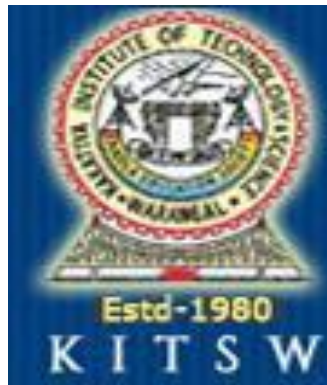


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(Established:1981)
(B. Tech. - ELECTRONICS COMMUNICATION AND INSTRUMENTATION ENGINEERING)

REPORT ON
“ SUMSHODINI ’ 23 ”
02-03 February 2024



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL - 15
(An Autonomous Institute under Kakatiya University, Warangal)

A.Y. 2023-2024

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KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
(An *AUTONOMOUS* Institute under Kakatiya University - Warangal)
DEPARTMENT OF *ELECTRONICS COMMUNICATION AND INSTRUMENTATION ENGINEERING*
(UG Programmes – B. Tech. (ECI))

ABOUT THE HOST DEPARTMENT:

The Department of Electronics & Instrumentation Engineering (EIE) was established in the year 1981 in Kakatiya Institute of Technology & Science (KITS), Warangal. **Presently, the department is offering B. Tech Programme in EIE, B.Tech Programme in Electronics Communication & Instrumentation Engg. (ECI), Specialized M. Tech programme in Embedded System & VLSI and Doctoral programme in Ph.D (E&I) under Kakatiya University (KU), Warangal. The B. Tech Programme in EIE has been accredited under TIER-I status by the National Board of Accreditation (NBA), New Delhi.** Department is in process of applying for NBA accreditation for B.Tech. (ECI) and M. Tech. (EV) programmes.

The institute to its credit is first in the country to offer a B.Tech. programme in Electronics & Instrumentation stream. Keeping in view of present industry requirements in the area of Embedded systems, IoT and AIML, B. Tech. (ECI) programme was started in the year 2019. It is an advanced branch of engineering which deals with the application of scientific knowledge in electronics, communication technologies, instrumentation and control for automation of processes. The objective of the ECI programme is to create engineers capable of solving real-world problems which require computation, communication and control by utilizing the most efficient combination of hardware and software. B.Tech (ECI) curriculum is designed with a futuristic perspective so that the ECI students are equipped in advance to tackle any challenge that might arise from the new age industry 4.0 revolution.

The students fared well in national level competitive exams like GRE, CAT, GATE, TOFEL etc., and most of them are pursuing their higher studies in premier and prestigious institutions like IITs, NITs, IIMs and many reputed Universities abroad.

The students of the department conduct various programs in the students Association, “Electronics and Instrumentation Engineering Association” every week, which is scheduled as a part of academic program. This includes activities like Group discussions, JKC activities, Mock interviews, and many other activities which help students to excel in their soft skills and organizing capabilities.

TECHNICAL EVENTS:

1. Workshop: Workshop on Android Controlled Robot
2. Arcadathon 3.0
3. Hidden Circuit 2.0
4. Master Minds
5. Brain combat
6. PPT
7. Stress Buster
8. Jigsaw Jamboree

WORKSHOP: “ ANDROID CONTROLLED ROBOT ”

As part of Sumshodhini'23, on behalf of the department, the students of B. Tech.(ECI) in association with ISTE student Chapter and Technical Club, KITSW are organized a technical workshop - “WORKSHOP ON ANDROID CONTROLLED ROBOT” on 02nd Feb 23. The primary objective of the workshop was to provide participants with hands-on experience in building and controlling robots using Android devices. The workshop covered both hardware and software aspects, allowing participants to gain a comprehensive understanding of the intersection between robotics and mobile technology.s.

This workshop teaches you the overview of robotics and an introduction to the Arduino platform. Participants gained insights into the basic concepts of robotics, the role of microcontrollers, and the significance of Arduino in building robotic systems..

1-Day Workshop on Android Controlled Robot [2nd February 2024]

What will you learn after attending this Workshop:

Here is a small description of our workshop which is conducted on Android Controlled Robot we have learnt many things about its pros and cons

Here are some applications of Android Controlled Robot

- Military Applications
- Helps Emergency Responders save Lives.
- Makes Inspections More Efficient.

Here we have some disadvantages on Android Controlled Robot

- Android Controlled robot is only used for small weight Robotics.

We have learnt to simulate and individual parts of each component and description of each part so here;

The students have learnt to assemble the Robot and learnt its importance of each and every particular part of the robot.

Applications you can make using this kit:

- Movement In tiny spaces.
- Military use .
- Mapping & Surveying.
- Asset Inspection.
- Payload carrying.
- Agriculture.
- Crop spraying.
- Seed and Irrigation purpose

Workshop Benefits and & Highlights:

Here as we have mentioned above the particular that how the simulation (controlling of remote of Robot) and assembling of Android Controlled Robot as it is very expensive, we made sure that each every student have done through hands.

And every student have taken a race in our college premises everyone and happy. Everyone has given good response about our workshop. They felt happy and satisfied about the workshop.

The following topics were covered during workshop session.

Session 1:

- Introduction Robotics'
- Types of robots
- Application of robot
- Model of Robots
- Arduino board
- L298D module
- Software for writing code

Session 2:

- Code selection and development
- Practical section: assembly of Arduino and Bluetooth
- Practical section: assembly and connections of Battery system

Registration Fee:

Rs.1000/- per head

Venue:

Block-V,
VC lab

Workshop Coordinators:

E. Sathvika

M.Divyasri

Faculty Incharge:

Smt K.Shailaja & Sri B. Venu Maheshwar

Resource Persons:

N VENKATA REDDY – CEO Teckybot

Revatipati Manchala - Lead Technical Developer at Teckybot

Number of Participants: 62





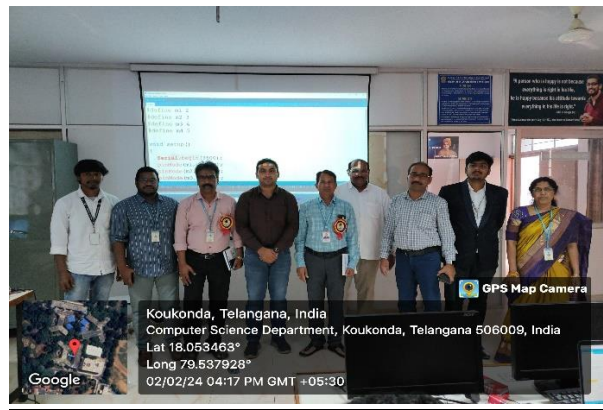
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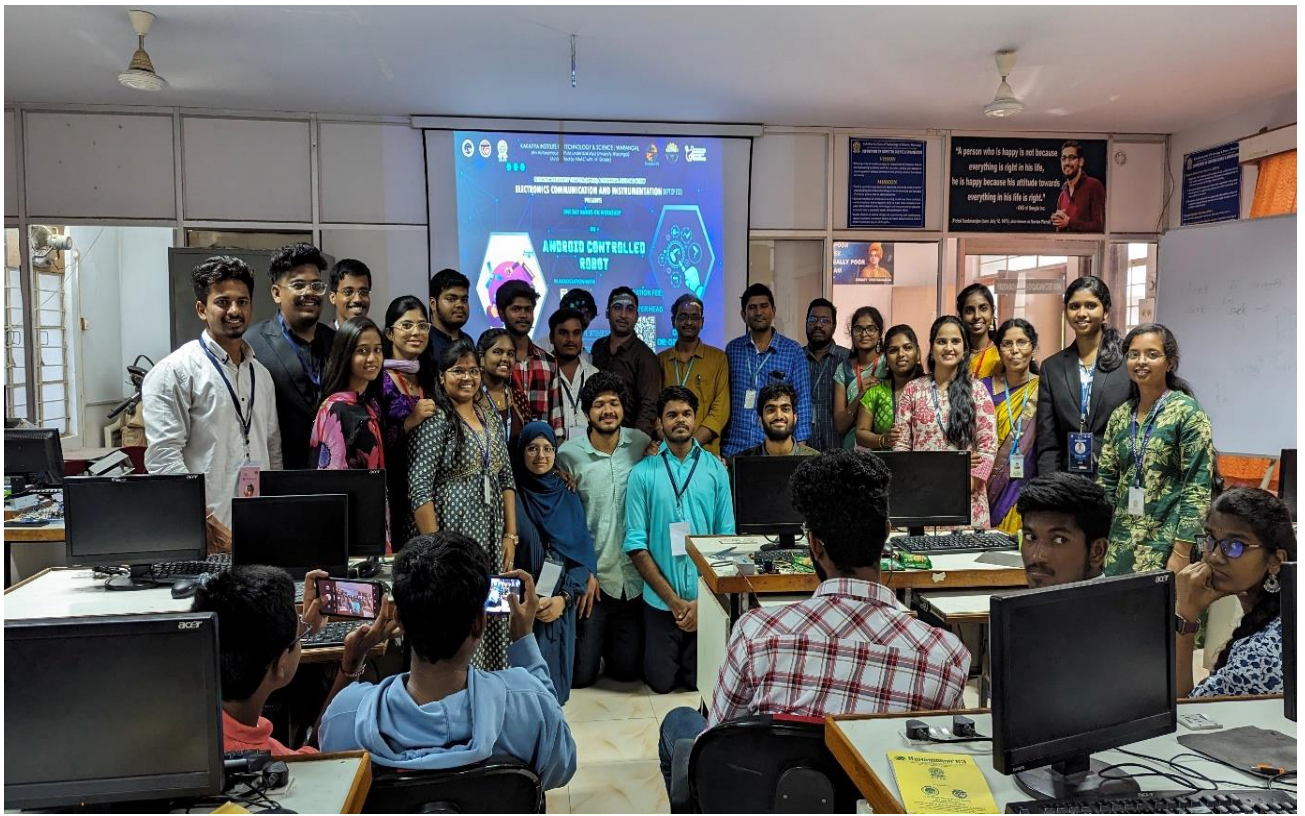
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WINNERS



Winners Team 1:

1. P. Swapnesh - B22CI062L
2. G. Soumyasree – B23CI068L
3. Sai Mandeep – Resonance Collage(Inter)
4. K. Drona Srikar – Greenwood School

Runners Team 6 :

1. MD. ABDUL KALAM -B21CI045
2. M. CHANDANA -B23CI081L
3. CH. SHIVA SUBRAMANYAM -B23CI048
4. R.S.S. GOURISHWAR -2303A52045(SRU)

RUNNERS



EVENT NAME: ARCADATHON 3.0

Event organizers:

Venue: Measurements Lab, Block-I.

Maryam Yasmeen – 8341430206

Registration Fee:50/- per head

P. Sai Ram Reddy – 9705858264

K. Nithisha – 9866621154

Participation Certificates are provided.

The event is completely fun filled event consisting of 3 rounds, which are

- 1) Speed Brain
- 2) Build the circuit
- 3) Online Hunt

Round 1: Speed Brain

We'll have a small Riddles based on general knowledge.

Round 2: Build the circuit

The participants have to play games and win the components.

Round 3: Online Hunt

A Group of images will be displayed for a few seconds, the participants have to guess the image and tell the song name . Who have told the maximum number of answers won the awards.

Cash Prizes:

1st Prize: 200/-

Winners:

Team – 1: Tarun, Rajvardhan, Department CSO



EVENT NAME: HIDDEN CIRCUIT 2.0

Event organizers:

Venue: BE&IC Lab, Block-I

P. Vishal – 6281202285

Registration Fee:50/- per head

M. Jithin – 7981833247

Participation Certificates are provided

J. Abhishek- 7093936248

The event is completely fun filled event consisting of 3 rounds, which are

- 1) Quiz
- 2) Circuit Hunt
- 3) Build The Circuit

Round 1: Quiz

We'll explain a ppt regarding IOT and based on the given explanation a quizzzy link is provided to the participants ,the result of the round will be projected on the screen accordingly with correct answer and less time taken to answer the questions.

Round 2: Circuit Hunt

In this round ,Clues are hidden at various places in the college, the participants have to go and find the clues with their team mates with the 1st clue provided by us to each team.

Round 3: Build The Circuit

In this round ,the participants who will find all the clues and come to the lab will be given the components will work on build the circuit with the given components.

First winner were given cash prize of Rs:200 & merit certificate

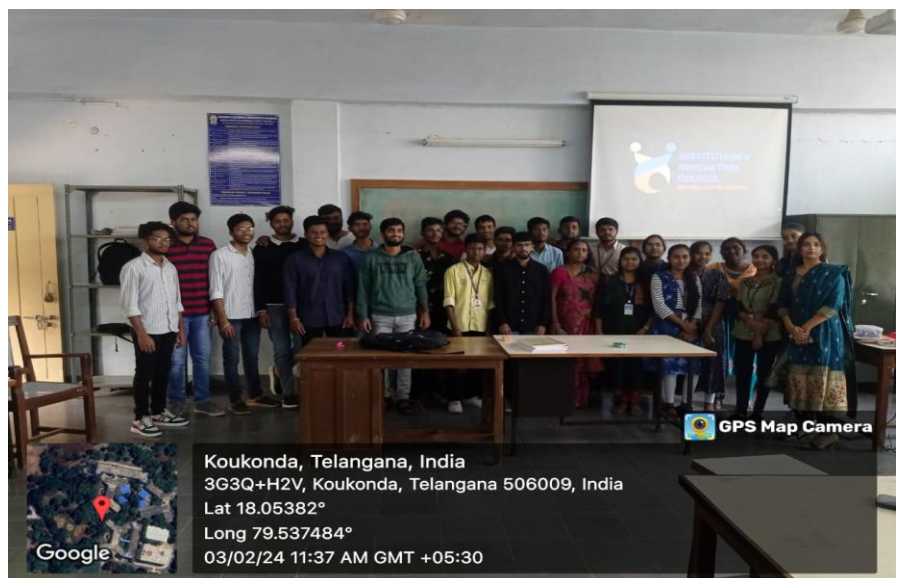
Second winner is felicitated with Merit certificate

Cash Prizes:

1st Prize: 200/-

Winners:

Team -1: G. Anjali, L. Yamini



EVENT NAME: JIGSAW JAMBOREE:

Event organizers:

Venue:Block-6_VI Lab

K. Kousthubha - 8074171009

Registration Fee: 79/- per head

R. Vamshi Krishna - 7386534399

Event Details:

The event consisted of two types of puzzles: coding crosswords and brand logos spotting crosswords. Each participant received a set of eight puzzles, comprising four coding crosswords and four brand logos spotting crosswords. The coding crosswords presented coding-related challenges, requiring participants to solve coding problems to fill in the blanks in the crossword grid. On the other hand, the brand logos spotting crosswords provided descriptions of various brands, and participants had to identify the corresponding logos.

Cash Prizes:

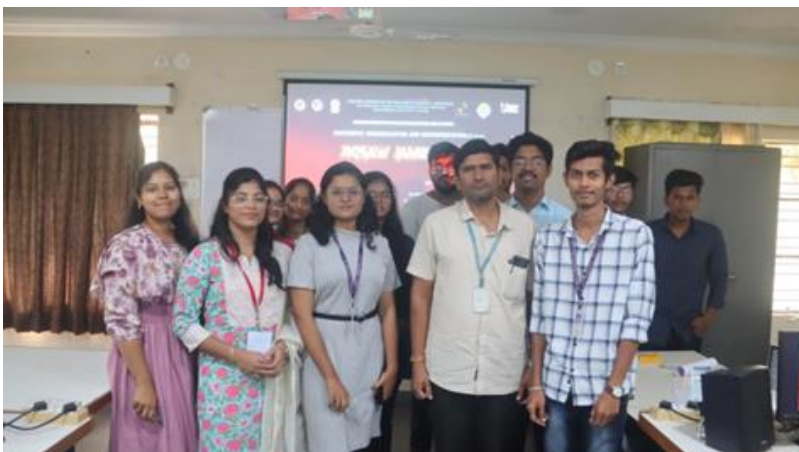
1st Prize: 390/-

2nd Prize: 100/-

Winners:

1st Prize: B. Vamshi

2nd Prize: Rajini



EVENT NAME: MASTER MINDS:

Event organizers:

Venue: VI Lab, Block-I.

P. NAGADHAKSHESH – 6301629464

Registration Fee: 50/- per head

B. SATHVIKA – 8522023636

Y. PANAK – 9177945038

Participation Certificates are provided.

The event is interesting and a brain work-out event, consisting of 3 rounds, which are

- 1) General Quiz
- 2) Logical Questions
- 3) A Fun Game

ROUND 1: GENERAL QUIZ

Participants should give the answers for the questions which are given to them. All the participants will be given a chance for the next round.

ROUND 2: LOGICAL QUESTIONS

All the participants once again have the chance to maximize their score. They will be given some scenarios to solve. After completion of this round only few are eligible for the final round based on their scores.

ROUND 3: A FUN GAME

In this last round few brain teasers and riddles will be asked, and the top 2 members will be declared as the winners and the runners.

Merit certificates and prize money will be awarded for top 2 winners.

Cash Prizes:

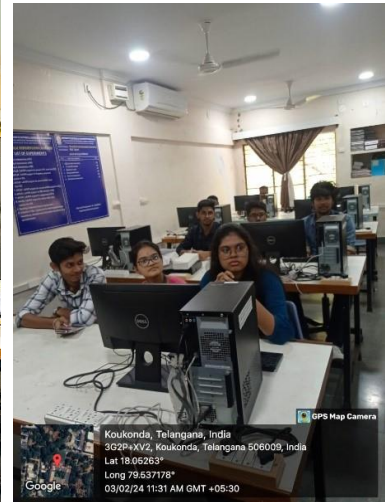
1st Prize: 120/-

2nd Prize: 100/-

Winners:

1st Prize: Deekshitha

2nd Prize: G. Yashwanth Reddy



EVENT NAME: BRAIN COMBAT:

Event organizers:

Venue: BE & IC Lab, Block-I.

P. Swapnesh - 7989156649

J. Hima Jyothi – 7416990471

Registration Fee: 50/- per head

V. Jayasree - 6305879036

Participation Certificates are provided.

The event is interesting and a brain work-out event, consisting of 3 rounds, which are

- 1) Technical Quiz
- 2) Debate
- 3) Riddles

ROUND 1: TECHNICAL QUIZ

Participants should give the answers for the questions which are given to them. All the participants will be given a chance for the next round. Each team will be awarded points based on their participation.

ROUND 2: Debate

The debate event centerer around the topic of free buses, with participants presenting arguments and engaging in discussions about the feasibility, benefits, and potential challenges associated with implementing free public transportation. Countering perspectives highlighted concerns about financial sustainability, potential misuse, and the need for alternative funding models. Based on their participation points were awarded.

ROUND 3: Riddles

In this last round few brain teasers and riddles will be asked, and the top 2 teams have max points, and one team shall be declared as winner with cash prize of 200.

Merit certificates and prize money will be awarded for top 1 winners' team.

Merit certificates were given to top 3 teams.

Cash Prizes:

1st Team: 200/-

Winners:

1st Prize Team: A. Sai Dattu and M. Harika

2nd Team: K. Veera Deepak and S. Snehitha

3rd Team: V. Shiva Prakash and Dolphin Pilot



EVENT NAME: PAPER PRESENTATION

Event organizers:

Venue: Block –I, Room No 203,

V. Sai Jyothi

Registration Fee: Per head – 100/-

Ch. Pranathi Reddy

K. Gayathri

Participations Certificates are provided for each and everyone.

‘PAPER PRESENTATION’ is a technical event in which there is individual competition, and the main motto is to bring students out of stage fear and improve their communication skills.

Registration is open for all branches.

And the winners will be declared based on their presentation skills.

CASH PRIZE DETAILS:

1st Prize: 300/-

2nd Prize: 200/-

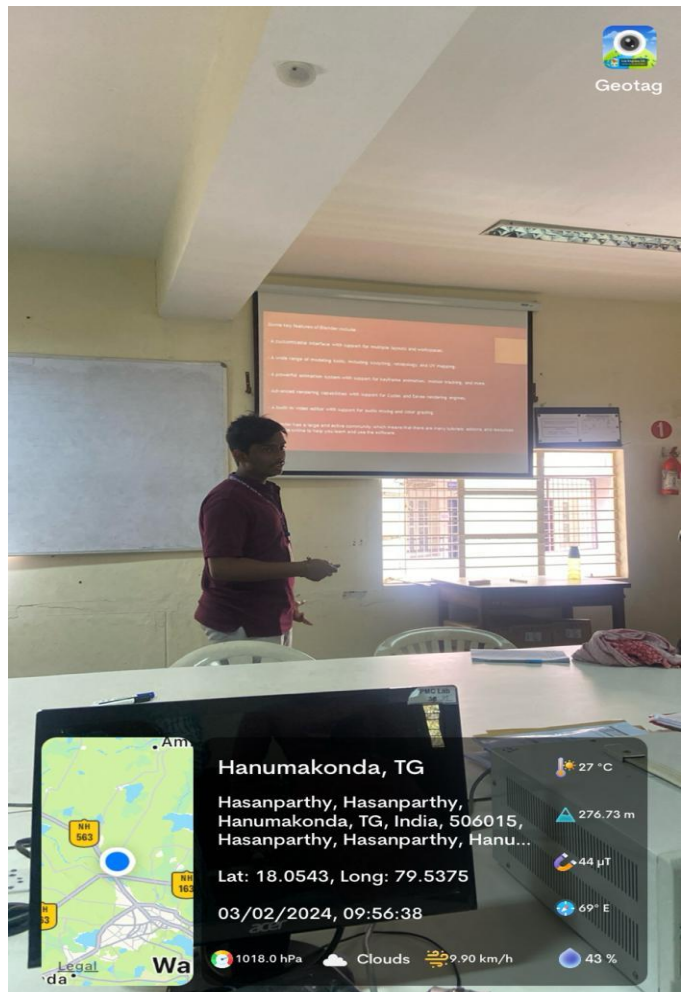
3rd Prize: 130/-

WINNERS DETAILS:

1st prize: M. Shushanth b23ai101

2nd prize: V. Abhiram b23ai083

3rd prize: V. Harikrishna b23cs009





EVENT NAME: STRESS BUSTERS:

Event organizers:

Venue: E-CAD Lab, Block-I.

CH. Shashank-9705799122

Registration Fee: 50/- per head

D. Mrudula- 7036141103

E. Palson-9652752337

Participation Certificates are provided.

The event is interesting and a brain work-out event, consisting of 3 rounds, which are

1)CIRCUITS

2)MEMES

3)PYRAMID

ROUND 1: “CIRCUITS”

Participants should identify the circuits by sequence. We will show you the 10 slides of circuits names, you need to remember and tell the correct sequences.

ROUND 2:” MEMES”

We are shown the templates of memes from that participants will answer based on templates.

Elimination of participants based on marks are eliminated by the second round.

ROUND 3: “PYRAMID”

Build a pyramid using deck of cards by least time compared to another team.

Merit certificates will be awarded for top 3 team winners.

Price money will be awarded for top 1 team winners.

Cash Prizes:

price :200/-

WINNERS:

P. Divya Sree and M. Archana





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