## **Round 2**

## Evaluation Sheet:

### Round 2

No	Team name	Results	
		Score	Time
1	Scorpio - 1	100	1:44.1
2	Scorpio - 2	100	1:44.1
3	Scorpio - 3	100	1:44.1
4	Scorpio - 4	100	1:44.1
5	Scorpio - 5	100	1:44.1
6	Scorpio - 6	100	1:44.1
7	Scorpio - 7	100	1:44.1
8	Scorpio - 8	100	1:44.1
9	Scorpio - 9	100	1:44.1
10	Scorpio - 10	100	1:44.1
11	Scorpio - 11	100	1:44.1
12	Scorpio - 12	100	1:44.1
13	Scorpio - 13	100	1:44.1
14	Scorpio - 14	100	1:44.1
15	Scorpio - 15	100	1:44.1
16	Scorpio - 16	100	1:44.1
17	Scorpio - 17	100	1:44.1
18	Scorpio - 18	100	1:44.1
19	Scorpio - 19	100	1:44.1
20	Scorpio - 20	100	1:44.1

### Round 3

No	Team name	Results	
		Score	Time
1	Scorpio - 1	100	1:44.1
2	Scorpio - 2	100	1:44.1
3	Scorpio - 3	100	1:44.1
4	Scorpio - 4	100	1:44.1
5	Scorpio - 5	100	1:44.1
6	Scorpio - 6	100	1:44.1
7	Scorpio - 7	100	1:44.1
8	Scorpio - 8	100	1:44.1
9	Scorpio - 9	100	1:44.1
10	Scorpio - 10	100	1:44.1
11	Scorpio - 11	100	1:44.1
12	Scorpio - 12	100	1:44.1
13	Scorpio - 13	100	1:44.1
14	Scorpio - 14	100	1:44.1
15	Scorpio - 15	100	1:44.1
16	Scorpio - 16	100	1:44.1
17	Scorpio - 17	100	1:44.1
18	Scorpio - 18	100	1:44.1
19	Scorpio - 19	100	1:44.1
20	Scorpio - 20	100	1:44.1

**Winners of the Event:**

Place	Team Name	College Name	Members
I Place	BLINDEYES	Sri Venkateswara College of Engineering	Ashwin R Aishley G
II Place	TACOBELLS	Sri Venkateswara College of Engineering	Saritha U R.J.Tanya

**Report by:**

**Mr LOK PANYAN P (III-year, ECE 5)**

**Executive Member, ECEA**

## REPORT ON E-GADGET MARKETPLACE

E-Gadget Marketplace was conducted on 12<sup>th</sup> October 2023. This event was a part of the national-level symposium Upgrahs'23 conducted by the Electronics and Communication Department, SVCE. E-Gadget Marketplace was a technical event conducted to check the understanding and application of Electronics devices and circuits among the students. A total of 32 students participated in the event.

Commencement of the event	October 12 <sup>th</sup> 2023 (9:00AM IST)
End of the event	October 12 <sup>th</sup> 2023 (3:00PM IST)
Total Teams	16
Total Participants	32 participants

The event consists of 2 rounds. The first round was MCQ based, in this round the teams will be given with a problem case where they would be given with various devices as choices, from which they would be instructed to choose one device to resolve the problem and should give a strong and detailed justification for the same choice, justification will be evaluated by judges. Based on their cut-off score in round 1, the top scorers were shortlisted for round 2.

In second round, a circuit design would be given to each team, and initially the teams would be provided with a capital value. The components required for the circuit will be provided but with a particular capital value. The teams should select the required and most economical components for their circuit and build, also execute to get the required output. Here both the capital value used and the time taken will be considered for the scoring. The judgment was done based on the score, time taken and time to complete the task.

Mrs. Mary Cynthia, Assistant professor, Mrs. S. M. Meizabeen, Assistant professor and Mr. D. Silambaresan, Assistant professor, were the judges for the event. The student coordinators and mentors for the event were Mr. R. Nandhaman and Ms. S. Kavitha.

Flyer of the event:



### Attendance Sheet of the event:



Snapshots of the event:



Participants engaged in a quiz



Participants crafting a device based on the requirements.



#### Participants, attributes, connections to the event, policies

### Evaluation Sheet:

[View comments](#) | [Report](#)

See also [Biology](#), [Chemistry](#), [Physics](#)

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### Question Paper for Round 1(MCQ):

### SRI VENKATESWARA COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING UPACRAHA '23

TEAM NAME:

TEAM LEAD MOBILE NUMBER:

E-GADGET MARKETPLACE

ROUND - I

SET-1

1. Question: In order to intricately synchronize two distinct operations within your circuit, which electronic component should you employ for the meticulous generation of time delays?

Choices:

- a) IC 4066
- b) Capacitor
- c) IC 555
- d) IC LED

2. Question: You are tasked with enhancing the strength of feeble electrical signals in your circuit design. Which electronic component should you strategically select for this purpose?

Choices:

- a) Op-amp
- b) Capacitor
- c) Rectifier
- d) Transformer

### SRI VENKATESWARA COLLEGE OF ENGINEERING

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### UPACRAHA'23

TEAM NAME:-

TEAM LEAD MOBILE NUMBER:-

### E-GADGET MARKETPLACE

### ROUND -I

### SET-1

1. Question: In the realm of your project, where the goal is to convey data across vast expanses without the constraints of wires, which electronic component stands as the signal emissary, orchestrating the symphony of wireless communication?

Choices:

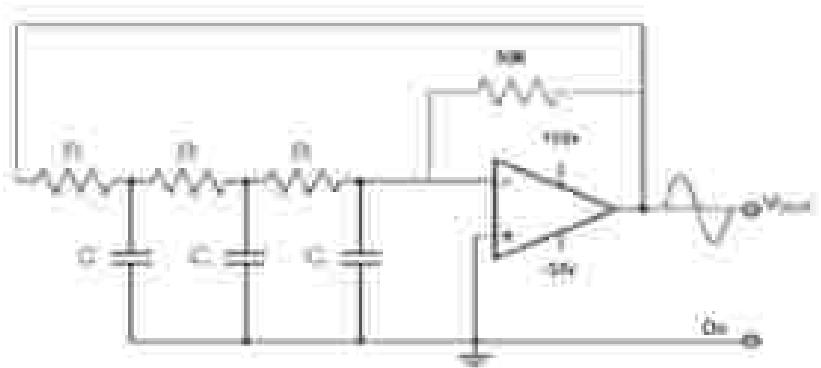
- a) Transmitter
- b) Capacitor
- c) Antenna
- d) Transistor

2. Question: In the realm of your project, where the pursuit is the exact measurement of force, which electronic instrument should you employ as your precision maestro, conducting the delicate symphony of force measurement with finesse?

Choices:

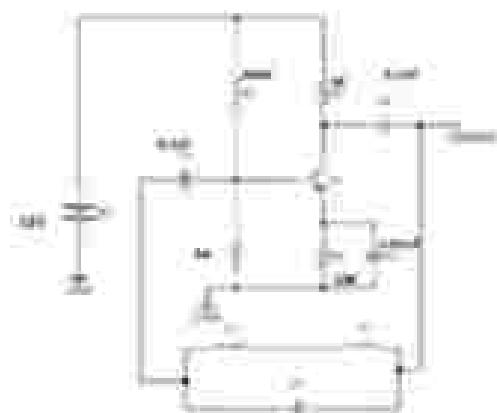
- a) Pressure sensor
- b) Heat sensor
- c) Weight sensor
- d) Temperature sensor

### Circuit Design for Round 2:



1000

[View more in Our most 125 Authors in This Issue](#)



17

For more information, contact the U.S. Department of Justice.

**Winners of the event:**

S.N O	POSITION	TEAMNAME	PARTICIPANTSNAME	COLLEGE
1	WINNER	ELECTRICAL	R.GNAESWARAN S.ARAVINDAN	Adhiparasakthi Engineering college, Mehkarurathur
2	SUPPERLUP	INCREDIBLES	HARIPRIYA J DHANUSHRI J	SVCE

**Report By:**  
**MR.NANDHANAN R (III Year, ECE-B)**  
**Mentor, RAIC**

## REPORT ON INTELLECT NEXUS

Intellect Nexus was organized by the Department of Electronics and Communication Engineering as an event in Upagruha 13, National Level Technical Symposium. Intellect Nexus was aimed at scouting for the best research paper by the students. A total of 42 teams (102 students) registered for the event, out of which 30 teams (80 students) were shortlisted based on their paper's abstract that was submitted during registration process.

Commencement of the event	October 12 <sup>th</sup> 2023 (10:30 AM IST)
End of the event	October 12 <sup>th</sup> 2023 (12:30 PM IST)
Total Teams:	42 Teams
Total Participants:	102

The rules of the event were explained to all the participating teams by the event co-ordinator. Paper Presentation consisted of one straight forward round, where shortlisted teams were equally divided among 5 panels of judges, for evaluation. All the judges took around an hour to analyse their set of papers. Out of the 30 teams shortlisted, 3 teams were given prizes after the individual judgement was completed. For each paper, a total of 50 marks were awarded based on 3 unique but necessary categories which are presentation, novelty and viva. After the panel of judges discussed amongst themselves, the winner and runner teams were announced. The event was concluded by 12:30 pm.

The event coordinators were Mr.Umesh Ananth S (III-year ECE-C) and Mr.Anish Krishnan (III-year ECE-A). The judges for the event were Dr. P. Jothilakshmi, Professor A-HoD, Department of ECE, Dr. N. Kumantharan, Professor, Dr.R.Gayathri, Professor, Dr.M.Athappan, Associate Professor and Dr.D.Menaka, Associate Professor.

Flver of the event:



The banner features the logos of SVCE, UPADRAHA 23, RAVE, and a circular icon with a brain-like pattern. The main title "INTELLECT NEXUS" is displayed in large, glowing blue letters. Below it is a magnifying glass icon over a circuit board background, with the text "UNVEIL YOUR RESEARCH PROWESS!". A calendar icon indicates the date "12/10/2023". The bottom section includes contact information for Umesh Anandh S and Anish Krishnan, along with a QR code for registration.

**INTELLECT NEXUS**

UNVEIL YOUR RESEARCH PROWESS!

12/10/2023

**CONTACT:**

Umesh Anandh S +91 93848 43066  
Anish Krishnan +91 98840 16804

REGISTER HERE



Snapshots of the event :



Team presenting their paper to Dr. P. Goyathri, Professor, ECE



Team presenting their paper to Dr. P. Jayabalaji, Professor, ECE



Team presenting their paper to Dr. D. Manick, Associate Professor, ECE

## Sample Paper presented by one of the teams:

### **RADIO WAVES AND ITS MAJOR IMPACT BY COMMUNICATION**

Dinesh Chauhan, Bhupesh K.

#### **Radio Waves**

Radio waves refer to the electromagnetic waves that are transmitted across space from one, though not so distant from earth source(s) using waves or its other transmitters. The frequency of a wave is the number of oscillations per second, and the greater a wave is have a wavelength, which is related to its frequency. A radio wave is more efficiently emitted from a wave source whose length is a suitable fraction of a wavelength, such as half-waves, and happens of radio waves is the time when the resulting radiation is near a suitable fraction of a wavelength, resulting that less energy released oscillations can from the form of a resonance, and only limited wavelength, presenting a large source of wavebands.

#### **Radio Propagation**

Radio propagation is the way radio waves travel or propagate when they are generated from one place to another and effectively depends on in which they travel and in particular on what they propagate around the Earth or between parts of the atmosphere.

#### **Factors Affecting radio propagation**

There are many factors that affect the way in which radio signals or radio waves propagate. These are determined by the

medium through which the radio waves travel and the various objects that may appear in the path. The properties of the path to which the radio signals will propagate govern the level and quality of the received signal.

Refraction, refraction and diffraction may occur. The receiver radio signal may receive a combination of several signals that have travelled by different paths. These may add together to produce stronger amplitude and in addition to this the signals resulting in different paths may be delayed causing distortion of the received signal. It is absolute very important to know the likely radio propagation characteristics that we likely to present.

There are many radio propagation anomalies and this. Often signals may travel by straight lines, radio waves travelling along the type of radio propagation interacting with another. However to build up an understanding of how a radio signal moves is crucial. It is necessary to have a good understanding of all the possible methods of radio propagation. By understanding these, the anomalies can be better understood along with the performance of any radio communication system for us now.

## How do radio waves carry information?

The basic principle is simple. At one end, a transmitter "modifies" or modulates message by varying the amplitude or frequency of the wave - a bit like Morse code. At the other, a receiver tuned to the same wavelength picks up the signal and "decodes" it back to the original message, images, data, etc.

All wireless communication systems, from the home router around up to the satellite, are based on this principle, even though increasingly complex technologies are of course used to modify these electromagnetic signals, improve their quality, reduce the amount of information or make transmission secure.

We use radio waves in almost every aspect of our daily lives. In the morning we get the latest news from our AM or FM radio, travel on our mobile, the television, mobile help us pay the most pictures throughout the day such as our mobile, laptop or parking meter using NFC connection technology; they enable us to share the information in any of its necessary types, the images, audios, etc., and they also enable connected objects to communicate thanks to various devices such as WiFi, Bluetooth, ZIGBEE, DECT, and of course personal and professional communication. They have become indispensable.

## Antenna Types

An antenna with a parabolic shape like common electromagnetic waves, such as radio waves, microwaves, or satellite signals, over a single point is referred to as a parabolic antenna, also known as a parabolic reflector. Highly focused and directional signal reception or transmission is easily possible by this design. Due to their capacity to capture and transmit signals with high gain and high bandwidth, parabolic antennas are frequently used in applications like satellite communications, microwave links, and radar telescopes.

## History of an Antennas

The first radio antenna were built by Heinrich Hertz, a professor at the Technical Institute in Karlsruhe, Germany. Heinrich Hertz's established half-wave dipole transmitting antenna and current half-wave receiving loop operating at 1 MHz in 1888.

## Antennas

An antenna (or aerial) is an electrical device which converts electric power into radio waves, and vice versa. It is usually used with a radio transmitter or radio receiver. In transmission, a radio transmitter applies an oscillating radio frequency (rf) voltage to the antenna terminals, and the antenna radiates the energy from the current (radiofrequency) waves (radio waves). Antennas are not electronic eyes and ears in the world.

## Walkie Talkies

A walkie-talkie is a portable, handheld radio with two transceivers in motion. During World War II, has probably been attributed to Donald Hings, Motorola engineer, radio engineer Alfred J. Gross, and Henry A. Margenau. Radio stations were usually made for military, field artillery, and tank groups, and after the war, walkie-talkies were utilized for public safety, law enforcement and communication use such.

All radios communicate to function, but every radio is fitted with a full battery indicator. To have a radio right away it is to be available at the world and select "Transmitter Options" to open a second panel window. Here you can see information about the radio's specifications and current settings, power is on or off, uninterrupted the battery, adjust the volume, add or both to functions for starting, launching, saving the radio, and others and you print responses.

Walkie Talkies are two-way radio and will receive and reproduce voice at a distance. "Voice" includes both the direct conversion and to allow another's conversion, and the message in radiographs. This can be received in the transmitting radio by using the mic. The reproduction will be able to control volume and amplitude if the receiving radio is using an audio otherwise, it will receive noise in the reception depending on the volume setting.

The obvious, you AF this is to communicate on multiple frequencies but

have thought global that has to be often to a single-player tactic throwing your voice to other radios where you work them. Then a radio anywhere, power it on, and switch to a given frequency. Make sure it has no noise, and pump up the volume. Then have a portable transceiver to the same frequency, go to my phone site within the transceiver range, and there. Properly working should commence on the receiving radio where you can encode clear, make them have a melody on—if you feel especially during—has a Melody.

It is a good idea to use the Advanced Frequency Translation System (AFRS) radio feature, which is confirmed every game. The players you own are under our battlefield link to the AFRS, specifically, amplitude. Alternatively, radios to vehicles be linked to the AFRS, the more mobile. Likewise, the AFRS is important to know for the intelligence, event and progress itself.

## Development

The idea of walkie-talkies did not yet much interest until the war started in 1939. After a few years, the Germans had improved them so that the allies could use them. There were also enhanced and renamed. The British, German, and American all had their own systems.

Moreover, also produced the handheld AM RCM 3M radio during World War II, and it was called the "walkie-talkie" (WTF). All the forces are often mentioned today.

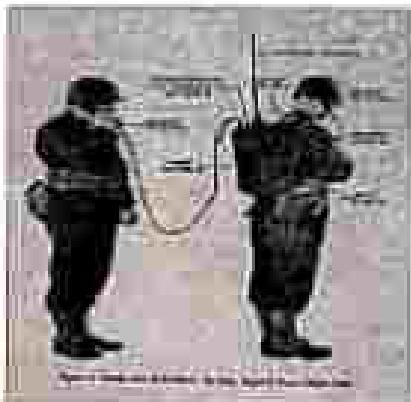
## Facts

- The first mobile communication devices were two-way radios.
- The first mobile phone had a keypad like a telephone.
- In space, two-way radios are used for communication.
- Technically, your cell phone functions as a two-way radio.

## Range, Reliability

A longer distance, a stronger battery, or a repeater can all extend the range of a basic long-range walkie-talkie's coverage by up to 1.5 miles. In ideal circumstances, a long-range walkie-talkie can travel up to 10 miles with the aid of these extra accessories.

Walkie talkies are more dependable in relation with poor reception because they don't rely on cellular networks. Additionally, the batteries in walkie-talkies are made to last 44 to 60 minutes.



## Components

Walkie-talkies work by using their own transmitter and receiver radio messages between two or three devices. Here's a simplified explanation of how they work:

1. Microphone: When you speak into the microphone, a microphone converts the sound into electrical signals.

2. Transmitter: These electrical signals are then sent to a transmitter, which converts the radio frequency waves. The transmitter modulates the radio waves to match a specific frequency within the radio spectrum.

3. Antenna: The modulated radio waves are transmitted through the omnidirectional antenna. The antenna radiates the radio waves over the air.

4. Receiver: On the other radio-end, there is a receiver with its own antenna. It picks up the radio waves transmitted by the first walkie-talkie.

5. Demodulator: The receiver demodulates the received radio waves, removing the encoded radio signal.

6. Speaker: The radio signal is then sent to a speaker, which converts it back into sound that you can hear.

Depending on the power and frequency of the devices as well as any obstructions in the environment, this two-way communication process enables people using walkie-talkies to talk to each other in real-time over a limited range. Walkie-talkies are popular in many different industries, including public safety, construction, and industrial operations. They are frequently used for short-range point-to-point communication.

#### Related Devices and Alternatives

- ALD
- ADVA Small Cell
- Router
- Two Way Walkie Talkie
- Day/Night
- PoC-Anywhere
- Reach-ETT
- PositionETT

#### Comparison of Walkie-Talkie with Phone

There is no doubt that smartphones have changed the way we go about our lives. But, in many situations, they aren't the only communication option, and modern walkie-talkies are more than a match for them.

In this section, we look at various aspects of how the two methods compare in a head-to-head comparison.

#### 1. Ease of use:

It is easy to justify that walkie-talkies are simpler to use than mobile phones and leave it at that. After all, to communicate with a walkie-talkie is simply a matter of pressing a button and talking, whereas with a phone, you need to unlock it, pull up the right app, open your contacts, and so on.

But the ease of use that a walkie-talkie offers runs deeper than just this. While the simplicity is the foundation of an efficient communication system, the benefits of mobile communication can be a game-changer!

One-to-many communication—While in one device or another, a mobile solution can offer limited one-to-many functions, this is not achievable without software and technical means. On the part of the user, walkie-talkies make this process as simple as pressing that transmit button.

Simple to setup—Imagine a large team meeting where a new team member is introduced. If it's a company mobile phone, then a new phone will need to be set up from scratch with all the necessary software, contacts etc.

If they use their own phone, certain parts of the necessary steps will still be required. With a walkie-talkie solution, you simply hand them their radio, and the job's done!

**Device efficiency** - Unlike mobile phones, which have a large range of functions, walkie-talkies are designed with one goal in mind - To make communication as efficient and simple as possible. In situations where communication is essential and reliable, walkie-talkies are the most efficient solution.

### 2. Operating Range

Mobile phones are restricted by the necessity to be within range of a cell phone tower. This means that in many places where communication is of the highest importance, a mobile phone can be problematic.

Signal and service areas, network outages, power cuts, all these factors can stop a mobile device from working just when you need it the most.

**Compare this against walkie-talkies** - Two-way radios are inherently their own broadcast range, there is no reliance on third-party networks or cell providers, as long as you are within range of your friends, a walkie-talkie works regardless of the location.

### 3. Cost

When comparing the two devices, the walkie-talkie option comes out as the clear winner in the cost department.

**Function cost** - It doesn't matter whether you have a comparison between the cost of

the cheap models or expensive models, A walkie-talkie solution will always come out as the cheaper option.

There is also what you get for your money. A cheap smartphone will undoubtedly underperform and be a source of frustration. Whereas, your basic walkie-talkie will still provide instant and crystal-clear communication.

**Operating costs** - There are no payments, no data or roaming charges, and no cell charges will necessarily apply. Once the radio is purchased, that's the end of the costs.

### 4. Reliability

Whether we are talking about using data services or a way of keeping in touch with our kids as they camp out in the garden, advanced technology or anything in between, when it comes to reliability, walkie-talkies are the hands-down winner.

We all know that smartphones are delicate, but look at them wrong, and the screen shatters. Two-way radios are none of these as designed to be all but unbreakable for surviving and functioning in the harshest of environments, the case has walkie-talkies are far more rugged than smartphones.

### 5. Battery life

Another area where cell phones don't score down to well battery life. Even a good smartphone will die quickly as battery

page with light usage. On a busy day, it consumes might just keep through a weekday without needing to be recharged.

On average, a good set of wireless audio will have double the battery life of a mobile phone, and even cheaper sets will easily outperform mobile phones.

#### 6. Safety Features

Even if we look at some of the advantages of wireless audio that we have already covered, you can see how wireless audio is the clear winner when it comes to safety. In fact, two-way communication without the requirement for a mobile phone in safety-critical situations—two-way radios are the clear winner.

But that's not all; we have considered the safety features that many two-way radio models include. Amongst these are long-range functions, real-time location, and emergency broadcast features.

This makes them ideal as a safety tool for many business applications, but also for drivers, anglers, and extreme sports like mountain biking.

#### The Conclusion

When we have a direct comparison between two-way radios and mobile phones, it appears that both can possibly serve as

#### Radio Waves Impact in Military

Despite the challenges the military faces, there are still opportunities in radio technology. The military is always looking for new ways to improve its communications systems. This includes developing new radios, improving existing radios, and finding new ways to use radio waves.

One area that the military is currently exploring is using radio frequency systems in military operations.

High-performance radio frequency systems are essential for the military. They enable soldiers to communicate with one another and coordinate their efforts in the field. However, these systems are also very expensive.

A way to reduce costs is to allow the public sector to access these systems. This would enable businesses and other organizations to use them for their own purposes, which would, in turn, help to reduce the cost of these systems for the military.

There are a number of benefits that would come from this arrangement, including increased competition and innovation in the development of these systems. In addition, it would allow the military to focus on its core mission rather than having to worry about managing and regulating these systems. Ultimately, this could lead to better outcomes for both the military and the public sector.

## Radiation Patterns of Parabolic Antennas

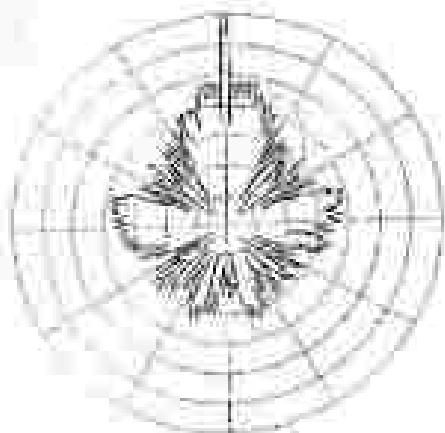
The radiation pattern of a parabolic antenna consists a major lobe, which is aligned along the axis of aperture, and several small minor lobes. Very narrow beams are possible with this type of antenna.

The gain  $G$  of an antenna with parabolic reflector can be determined as follows:

$$G = 16\pi \lambda^2 / D^2$$

(a) Beam width in azimuth angle

(b) Beam width in elevation angle



### Ships and Aircrafts

Radar waves play a vital role in both ships and aircraft for communication, navigation, and safety purposes. Here are some common uses:

**Communication:** Radar waves are used for voice and data communication between

ships and aircraft and with ground-based stations. This includes air traffic control, maritime VHF radios, and aviation communication systems like VHF and HF radios.

**Navigation:** Radio waves are essential for navigation systems, including the Global Positioning System (GPS). GPS relies on signals from satellites to determine the precise location and speed of ships and aircraft.

**Weather Information:** Radar waves are used to track weather information and updates to ships and aircraft. This information is vital for safe navigation and flight planning.

**Emergency Communication:** Ships and aircraft use emergency beacons that transmit radio signals to indicate distress situations. Pilots and rescue operators rely on these signals to locate and rescue vessels or aircraft in distress.

**Radar Systems:** Radar waves are the basis for radar systems, which are used for collision avoidance, weather monitoring, and navigation in both ships and aircraft. Radar helps detect obstacles and other vessels or aircraft in the vicinity.

**Radio Direction Finding:** Ships and aircraft use radio direction-finding equipment to determine the direction of radio signals. This is particularly useful for locating the source of distress signals or identifiers.

**Wireless Communication:** Within ships and aircraft, radio waves are used for various onboard wireless communication systems, including Wi-Fi for passengers, crew, and internal communications.

In summary, radio waves are integral to the safe and efficient operation of ships and aircraft, providing means for communication, navigation, safety, and entertainment purposes.

#### References

1. "The Art of Radiotelegraphy" by William G. Bennett
2. "Wireless Telecommunications Hand" by Bruce Barnes
3. "The Radio Attendant Handbook" by ARRL
4. "Radio Wave Propagation and Antennas" by John Dowell
5. "Radio Control for Model Ships, Boats, and Aircraft" by Malcolm McPhee

#### Links

1. "[https://en.wikipedia.org/wiki/Wireless\\_technology](https://en.wikipedia.org/wiki/Wireless_technology)"

## Evaluation sheet :

20/12/2018

NAME & CLASS		PERIODIC ASSESSMENT TESTS			
NAME	CLASS	TEST 1	TEST 2	TEST 3	TEST 4
Tanayashri Sathish K.	8th Standard	12	12	15	39
Sapna	8th Standard	10	10	10	30
Shreya	8th Standard	12	15	15	43

Pranav	10th Standard A	12	10	10	32
Shivam	10th Standard B	12	10	10	32
Shreyas	10th Standard C	12	10	10	32
Shreya	10th Standard D	10	5	10	25

P. P. Prakash  
Physics Teacher  
P. G. College

### Attendance sheet of the event:

John C. Stetson  
Montgomery, N.Y.

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#### **REFERENCES**

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www.jstor.org

#### REFERENCES

Winners of the event :

PLACE	TEAM NAME	MEMBERS NAME	COLLEGE
1 <sup>ST</sup> PLACE	AGRI_WIZARDS	Vaishnavi S Niveditha S	Sri Sairam Engineering College
2 <sup>ND</sup> PLACE	DEFENDERS	Dharshini B.S E.Divya Dharshini M.Devadashini Dhanashree.S	R.M.K Engineering College
3 <sup>RD</sup> PLACE	SHYENA	Nandhirha B S.Sairamkhaa Karthika G	Sri Sairam Institute of Technology

Report by:  
Mr. UMESH ANANDH(S (III-Year, ECE-C))  
Executive member, IETE-SF

## REPORT OF TECH-CPR

Tech-CPR was organized as a part of Upagruha '23 by the Department of Electronics and Communication Engineering.

The event was aimed towards bringing out the technical skills of the participants and also to check their ability of completing a task in the timeframe provided. A total of 35 teams (70 students) participated in the event.

Commencement of the event	October 12th 2023 (9:30 AM IST)
End of the Event	October 12th 2023 (12:00 PM IST)
Total Teams	35
Total Participants	70

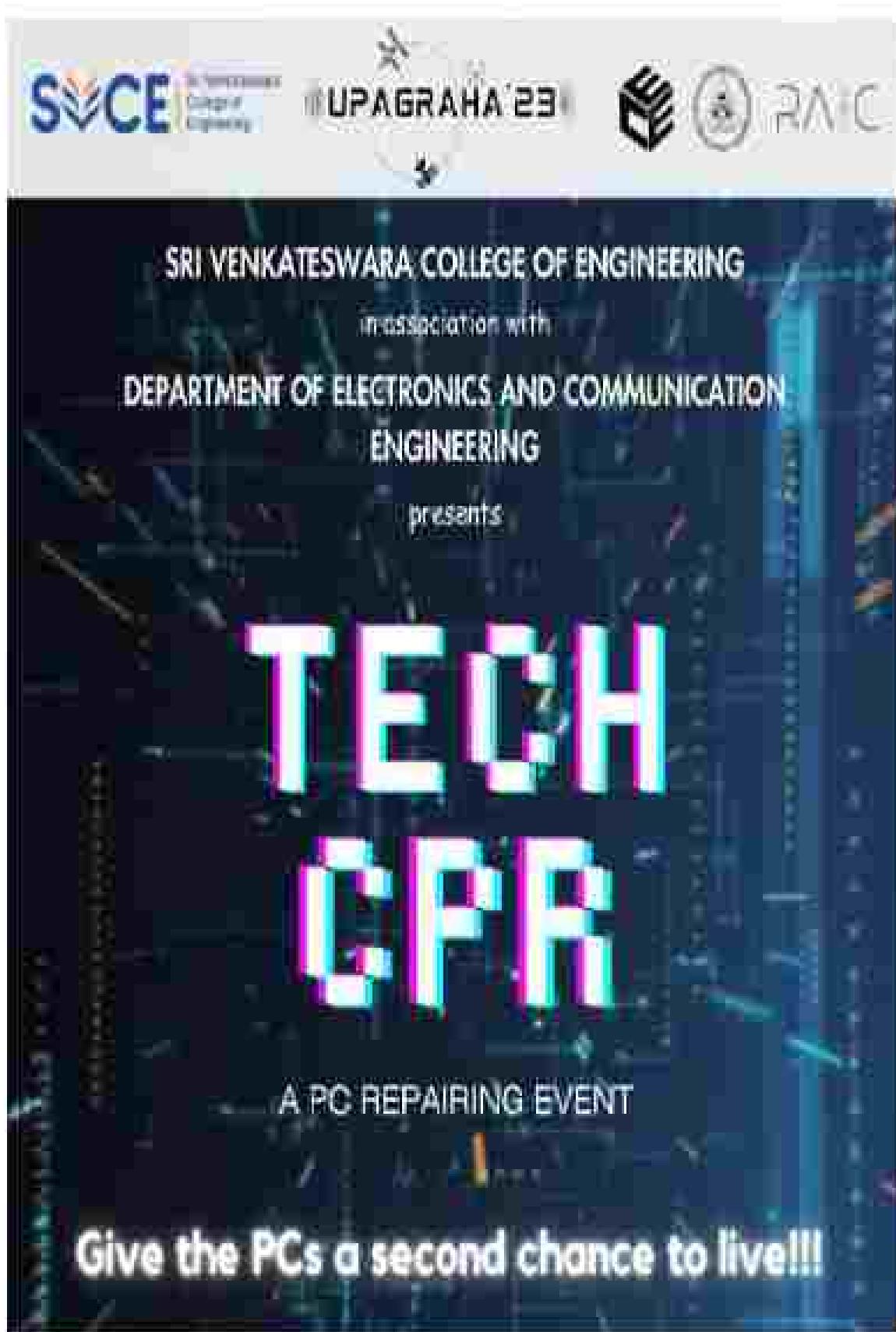
The judges for the event were Mr P Arul, Assistant professor, Mr N Sathish, Assistant professor and Mr P Mathukumaran, Assistant professor.

The event consisted of a total of 2 rounds and it commenced at 9:30AM in CHS31 and 332. The rules and regulations were announced to the participants by the student coordinators. The round 1 was a MCQ round in which the questions were based on logical reasoning and brain teasers. The duration of the first round was for 30 minutes.

Out of the total 35 teams, 8 teams were shortlisted based on their scores and were qualified to the second round. In the second round, participants were expected not only to identify computer faults but also to handle additional tasks that will be revealed spontaneously. The winner was determined by their ability to complete these tasks within the specified time limit.

The event coordinators were Mr K Udhaya (III-year ECE-C), Mr R B Anushay (IV-year ECE-A), Ms S Srivashini (II-year ECE-C) and Ms S S Subasree (III-year ECE-C).

Flyer of the event:



Attendance sheet of the event:



1. Participants	Participants Sister J. Bhagat Ji Bhagat Ji Guruji	Participants Guruji Guruji Guruji	Participants Guruji Guruji Guruji
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5. Participants	Participants Guruji Guruji Guruji	Participants Guruji Guruji Guruji	Participants Guruji Guruji Guruji

### Snapshots of the event:



Participants rectifying the fault in the computer system.



Debugging the errors in the CPU

### Question paper for round 1 (MCQ):

1. Question: Which component of a computer is responsible for storing data in a long term, non-volatile fashion?  
  - a) CPU.
  - b) RAM.
  - c) Hard Disk Drive (HDD)
  - d) SSD(Solid State Drive)
  
2. Question: What is a race condition in concurrent programming?  
  - a) A condition where two threads compete to access shared resources simultaneously, leading to unpredictable behaviour.
  - b) A situation where multiple threads cooperate perfectly to complete a task.
  - c) A deadlock situation in which all threads are stuck waiting for each other.
  - d) A condition where a program runs without any synchronization issues.
  
3. What is the first step you should take when troubleshooting a computer that won't turn on?  
  - a) Check the monitor.
  - b) Reinstall the operating system.
  - c) Verify the power source and connections.
  - d) replace the motherboard.
  
4. Which of the following tools is commonly used to check the voltage output of a power supply unit (PSU)?  
  - a) Multimeter.
  - b) Screwdriver.
  - c) Powermeter.
  - d) Tweezers.

### Evaluation sheet:

#### **Winners of the event:**

PLACE	TEAM NAME	MEMBERS NAME	COLLEGE
1 <sup>ST</sup> PLACE	DON T KNOW TECHIES	P.MEENALOSHINI R.PRAVEEN KUMAR	Sri Venkateswara College of Engineering
2 <sup>ND</sup> PLACE	DUO OF DARKNESS	R.S.ADITYA VARDHAN G.S.HARESH KRISHNA	Sri Venkateswara College of Engineering

**Report by:**

Mr. KUDHAYA (III YEAR ECE)

Executive Summary ESEA

## REPORT ON BIIFLOW

BitFlow was organized as a part of Upagruha'23 by the department of Electronics and Communication Engineering. Bitflow was aimed at putting the participants to experience the logic behind every digital circuit and was given a chance to design a logic circuit with the circuit simulator we provided (LogiSim Evolution). A total of 50 teams (105 students) participated in round 1 (MCQ) of the event and out of which 6 teams were shortlisted for round 2 based on their performance in round 1.

Commencement of the event	October 12 <sup>th</sup> 2023 (10:30 AM IST)
End of the event	October 12 <sup>th</sup> 2023 (3 PM IST)
Total teams	50
Total participants	105

The judges for the event were Mrs.B.Sarala, Assistant professor, Mr. L.K. Balaji Vignesh, Assistant professor and Dr.R.Priyadarshini, Assistant professor.

The event coordinators for the event were Mr Ram Selvappan A (III Year BCE-B), Mr Dharsan A (III Year BCE-A), and Mr Prabhu R (III Year BCE-B).

The event commenced at 10:30 AM and the participants were given the question (MCQ type) paper for Round 1. A total of 50 teams consisting 105 participants were enthusiastically solving the questions and the Round 1 got over by 11:00 AM. The top 6 teams were selected for Round 2 of the event based on their performance in the MCQ question paper. Round 2 commenced at 2:00 PM and the participants were introduced to the simulation software (LogiSim-Evolution). The participants were given questions for designing the digital circuits in the simulator. The participants tried their best to provide an optimal solution for the problem they were given in the given amount of time. The evaluation was done by the judges and out of 6 teams, a winner and a runner were chosen based on their understanding, solution, successful execution and viva. The winner and runner were announced in the valedictory event.

Flyer of the event :



**Snapshots of the event:**



*Participants asking questions during round 1*



*Participants solving problems during round 2*

## Attendance sheet of the event:

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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## Round 1 MCQ sample questions:

1. What is a Gray code, and how is it different from binary code in digital design?
  - A. A Gray code is a code used for error correction.
  - B. Gray code is synonymous with binary code.
  - C. Gray code is a non-weighted code with only one bit changing at a time.
  - D. Gray code is used exclusively in analog circuits.
  - E.
2. Explain the concept of "edge-triggered" and "level-triggered" flip-flops in digital circuits.
  - A. Edge-triggered flip-flops respond to both rising and falling edges of a clock signal.
  - B. Level-triggered flip-flops respond to a continuous HIGH or LOW level on the clock.
  - C. Edge-triggered flip-flops have no clock input.
  - D. Level-triggered flip-flops have multiple clock inputs.
3. What is the purpose of a PAL (Programmable Array Logic) device in digital design?
  - A. To store data temporarily
  - B. To perform arithmetic operations
  - C. To generate clock signals
  - D. To implement custom combinational logic functions
4. Explain the concept of "asynchronous reset" and "synchronous reset" in flip-flops.
  - A. An asynchronous reset is controlled by a clock signal, while a synchronous reset is not.
  - B. An asynchronous reset is not controlled by a clock signal, while a synchronous reset is.
  - C. Both asynchronous and synchronous resets are the same.
  - D. Reset is not a feature of flip-flops.
5. What is a hazard in digital circuit design, and how can it be resolved?
  - A. A hazard is a bug in the circuit that cannot be resolved.
  - B. A hazard is an unintended transition in the output of a combinational circuit.  
It can be resolved using hazard detection and elimination techniques.
  - C. A hazard is a safety feature in digital circuits.
  - D. Hazards can only be resolved through trial and error.
6. What is the difference between a "combinatorial delay" and a "propagation delay" in digital circuits?
  - A. They refer to the same thing.
  - B. Combinatorial delay is the time taken for signals to traverse combinational logic, while propagation delay is the time taken for signals to travel through flip-flops.

- C. Combinational delay is the time taken for signals to travel through flip-flops, while propagation delay is the time taken for signals to traverse combinational logic.
- D. They are unrelated to digital circuit design.
7. What is the purpose of a multiplexer (MUX) in a digital design and how is it different from a demultiplexer (DEMUX)?
- A. A MUX selects one input from multiple sources, while a DEMUX takes one input and distributes it to multiple outputs.
- B. A MUX and a DEMUX are the same thing.
- C. A MUX takes one input and distributes it to multiple outputs, while a DEMUX selects one input from multiple sources.
- D. Both MUX and DEMUX are used for data storage.
8. What is a carry-ripple adder, and what are its limitations in digital circuit design?
- A. A carry-ripple adder is a type of adder that can handle any number of inputs.
- B. A carry-ripple adder is the fastest type of adder.
- C. A carry-ripple adder is a simple adder with a delay that increases with the number of bits, making it slow for large inputs.
- D. A carry-ripple adder has no limitations.
9. What is the concept of "fan-out" and "fan-in" in digital circuit design, and why are they important?
- A. Fan-out is the number of inputs a gate can accept, while fan-in is the number of gates a signal can drive. Proper fan-out and fan-in values are essential for circuit reliability and speed.
- B. Fan-out is the number of gates a signal can drive, while fan-in is the number of inputs a gate can accept. Proper fan-out and fan-in values are irrelevant in circuit design.
- C. Fan-out and fan-in have the same meaning in digital design.
- D. Fan-out and fan-in are not relevant concepts in digital circuit design.
10. In digital design, what is the significance of the race condition, and how can it be avoided?
- A. A race condition occurs when two signals arrive simultaneously at a flip-flop, causing unpredictable behavior. It can be avoided by proper circuit design and synchronization techniques.
- B. A race condition is a desirable feature in digital circuits.
- C. Race conditions cannot be avoided.

## Round 2 sample questions:

Q1. A person wants to design a transmission system which masks its data with particular sequence of codes as given below. For example he wants to '1,0,2,0,1' as the data in the system.

Data	Sequence Code	Masking	Masked Data
1	0	160	0
2	1	321	2
3	2	563	1
4	3	282	0
5	7	647	0
6	6	560	0

Your task is to help him build a circuit that generates the sequence codes at every clock pulse as given in the table.

Q2. Rohit is building a 8 bit processor's ALU and he needs to design a digital circuit which can store 2-bit binary data and also is capable of multiplying the data present by a factor of 2. The digital circuit should have the following inputs and outputs. The data present should not be lost upon continuous multiplication.

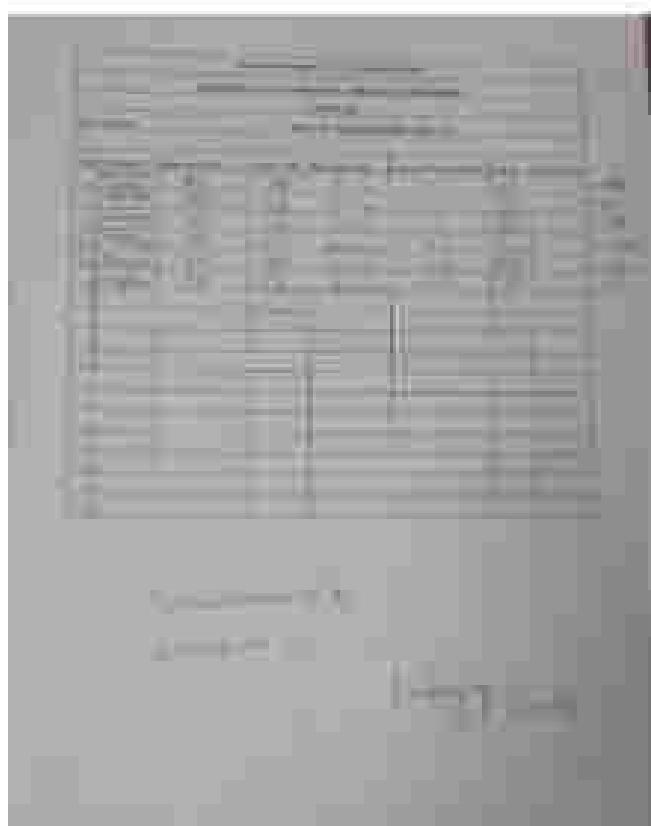
### Inputs:

- load** - Signal to load the data at next clock pulse
- m1** - Signal to multiply the data by a factor of 2 on next clock pulse
- clr** - Asynchronously clear the data present

### Output:

- The contents of the area stored

### Evaluation sheet:



### Winners of the event :

Place	Team Name	Members	College
1st	Techno Tumers	1. Sanjay 2. Hardikram 3. Sneha A	Sri Venkateswara College of Engineering
2nd	Zeroes	1. Roshan M 2. Vikash BG 3. Roobuk Ganeshwar Rao C	Sri Venkateswara College of Engineering

**Report By:**

**M RAMSOLAIAPPANA (III Year, ECE B)**

**Mentor, RAIC**

## CHIEF GUEST OF DAY-2

### About the Chief Guest :



Dr. V. Narayanan, a distinguished scientist and visionary leader in the field of rocket and spacecraft propulsion. Dr. Narayanan currently serves as the Director of the Liquid Propulsion Systems Centre (LPSC), a vital component of the Indian Space Research Organization (ISRO).

One of his significant achievements was leading the successful development of the C30 Cryogenic Stage for the GSLV Mk. III vehicle, a milestone in India's space endeavors.

Under his leadership, the LPSC has delivered numerous propulsion systems and control power plants for launch vehicles and satellites, making significant strides in space exploration. Dr. V. Narayanan is an exemplary scientist and leader whose unwavering dedication has significantly contributed to India's achievements in space exploration.

Dr. V. Narayanan addressed the audience, sharing his invaluable insights on personality development and the journey of ISRO missions. He began by emphasizing the importance of character development for students to excel in their paths and also discussed the vital role of student-professor interaction in gaining a deeper understanding of a specific field.

Dr. V. Narayanan then provided a comprehensive overview of the evolution of ISRO's missions, starting from their inception to their most recent achievements like Chandrayaan 3 and the Vikram L1 mission, which aimed to land on the sun.

### Snapshots of event :



Lecture by the chief guest, Dr. V. Narayanan



Dr G. A. Senthil Kumar presenting the memento to the chief guest.



Dr. U.Narayanan, along With the office bearers and faculty of BCS Department



## UPAGRAHA'23 VALEDICTORY CEREMONY

The valedictory ceremony of Upagraha'23 was organized by the Department of Electronics and Communication Engineering. The event took place on 12/10/2023 (Thursday) from 3.00 PM to 3.30 PM.

The valedictory ceremony commenced with the arrival of Dr G A Sathish Kumar, Head of the Department- ECE, Dr T J Jayapraksha, Associate professor, Department of ECE, Mr S Elangovan, Assistant professor, Department of ECE and the participants and winners of various events along with the members of the organizing committee.

Winners of various events were felicitated by the HoD-ECE and certificates, cash prizes were provided. Upagraha'23 concluded with the national anthem.

### Snapshots of the event :



Dr G.A.Sathish Kumar, HOD, ECE Department, presenting prize to the winners.



Dr. T. J. Nagaprakash, Faculty co-ordinator distributing prize to the winners



Faculty co-ordinators Dr. T. J. Nagaprakash and Mr. Bhagawan Shetty with office bearers of SCA, IETE-SF and EAC.

## ORGANISING COMMITTEE COMPRISING OF:

<b>Chief Patron</b>	:Dr.M.Sivanandham, Secretary, SVEHT
<b>Patron</b>	:Dr.S.Ganesh Vaidyanathan, Principal, SVCE
<b>Convenor</b>	:Dr.G.A.Sathish Kumar, Professor & HOD
<b>Faculty Co-ordinators</b>	:Dr.T.Jeyapraba, ECEA, IETE-SF and RAIC Coordinator Mr S Elangovan, ECEA, IETE-SF and RAIC Coordinator

### ECEA comprising of:

<b>President</b>	: Mr Prithiviraj V S(IV Year ECE C)
<b>Vice-President</b>	: Mr Avinash P (IV Year ECE A)
<b>Secretary</b>	: Mr Sharad L (III Year ECE C)
<b>Treasurer</b>	:Ms Deepika S(III Year ECE A)
<b>Executive Members</b>	:Mr Anish Krishnan(III Year ECE A) Ms Dharami A (III Year ECE A) Mr Lok Ranjan B (III Year ECE B) Mr Kisan Yadav V(III Year ECE B) Ms Lethikaa Shri (III Year ECE B) Mr Utkaya K (III Year ECE C)
<b>Joint Secretary</b>	:Mr Ashwin R(II Year ECE A) Ms Kanishkamathi S(II Year ECE B) Ms Varsha P (II Year ECE C)

**IETE SF SVCE comprising of:**

**Chairman** :Ms. Mrdulla V Naarayanan(IV Year ECE)

B)

**Vice Chairman:**

**Student Coordinator :**Mr Sanjay Lokesh A M(IV Year ECEC)

**Event Coordinator :**Mr. Shashidar G(IV Year ECE C)

**Honorary Secretary :**Mr. Mukesh S (III Year ECE B)

**Honorary Treasurer:**Ms. Srivarsini S (III Year ECEC)

**Executive Members:**Mr. Amarnath S (III Year ECE A)

Mr. Azhithya Narayanan B(III Year ECE A)

Mr. Parveen R (III Year ECE B)

Mr. Prabhu Dharshan R (III Year ECE B)

Ms. Subariee S S (III Year ECE C)

Mr. Umesh Anandhi S (III Year ECE C)

**Joint Secretary** :Ms. Deepikashni S (II Year ECE A)

Mr. Manoj Kumar K (II Year ECE B)

Mr. Tamil Nilavan S (II Year ECE C)

**RAIC comprising of:**

**President** : Mr. Ganeshan H (IV Year ECE A)

**Vice President** : Ms. Saebalatha M (IV Year ECE C)

**Secretary** : Ms. Sneha R (III Year ECE C)

**Joint Secretary** : Mr. Adarsh S (II Year ECE A)

Mr. Ramanathan M (II Year ECE B)

Ms. Vasanthi Vidhya P V (II Year ECE C)

**Lead Mentor** : Mr. Rajit H (IV Year ECE C)

**Mentors** : Ms. Kavitha S (III Year ECE B)

Mr. Kiransekar (III Year ECE B)

Mr. Nandhivanan R (III Year ECE B)

Mr. Parvesh R (III Year ECE A)

Mr. Ram Selvappa A (III Year ECE B)

Ms. Saambavi P U (III Year ECE B)

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Dr.T.J.Iyeraprabha

ASP-ECEA,IETE-SF,RAICC Coordinator

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Dr.G.A.Sathish Kumar

Professor & HOD-ECE

**DATE: 30.10.2023**

**Report by:**

Ms.Deepika S (ECE-A, III-Year)

Treasurer, ECEA

