



RajaRajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi
Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING



ELCOM – X 2K25 : A National Level Technical Symposium

Date : 17/04/2025 **TIME:** 8.30AM-04.30PM

Venue : Satyendra Bose Seminar Hall, ECE Dept.

Target Participants: All semester students

Number of Students Participated: 100 students

Number of Faculty members involved: 3 MEMBERS

Organizing Committee:

Dr.R.Balakrishna, Principal,RRCE

Dr.L.Rangaiah, Dean Academics, RRCE

Dr. Sunitha R, HOD/ECE, RRCE

Name of the Recourse Person:

Rtn. Dr. A. Ratna Phani

(Ph.D, PGDIBM, PGIDF, FISBT, D.Sc)

EP – GSBL – IIM Calcutta | Digital Marketing – ISB Hyderabad

Renowned Nanotechnologist (Nano Scientist)

Name of the Faculty Co-ordinators:

Dr.Deepika J , Dept of ECE, RRCE

Prof. Haritha K Sivaraman, Dept of ECE, RRCE

Prof. M.Suresh, Dept of ECE, RRCE

Objective of the Program:

- The objective of **ELCOM-X 2K25** is to provide a dynamic platform exclusively for **Electronics and Communication Engineering** students across the nation to showcase their technical knowledge, problem-solving abilities, and innovative thinking.
- Through a series of engaging events such as technical quizzes, circuit rig-up, code forge, and component-based challenges, the symposium aims to foster practical learning, enhance technical competence, and encourage collaboration among budding engineers.
- This initiative aspires to bridge the gap between theoretical education and real-world application by promoting creativity, critical thinking, and a passion for engineering excellence.



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LIST OF EVENTS CONDUCTED

1. Buzz Wire
2. Components Hunt
3. Technical Quiz
4. Connect the Image
5. Technical Snake and Ladders
6. Circuit Rig-Up
7. Memorize the Components
8. Shark Tank
9. Technical Dumb Charades
10. Code Forge

EVENT HIGHLIGHTS

- Enthusiastic participation from multiple engineering colleges across bangalore
- A variety of technical and fun-filled events tailored to test knowledge, creativity, and presence of mind.
- Events such as “Circuit Rig-Up” and “Code Forge” emphasized core technical skills.
- Events like “Shark Tank” promoted entrepreneurial thinking and idea pitching.
- Participation certificates and a total prize pool of ₹15,000 were awarded to winners and runners.
- Excellent coordination and involvement by student volunteers and faculty members.

Outcome of the Program

- **Enhanced Technical Proficiency:** Participants will gain hands-on experience in core ECE domains such as circuit design, embedded systems, and communication technologies through practical events and challenges.
- **Improved Problem-Solving Skills:** Events like Code Forge, Circuit Rig-Up, and Technical Quiz will enhance analytical thinking and logical reasoning among students.
- **Teamwork and Collaboration:** Group activities and competitions like Shark Tank and Dumb Charades will promote effective teamwork, leadership, and interpersonal communication.
- **Innovation and Creativity:** Students will be encouraged to think outside the box and present unique ideas, fostering innovation in both hardware and software domains.
- **Real-World Exposure:** The symposium bridges academic learning with practical application, preparing students for future technical roles in industry and research.
- **Networking Opportunities:** Participants will connect with peers, faculty, and industry experts, building a strong technical and professional network.



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RAJARAJESWARI COLLEGE OF ENGINEERING

DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING

PRESENTS
A NATIONAL LEVEL TECHNICAL SYMPOSIUM

ELCOM-X

2K25

15K
PRIZE POOL

 BUZZ WIRE	 COMPONENTS HUNT
 TECHNICAL QUIZ	 CONNECT-THE IMAGE
 TECHNICAL SNAKE AND LADDERS	 CIRCUIT RIG-UP
 MEMORIZE THE COMPONENTS	 Shark Tank
 Technical Dumb Charades	 Code Forge

17 APRIL
2025

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Instagram ID : rrce_ece
Registrations start from: 10-04-2025
Registration ends on: 16-04-2025

Co-ordinators Dr. Deepika J Prof. Haritha K Prof. Suresh M	Convener Dr. Sunitha R HOD, ECE	Dr. Rangaiah L Dean Academics	Dr. R Balakrishna Principal
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**SCAN TO PAY**

**SCAN TO REGISTER**

Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone:+91-80-28437124 / 28437375

Email Id: info@rrce.org

Website: <https://www.rrce.org>



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

presents

ELCOM-X

CIRCUIT RIG UP

- THERE WILL BE 2 PARTICIPANTS PER TEAM.
- THE TEAMS WILL BE PROVIDED A CIRCUIT DIAGRAM AND THE ESSENTIAL COMPONENTS.
- THE TEAM WILL BE GIVEN A MAXIMUM 15 MINUTES TO GET THE OUTPUT.
- THE TEAM COMPLETING THE CIRCUIT AND GETTING THE OUTPUT WITH LEAST TIME I.E BEST TIME RECORD WILL BE DECLARED THE WINNER.
- THE USE OF MOBILE PHONES OR ANY SORT OF MALPRACTICE WILL LEAD TO DISQUALIFICATION.

NO OF PLAYER : 2 PER TEAM
REG FEE : ₹59/-INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : ALL DAY

Faculty Coordinators :
prof. Lokesha K

Coordinators :
MANASA VR (8867998156)
MAXALAXMI (7892040880)

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TECHNICAL DUMB CHARADES

- THE PARTICIPANTS MUST REGISTER BEFORE THE DEADLINE TIME. THE EVENT WILL BEGIN AS THE DEADLINE TIME ENDS.
- EACH TEAM MUST CONSIST 3 MEMBERS.
- A PARTICIPANT FROM THE TEAM WILL PICK 5 CHITS WHICH COMPRISES COMPONENTS NAME AND HE/SHE MUST GIVE CLUES AND HINT TO THEIR TEAMMATES WITHOUT SAYING THE COMPONENT NAME WITHIN 10 MINUTES.
- EACH TEAM GETS 5 CHITS AND THE TOTAL TIME CONSUMED BY THE TEAM TO GET ALL THE NAMES CORRECT WILL BE NOTED.
- THE TEAM WITH THE LEAST TIME CONSUMED WILL BE DECLARED WINNER.

NO OF PLAYER : 3 PER TEAM
REG FEE : ₹59/-INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : ALL DAY

FACULTY COORDINATOR :
PROF. DANESHWARI MODI

COORDINATORS :
BHAGYALAKSHMI M N (9008595541)
MYTHRI S RAO (9108324038)
APOORVA S (9535614945)

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MEMORIZE THE COMPONENTS

- The participants will be shown different electronics components for around 15 seconds and they must memorize it. Writing it down or clicking photos during these 15 seconds will lead to disqualification.
- Then the participants will be provided 5 minutes to write down the components they had seen.
- The participant who got most of the components right will be declared the winner

NO of player : 1
Reg fee: ₹59/-inc. GST
Cash prize: 1st prize - ₹1000 & 2nd prize - ₹500
Event time : all day

FACULTY COORDINATOR :
DR. DEEPIKA J

COORDINATORS :
KUSHALI GOWDA (9900115330)
KAVYASHREE DR (6363601675)

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CODE FORGE

- The participants must register before the deadline time. The event will begin as the deadline time ends.
- Open to all currently enrolled students of [Your College Name].
- Languages Allowed: Python and C programming only.
- Solo or Team of up to 2 members (Specify based on your plan).
- Cross-department teams are allowed (optional).
- Participants must bring their own laptops (for offline).
- Internet usage is not allowed unless otherwise stated.
- Code must be submitted in the given format (e.g., .py or .c).
- Late submissions will not be evaluated.
- Multiple submissions are allowed before time ends, but only the latest will be considered.
- Code will be tested against hidden test cases to avoid hardcoding.
- Use of any AI tools, ChatGPT, or online coding help is strictly prohibited.
- Any malpractice leads to immediate disqualification.

NO OF PLAYER : MAX 2 PEOPLE
REG FEE : ₹59/-INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : 1PM TO 3PM

Faculty Coordinator :
prof. Santosh Chavan

COORDINATORS :
THANISH GOWDA AR (8861828699)
VISHNAV H M (8792106847)
VISHWANATH CK (9741999069)

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ELCOM-X TECHNICAL SNAKE & LADDERS

- There will be two participants per team. The teams must register within the deadline time.
- The event will begin at the provided time as soon as the registration deadline time ends.
- One participant will roll the die and the other will move as a coin through the boxes.
- There will be ladders where participants will be moved to other boxes just like in usual snakes and ladders game.
- When a participant steps on the snake there will a riddle related to simple electronics, the player will be safe if right answer is provided by either of the participants within 60 seconds, if the team fail to answer the right answer the participant moves towards the snake tail box just like in usual snakes and ladders.
- The goal is to reach the final square before other players. Multiple round may be conducted as per the number of teams registered before the dead line.

NO OF PLAYER : 2 PER TEAM
REG FEE : ₹59/- INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : 12PM TO 2PM

Faculty Coordinator :
Prof. Chaitanya S
Coordinators :
G R Nivedita (+91 88601201876)
Jahnvi K (+91 8860433486)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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ELCOM-X COMPONENTS HUNT

- THERE WILL BE 4 PARTICIPANTS PER TEAM.
- THE TEAM FIRST WILL BE PROVIDED A CHIT WITH THE LOCATION TO THE NEXT LOCATION WHERE A COMPONENT AND A CHIT WITH THE LOCATION OF NEXT COMPONENT.
- THE FINAL CHIT PROVIDES THE LOCATION OF THE CIRCUIT DIAGRAM.
- THE TEAM AFTER FINDING ALL THE COMPONENTS AND CIRCUIT DIAGRAM MUST RETURN TO THE STARTING ROOM AND ASSEMBLE THE COMPONENTS AS PER THE CIRCUIT.
- THE TOTAL TIME PROVIDED FOR THE COMPLETE TASK IS 40 MINUTES.
- THE TEAM WITH THE BEST TIME RECORD WILL BE DECLARED WINNER.
- IF A TEAM FINDS OTHER TEAM'S COMPONENTS THEY MUST PLACE IT BACK. INTERFERING WITH OTHER TEAM COMPONENTS SUCH AS HIDING IT OR STEALING IT WILL LEAD TO DISQUALIFICATION.

NO OF PLAYER : 4 PER TEAM
REG FEE : ₹118/- INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : ALL DAY

FACULTY COORDINATOR : PROF. SURESH M
COORDINATORS :
HAVYASHREE RM (+91 6360878443)
HARTHIGAYAN R (+91 8050879489)
RENUKA PRASAD V (+91 874804321)
HARSHA M (+91 8085427234)

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ELCOM-X Shark Tank



- THE PARTICIPANTS MUST REGISTER BEFORE THE DEADLINE TIME. THE EVENT WILL BEGIN AS THE DEADLINE TIME ENDS.
- INDIVIDUALS OR TEAMS (UP TO 3 MEMBERS) MAY PARTICIPATE.
- EACH TEAM CAN SUBMIT ONE PRODUCT/PROJECT, RESEARCH PAPER OR INNOVATIVE IDEAS.
- PARTICIPANTS MAY USE POWERPOINT PRESENTATION, MODELS, PROTOTYPES, OR ANY OTHER SORT METHOD TO DISPLAY THEIR IDEAS.
- EACH TEAM GETS 5 MINUTES TO PRESENT THEIR WORK AND THERE WILL BE A Q/A SESSION FOR 5 MINUTES. TOTAL : 5+5=10 MINUTES.

CATEGORIES ACCEPTED:
A) INNOVATIVE PROTOTYPES
B) TECH-BASED SOLUTIONS
C) SOCIAL IMPACT PROJECTS
D) ORIGINAL RESEARCH PAPERS WITH PRACTICAL APPLICATION

NO OF PLAYER : UPTO 3
REG FEE : ₹59/- INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : 11AM TO 2PM

FACULTY COORDINATOR :
DR. MURUGANANDHAM A
COORDINATORS :
SAJAN S (+91 821641824)
TARUN BS (+91 9742257283)

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ELCOM-X BUZZ WIRE

- Buzz Wire is a game where players must guide a metal loop along a bent wire without touching it.
- The player must move the metal loop from one end of the wire to the other without making contact.
- Players must start from the designated beginning point of the wire.
- Players must hold the handle steadily and carefully move the loop along the wire.
- If the loop touches the wire, a buzzer or light activates, signaling an error. Players have a limited number of touches (3 attempts) before being disqualified.
- The player who has consumed the least time in completing the loop will be declared the winner.

NO of player : 1
Reg fee : ₹59/- inc. GST
Cash prize : 1st prize - ₹1000 & 2nd prize - ₹500
Event time : all day

FACULTY COORDINATOR :
PROF. VANI S BADIGER
COORDINATORS :
AMOLYA ADVAITY (81235 71496)
VASANTHI (91487 89534)

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ELCOM-X
TECHNICAL QUIZ

- Participants must register within the deadline time.
- Around 20 questions will be asked and 4 options will be provided. The questions that will be asked are simple electronics questions.
- The participants must tick the right answer thus awarding 1 point for the right answer.
- There is no negative marking.
- No use of mobile phone or electronic devices. Malpractice will lead to disqualification.
- The participant who has got the most answers right will be declared the winner.
- The event will begin at the provided time as soon as the registration deadline time ends.

NO OF PLAYER : 1
REG FEE : ₹59/-INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : 1PM TO 2PM

FACULTY COORDINATORS :
PROF. AJAY M

COORDINATORS :
BHUMIKA M (+91 9036217349)
ANANYA GOWDA (+91 80504 80043)

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ELCOM-X
CONNECT-THE-IMAGE

- The participants must register before the deadline time. The event will begin as the deadline time ends.
- The participants will be shown 2 or 3 images which when combined will give a technical word.
- Ex: image of crow + image of a iron bar gives the word crow-bar.
- There will be around 20 to 25 sets of images show and each set of images will be shown for 60 seconds by which the team must figure out the word and the next set will be displayed.
- The team which gets the most words right will be declared winner.

NO OF PLAYER : 2 PER TEAM
REG FEE : ₹59/-INC. GST
CASH PRIZE : 1ST PRIZE - ₹1000 & 2ND PRIZE - ₹500
EVENT TIME : 11AM TO 2PM

FACULTY COORDINATOR :
PROF. SREEPATI V

COORDINATORS :
CHENDAN N (+91 8088942196)
ANANYA R (+91 9110627258)

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CONCLUSION

- ELCOM-X 2K25 was a resounding success, fulfilling its aim of enriching the technical and professional skills of budding ECE engineers.
- The event not only provided a competitive platform for students but also encouraged peer learning and innovation.
- The department looks forward to hosting even more dynamic editions of the symposium in the future.