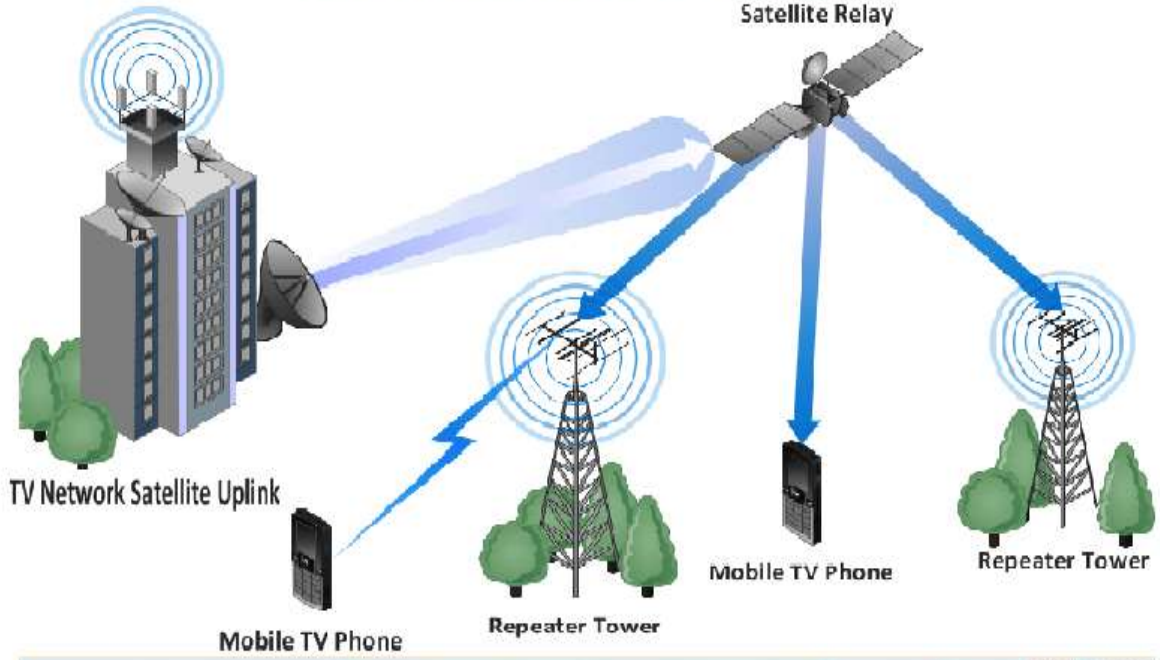
RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE
(AUTONOMOUS)
(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)
(NBA accredited for B.Tech. in ECE,EEE,CE and ME)
NH-16, Valluru,-523272, Ongole, Prakasam District, A.P

ELECOMM-2K24

A.Y:2023-24



Editorial Committee Members

1. Dr. Ch. Venugopal Reddy

   (Chief Editor - Professor & HoD, ECE Dept.)

2. Mr. D.Syam Babu

   (Executive Editor - Asst. Professor, ECE Dept.)

3. Mr. P.V.M.Vijaya Bhaskar

   (Executive Editor - Asst. Professor, ECE Dept.)

Editorial Student Members

1. G V S MOHAN REDDY (III ECE)
2. S. YASASWINI (III ECE)

CONTENT

About Our Institution

Main Building of RISE

RISE Krishna Sai Group of Institutions focuses on imparting skills on cutting – edge technologies and shaping the students into disciplined young citizens of good character and lays emphasis on practical experience so as to enable them to secure employment in industry thereby to become entrepreneurs. The courses are so structured which leads to a linear growth and progressive insight into the engineering subjects as well as training in soft skills. Since inception in 2001, in its quest to offer quality education, our college has become a temple of knowledge and produced hundreds of eminent and skillfull graduate engineers, who are successful in their careers, serving all over the world.

Mr. I.C. Rangamannar,
Hon'ble Chairman,
The RISE Krishna Sai Groups of Institutions

It is my pleasure to acknowledge the students of the Elections and Communication Engineering Department. These graduating students have been demonstrating excellence in the areas of problem solving, analytical methods and teamwork skills, and have immense potential for leadership and life-long learning. I congratulate each of you for your dedication and hard work, and we welcome your future endeavours and support of the Electronics and Communication Engineering Department

Mr. Sidda Venkateswara Rao,
Hon'ble President,
The RISE Krishna Sai Groups of Institutions

If information alone is education, today's students require no assistance at all to make strides in their fields. Technological devices can be their best source of learning. But there is a lot to learn on the part of student besides academic information. Character building ought to be one of the cardinal objectives of education. I give importance to education based on character.

From Principal's Desk:

Prof. Dr. A. V. Bhaskara Rao

M.Tech (RECW), Ph.D. (IIT Bombay)
PDF (Univ.of Toronto, Canada, MISTE, MISET)

"As we embark on a new academic year, I encourage each of you to explore the vast possibilities in the field of ECE. Let us strive for excellence and make our department a hub of innovation."

To my dear students and faculty, I wish you a year filled with learning, growth, and success. Let us work together to achieve greatness in ECE."

A warm welcome to all our new and returning students, faculty, and staff! I am excited to see the amazing things we will accomplish together in the ECE department this year."

As we begin a new semester, I extend a hearty welcome to our ECE community. Let us come together to create a supportive and inclusive environment that fosters academic excellence."

As ECE students and professionals, we have the power to shape the future of technology. Let us be driven by curiosity, creativity, and a passion for innovation."

"To succeed in ECE, we must be willing to take risks, learn from failures, and persevere through challenges. I have faith in each of you to achieve great things."

As we celebrate the achievements of our ECE students and faculty, I am reminded of the importance of teamwork, collaboration, and mutual support.

From HOD's Desk:

Dr.CHALLA VENUGOPAL REDDY

Professor& HoD

The field of ECE stands at the forefront of innovation, integrating advanced electronics, cutting-edge communication systems, and emerging technologies such as AI, IoT, and 5G. Our department is committed to nurturing a vibrant academic environment that fosters creativity, critical thinking, and a spirit of inquiry.

We take pride in our dedicated faculty, state-of-the-art infrastructure, and industry-aligned curriculum designed to equip students with both technical expertise and soft skills essential for a successful career. Through collaborations with industry leaders and research institutions, we provide our students with opportunities to engage in real-world challenges, projects, and internships.

At the ECE department, we believe in holistic development and encourage students to actively participate in technical competitions, workshops, and co-curricular activities. Our alumni, who are excelling in various domains globally, are a testament to our commitment to excellence.

ECE Doctoral Faculty

Dr.Ch. Venugopal Reddy
M.Tech, PhD

Dr. V.T.Venketeswarlu
M.Tech, PhD

Dr.Rakesh Mutukuru
M.Tech, PhD

ECE Faculty in Research

S.No	Name of The Faculty	Research Guide	Topic of the Research	University & Year of Registration	Status
1	Mr.P.Surya	Dr.C.Arunachalaperumal Professor & HoD-ECE, Raco Institute of Technology,Tamil nadu	Design of Low power and area efficient parallel pipelined FFT Architecture	Anna University, Guindy, Chennai, Tamil Nadu-600025 & 01/07/2017	Pursuing
2	Mr.D.Syambabu	Dr.S.Krishnaveni Professor (PhD on Antenna Arrays specilization) at Andhra University, Visakhapatnam	Design of Antenna Array for 5G Applications	Andhra University, Visakhapatnam, Andhra Pradesh 530003 & 01/09/2020	Pursuing
3	Mr.K.Suresh Babu	Dr.Syed.Shanava Zuddin,Assistant Professor, NITP,Patna, Patna, Bihar 800005	Bioacoustic Signal processing using Machine Learning	NITP,Patna, Patna, Bihar-800005 & 21/07/2022	Pursuing
4	Mr. P.V.M Vijay Bhaskar	Dr.V.Vijayalakshmi, Professor, P.T.U,Puducherry , East Coast Road, Pillaichavadi, Puducherry-605014	DR detection & Grading using Hybrid deep learning Models	P.T.U, Puducherry, East Coast Road, Pillaichavadi, Puducherry-605014 & 20/09/2023	Pursuing

ECE Faculty

S.NO	NAME	Designation	Qualification
1	Dr.CHALLA VENU GOPALREDDY	PROF & HOD	M.Tech,PhD.
2	Mr.SAI KIRAN OGIRALA	ASST. PROF	M.Tech
3	Mr.SAIMAN KAMBAMPATI	ASST. PROF	M.Tech
4	Ms.AVULA VIJAYA LAKSHMI	ASST. PROF	M.Tech
5	Mr.SURESH BABU KOSURI	ASST. PROF	M.Tech (PhD)
6	Mr.SYAM BABUDARSI	ASST. PROF	M.Tech (PhD)
7	Mrs.LAKSHMI SAI KUMARI UPPALURI	ASST. PROF	M.Tech
8	Mr..SAYANA BRAHMANAIDU	ASST. PROF	M.Tech
9	Ms.VENKATA SUPRAJA POGULA	ASST. PROF	M.Tech
10	Mr.SATISH KUMAR MADDULA VENKATA	ASST. PROF	M.Tech
11	Mr.GOUTHAM VENKATA KASARLA	ASST. PROF	M.Tech
12	Ms.SUJANA ACHAKALA	ASST. PROF	M.Tech
13	Mr.NAGARAJU BATTULA	ASST. PROF	M.Tech
14	Ms.RAJYAM KRISTIPATI	ASST. PROF	M.Tech
15	Ms.HEMA PURNA PEDAPATI CHANDRIKA	ASST. PROF	M.Tech
16	Ms.DARSINI SOWJANYA PRIYA MUTLURI	ASST. PROF	M.Tech
17	Ms.RADHIKA PERLA	ASST. PROF	M.Tech
18	Mr.VENKATA HAREESHKOLLA	ASST. PROF	M.Tech
19	Ms.SUNEETHA SUDDAPALLI	ASST. PROF	M.Tech
20	Ms.RAJYALAKSHMI KRISTIPATI	ASST. PROF	M.Tech
21	Mr..CHUNDURI SRINIVASA RAO	ASST. PROF	M.Tech
22	Mr.PIDUGU SREENIVASA REDDY	ASST. PROF	M.Tech
23	Mr.ARUN PRAKASHCHALLA	ASST. PROF	M.Tech
24	Mr. VENKATA MARUTHI VIJAYA BHASKAR POLAMRAJU	ASST. PROF	M.Tech (PhD)
25	Dr.RAKESHMUTUKURU	ASST. PROF	M.Tech,PhD.
26	Mrs..BANDI RAJANI	ASST. PROF	M.Tech
27	Mr.MALYADRIPADUCHURI	ASST. PROF	M.Tech
28	Mr.DARIYA SAHEBSHAIK	ASST. PROF	M.Tech
29	Mr.PRASADSURYA	ASST. PROF	M.Tech (PhD)
30	Dr.VENKATESWARLU THIRUMALA VULAVALA	ASST. PROF	M.Tech, PhD.
31	Mr.MADHU BABU MANNAM	ASST. PROF	M.Tech

Magazine Committee!

It is with great excitement that I present "RISE 2023-24," the magazine of our department. This edition is a reflection of the dedication and creativity of our students and faculty, capturing the essence of our vibrant community.

I am deeply grateful to everyone who contributed their talents and efforts to make this publication a reality. Your support has made our inaugural edition truly special.

Happy reading!

Name : G V S MOHAN REDDY
Roll No : 218A1A04A6
Dept. of ECE-II 3rd Year
MAGAZINE EDITOR

It is with great pride that I present RISE 2023-24, the inaugural edition of our department magazine. As the editor, I am excited to showcase the creativity, dedication, and hard work of our students and faculty. This magazine highlights the diverse talents within our community.

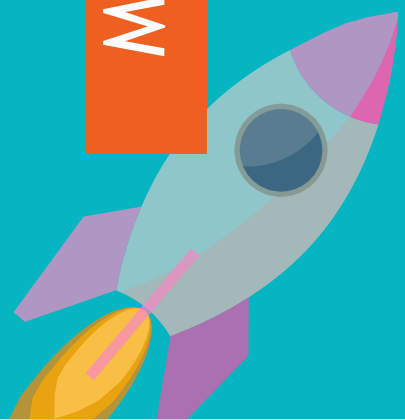
Name : S. YASASWINI
Roll No : 218A1A0487
Dept. of ECE-II 3rd Year
MAGAZINE SECRETORY

VISION

To become a center of excellence in Electronics and Communication Engineering to meet the global technological and industrial requirements

MISSION

Imparting Quality Education to Develop Globally Competitive Engineers. Enhancing Creativity, Innovation and Promoting Lifelong Provide modern technical knowledge, professional skills and attitude to meet industry and society needs Promote innovations through professional training and development Develop a team with professional ethics and social responsibility



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1:
Core Skills Intensive and extensive engineering knowledge and skill to understand, analyze, design and create novel products and solutions in the field of Electronics and Communication Engineering.

PEO2:
Problem solving & Lifelong learning Capability to pursue career in industry or higher studies with continuous learning.

PEO3:
Entrepreneurship Skills Leadership qualities, team spirit, multi-disciplinary approach, character molding and lifelong learning for a successful professional career. PEO4: Professionalism Professional and ethical attitude, effective communication skills, and sense of responsibility towards society.

PROGRAM OUTCOMES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of
complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze
complex engineering problems reaching substantiated conclusions using first
principles of mathematics, natural science and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs
with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment sustainability: Understand the impact of the professional engineering solutions in the societal and environmental contexts, and demonstrate the knowledge of,and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice.

9. Individual and teamwork: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, andgive and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one‟s own work, as a member and leader in a team, to manage projects and in multidisciplinary
environments.

12. Lifelong learning: recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broader context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1:

Design and implementation of complex systems by applying basic concepts in Electronics & Communication Engineering to Electronics, Communications, Signal processing, VLSI, Embedded Systems (Core Skills).

PSO2:

Solve complex Electronics and Communication Engineering problems, using hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions relevant to the society. (Problem-Solving Skills).

PSO3:

Quality in technical subjects for successful higher studies and employment (Professional Career).

Department

- ✓**E**lectronics and
- **C**ommunication
- **E**ngineering

Laboratories:

1.Simulation Lab I

2.Simulation Lab II

3. Project lab

4. Microwave Lab

5. IC Applications Lab

6.Communication Lab

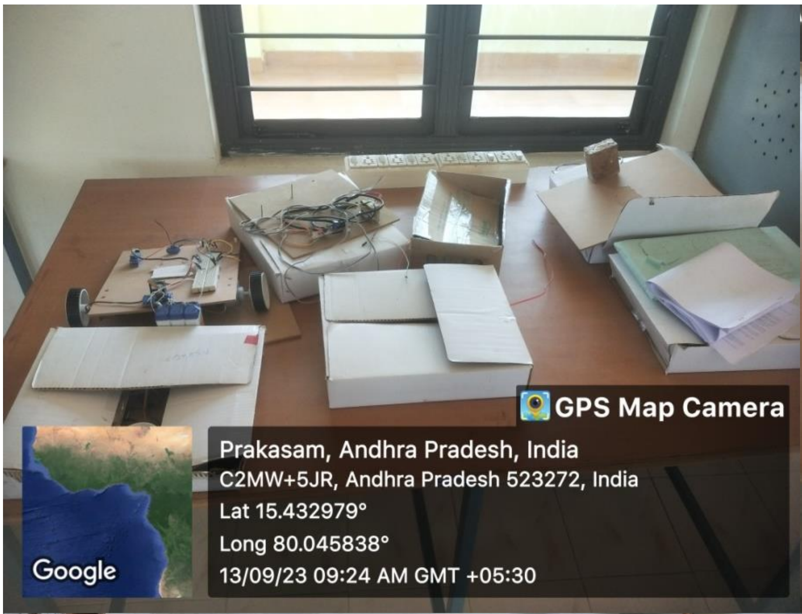
7. Circuits Lab

8. R&D Lab

SIMULATION LAB - I

SIMULATION LAB - II

PROJECT LAB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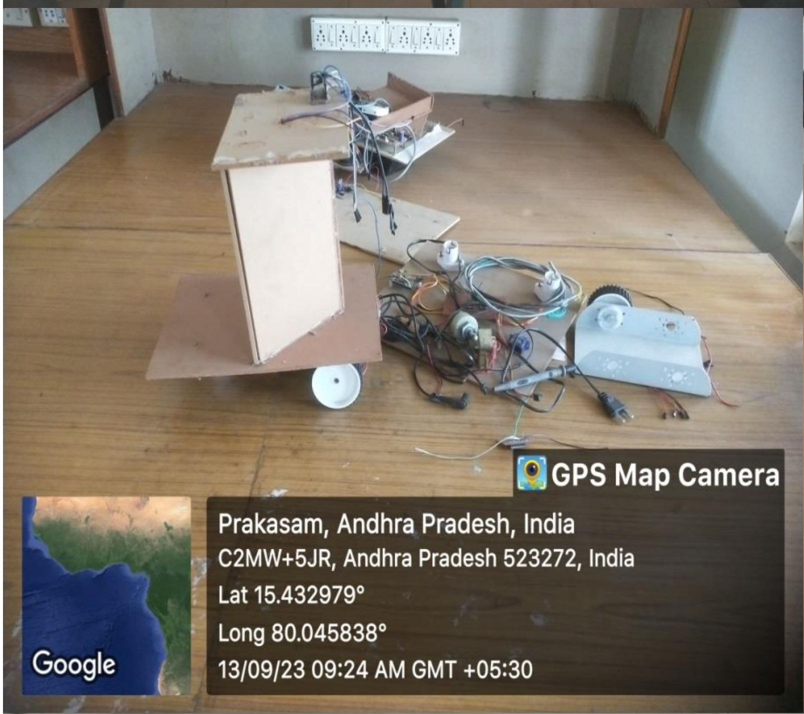
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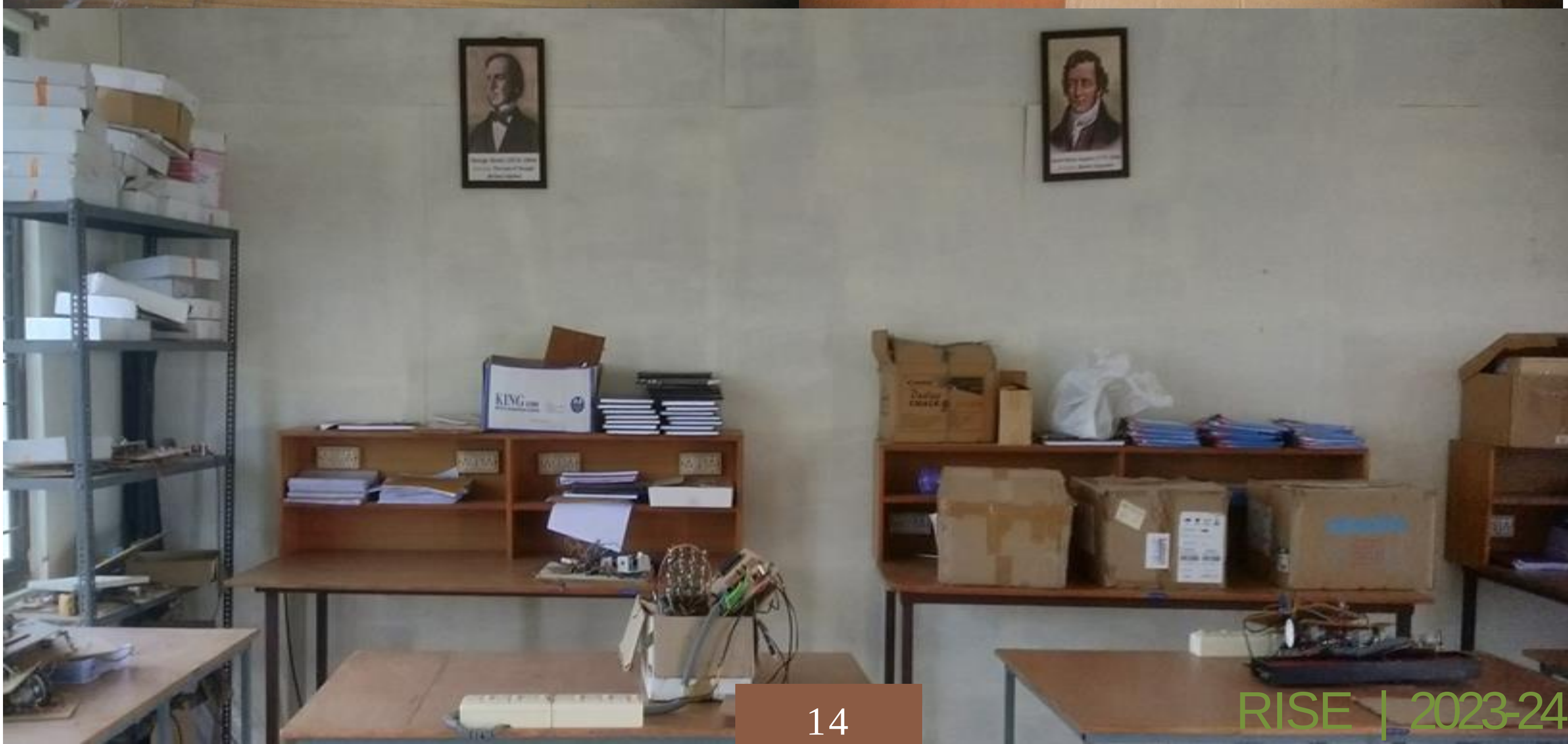
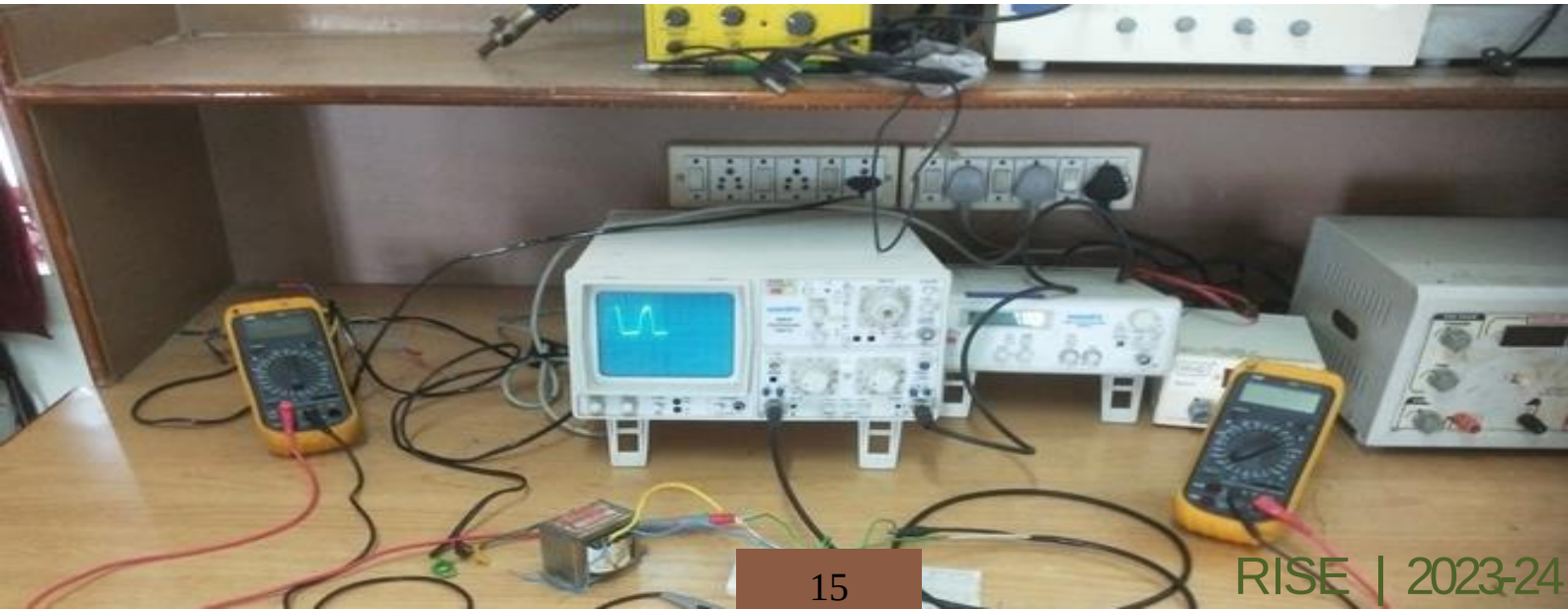


COMMUNICATION LAB

IC APPLICATION LAB

CIRCUITS LAB

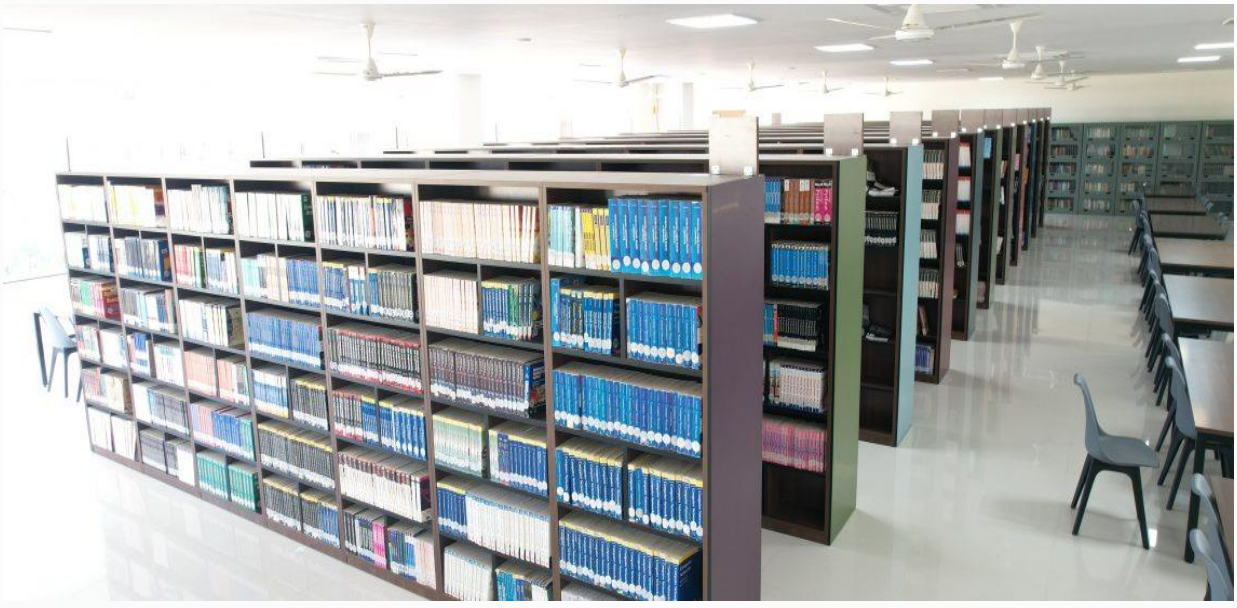


MICROWAVE LAB

Research & Development Lab

LIBRARY

Our college library occupies a prominent position and it is an important and integral part of the teaching programme. It is not merely a depository of books, but an active workshop instrument in the production of or original thinking. The aim of college education and college libraries in inter-related. College library extends opportunities for self-education to the deserving and enthusiastic students without any distinction. These libraries develop in each student a sense of responsibility in the pursuit of knowledge. College library stimulates the students to obtain, evaluate and recognize knowledge and to familiarize themselves with the trends of knowledge for further education and learning new Disciplines.



WORKSHOPS / GUEST LECTURES SEMINARS / VALUE ADDED COURSES

S.No	Activity Name
1	Value Added Course on ITC Infotech Training
2	Value Added Course on APTITUDE
3	Value Added Course on C Language Programming
4	A One Day Guest Lecture on Radar systems and it's Applications
5	A One Day Guest Lecture on Digital Communication Principles and Techniques
6	A Three-Day Workshop on Advanced IOT Applications
7	A Short-Term Course On ARDUINO
8	A Three-Day Workshop on PCB Designing
9	Webinar on Antenna Design using HFSS tool
10	A One Day Seminar on Recent Trends in Digital Image Processing Applications
11	A One Day Seminar on Special Techniques used in Satellite Communication
12	A One Day Seminar on Recent Trends in Linear IC Applications
13	Value Added Course on APTITUDE
14	Value Added Course on C Language Programming
15	A Five-Day Workshop on Signal Processing using Cortex M4 DSP
16	A Five-Day Workshop on Introduction to MATLAB And Its Applications
17	A Five-Day Workshop on Embedded Systems
18	A Five-Day Workshop on Communication systems using MATLAB
19	A One Day Guest Lecture on Recent Trends in VLSI Design
20	A One Day Guest Lecture on Digital IC design & Its Applications
21	A One Day Guest Lecture on Satellite Communications and Applications
22	A One Day Guest Lecture on ASIC Design From RTL To GDSII
23	A Three day Workshop on ARDUINO
24	A Three day Workshop on VLSI Design and Verification
25	A Five Week FDP on "C-Programming: Theory, Practice and Hands-on".

Arduino Workshop

"Spark Your Creativity: Arduino Workshop at RISE Krishna Sai Prakasam Group Of Institutions"

Introduction

On 12-10-2023, the RISE Krishna Sai Prakasam Group Of Institutions community came together to explore the fascinating world of microcontrollers at an Arduino workshop. Organized by Dept. of ECE, the event aimed to introduce students to the basics of Arduino programming and hardware integration.

What is Arduino?

Arduino is an open-source electronics platform that enables users to create interactive projects by combining hardware and software components. From robotics and home automation to wearable technology and art installations, Arduino's versatility has made it a favorite among makers, hobbyists, and professionals alike.

Workshop Highlights

The workshop was led by Naresh Technologies, who guided participants through the basics of Arduino programming and hardware integration. Students learned how to:

1. Program Arduino: Write and upload code to control LEDs, sensors, and actuators.
2. Build Circuits: Connect and configure hardware components to create interactive projects.
3. **Troubleshoot: Identify and resolve common errors and issues.**

Hands-on Projects

Participants worked on various projects, including:

1. Traffic Light Simulator: Created a traffic light system using LEDs and Arduino.
2. Home Automation: Designed a smart home automation system using sensors and actuators.
3. Robotics: Built a simple robot using Arduino and motor controllers.

Conclusion

The Arduino workshop at [College Name] was a huge success, sparking creativity and inspiring students to explore the world of microcontrollers. We hope to see more innovative projects and ideas emerge from our community in the future!

Upcoming Events

Stay tuned for more workshops and events organized by Dept. of ECE!

Join the Conversation

Share your thoughts and experiences with Arduino on our social media channels using #ArduinoAt Dept. of ECE.

Arduino Workshop

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Accredited by NAAC With "A" Grade

NH-16, Valluru,-523272, Ongole, Prakasam District, A.P

A One Day Guest Lecture on

Satellite Communications & Applications

Date: 01-02-2024

By

Dr. T Subba Reddy Retd. Sci./Engr.'H' ,

Former Associate Director, SDSC SHAR, Sriharikota

Guest Lecture on Satellite Communication

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Accredited by NAAC With "A" Grade

NH-16, Valluru,-523272, Ongole, Prakasam District, A.P

A One Day Guest Lecture on

ASIC DESIGN FROM RTL TO GDSII

Date: 02-02-2024

By

Dr. Guguloth Erna

Associate Professor




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Google


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Google

Efftronics Industrial Visit

Efftronics Industrial Visit

Efftronics Industrial Visit

ISRO-SHAR Industrial Visit

Faculty Development Program

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
1	BATTULA NAGARAJU	Innovation and Intellectual Property Rights (IPR) Awareness Programs Organized CSIR-IMMT as part of National Intellectual Property Festival (NIPF-2023)
2	Mr.SYAMBABU DARSI	One Week Online FDP on "Antennas for 5G Communications & Beyond" Organized by Dept of ECE ,Aditya Engineering College (A),Surampalem
3	Dr.V.T.Venkateswarlu	A 5 Day Workshop on VLSI to System Design: Siliconto End Application Approach organized by AICTE Arm Education and STMicroelectronics
4	Mr.Syambabu Darsi	A 5 Day Workshop on VLSI to System Design: Siliconto End Application Approach organized by AICTE Arm Education and STMicroelectronics
5	Dr.RAKESH MUTUKURU	One Week National Level FDP on Cloud Infrastructure (AWS) Organized by Dept.of CSE ,JNTUK University College of Engineering Narasaraopet,Andhrapradesh In collaboration with Brainovision Solutions India Pvt Ltd and AICTE
6	Dr.M.Rakesh	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML
7	Mr. O.V.Sai Kiran	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML
8	Mr. S. Brahma Naidu	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML
9	Mr. M.V. Satish Kumar	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML
10	Mr. P. Sreenivasa Reddy	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
11	Ch. Srinivasa Rao	A One Week National Level FDP On Recent Advances in Electronics and communication Engineering-an approach Through AI & ML
12	Mr.Paduchuri Malyadri	One Week Online FDP On the topic "Satellite Communication:Design Prospective and Applications" Organized by Annant Gyan Knowledge and Skill Pvt.Ltd
13	Mr.SYAMBABU DARSI	NITTTR-Chandigarh-AICTE-One Week Online FDP-Antenna Design Techniques and Tools
14	Dr.M.Rakesh	NIELIT-5Day/5hours-Course on VLSI For Beginners
15	K SURESH BABU	8 Weeks NPTEL-Course -AICTE-FDP On Introduction to Machine Learning
16	K SAIMAN	8 Weeks NPTEL-Course -AICTE-FDP On Introduction to Machine Learning
17	Mr. P. Surya	12 Weeks NPTEL-Course -AICTE-FDP On Introduction to Industry 4.0 and Industrial Internet of Thing
18	Mr.SYAMBABU DARSI	12 Weeks NPTEL-Course -AICTE-FDP On Introduction to Industry 4.0 and Industrial Internet of Thing
19	Mr.K.Saiman	NIELIT-5Day/5hours-Course on Embedded For Beginners
20	Mr. DARSI SYAMBABU	Five Day Workshop on Outcome Based Education-GVPCDPG(A)-Visakhapatnam

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
21	Dr.M.Rakesh	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
22	Mr. P. Surya	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
23	Mr.SYAMBABU DARSI	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
24	Miss.M.Sowjanya Priyadarsini	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
25	Mrs.K.Rajyam	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
26	Mrs.B.Rajani	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
27	Mrs. U.S.R.L. Saikumari	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
28	Mrs. P.V. Supraja	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
29	Mrs. A. Sujana	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology
30	K. Rajyalakshmi	Three Day National Level FDP On Emerging Trends in VLSI Device,circuits & System design-A Practical Approach-Held at R,V,R,&J.C College of Engineering & Technology

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
31	Dr.Ch.Venugopal Reddy	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
32	Dr.M.Rakesh	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
33	Mr.K.Suresh Babu	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
34	Mr.KAMBAMPATI SAIMAN	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
35	Mr. P. Surya	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
36	Mr.P.Malyadri	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
37	Mr.SYAMBABU DARSI	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
38	Mr. P.V.M Vijay Bhaskar	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
39	Mr.M.Madhu Babu	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
40	Mr.K.V.Goutham	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
41	Mr. Ch. Arun Prakash	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
42	Mrs.B.Rajani	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
43	Mrs.K.Rajyam	AICTE-ATAL- FDP On -Emerging Research Area in Advance VLSI System Design & Challenges : Semiconductor-to-End Application – Approach at PACE INSTITUTE OF TECHNOLOGY AND SCIENCES -Valluru-ongole
44	Mr.Paduchuri Malyadri	One Week Online FDP On the topic "Signals & Systems:Simulation Analysis & Applications(SSSA-2023)" Organized by Annant Gyan Knowledge and Skill Pvt.Ltd
45	Mr.SURYA P	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Trends in 5G Networks-Applications in Biomedical Engineering at RAMCO INSTITUTE OF TECHNOLOGY
46	Mr. P.V.M Vijay Bhaskar	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Trends in Signal & Image Processimg at AUSISANKARA COLLEGE OF ENGINEERING & TECHNOLOGY
47	M.Sowjanya Priyadarsini	Six Days Online FDP on "VLSI Design-Modelling & Simulation"Organized by Dept of ECE in Association with "Chipsmart Technologies Pvt .Ltd,Malineni Lakshmaiah Women's Engineering College
48	Mr. P. Surya	5 Days "AICTE approved face to face Faculty Development Program on Universal Human Values-II" Conducted from 23 rd to 27th January 2024 at Sri Sai ram Engineering College,West Tambaram,Chennai,Tamil nadu
49	Mr.D.Syambabu	5 Days "AICTE approved face to face Faculty Development Program on Universal Human Values-II" Conducted from 23 rd to 27th January 2024 at Sri Sai ram Engineering College,West Tambaram,Chennai,Tamil nadu
50	Mr.B.NagaRaju	5 Days "AICTE approved face to face Faculty Development Program on Universal Human Values-II" Conducted from 23 rd to 27th January 2024 at Sri Sai ram Engineering College,West Tambaram,Chennai,Tamil nadu

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
51	Dr.M.Rakesh	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Tuning electric and dielectric properties of nano thin film devices through material science engineering at KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES
52	Mr. P.V.M Vijay Bhaskar	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Tuning electric and dielectric properties of nano thin film devices through material science engineering at KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES
53	Mr. DARSISYAMBABU	NITTTR-Chandigarh-AICTE-One Week Online FDP-Arduino Based system design using Tinker CAD Free Simulator-05-02-2024 to 09-02-2024
54	Mr.SURYA P	6 Day online FDP ON -Generative AI With Large Language Models
55	Mr. DARSISYAMBABU	NITTTR-Chandigarh-AICTE-One Week Online FDP-AI/Mland Data Science for Industry 4.0(Advanced Level)
56	Mr.SURYA P	8 Weeks NPTEL-Course -AICTE-FDP On Data Science for Engineers
57	Mr. DARSISYAMBABU	8 Weeks NPTEL-Course -AICTE-FDP On Data Science for Engineers
58	SYAMBABU DARSI	Five Day Virtual FDP on 'Future Challenges in 6G' Organized by Department of Wireless Communications,SIMATS Engineering ,SIMATS,Thandalam,Chennai
59	SYAMBABU DARSI	The SERB Sponsored International Workshop on "AntennaDesign Techniques for WirelessPower Transfer:Current Trends and Future Prospects" Organized by The Dept of ECE Sri Krishna College of Technology,Coimbatore
60	Mr.K.Saiman	5 Days Online "AICTE approved Faculty Development Program on Universal Human Values-I" Conducted from 11th MARCH to 15th MARCH 2024
61	Mr.K.V.Goutham	5 Days Online "AICTE approved Faculty Development Program on Universal Human Values-I" Conducted from 11th MARCH to 15th MARCH 2024
62	Mr. DARSISYAMBABU	A Two Day Online Workshop on "Hands on Training on e-Tools For Research Organized by KSR Institute for Engineering and Technology,chennai

Faculty Development Programmes (FDP), Workshops, Seminars, Guest Lectures, Awards/Appreciation certificates

S.NO	Faculty Name	Title of the program
63	Mr.B.NagaRaju	5-Day Online Faculty Development Program on “Outcome Based Education (Use of AI Tools in Teaching and Learning)” held on 22-26 April, 2024 organised by Academic Staff College, Dr.M.G.R. Educational and Research Institute.
64	Mr.Rambabu Nusullapalli	6 Days "AICTE approved Faculty Development Program on Universal Human Values-II"
65	Dr.Ch.Venugopal Reddy	5-Day Online FDP on “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 13th May to 17th May 2024.
66	Mr.K.Saiman	12 Weeks NPTEL-Course -AICTE-FDP On Cloud Computing
67	Mr.SURYA P	12 Weeks NPTEL-Course -AICTE-FDP On Cloud Computing
68	Mr. DARSISYAMBABU	12 Weeks NPTEL-Course -AICTE-FDP On Cloud Computing
69	Mr.K.Saiman	12 Weeks NPTEL-Course -AICTE-FDP On Introduction to Internet of Things
70	Mr.P.Malyadri	12 Weeks NPTEL-Course -AICTE- On Introduction to Internet of Things
71	Mr.P.Malyadri	12 Weeks NPTEL-Course -AICTE- On Switching circuits and Logic Design
72	Mr. DARSISYAMBABU	8 Weeks NPTEL-Course -AICTE-FDP On Data Science For Engineers
73	SYAMBABU DARSI	Certification of Appreciation Compter Science And Engineering For Being recognized as NPTEL DISCIPLINE STAR JAN-APR 2024
74	Mr. DARSI SYAMBABU	One Week FDP On Recent Trends in Bioelectromagnetic Research and Applications -Organized by School of Electronics Engineering (SENSE) and Technically sponsored by VIT AP-IEEE SB,MTT SBC at VIT-AP University, Amaravati, India during 17-04-2024 TO 23-04-2024
75	Mr. DARSI SYAMBABU	5-Day Online Faculty Development Program on :"AI -Insights: Predictive Power of ML,DL,& NLP,Organized by AI & ML Department,Spoorthy Engineering College during 14-05-2024 to 18-05-2024

NPTEL

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SYAMBABU DARSI

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **72** %

Online Assignments	24.13/25	Proctored Exam	48/75

Total number of candidates certified in this course: **9534**

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL23CS82S543900922 To verify the certificate No. of credits recommended: 3 or 4

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SYAMBABU DARSI

for successfully completing the course

Data Science for Engineers

with a consolidated score of **54** %

Online Assignments	19.29/25	Proctored Exam	34.21/75

Total number of candidates certified in this course: **2868**

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Mar 2024

(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL24CS53S641900219 To verify the certificate No. of credits recommended: 2 or 3

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SYAMBABU DARSI

for successfully completing the course

Python for Data Science

with a consolidated score of **60** %

Online Assignments	22/25	Proctored Exam	37.74/75

Total number of candidates certified in this course: **4711**

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL23CS21S45340129 To validate the ce No. of credits recommended: 1 or 2

LIST OF PUBLICATIONS

S.No	Title of Paper	Name of the author	Name of the Journal	Year of Publication	ISSN Number
1	12T MEMORY CELL FOR AEROSPACE APPLICATIONS IN NANO SCALE CMOS TECHNOLOGY	Dr.Ch.Venu Gopal Reddy	IJASEM	2024	ISSN: 2454-9940
2	A SECURE INTERNET OF THINGS MODEL USING BLOCKCHAIN WITH INTEGRATED POWER OPTIMIZATION	Dr.V.T.Venkateswarlu	Tele Communications and Radio Engineering	2024	ISSN:1943-6009
3	ADVANCED PARKING SLOT AVAILABILITY CHECKING SYSTEM USING RASPBERRY-Pi	Dr. M. Rakesh	IJASEM	2024	ISSN: 2454-9940
4.	ADVANCED SECURITY SYSTEM USING RASPBERRY PI	Mr. K. Saiman	IJASEM	2024	ISSN: 2454-9940
5.	AUTOMATED HAND WHEEL CHAIR FOR DISABLED PEOPLE USING MEMS TECHNOLOGY	Mr. B.Nagaraju	IJASEM	2024	ISSN: 2454-9940
6.	Automatic Traffic E Challan Generation using Deep learning	Mr. CH. Arun Prakash	IJASEM	2024	ISSN: 2454-9940
7.	AIR QUALITY MONITORING SYSTEM USING LORA	Mr. D. Syam Babu	IJASEM	2024	ISSN: 2454-9940
8.	AD-BLOCKING USING RASPBERRY PI-HOLE	Mr.K.Suresh Babu	IJASEM	2024	ISSN: 2454-9940
9.	AMBULANCE AWARE EFFICIENT TRAFFIC MANAGEMENT SYSTEM USING IOT	Mr.K.V.Goutham	IJMECE	2024	ISSN: 2321-2152

LIST OF PUBLICATIONS

S.No	Title of Paper	Name of the author	Name of the Journal	Year of Publication	ISSN Number
10.	AN APPROACH TO LUT BASED MULTIPLIER FOR SHORT WORD LENGTH DSP SYSTEMS	Mr.K.V.Hareesh	IJMECE	2024	ISSN: 2321-2152
11.	BIT-SWAPPING LFSR AND SCAN-CHAIN ORDERING: A NOVEL TECHNIQUE FOR PEAK- AND AVERAGE-POWER REDUCTION IN SCAN-BASED BIST	Mr. M. Madhu Babu	IJMECE	2024	ISSN: 2321-2152
12.	AIR AND NOISE POLLUTION MONITORING SYSTEM	Mr.P.Malyadri	IJOBAAR	2024	ISSN 2249-3352
13.	AGRII ROBOT FOR MULTIPURPOSE APPLICATIONS (PUMPING AND PLUGHING)	Mr.P.Surya	IJOBAAR	2024	ISSN 2249-3352
14.	AN INTELLIGENT WALKING STICK FOR VISUALLY CHALLENGED PEOPLE WITH VOICE ALERT	Mr. Mr. P.V.M Vijay Bhaskar	IJMECE	2024	ISSN2321-2152

Summary of Internships

S.No	Name Of Company	No. of Students Attended
1	MICROCHIP in Association with EduSkills	42
2	India Edu Program Google for Developers in Association with EduSkills	39
3	AWS Academy in Association with EduSkills	30
4	SS&C blueprism in Association with EduSkills	10
5	JUNIPER Networks in Association with EduSkills	4
6	Paloalto Networks in Association with EduSkills	8
7	ALTAIR in Association with EduSkills	1
8	ZSCaler in Association with EduSkills	1
9	Ansys in Association with EduSkills	1
10	FORTINET in Association with EduSkills	3
11	Intern Certify in Association with EduSkills	36
12	EduSkills Academy	1
13	ASSISTIVE INFOTECH PRIVATE LIMITED	6
14	Sri Shasha Prayathi Technologies Pvt Ltd	63
15	APPLY VOLT	37
16	Naresh Technologies	52
17	modak academy	1
18	arm Education	1
TOTAL		336

List of MOUs

S.No	Company Name
1	Apply Volt, Vijayawada
2	Krinydi Technologies Pvt Ltd, Hyderabad
3	Sri Shasha Prayathi Technologies Pvt Ltd
4	Silicon Techno Solutions
5	Naresh Technologies Consultancy Services, Guntur
6	Sai Technologies, Hyderabad

Placements and Higher education endeavors of ECE students

S.No	Company Name	Number of Students Placed
1	ZF WEBCO	18
2	FACE PREP	13
3	ALLSE TECHNOLOGIES	3
4	ITC INFOTECH	3
5	KODENEST	2
6	LUMINA DATAMATICS	3
7	QSPIDERS	3
8	SEOYON E-HWA	4
9	STAR HEALTH	4
10	SUTHERLAND	3
11	TVS SUNDARAM	2
12	CONSENSUS	1
13	DESTINATION	1

S.No	Name of Student	Institution Joined	Program Admitted
1	Amerneni Sravani	Swansea University	International Business Management
2	D. Sireesha	PACE Institute of Technology and Sciences	VLSI & Embedded Systems

S.No	Name of Student	Exam Name
1	Sri Lakshmi Kalyani Divi	GRE Qualified
2	Sri Lakshmi Kalyani Divi	TOEFL Qualified

Non Curriculum Activities

S. No	Activities
1	BLOOD DONATION
2	VOTER AWARENESS
3	BHARATIYA SANSKRITIKA VAIBHAVAM
4	BLOOD DONATION
5	IMPORTANCE OF MEDITATION
6	EYE CAMP
7	CANCER AWARENESS
8	BLOOD DONATION
9	VIGILANCE AWARENESS PROGRAM
10	MEDETETION
11	VOTERS PLEDGE
12	HEALTH & HYGIENE
13	POLLUTION CONTROL
14	SVEEP AWARENESS FOR ELECTION
15	KOUSHAL VIKAS YOJANA
16	DACHURI MEDICALCAMP
17	ROAD SAFETY AWARENESS PROGRAM
18	VIKSIT BHARAT
19	ESSAY WRITING
20	REPUBLIC DAY
21	BLOOD DONATION
22	WORLD CANCER DAY
23	ENADU VOTERS AWARENESS PROGRAMME
24	DEWORMING
25	ROAD SAFETY
26	YOGA DAY
27	WORLD HAPPINESS DAY
28	BLOOD DONATION

NSS Camp

The NSS (National Service Scheme) Service Camp is a wonderful initiative that aims to foster community service, social responsibility, and youth empowerment. Here are some key aspects of the NSS Service Camp:

Objectives

1. Community Service: To provide opportunities for students to engage in community service and contribute to the betterment of society.

Activities

1. Rural Development: NSS volunteers work on rural development projects, such as construction of toilets, renovation of schools, and provision of healthcare services.
2. Environmental Conservation: Volunteers participate in environmental conservation activities, like tree planting, waste management, and cleanliness drives.
3. Health and Hygiene: NSS teams organize health camps, blood donation drives, and hygiene awareness programs.
4. Education and Literacy: Volunteers conduct literacy programs, educational workshops, and vocational training sessions.

Benefits

1. Develops Social Skills: NSS Service Camps help students develop essential social skills, like communication, teamwork, and leadership.
2. Fosters Empathy and Compassion: By engaging with marginalized communities, students develop empathy and compassion, becoming more socially responsible individuals.

Girl’s Sports Compititions

"Raiding the Scene: Kabaddi's Rise to Glory"

Kabaddi:

The Raid Revolution Kabaddi is a contact team sport that requires strategy, strength, and agility. Our college Kabaddi team has been making waves, with their lightning-fast raids and impressive tagging skills, the ECE department's very own Kabaddi enthusiasts.

Shot Put:

The Power Play Shot Put is a track and field event that demands raw power, technique, and focus. Our college Shot Put team has been consistently impressive, with several members breaking college records, the ECE department's very own Shot Put enthusiasts.

Boy's Sports Competitions

"ECE Shines: Sports Achievements and Prizes Galore"

Introduction

The ECE department has always been known for its academic excellence, but our students have also been making waves in the sports arena. In this article, we'll highlight our department's achievements in Kabaddi, Volleyball, Hockey, and the prizes we've won.

Kabaddi: Raiding the Competition

Our ECE Kabaddi team has been on a roll, winning several inter-college tournaments. Their impressive raids, strategic teamwork, and sheer determination have made them a force to be reckoned with.

Volleyball: Spiking to Success

The ECE Volleyball team has also been performing exceptionally well, with several wins in inter-college and university-level tournaments. Their impressive spikes, blocks, and serves have earned them a reputation as one of the top teams in the college.

Hockey: Sticking to Excellence

Our ECE Hockey team has been sticking to their goals, winning several matches in the college hockey league. Their skillful stick work, strategic teamwork, and passion for the game have made them a formidable opponent.

Prizes and Recognition

Our ECE students have won several prizes and recognition for their sports achievements.

పార్థ

రైజ్ రేడియన్స్-2023 విజయవంతం

ఒంగోలు టౌన్, ఏప్రిల్6, ప్రభాతవార్త

రైజ్ కృష్ణసాయి గ్రూప్ విద్యాసంస్థలలో రైజ్ రేడియన్స్-2023 టెక్నికల్ ఫెస్ట్ ఘనంగా నిర్వహించారు. రెండురోజుల ఫెస్ట్‌లో టెక్నికల్,క్రీడా విభాగాలలో విద్యార్థుల ప్రతిభ అందరినీ ఆకట్టుకుంది. బాలికల విభాగంలో కబడ్డీలో, టెన్నికాయిట్‌లో రైజ్ కృష్ణసాయి, త్రోబాల్‌లో మిట్టపల్లి ఇంజనీరింగ్ కాలేజి-గుంటూరు ప్రథమ స్థానంలో నిలిచాయి. బాలుర విభాగంలో బాస్కెట్ బాల్‌లో ఎన్‌బికెఆర్-వాకాడు,కబడ్డీలో ధనేకుల ఇంజనీరింగ్ కాలేజి-విజయవాడ,టేబుల్ టెన్నిస్‌లో క్విస్-ఒంగోలు,వాలీబాల్‌లో శ్రీవిద్యానికేతన్-తిరుపతి ప్రథమ స్థానంలో నిలిచాయి. విజేతలకు కళాశాలల ఛైర్మన్ శిద్దా వెంకటేశ్వరరావు,గౌరవ ఛైర్మన్ ఇస్కాల రంగమన్నార్,సెక్రటరీ అండ్ కరెస్పాండెంట్ శిద్దా హనుమంతరావు, డైరెక్టర్ డాక్టర్ భాస్కరరావు చేతులమీదుగా ట్రోఫీలు,మెడల్స్,సర్టిఫికేట్స్ ప్రదానం చేశారు.కార్యక్రమంలో ప్రిన్సిపాల్ డాక్టర్ సుబ్రహ్మణ్యం,ఫెస్ గోపాల్,హెచ్‌ఓడిలు,ఫిజికల్ డైరెక్టర్స్,అధ్యాపక [illegible]రు.

General Articles

S SIREESHA 228A1A0429 IIrd ECE-I

The Importance of Diversity and Inclusion in College Life

As we embark on our academic journey, we're surrounded by individuals from diverse backgrounds, cultures, and identities. This diversity enriches our educational experience, fosters personal growth, and prepares us for a globalized world. However, having a diverse student body isn't enough; we must also strive for inclusion.

Diversity Matters
Interacting with people from different backgrounds broadens our perspectives, increases empathy, improves critical thinking, and enhances creativity.

Inclusion Matters
Inclusive environments make students feel valued, respected, and connected to their college community. Inclusion promotes academic success, personal growth, and social cohesion.

Strategies for Promoting Inclusion
1. Create safe spaces for students to express themselves without fear of judgment.
2. Foster inclusive language and avoid microaggressions.
3. Provide resources and support for students from diverse backgrounds.
4. Celebrate diversity through events and activities.
5. Engage in ongoing dialogue about diversity and inclusion.

Conclusion
Diversity and inclusion are essential components of a thriving college community. By promoting inclusivity, we can unlock the full potential of diversity, fostering a campus culture that values, respects, and celebrates all individuals. This requires effort, commitment, and dedication from all members of our college community.

Campus Life: A Journey of Discovery

Campus life is a transformative experience that offers a unique blend of academic rigor, extracurricular activities, and personal growth. It's a time to explore new interests, develop new skills, and make lifelong connections.

From attending lectures and seminars to participating in research projects and internships, students can engage with their academic interests in a hands-on and meaningful way. Outside the classroom, students can join clubs, teams, and organizations that align with their passions and interests. Campus life is also a time to develop important life skills, such as time management, teamwork, and problem-solving. With access to state-of-the-art facilities, cutting-edge technology, and experienced faculty, students have the resources they need to succeed.

Ultimately, campus life is a journey of discovery – a chance to explore new possibilities, challenge oneself, and become the best version of oneself.

CH V L S TEJASWI
218A1A0468
ECE-II 3rd Year

The Art Of Saying No

Saying no is an essential life skill that can be incredibly empowering. By learning to say no, you're able to set healthy boundaries, prioritize your own needs, and build confidence in yourself .

Why Saying No is Important

Prevents Overcommitting: Saying no helps you avoid taking on too much and maintain a healthy work-life balance.

Reduces Stress and Burnout: By setting boundaries, you can reduce feelings of overwhelm and exhaustion.

Fosters Healthy Relationships: Saying no respectfully can actually strengthen relationships by promoting mutual respect and understanding.

How to Say No with Confidence

Be Direct and Clear: Use a simple and direct "no" without feeling obligated to justify or explain.

Use "I" Statements: Instead of saying "you're asking too much," say "I feel overwhelmed when I have too much on my plate."

Offer Alternatives: If possible, suggest alternative solutions or options that work better for you.

Remember, saying no is not selfish; it's essential for taking care of yourself and creating a healthier, happier life. By prioritizing your own needs and setting boundaries, you'll become more confident, resilient, and empowered to live life on your own terms.

D. MANI HARSHINI
218A1A0415
ECE-II 3rd Year

GRATITUDE

The Power of Gratitude

Gratitude is a powerful emotion that can have a profound impact on our lives. By focusing on what we're thankful for, we can improve our mental health, relationships, resilience, and even physical health.

**** Practice gratitude daily through journaling, mindfulness, or sharing with others***
**** Express gratitude to others to strengthen relationships and build community***
**** Focus on the present moment and appreciate the small things in life***

Gratitude is a simple yet transformative practice that can bring joy, positivity, and fulfillment to our lives. By incorporating gratitude into our daily lives, we can cultivate a more optimistic outlook, stronger relationships, and a greater appreciation for the world around us

S YASASWINI
218A1A0487
ECE-II 3rd Year

Generative AI

O. MANI KANTA , III-ECE II, Roll No: 218A1A04B4

Generative AI is a type of artificial intelligence technology that can produce various types of content, including text, imagery, audio, and synthetic data. This technology has been around since the 1960s, but recent advances have made it more accessible and powerful [1].

Key Features of Generative AI:

Can produce multiple types of content: Generative AI can create text, images, audio, and synthetic data.

Uses neural networks: Generative AI relies on neural networks to learn patterns in data and generate new content.

Can be fine-tuned: Generative AI models can be fine-tuned for specific use cases and applications.

Applications of Generative AI:

Chatbots and customer service: Generative AI can be used to create chatbots that can respond to customer inquiries.

Content creation: ***Generative AI can be used to generate text, images, and audio for various applications.***

Design and prototyping: Generative AI can be used to generate design concepts and prototypes.

Concerns and Limitations:

Accuracy and bias: Generative AI models can perpetuate biases and inaccuracies present in the training data.

Misuse and abuse: Generative AI can be used to create fake news, deepfakes, and other malicious content.

Job displacement: Generative AI may displace jobs that involve repetitive or creative tasks.

Future of Generative AI:

Increased adoption: Generative AI is expected to become more widely adopted across various industries.

- Improved accuracy and transparency: Researchers are working to improve the accuracy and transparency of generative AI models.

- New applications and use cases: Generative AI is expected to enable new applications and use cases that we cannot yet imagine.

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Analysis and Design of an Embedded System for Industrial Automation

Industrial automation has become an essential part of modern manufacturing, enabling efficient and precise control of machinery and processes. Embedded systems play a crucial role in industrial automation, providing real-time control and monitoring of industrial processes. This article analyzes and designs an embedded system for industrial automation, discussing its advantages and performance.

Introduction

Industrial automation involves the use of automated systems to control and monitor industrial processes. Embedded systems are widely used in industrial automation due to their reliability, flexibility, and real-time control capabilities. The design of an embedded system for industrial automation requires careful consideration of several factors, including hardware and software requirements, communication protocols, and safety considerations.

System Requirements

The embedded system for industrial automation is required to perform the following functions:

1. Real-time control: The system must be able to control industrial processes in real-time, responding to changes in the process and making adjustments as necessary.

2. Monitoring and diagnostics: The system must be able to monitor the industrial process and provide diagnostic information in case of faults or errors.

3. Communication: The system must be able to communicate with other systems and devices, such as sensors, actuators, and other embedded systems.

4. Safety: The system must be designed with safety considerations in mind, ensuring that the industrial process is operated safely and efficiently.

Hardware Design

The hardware design of the embedded system for industrial automation consists of the following components:

1. Microcontroller: A microcontroller is used as the central processing unit of the system, providing real-time control and monitoring capabilities.

2. Sensors and actuators: Sensors and actuators are used to monitor and control the industrial process, providing feedback to the microcontroller.

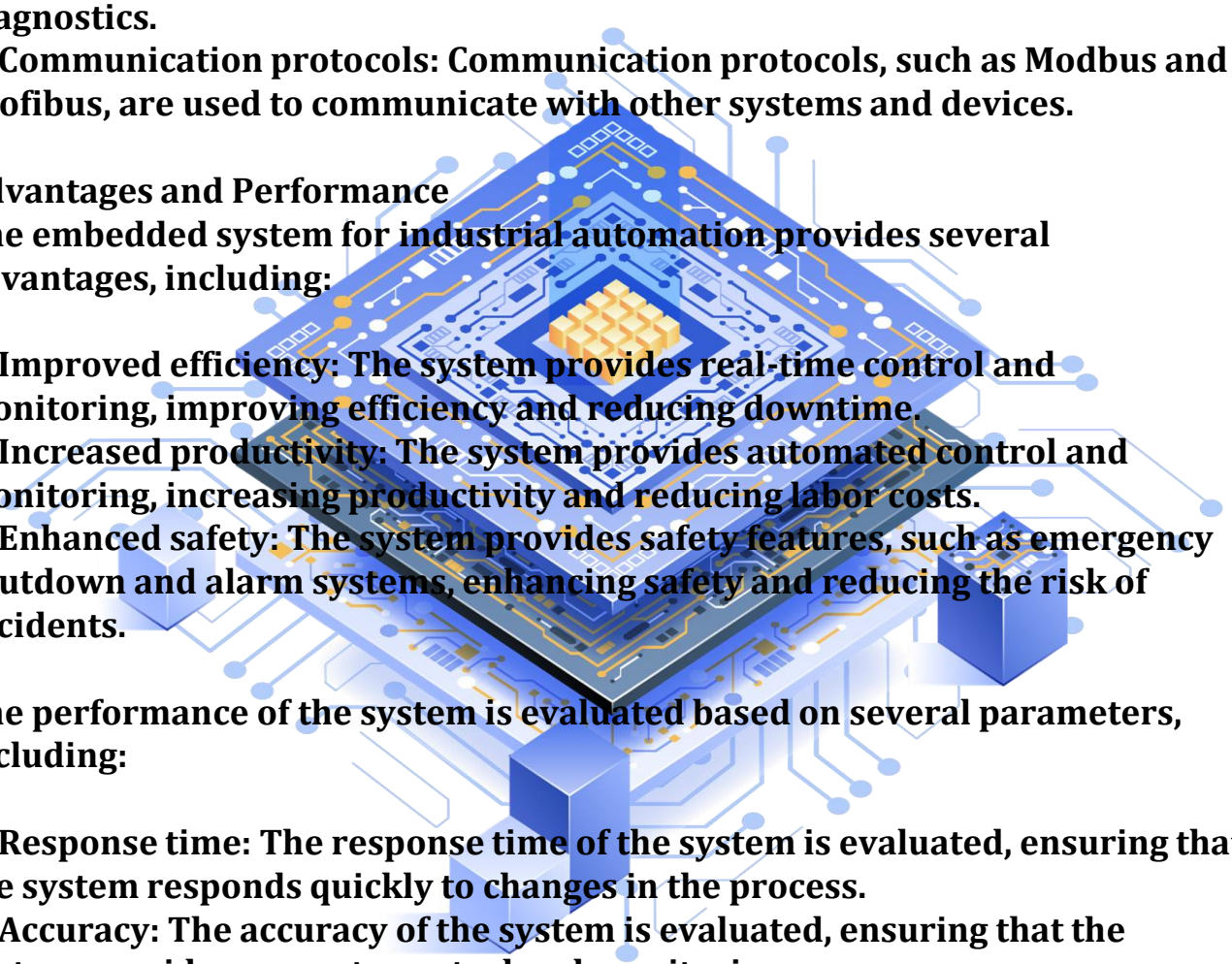
3. Communication interfaces: Communication interfaces, such as RS-232, RS-485, and Ethernet, are used to communicate with other systems and devices.

4. Power supply: A power supply is used to provide power to the system, ensuring reliable operation.

Software Design

The software design of the embedded system for industrial automation consists of the following components:

1. Real-time operating system: A real-time operating system is used to provide real-time control and monitoring capabilities.
2. Application software: Application software is used to implement the control and monitoring algorithms, providing real-time control and diagnostics.
3. Communication protocols: Communication protocols, such as Modbus and Profibus, are used to communicate with other systems and devices.



Advantages and Performance

The embedded system for industrial automation provides several advantages, including:

1. Improved efficiency: The system provides real-time control and monitoring, improving efficiency and reducing downtime.
2. Increased productivity: The system provides automated control and monitoring, increasing productivity and reducing labor costs.
3. Enhanced safety: The system provides safety features, such as emergency shutdown and alarm systems, enhancing safety and reducing the risk of accidents.

The performance of the system is evaluated based on several parameters, including:

1. Response time: The response time of the system is evaluated, ensuring that the system responds quickly to changes in the process.
2. Accuracy: The accuracy of the system is evaluated, ensuring that the system provides accurate control and monitoring.
3. Reliability: The reliability of the system is evaluated, ensuring that the system operates reliably and consistently.

Conclusion

The embedded system for industrial automation provides a reliable and efficient solution for controlling and monitoring industrial processes. The system provides real-time control and monitoring, improving efficiency and reducing downtime. The system also provides safety features, such as emergency shutdown and alarm systems, enhancing safety and reducing the risk of accidents. The performance of the system is evaluated based on several parameters, including response time, a ccuracy, and reliability.

Advanced semiconductor processes

G V S MOHAN REDDY, III-ECE II, Roll No: 218A1A04A6

Advanced semiconductor processes have revolutionized the field of microelectronics, enabling the creation of smaller, faster, and more powerful devices. The latest technologies, such as FinFET and Gate-All-Around (GAA), have replaced traditional planar transistors, offering higher performance, lower power consumption, and increased functionality [1].

The semiconductor industry has witnessed significant advancements in recent years, with the introduction of new materials, technologies, and manufacturing processes. These advancements have enabled the development of complex systems-on-chip (SoCs), which integrate multiple functions, such as processing, memory, and input/output interfaces, onto a single chip.

Some of the key benefits of advanced semiconductor processes include:

- Increased Transistor Density: Allowing for more transistors to be packed into a smaller area, enabling faster and more powerful devices.

- Improved Power Efficiency: Reducing power consumption, heat generation, and energy costs.

- Enhanced Performance: Enabling faster switching speeds, higher clock frequencies, and improved overall system performance.

- Reduced Costs: Through increased yields, reduced material consumption, and improved manufacturing efficiency.

However, as semiconductor processes continue to advance, they also pose significant challenges, such as:

- Increased Complexity: Requiring more sophisticated design and manufacturing techniques.

- Higher Development Costs: Due to the need for specialized equipment, software, and expertise.

- Environmental Concerns: Related to the use of hazardous materials, energy consumption, and waste generation.

In conclusion, advanced semiconductor processes have transformed the field of microelectronics, enabling the development of smaller, faster, and more powerful devices. While these advancements pose significant challenges, they also offer tremendous opportunities for innovation and growth in the semiconductor industry .

A Novel Wireless Sensor Network (WSN) using Microcontrollers

SHAIK AZHAR , III-ECE II, Roll No: 218A1A04C0

A Novel Wireless Sensor Network (WSN) using Microcontrollers

Wireless Sensor Networks (WSNs) have become an essential part of modern technology, enabling real-time monitoring and control of various physical parameters. Microcontrollers have played a crucial role in the development of WSNs, providing a compact and efficient platform for sensor node implementation. This article proposes a novel WSN architecture using microcontrollers, discussing its design, implementation, and performance.

Introduction

WSNs consist of spatially distributed sensor nodes that collect and transmit data to a central node or base station. Microcontrollers are widely used in WSNs due to their low power consumption, small size, and ease of programming. The proposed WSN architecture uses a microcontroller-based sensor node that integrates sensing, processing, and communication capabilities.

System Architecture

The proposed WSN architecture consists of the following components:

1. Sensor Node: The sensor node is based on a microcontroller that integrates sensing, processing, and communication capabilities. The node consists of sensors, a microcontroller, and a wireless transceiver.

2. Base Station: The base station is a central node that collects data from sensor nodes and performs data analysis and processing.

3. Wireless Communication: Wireless communication is used to transmit data between sensor nodes and the base station.

Microcontroller-Based Sensor Node

The microcontroller-based sensor node is designed to be compact, efficient, and low-power. The node consists of:

1. Microcontroller: A low-power microcontroller is used to process sensor data and control the wireless transceiver.

2. Sensors: Various sensors can be integrated with the node, such as temperature, humidity, and pressure sensors.

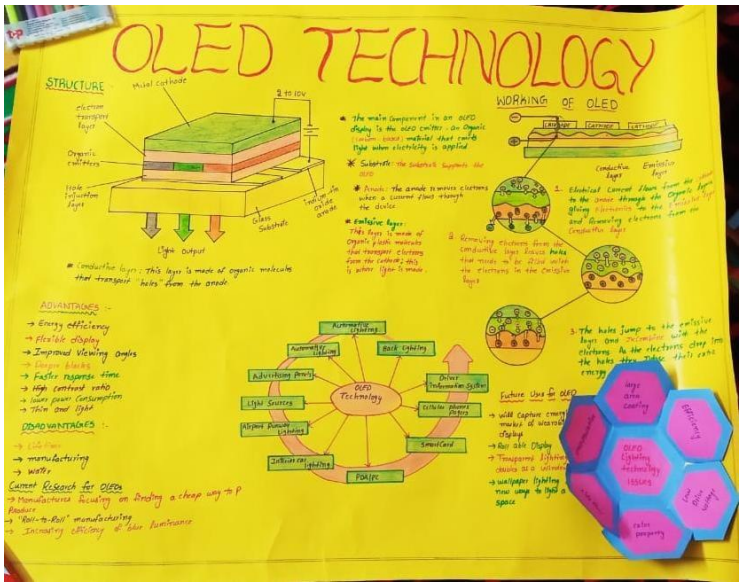
3. Wireless Transceiver: A low-power wireless transceiver is used to transmit data to the base station.

Implementation and Results

The proposed WSN architecture is implemented using a microcontroller-based sensor node and a base station. The sensor node is programmed using a low-power wireless communication protocol, and the base station is implemented using a data analysis and processing software.

The results show that the proposed WSN architecture provides:
1. Low Power Consumption: The sensor node consumes low power, making it suitable for battery-powered applications.
2. High Accuracy: The sensor node provides high accuracy and reliability in sensing and transmitting data.
3. Real-Time Data Transmission: The wireless transceiver enables real-time data transmission between the sensor node and the base station.
Conclusion
The proposed WSN architecture using microcontrollers provides a compact, efficient, and low-power solution for real-time monitoring and control applications. The microcontroller-based sensor node integrates sensing, processing, and communication capabilities, making it suitable for a wide range of applications. The results show that the proposed architecture provides low power consumption, high accuracy, and real-time data transmission

POSTER PRESENTATIONS



U.SIREESHA
218A1A0494
ECE-II 3rd Year

OLED Technology: Revolutionizing Displays

Introduction

Organic Light-Emitting Diode (OLED) technology has been gaining significant attention in recent years due to its potential to revolutionize the display industry. OLEDs offer several advantages over traditional display technologies, including higher contrast ratios, faster response times, and lower power consumption.

What is OLED?

An OLED is a type of display technology that uses an organic compound to produce light when an electric current is passed through it. OLEDs consist of several layers, including an anode, a cathode, and an organic layer.

How OLED Works?

1. Electrical Current: An electrical current is passed through the OLED.
2. Excitation: The organic layer is excited, causing it to emit light.
3. Emission: The light is emitted through the anode and cathode.

Advantages of OLED

1. Higher Contrast Ratio: OLEDs offer higher contrast ratios than traditional displays.
2. Faster Response Time: OLEDs have faster response times than traditional displays.
3. Lower Power Consumption: OLEDs consume less power than traditional displays.
4. Wider Viewing Angle: OLEDs offer wider viewing angles than traditional displays.

Applications of OLED

1. Smartphones: OLEDs are widely used in smartphones due to their high contrast ratio and fast response time.
2. TVs: OLED TVs offer superior picture quality and wider viewing angles.
3. Wearables: OLEDs are used in wearables such as smartwatches and fitness trackers.
4. Automotive: OLEDs are used in automotive displays such as dashboards and infotainment systems.

INDEPENDANCE DAY

Janmastami Celebrations

Janmashtami celebrations are vibrant and joyful, honoring the birth of Lord Krishna. Students perform puja (worship) ceremonies at home and in temples, offering flowers, fruits, and sweets to Lord Krishna. In Maharashtra and Gujarat, teams of young men form human pyramids to break a clay pot filled with curd and butter, symbolizing Lord Krishna's childhood mischief. Colorful processions (yatra) with decorated floats, music, and dance are taken out in cities and towns.

Special sweets like pedha, laddu, and jalebi are prepared and distributed among family and friends.

Significance and Mythology

1. Birth of Lord Krishna: According to Hindu mythology, Lord Krishna was born to Devaki and Vasudeva in Mathura, India, around 3,200 BCE.
2. Divine Incarnation: Lord Krishna is considered the eighth avatar of Lord Vishnu, one of the principal deities in Hinduism.
3. Spiritual Significance: Janmashtami is celebrated to commemorate the divine incarnation of Lord Krishna, who is revered for his wisdom, courage, and spiritual guidance.

Regional Variations

1. Mathura and Vrindavan: These cities in Uttar Pradesh, India, are considered sacred sites for Lord Krishna's birth and childhood.
2. Gujarat and Maharashtra: These states in western India have unique traditions and customs for celebrating Janmashtami, such as the Dahi Handi ritual.
3. Southern India: In states like Tamil Nadu and Karnataka, Janmashtami is celebrated with traditional dances, music, and puja ceremonies.

Cultural Impact

1. **Music and Dance:** Janmashtami is celebrated with traditional music and dance forms, such as the Ras Leela in Mathura and Vrindavan.
2. **Theater and Drama:** The life and teachings of Lord Krishna are depicted in traditional theater and drama performances, such as the Ramlila.
3. **Food and Cuisine:** Traditional sweets and dishes, like pedha, laddu, and jalebi, are prepared and shared among family and friends during Janmashtami celebrations.

Vinayaka Chaturthi Celebrations

TRADITIONAL DAY

Vinayaka Chaturthi, also known as Ganesh Chaturthi, is a significant Hindu festival that honors the birth of Lord Ganesha, the remover of obstacles and the god of wisdom. Here are the importance and celebrations of Vinayaka Chaturthi:

1. Birth of Lord Ganesha: Vinayaka Chaturthi commemorates the birth of Lord Ganesha, who is considered the god of wisdom, prosperity, and good fortune.
2. Remover of Obstacles: Lord Ganesha is revered as the remover of obstacles, and devotees seek his blessings to overcome challenges and difficulties.
3. Symbol of Wisdom: Ganesha is considered a symbol of wisdom, knowledge, and intellect, and is often invoked at the beginning of new ventures and endeavors.

Celebrations

1. Idol Installation: Clay idols of Lord Ganesha are installed in homes and public pandals, and are worshiped with great devotion.
2. Puja and Worship: Devotees perform puja (worship) ceremonies, offering flowers, fruits, and sweets to Lord Ganesha.
3. Modak Offering: Modaks, sweet dumplings filled with coconut and jaggery, are offered to Lord Ganesha, as they are his favorite food.
4. Processions and Immersion: After 10-11 days of worship, the idols are taken out in grand processions and immersed in water bodies, symbolizing the cycle of life and death.

Traditional Practices

1. Fasting and Vrat: Devotees observe a day-long fast or vrat, abstaining from food and drink.
2. Ganesha Mantra: Devotees chant the Ganesha mantra, "Om Ganeshaya Namaha," to invoke Lord Ganesha's blessings.
3. Decorations and Lighting: Homes and public spaces are decorated with colorful lights, flowers, and rangoli designs.

Teacher's Day

ఘనంగా ఉపాధ్యాయ దినోత్సవం

TEACHER'S DAY

Teachers' Day is a significant event that recognizes the hard work, dedication, and contributions of teachers to education and society. Here are some reasons why Teachers' Day is important:

Honoring Teachers' Contributions

1. Recognizing dedication: Teachers' Day acknowledges the tireless efforts and dedication of teachers in shaping young minds and futures.
2. Appreciating hard work: The day recognizes the hard work and perseverance of teachers in imparting knowledge, skills, and values to students.

Inspiring Teachers and Students

1. Motivating teachers: Teachers' Day motivates teachers to continue their good work and strive for excellence in education.
2. Encouraging students: The day encourages students to appreciate and respect their teachers, fostering a positive and supportive learning environment.

Promoting Education and Learning

1. Emphasizing education: Teachers' Day highlights the importance of education and learning in society, encouraging individuals to value knowledge and skills.
2. Fostering innovation: The day promotes innovation and creativity in education, inspiring teachers and students to explore new ideas and approaches.

Building Teacher-Student Relationships

1. Strengthening bonds: Teachers' Day helps strengthen the bonds between teachers and students, promoting mutual respect, trust, and understanding.
2. Encouraging mentorship: The day encourages teachers to mentor and guide students, providing them with valuable advice, support, and guidance.

15 SEPTEMBER 2023

ENGINEERS DAY 2023

CELEBRATINg THE INNoVATToRS oF ToMoRRoW

ENGINEER'S DAY

Honoring Engineering Excellence

Every year on September 15th, we celebrate Engineer's Day in India to honor the birth anniversary of Sir Mokshagundam Visvesvaraya, one of the most eminent engineers of our country. This day is a tribute to the engineering community, whose innovations and inventions have made a profound impact on society.

Sir M. Visvesvaraya: A Legacy of Innovation

Sir M.Visvesvaraya, born in 1860, was a pioneer in the field of engineering and an architect of modern India. His contributions to water resource management, infrastructure development, and public welfare have left an indelible mark on the nation's progress. He was instrumental in the construction of several dams, including the Krishna Raja Sagara dam in Mysore, which remains a marvel of engineering even today.

Fresher's Day Celebrations

Pre-Event Preparations:

1. Formation of Organizing Committee: A team of students and faculty members will be formed to plan and execute the event.
2. Theme Selection: The committee will decide on a theme for the event, such as "A New Beginning" or "Rise to Shine".
3. Invitations: Design and distribute invitations to all freshers, faculty members, and staff.
4. Venue Decoration: Decorate the venue with balloons, streamers, and banners to create a festive atmosphere.

Cultural Events (12:00 pm - 2:00 pm)

1. Cultural Performances: Music, dance, and drama performances by students and faculty members.
2. Fashion Show: Freshers showcase their talent and creativity through a fashion show.

Games and Activities (2:00 pm - 4:00 pm)

1. Team-Building Games: Freshers participate in team-building games, promoting bonding and collaboration.
2. Quiz Competition: Freshers compete in a quiz competition, testing their knowledge and skills.

Evening Session (4:00 pm - 6:00 pm)

1. Senior-Junior Interaction: Seniors share their experiences, tips, and advice with freshers.
2. Prize Distribution: Prizes are awarded to winners of various competitions and events.

Sankaranti Sambaraalu

“ECE Shines: Sports Achievements and Prizes Galore"

The ECE department has always been known for its academic excellence, but our students have also been making waves in the sports arena. In this article, we'll highlight our department's achievements in Kabaddi, Volleyball, Hockey, and the prizes we've won. The ECE department's sports achievements are a testament to our students' hard work, dedication, and passion for sports. We're proud of our students who have won prizes and recognition for their achievements, and we look forward to seeing more successes in the future.

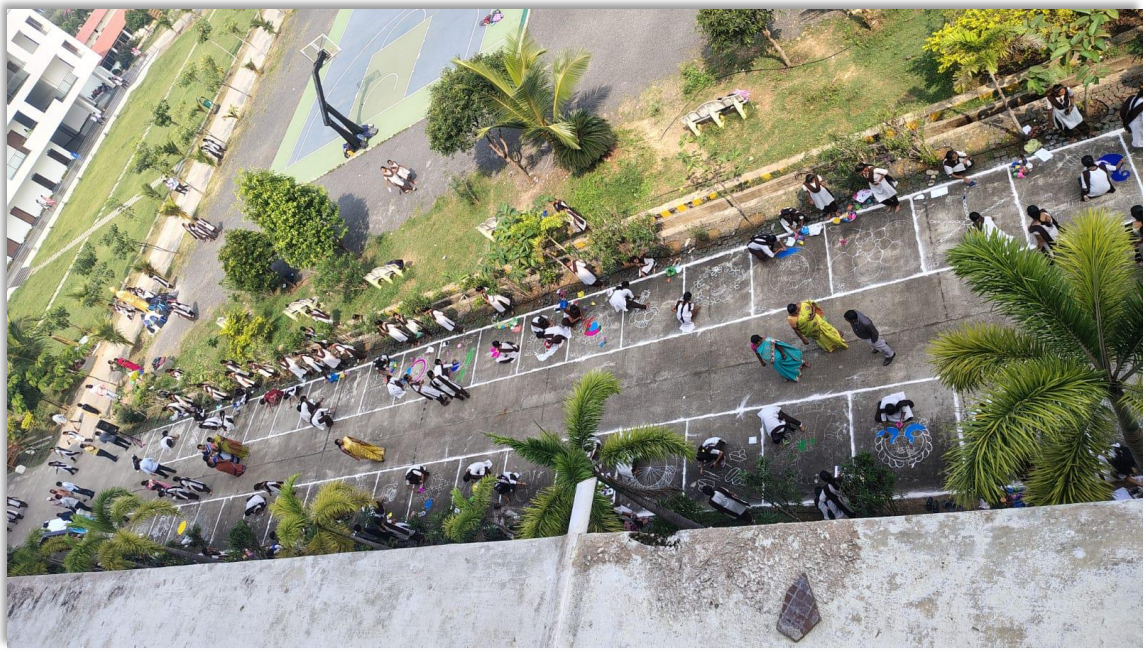
Upcoming Events

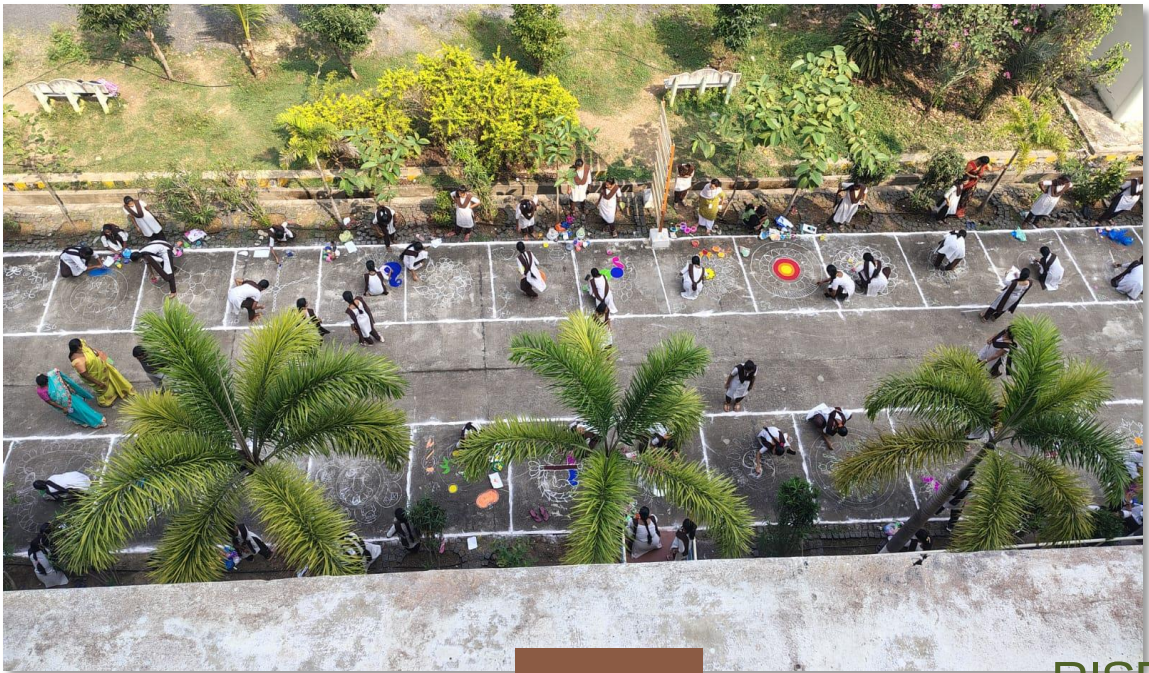
Stay tuned for upcoming sports events, including the Inter-College Sports Meet and the University Hockey Tournament!

Join the Conversation

Share your sports experiences and achievements with us on social media using #ECEsports!

Rangoli Competitions





REPUBLIC DAY CELEBRATION

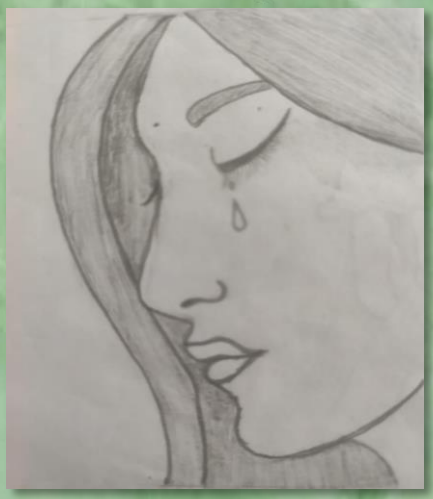
26 JANUARY 2024

"A historic day to remember our national heroes and freedom fighters, who fought to give us a Republic nation".

The college celebrated the country's 78th Republic Day on 26th January 2024. The celebration began with our Principal, hoisting the Tricolor flag, accompanied by the college staff and the Gymkhana Secretaries, This was followed by the singing of the National Anthem, instilling a sense of patriotism and unity among all present.

Sweets were distributed to all those present, and the program came to a close, leaving everyone with a sense of pride and unity. The 78th Republic Day Celebration at our college were a tribute to our nation's legacy and an inspiration for us all to contribute towards a progressive India.

ART Section



ART

Section

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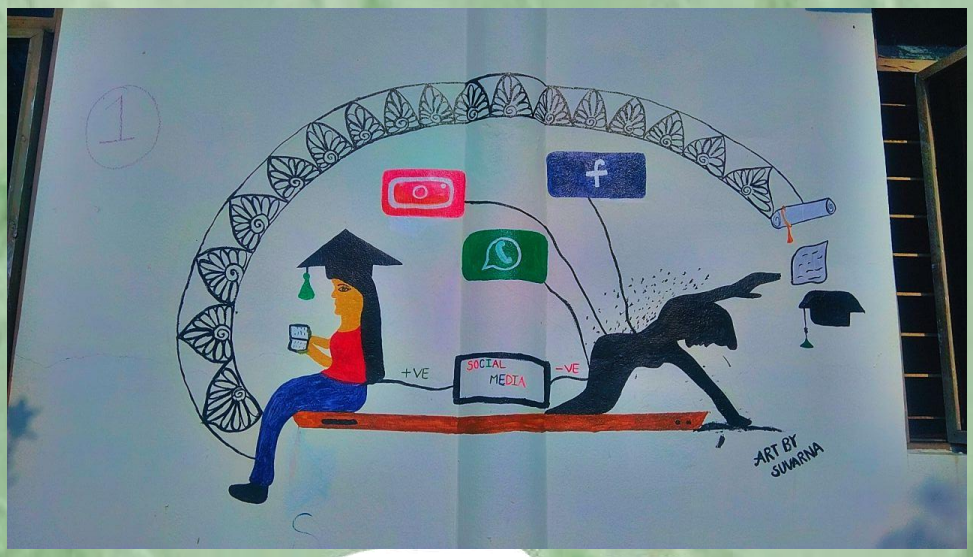

PHOTOGRAPHY

Photgraphy By:
G V S Mohan Reddy
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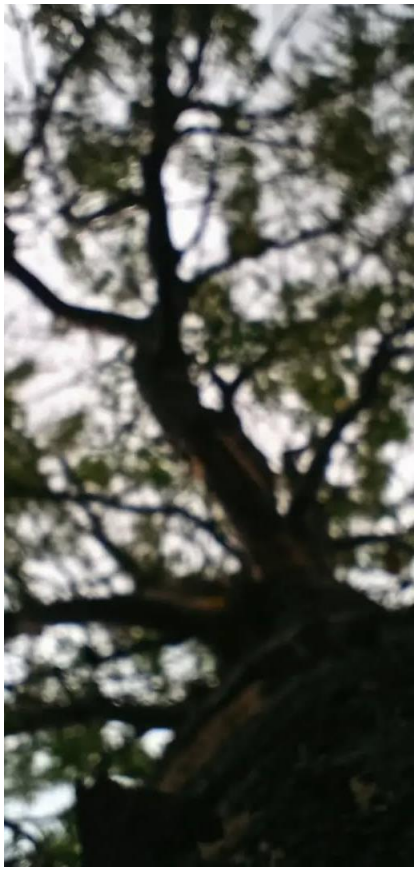
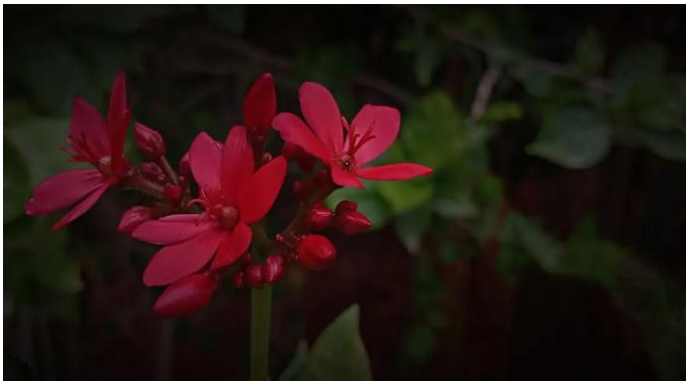
ECE-II 3rd Year

PHOTOGRAPHY





Photography By:
Pavan Adithya M
218A1A04A8
ECE-II 3rd Year

No Way, Father

Baba, we had to live for you, why didn't we know the pain behind your smiling face? Your dream was destroyed when it was supposed to be, the pearl called father was lost in the sound of picking stones

With the passage of time, you changed, your dream remained that dream. We saw the dream in a different way. We didn't understand your situation

Baba, you had to embrace the pain, we didn't know the name of the father, we alienated you from the full family, you fought alone like Karna your whole life

We traveled the whole world for love, we didn't get selfless love like the father, we saw you as a wish fulfillment, Baba, we had to live for you...

A.SAHAJA
218A1A0466
ECE-II 3rd Year

BOOKS

THIS GIFT, WHICH IS FILLED WITH THE ORNAMENTS OF KNOWLEDGE, THIS PRICELESS GIFT, IS THE GIFT OF GOD, OUR SOULMATE AND ARTIST

THE DNYANESHWARI OF SAINT DNYANESHWAR AND THE SAGA OF TUKARAM, THE SAME GIVER WHO REVIVES ANCIENT THINGS

THE PROWESS OF SHIVARAYA AND THE BRAVERY OF LAKSHMIBAI ARE PRESERVED IN HISTORY, THE CORE OF EVERYTHING,

ONLY BECAUSE OF THESE GIVERS, INDIAN CULTURE SURVIVED, AND THE TEACHINGS OF THE SAINTS REACHED EVERYONE'S HOMES.

SO, WE CONSIDER BOOKS AS OUR FRIENDS AND GURUS, TELL ME, FRIENDS, HOW CAN WE FORGET THIS GIFT OF THE GURU.....

K.SHIVA PAVANI
218A1A0424
ECE-I 3rd Year

The Moon: A Celestial Gift

The moon, a glowing orb of gentle light,
A beacon in the darkness of night,
A constant companion, a guiding force,
A symbol of hope, a celestial course.

The moon's soft rays, a soothing balm,
Illuminate the path, dispel alarm,
A reassuring presence, a steady friend,
A source of comfort, till the very end.

The moon's phases, a reminder of life's tide,
Ebbing and flowing, in constant stride,
From new to full, a journey of growth,
A symbol of transformation, in every birth.

The moon's beauty, a gift to behold,
A treasure to cherish, a story to unfold,
A source of inspiration, for dreamers and poets,
A celestial muse, that forever promotes.

So let us cherish, this gift from above,
The moon, a symbol, of celestial love,
A reminder of wonder, a source of delight,
A guiding force, that shines through the night.

B.PRAVEEN KUMAAR
218A1A0499
ECE-II 3rd Year

Limitless Expression...

Nothing have to hide, By
the lot of sense,
Fault to be a open wide, Don't
have any to loose hence.
Cause some's got that,
Limiting to be sure, Sight is
the only fact, Savage as a
pure.
Playing of the mood, Freer
more than anyone, Thoughts of
bad or good, Isn't it for that
someone?
Simpling the way of it,
Ridiculous that it seems,
Individuals of every greed,
Damn as like as films.
Through the way called path,
What every geezer says by,
"Brat, don't be like that"
Yelling on all he lie.
Beyond the tolerating, Limiting
vibe of mouth, Things need to
be gettin', Just letting it pass!

SK.RIYAZ
218A1A04B8
ECE-II 3rd Year

Afterlife.....

Maybe in the afterlife
We will begin again
With the same nights Same lights
Same bikes
But this time by your side.....

Maybe we won't feud again I will
not clutter again
But only if you not walk away My
dear this time
It will not happen again

For the dainty stars and the moon We
always talked about
Will you ever come to say if I
leave.
Just to remind me that I endeavour

Only in my muse we'll
abide eternal
But If you ever feel so Maybe
in afterlife.....

PAVAN ADITHYA MANDA
218A1A04A8
ECE-II 3rd Year

Freedom

When will this thirst for freedom slake? When will our love of slavery die? When will our Mother's fetters break? When will our tribulations cease?

Wasn't there another Bharat Reared by our noble Aryan race? Lead us, Aryan, to victory! Is't right we remain slaves?

Are famine and disease alone our share? For whom, then, are the laurels and fruits? Will you abandon us, your suppliants? Can the mother cast her child aside?

Brave warrior! Aryan Lord! Thou destroyer of the demon-race, Where is your dharma? Isn't yours the duty To revive us, and chase Fear away?

S. YASASWINI
218A1A0487
ECE-II 3rd Year

Destination

You have slept for too long, O Aataal. Now the time has come to wake up.

What are you, the time has come to show it to the world.

Whatever I have learnt in life, the time has come to try it all.

I have gained a lot of knowledge, now the time has come to give a test.

I have made many mistakes, now the time has come to forget those mistakes.

You had seen some incomplete dreams, the time has come to fulfill those dreams.

There is another traveller, too, the time has come to start the journey of success.

The time has come to reward the hard work and blessings of your parents.

Once upon a time, success was your fate.

The time has come to repeat the story of Majhi.

What are you, the time has come to show it to the world.

G V S MOHAN REDDY
218A1A0487
ECE-II 3rd Year

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