



**RISE KRISHNA SAI PRAKASAM
GROUP OF INSTITUTIONS :: ONGOLE**

(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUK KAKINADA)
Accredited by "NBA" for B.Tech in ,Civil, EEE, Mechanical and ECE



ELECOMM

2K22

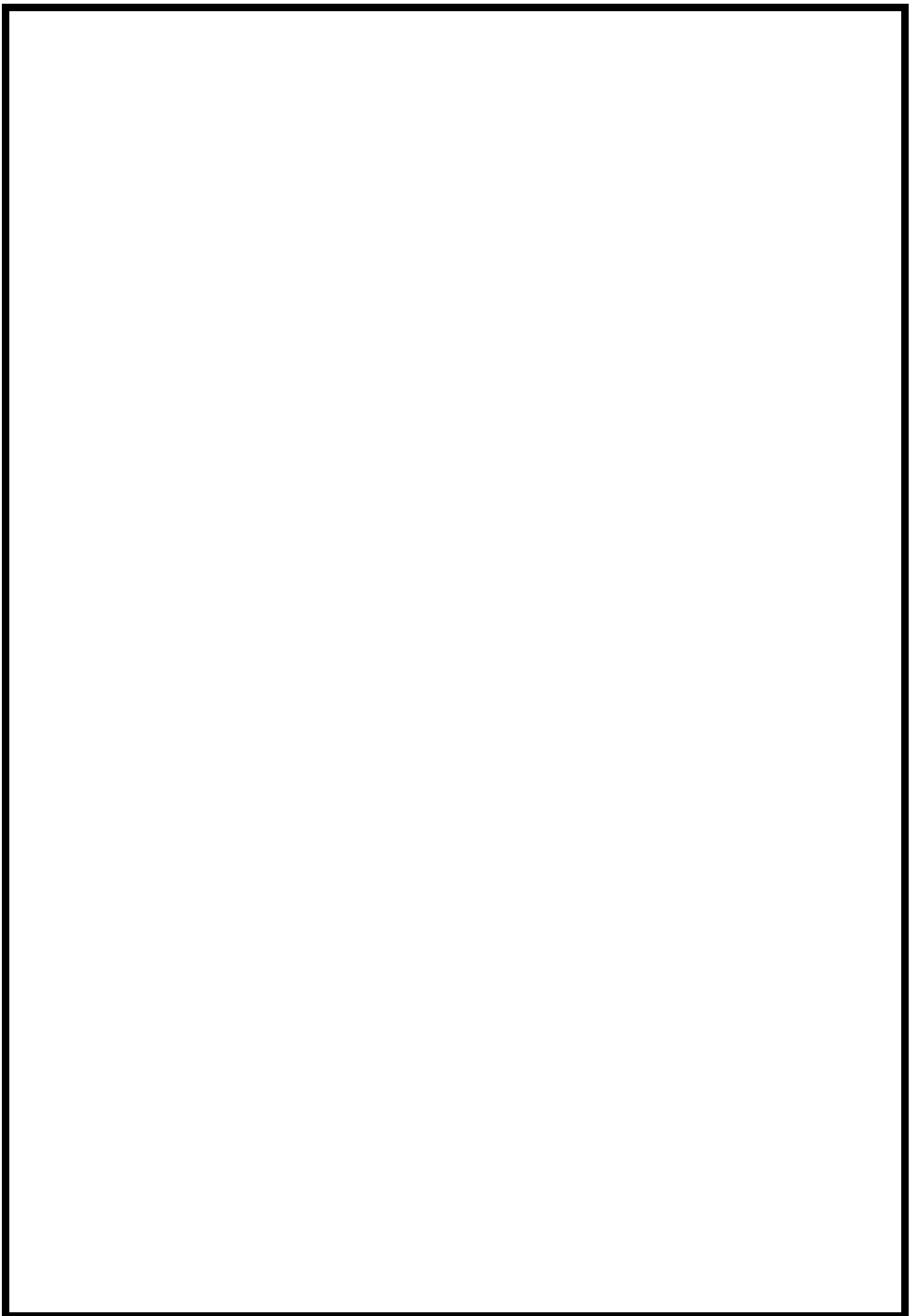
DEPARTMENT OF

ELECTRONICS AND

COMMUNICATION ENGINEERING

A.Y: 2021-22





Spectrum Technical magazine Editorial Members

CHIEF PATRONS

Sri.Sidda Venkateswara Rao
Chairman, RISE Krishna Sai Group of Institutions

Sri.I.C. Rangamannar
Hon'ble Chairman, RISE Krishna Sai Group of Institutions

PATRONS

Sri.Sidda Hanumantha Rao
Hon'ble Secretary & Correspondent

Sri. Sidda Bharath
Hon'ble Treasurer

PRINCIPAL

Dr. A.V. Bhaskara Rao
Principal

HOD-ECE

Dr. Ch. Venugopal Reddy
Prof. & HOD-ECE

Staff Coordinators

Mr. K. Suresh Babu
Associate Professor, ECE

Mr. Ch.Arun Prakash
Assistant Professor, ECE

Student Members

Mr. PALLEPOGU DIVYA, IV ECE
Mr. GUNTURI SYAM PRASAD, IV ECE
Mr. UMMADI SRINADH, III ECE

Ms. GOSU SWAPNA, IV ECE
Ms. GADDAM YAMINI, III ECE
Ms. PATCHAVA BALAJI, III ECE

Contents:

About the department

Vision, Mission, PEOs, PSOs & POs

Messages

Chairman Message

Secretary & Correspondent Message

Treasurer Message

Principal Message

H.O.D Message

Facilities & Infrastructure

List of all Laboratories

Department Library

Computing & Internet Facility

Student Activities

Articles

Stories

Paintings

Department

Activities Faculty

Achievements Gallery

Inspirational Quotes

ABOUT THE DEPARTMENT:

The department of Electronics & Communication Engineering came into existence since the inception of the college. We proceed with an aim to produce highly qualified and qualitative individuals in the society with both theoretical and practical knowledge. We impart the needed technical knowledge in students and they are encouraged to get hands-on experience by organizing seminars, workshops and symposiums on the campus to enhance their skills and make them industry -worthy

VISION:

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

MISSION:

- 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 SPECIFIC OBJECTIVES (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).

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, and give 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.



“India needs disciplined youths. Today’s students cultivate youthful idealism in them to discharge their tomorrow’s responsibilities. Art and science should be synchronized in their performance”

- Sri. Sidda Venkateswara Rao, Chairman

Indian Professionals have to demonstrate their scholarship to prove their unique talents. They have to represent our nation’s worth too. Sharpening their academic, personal, career and leadership skills must be their first task in the process of their career journey. I, as the Hon’ble Chairman of the RISE Krishna Sai Prakasam Group of Institutions, am committed to provide our students with the best possible facilities.



- Sri. I.C. Rangamannar, Hon’ble Chairman



Organization can stand in the forefront of success only when the invite employees possessing impressive human values. Success on the part of an individual employee does not simply mean the currency one receives. It also means the employees determined dedication to stand by the vision of the organization. Value-based career life is the ultimate achievement one ought to aspire for. I put all my efforts to prove that the RISE students do inculcate among themselves the right human values besides professional talents.

- Sri. Sidda Hanumantha Rao, Hon’ble Secretary & Correspondent

“We are nurturing the best possible qualities among our students right from the first day of their entry into our campus. We are striving to become a solution spot for all parents and students to see their success in reality. We want to be in happy association with our students and their parents since one of our cardinal aims is to be a part of their excellence.”



- Sri. Sidda Bharath, Hon’ble Treasurer



“Successful professional education should pave the way for successful career. We, therefore, focus more on sharpening our student’s wholesome progress in our campus. We train our students to be self-reliant with respect to enrichment of their profile. We are confident that our students are sure to prove their skills and adopt themselves to all global standards and expectations. We are committed to facilitate ultimate satisfaction to our students, parents and professionals.”

- Prof. Dr. A.V. Bhaskara Rao, Principal

THE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (ECE) has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated and learned faculty. The available diversity of expertise of the faculty with the support of the other staff prepares the students to work in global multicultural environment. The graduates of the Electronics & Communication Stream have been selected by some of the world's leading corporations & as well as by most of the leading Indian counter parts.



We hope that we will continue to deliver our best to serve the society and mankind. It is also expected and that our students will continue to pass-on the skills, which they have developed during their stay at this department to whole of the world for a better society. We will be happy to receive your suggestions for further improvement and development of our department.

- Dr. Ch. Venu Gopal Reddy, HOD-ECE

FROM THE EDITOR'S DESK

Dear Students,

We hearty welcome you to the newly launched ECE Department's Magazine for the academic year 2019-2020.

The objective of the magazine is to mainly focus on Achievement of the students from the ECE department in the Co-curricular and Extra-Curricular Activities.

I congratulate all my team members for their constant effort in launching this Magazine. We are also thankful to our Management and Principal for their support and encouragement. Finally, we are gratified to our reviewers for their frank opinions and constructive suggestions, namely our colleagues and students.

FACILITIES & INFRASTRUCTURE:

1. LABORATORIES

The department of ECE has well equipped and high quality laboratories listed below.

- *Electronic Devices and Circuits Lab*
- *Electronic Circuit Analysis Lab*



Electronic Devices and Circuits Lab

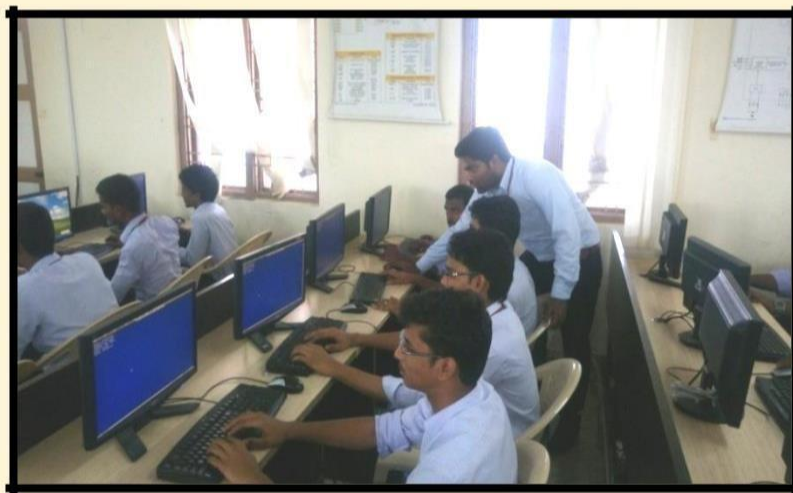
- *Pulse & Digital Circuits Lab*
- *Analog communications Lab*
- *Linear Integrated Circuit Analysis Lab*
- *Digital Communications Lab*
- *MW&OC Lab*
- *VLSI Lab*
- *DSP Lab*
- *Microprocessor & Microcontrollers Lab*
- *DSD & DICA Lab*
- *Projects Lab*
- *Research Lab*



Electronic Circuit Analysis Lab



Pulse and Digital Circuits Lab



MP&MC Lab

2. DEPARTMENT LIBRARY

The Department Library occupies a unique place in academic and research activities of the Department. The Library maintains an excellent collection of data books, occasional papers and other documents/materials. The Library has a well-equipped facility for reading. The students and staff can access the library during the college hours.



**“Libraries are reservoirs of strength,
Grace and wit, reminders of order,
Calm and continuity,
Lakes of mental energy,
Neither warm nor cold,
Light nor dark.
The pleasure they give is steady,
Unorgiastic, reliable,
Deep and longlasting.
Germaine Greer”**

3.COMPUTING & INTERNET FACILITY

The RISE campuses are connected with Intranet facility with which students make use of all the books and materials and other references through Computer Assisted learning around the clock. Intranet facility can be put to constructive purposes by allowing all the students and faculty to share information with one another and exchange new ideas to improve teaching and learning methods, increase productivity, and promote greater friendliness and better coordination.



Internet Lab

4. STUDENT ACTIVITIES

4.1 ARTICLES



Name: Sk Momena
RollNo: 188A1A0428
Class: IV ECE

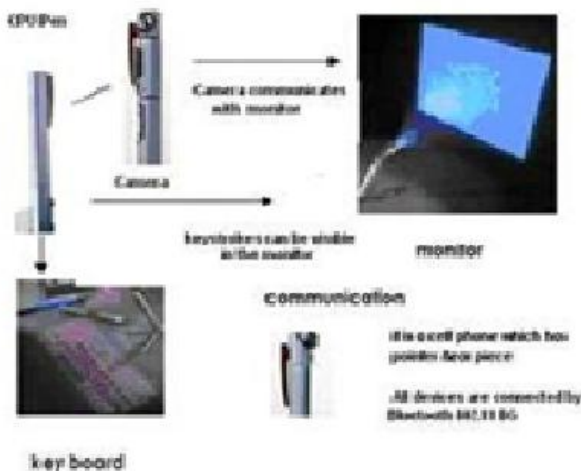
5-PEN PC TECHNOLOGY

P-ISM (“Pen-style Personal Networking Gadget Package”), which is nothing but the new discovery, which is under developing, stage by NEC Corporation. P-ISM is a gadget package including five functions: a pen-style cellular phone with a handwriting data input function ,virtual keyboard, a very small projector, camera scanner, and personal ID key with cashless pass function. P-ISMs are connected with one another through short-range wireless technology. The whole set is also connected to the Internet through the cellular phone function.



This personal gadget in a Five pen pc shortly called as P-ISM (“Pen-style Personal Networking Gadget Package”), is nothing but the new discovery, which is under developing stage by NEC Corporation .P-ISM is a gadget package including five functions: a CPU pen, communication pen with a cellular phone

function, virtual keyboard, a very small projector, and a camera. P-ISM’s are connected with one another through short-range wireless technology. The whole set is also connected to the Internet through the cellular phone function. This personal gadget in a minimalist pen style enables the ultimate ubiquitous computing. minimalist pen style enables the ultimate ubiquitous computing.



198A1A0417

KESAMREDDY MADHURI

III ECE

IP SPOOFING

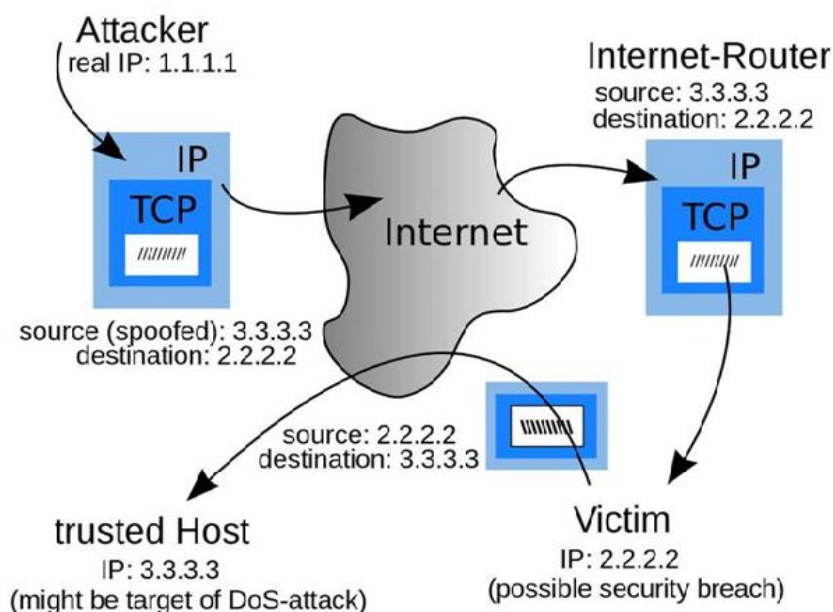


It is a technique used to gain unauthorized access to computers, whereby the intruder sends messages to a computer with an IP address indicating that the message is coming from a trusted host. To engage in IP spoofing, a hacker must first use a variety of techniques to find an IP address of a trusted host and then modify the packet headers so that it appears that the packets are coming from that host.

The basic protocol for sending data over the Internet network and many other computer networks is the Internet Protocol ("IP"). The header of each IP packet contains, among other things, the numerical source and destination address of the packet. The source address is normally the address that the packet was sent from. By forging the header so it contains a different address, an attacker can make it appear that the packet was sent by a different machine. The machine that receives spoofed packets will send response back to the forged source address, which means that this technique is mainly used when the attacker does not care about the response or the attacker has some way of guessing the response.

Criminals have long employed the tactic of masking their true identity, from disguises to aliases to caller-id blocking. It should come as no surprise then, that criminals who conduct their nefarious activities on networks and computers should employ such techniques.

IP spoofing is one of the most common forms of on-line camouflage. In IP spoofing, an attacker gains unauthorized access to a computer or a network by making it appear that a malicious message has come from a trusted machine by spoofing the IP address of that machine.



Name: R.Devayani
Roll No: 188A1A0425
Class: IV ECE

3-D PASSWORD



Therefore, we present our idea, the 3D passwords which are more customizable and very interesting way of authentication. Now the passwords are based on the fact of Human memory. Generally simple passwords are set so as to quickly recall them. The human memory, in our scheme has to undergo the facts of Recognition, Recalling, Biometrics or Token based authentication. Once implemented and you log in to a secure site, the 3D password GUI opens up. This is an additional textual password which the user can simply put. Once he goes through the first authentication, a 3D virtual room will open on the screen.

In our case, let's say a virtual garage. The 3D password is a multi-factor authentication scheme. The 3D password presents a 3D virtual environment containing various virtual objects. The user navigates through this environment and interacts with the objects. The 3D password is simply the combination and the sequence of user interactions that occur in the 3D virtual environment.

198A1A04C4
VANGAPALLI ARAVIND
III ECE



Recent Technologies

**21st century has seen a huge boom
In Technological development.**

-M.SriBalajiECEIIyear(2016-20)

5G TECHNOLOGY:

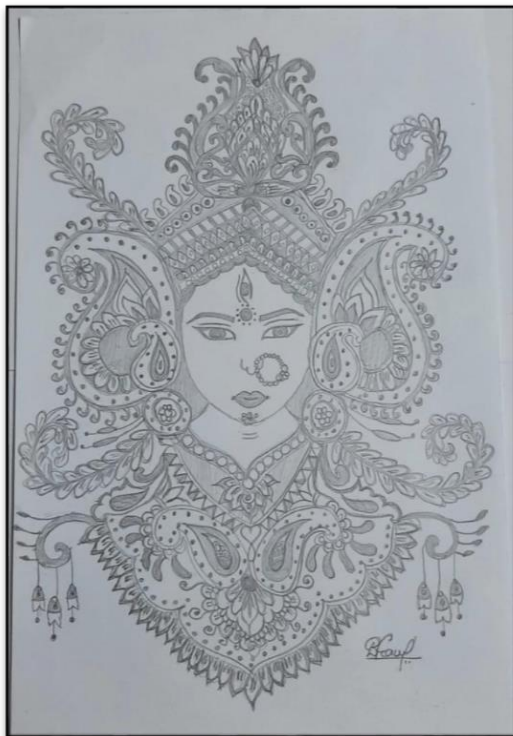
4G - the mobile network that's used around the world to make calls, send messages and surf the web. Now there are plans for 4G to be replaced by 5G. 5G- a new, faster network that has the potential to transform the internet. 5G is a software defined network - it means that, while it won't replace cables entirely, it could replace the need for them by largely operating on the cloud instead. This means it will have a 100xbetter capacity than 4G which will dramatically improve internet speed. For example, to down load a two-hour film on 3G would take about 26 hours, on 4G you'd be waiting 6 minutes and on 5G you'll be ready to watch your film in just over three and a half seconds. But it's not just inter- net capacity that will be upgraded. Response times will also be much faster.



Name :A.Uma Mahesh
Roll No:198A5A0406
Class:IV ECE II



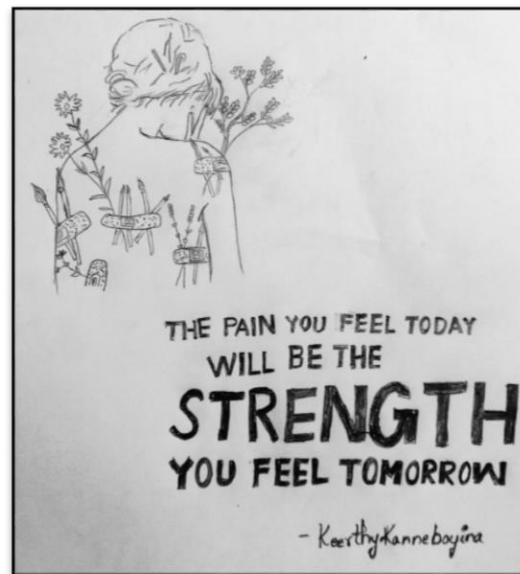
Name: Ch.Sneha
Roll No: 188A1A0406
Class: II ECE I



Name: Gorrepati Bhavani
Roll No: 188A1A0472
Class: II ECE II



Name: P.Nandu
Roll No: 188A1A0422
Class: II ECE I



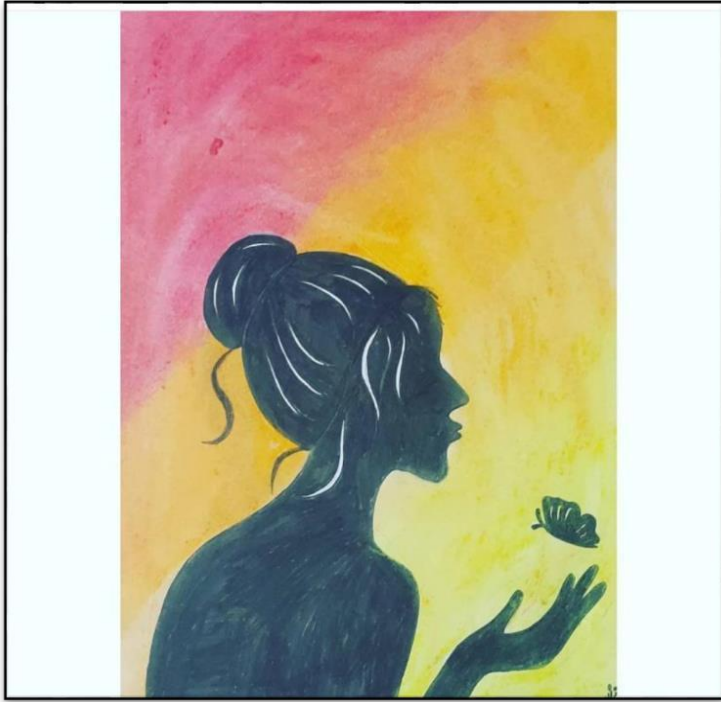
Name: K.Keerthy
Roll No: 188A1A0475
Class: II ECE II



Name: A.Sravya
Roll No: 188A1A0402
Class: II ECE I



Name: Ch.Sai Krishna
Roll No: 188A1A0436
Class: II ECE I



Name: B.Sai Supriya
Roll No: 188A1A0465
Class: II ECE II



Name: M.V.Susmitha
Roll No: 188A1A0496
Class: II ECE II



Name: Ch. Rekha Ramani
Roll No: 188A1A0469
Class: II ECE II



Name: G. Gowtham
Roll No: 188A1A0439
Class: II ECE I

RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE



Name: R.Thanusha
Roll No: 188A1A0488
Class: II ECE II



Name: Ch.Bhuvana Chandra
Roll No: 188A1A0437
Class: II ECE I

STUDENT ACHIEVEMENT:

Y.Syamala, student of II ECE has represented the JNTU Kakinada ATHLETICS team in All India Inter University Athletics(Men & Women) Tournament held at Rajiv Gandhi University of Health Sciences, Karnataka.

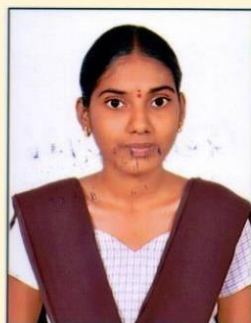


Name: Y.Syamala
Roll No: 188A1A0433
Class: II ECE I

ACADEMIC TOPPERS

ELECTRONICS & COMMUNICATION ENGINEERING

2016-2020 BATCH



KONIJETI SUPRIYA PACCHIPULUSU VENGA VYSHNAVI
168A1A0478
84.14%



168A1A0489
81.65%



RAVVA TEJASWINI
168A1A0493
81.19%

| S.NO | ROLL NUMBER | NAME OF THE STUDENT | % OF THE MARKS |
|------|-------------|-----------------------------|----------------|
| 1 | 168A1A0478 | KONIJETI SUPRIYA | 84.14 |
| 2 | 168A1A0489 | PACCHIPULUSU VENGA VYSHNAVI | 81.65 |
| 3 | 168A1A0493 | RAVVA TEJASWINI | 81.19 |

1. DEPARTMENT ACTIVITIES

- ❖ A National Level Technical Symposium RISE Fusion- 2K20 had held on 16th Feb2020,Organized by Department of ECE



Inauguration of Technical symposium



Fusion-2K20 held on 16th Feb 2022

ARTICLES

"Mobile the Necessary Evil"

Mobile phones have become necessity of life nowadays, but somewhere we are not using it correctly. Mobiles are technically advanced & have too many options like Hi-tech games, radio, and internet, downloading, etc. Everyone from youngsters to old aged uses mobile phones for different purposes. But teenagers use it for texting, music, games & net surfing.

We have started to rely upon the cell phones now. With a touch alarm blows & we wake up, easy conversation is possible, reminders & notes to make you alert, social chats to remove the distance, in fact GPS for navigation. But it's a distraction which can bring harm to us, life & property. Mobiles can damage the brain as well.

You are no more secure, as your social life will be completely destroyed. No personal distances, no privacy at all, as anyone can dig into your life through social sites. It can also leads to wrong practices also like hacking the data, damage, unwanted blank/fake calls etc.

Parents are really annoyed because of the cell phones addiction of the teen agers as they keep their phones with them everywhere like using it while dinning, studying, shopping, at schools/colleges. It has supported the wrong habits in them. Sometimes students tend to cheat in examination by taking their cell phones with them in examination centre.

The major issue attached with the cell phones is health problems. Excessive use of mobiles leads to problems like Migraines, weak eyesight, can bring damage to your brain as well. On petrol pumps mobiles are asked to be turned off, but these teen agers generally ignore it, which leads to big explosion also. Isn't this a risk to life & property?

Look at the major negatives attached to the mobile phones.

- ✓ No privacy
- ✓ Threat to life & property
- ✓ Health hazardous
- ✓ Disturbance to life
- ✓ Invitation to bad practices, etc

Still it's a great invention which needs to be used in right ways. Mobile phones are useful in a lot of situations but make sure it should not become the controller of your life.

RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE ARTICLES

"Mobile the Necessary Evil"

Mobile phones have become necessity of life nowadays, but somewhere we are not using it correctly. Mobiles are technically advanced & have too many options like Hi-tech games, radio, and internet, downloading, etc. Everyone from youngsters to old aged uses mobile phones for different purposes. But teenagers use it for texting, music, games & net surfing.

We have started to rely upon the cell phones now. With a touch alarm blows & we wake up, easy conversation is possible, reminders & notes to make you alert, social chats to remove the distance, in fact GPS for navigation. But it's a distraction which can bring harm to us, life & property. Mobiles can damage the brain as well.

You are no more secure, as your social life will be completely destroyed. No personal distances, no privacy at all, as anyone can dig into your life through social sites. It can also leads to wrong practices also like hacking the data, damage, unwanted blank/fake calls etc.

Parents are really annoyed because of the cell phones addiction of the teen agers as they keep their phones with them everywhere like using it while dinning, studying, shopping, at schools/colleges. It has supported the wrong habits in them. Sometimes students tend to cheat in examination by taking their cell phones with them in examination centre.

The major issue attached with the cell phones is health problems. Excessive use of mobiles leads to problems like Migraines, weak eyesight, can bring damage to your brain as well. On petrol pumps mobiles are asked to be turned off, but these teen agers generally ignore it, which leads to big explosion also. Isn't this a risk to life & property?

Look at the major negatives attached to the mobile phones.

- ✓ No privacy
- ✓ Threat to life & property
- ✓ Health hazardous
- ✓ Disturbance to life
- ✓ Invitation to bad practices, etc

Still it's a great invention which needs to be used in right ways. Mobile phones are useful in a lot of situations but make sure it should not become the controller of your life.

Status of Women in Indian Society

This is a famous quote by Jawaharlal Nehru on women. The status of women depicts the social, economic and mental condition in a nation. Women have been regarded as a symbol of spirituality in our scriptures. Yet, they have been treated badly and unequally to men. Social evils such as dowry, sati-system, child marriage, and female infanticide were widely prevalent in the early ages. The spread of education and self-consciousness among women has led to their progress over the period. Women of today are empowered. Also, women are gaining advancements and success in each and every field.

Women today are eager to take up professions and work. Thus, they enjoy equal respect and dignity in the family. Women in free India also enjoy equal pay for equal work in comparison to men. Also, there are provisions of maternity leave for them. Furthermore, females are provided equality of opportunity under Article 16 of the Constitution of India.

The girls in urban areas are almost at par in education with the boys. But there is a less educated female population in rural areas. This has also affected the social and economic development of rural India. The poor (hygienic facilities) facilities at school and lack of female staff have affected education. Kerala and Mizoram have a universal literacy rate.

The maximum figure of female politicians in the world is from India. Women have occupied significant positions i.e. of President, Prime Minister, Speaker of the Lok Sabha and other high offices. “Indira Gandhi”, is the first female who held the office of the Prime Minister for 15 years.

The violence against women in India includes kitchen fires for want of dowry, sexual assaults, cases of rape, prostitution, throwing of acid. Also, evils of child marriages are also widespread even today. Female infanticide, indecent behavior, and honor killings add to the misery of the women. Also, sex-selective abortion is a deep-rooted evil leading to inequality in sex ratio.

There has been a steady transformation in the status of the women in comparison to earlier periods. Women of today take part completely in areas such as politics, status, military sectors, economic, service, and technology sectors. Moreover, they have contributed wholly in sports too. Thus, they have occupied a dignified position in family and society.



Name: P.V. Ramya Kumari
Roll No: 188A1A0420
Class: IV ECE I



Name: Sk. Karishma
Roll No: 188A1A0427
Class: IV ECE I

- ❖ *An Industrial Visit for (III B.Tech II Sem) Students on 8th Feb2022 at National Atmospheric Research Laboratory (NARL) Department of Space, Govt. of India, Gadanki Village located at Chittor District, A.P., India.*



- ❖ *An Industrial Visit for (II B.Tech II Sem) Students on 28th Jan 2022 at BSNL Telecom Services located at Ongole, Prakasam District, A.P., India.*



Students Inculcating New ideas During Industrial visit

Industrial expert explaining communication process in BSNL

- ❖ *A 3–Day Workshop on “Internet Of Things” from 23rd Jan 2022 to 25th Jan 2022 by Mr.P.Thirumala Rao IOT & Network Security Analyst, ESF Labs Pvt. Ltd, Vijaywada*



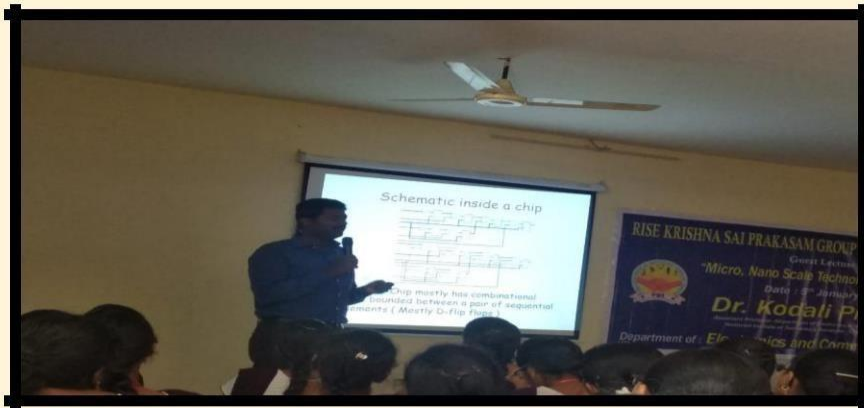
Resource person interacting with students during workshop



Mr. P.Thirumala Rao explaining Hacking attacks in Internet centers



A Guest Lecture on “Micro, Nano scale Technology and Beyond” for (II, III & IV B.Tech II Sem) Students on 5th Feb 2022 by Dr. Kodali Prakash, Assistant Professor, NIIT Warangal



Resource person explaining current processing of IC Industries



An Industrial Visit for (II B.Tech II Sem) Students on 29th Dec 2021 at AMARARAJA Power Systems Limited, Karakambadi located at Tirupathi, A.P., India.



An Industrial Visit to Amara Raja Power Systems Limited



Industrial Expert explaining the manufacturing process of Batteries



Industrial expert explaining Testing process of Batteries



A Guest Lecture on “Introduction to EDA tools and opportunities in VLSI” for (II, III & IV B.Tech II Sem) Students on 29th Dec 2021 by Mr. Rajiv Lakku, Team Manager, Altran Technologies, Bangalore



Mr. Rajiv Lakku demonstrating ideas on Introduction to EDA Tools and Opportunities



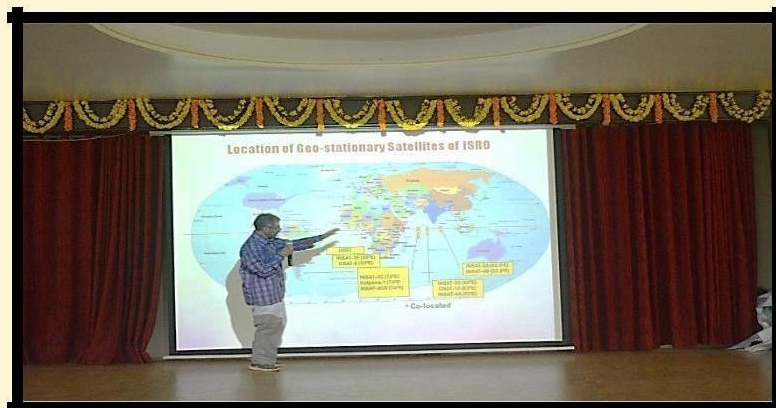
A Guest Lecture on “IT Trends and Opportunities in various domains of Aerospace, E-commerce and Mobile” for (II, III & IV B.Tech II Sem) Students on 29th Dec 2021 by Mr. Ramesh Pyru, Lead Testing Engineer, Boeing International Co-ordination India Pvt Ltd., Bangaluru



Mr. Ramesh Pyru explaining about IT Trends and Opportunities in various domains of Aerospace, E-commerce and Mobile



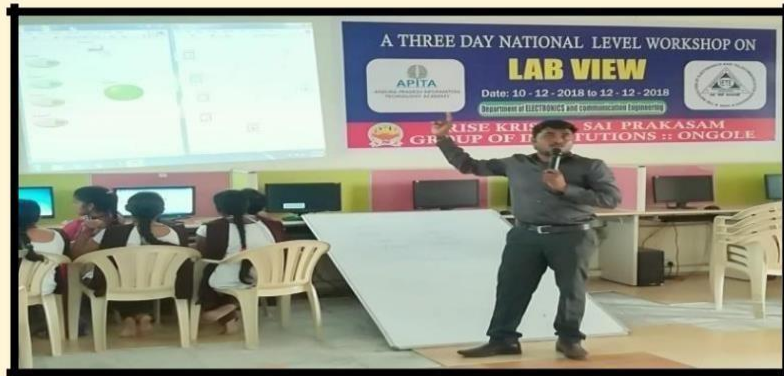
A Guest Lecture on “Recent trends in Broadcasting” for (I, II, III & IV B.Tech II Sem) Students on 20th Dec 2021 by Mr. P. Kalee Prasad, Honorable Secretary of IETE Vijayawada chapter and Senior Engineering Asst., Doordarsan Kendra, Vijayawada



A Guest Lecture giving by Mr. Kalee Prasad on Locations of Geo stationary Satellites of ISRO



A 3-Day National Level Workshop on “LAB View” 10-12 Dec 2021 by Mr. Prakash, Trainer National Instruments, APITA (Andhra Pradesh Information Technology Academy).



Mr. Prakash conferencing his skills to students on LAB View



A 3-Day National Level Workshop on “Hands on SciLab and Its Applications” from 29th Nov 2021 to 1st Dec 2021 by Dr. Lakshmi Narayana, Dept of ECE, Potti Sri Ramulu Chaluva Mallikarjuna Rao College of Engineering Vijayawada.



Students inculcating their Knowledge in workshop about Hands on Sci-Lab

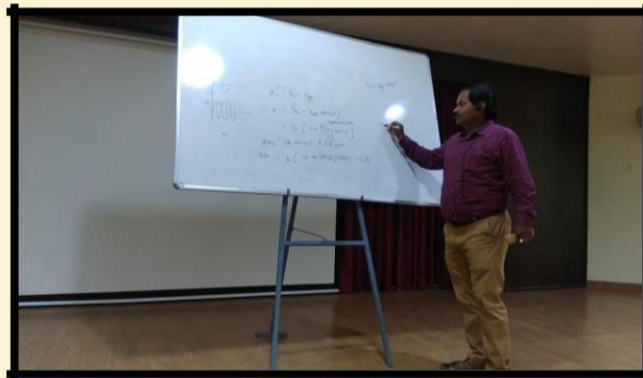


An Industrial Visit for (IVB.Tech I Sem) Students on 27th Sep 2021 at SDSC SHAR (ISRO), Sriharikota Range located at Nellore (Dt.), A.P., India.



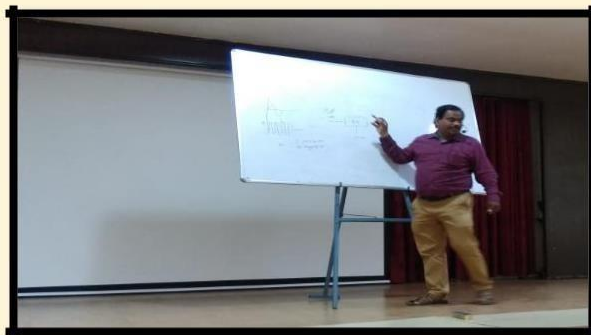
An Industrial Visit to SDSC SHAR (ISRO)

- ❖ A Guest lecture on **Communication Systems** which was held on 20th Sep 2021 by Mr. G.V. Chalapathi Rao, Assoc. Professor, MVSR Engineering College, Hyderabad



Mr. G.V.Chalapathi Rao delivering lecture to III year ECE

- ❖ A Guest lecture on **Network Analysis** which was held on 20th Sep 2021 by Mr. G.V. Chalapathi Rao, Assoc. Professor, MVSR Engineering College, Hyderabad



Mr. G.V.Chalapathi Rao delivering lecture to II year ECE

- ❖ A Three Day National Level Workshop on PCB Design which was conducted from 17th Sep 2021 to 20th Sep 2021 and it was Guided by Mr Finney Daniel, Director, Center for Electronic System Design (CESD)



Resource Person explaining about PCB Design



Student's active participation in PCB Design



A 3-Day National Level Workshop on “Computer Vision with Matlab” on 26th July-28th July 2021 by Synxa IT (P) Ltd.



P.Satya Kumar explaining the Computer Vision with Matlab



Certification of Computer Vision with Matlab

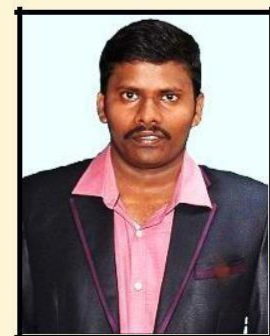
FACULTY ACHIEVEMENTS:

NPTEL Certified Course (Embedded System Design with ARM)

Elite Holder

Mr. N. THIRUMALESH

HEARTY CONGRATULATIONS!!!



WORKSHOPS/SEMINARS/ONLINE COURSES/FDPs attended:

1. *Dr.Ch.VenuGopalReddyattended Faculty Development Programme on “Signal Processing For 5g Wireless Communications” Organized by Institute of Aeronautical Engineering (IARE), Hyderabad, on 12-17th November, 2019*
2. *Mr.S.Chandra Sekharattended Faculty Development Programme on“Signal Processing For 5g Wireless Communications”Organized by Institute of Aeronautical Engineering (IARE), Hyderabad, on 12-17th November, 2019*
3. *Mr.K.SaimanattendedFaculty Development Programme on“Signal Processing For 5g Wireless Communications”Organized by Institute of Aeronautical Engineering (IARE), Hyderabad, on 12-17th November, 2019*
4. *Mr.Sk.Johnattended Faculty Development Programme on “Signal Processing For 5g Wireless Communications” Organized by Institute of Aeronautical Engineering (IARE), Hyderabad, on 12-17th November, 2019*
5. *Mr.O.V.Sai Kiranattended Faculty Development Programme on “Signal Processing For 5g Wireless Communications” Organized by Institute of Aeronautical Engineering (IARE), Hyderabad, on 12-17th November, 2019*
6. *Dr. S. Satheeshparticipated in MeitY, Govt. of India, Sponsored Faculty Development Programme on “Deep Learning” Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.*
7. *Mr.E.Chiranjeevi participated in MeitY, Govt. of India, Sponsored Faculty Development Programme on “Deep Learning” Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.*
8. *Mr.Sk.Khajavaliparticipated in MeitY, Govt. of India, Sponsored Faculty Development Programme on “Deep Learning” Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.*
9. *Mr.D.Nayab Rasoolparticipated in MeitY, Govt. of India, Sponsored Faculty Development Programme on “Deep Learning” Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.*
10. *Mr.K.V.Hareeshparticipated in MeitY, Govt. of India, Sponsored Faculty Development Programme on “Deep Learning” Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.*

11. Mr.Sd.Abdul Rahim participated in MeitY, Govt. of India, Sponsored Faculty Development Programme on **“Deep Learning”** Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.
12. Mr.B.Ramesh participated in MeitY, Govt. of India, Sponsored Faculty Development Programme on **“Deep Learning”** Organized by E&ICT Academy, National Institute of Technology, Warangal, at the Department of CSE, KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, Guntur, from 12th to 17th November 2019.

ONLINE COURSES:

1. Mr. N. Thirumalesh successfully completed Online Course and got Elite grade in **NPTEL** of 8-Weeks duration for **“Embedded System Design with ARM”** from Jan-March 2020.
2. Mr.D.Arun Kumar successfully completed Online Course in **Coursera** of 9-Weeks duration for **“Introduction to Matlab Programming”** on 9th Jan 2020.
3. Mr.N.Thirumalesh successfully completed Online Course in **Coursera** of 4-Weeks duration for **“Introduction to Internet Of Things & Embedded Systems”** on 7th Jan 2020
4. Mr.E.Chiranjeevi successfully completed Online Course in **Coursera** of 7-Weeks duration for **“Introduction to Electronics”** on 16th Dec 2019
5. Mr.M.Hareesh successfully completed Online Course in **Coursera** of 6-Weeks duration for **“Linear Circuit Analysis-1”** on 16th Dec 2019
6. Mr.D.Arun Kumar successfully completed Online Course in **Coursera** of 6-Weeks duration for **“Introduction to Satellite Communications”** on 26th Nov 2019
7. Mr.D.Arun Kumar successfully completed Online Course in **NPTEL** of 12-Weeks duration for **“Microwave Theory and Techniques”** on July-October 2019.

RESEARCH PUBLICATIONS:

1. Mr.Kunchala Durga Prasad, Mr.N. Thirumalesh **“Application Oriented Test Pattern Generation for BIST”**, International Journal of Electrical and Computer Communication Engineering (**IJECEC**) e-ISSN: 2533-8945, Volume 4, Issue 4, (July-2019) PP 78-81
2. Mrs.R.JayaLakshmi, **“An Improved Image Denoising Method using Compressive Sensing Based Thresholding Method”**, JARDCS Vol-10, Issue-9 May 20.
3. Mrs.R.JayaLakshmi, **“Multi Resolution Based Enhanced Subsurface Analysis in Thermal Wave Detection and Ranging”**, JRDS Vol-9, Issue-8, Feb 2022.

IETE ACTIVITIES:

IETE Students form (ISF) Inauguration was held in Rise Krishna Sai Prakasam Group of Institutions, Valluru by the Department of Electronics & Communication Engineering on 20.12.2021.



IETE Logo



Mr.P.Kalee Prasad inaugurated function with Lightening the Lamp

Dr. A.V.Bhaskar Rao, Director on the function gave a warm welcome to the Guest Mr. P. Kalee Prasad and expressed his happiness for accepting invitation for addressing the students.

The inaugural function started in a traditional way with lamp lighting and Saraswati Pooja. The Chief Guest of the function was Mr. P. Kalee Prasad who is Hon. Secretary of IETE Vijayawada chapter and Senior Engineering Asst., Doordarsahan Kendra, Vijayawada. Guest of Honor was Dr. A. V. Bhaskar Rao who is Director of RISE Krishna Sai Group of Institutions, Valluru, Ongole.

Dr. K. V. Subramanyam, who is Principal of RISE Krishna Sai Gandhi Group of Institution. Dr. Ch. Venugopal Reddy HOD, ECE was the Chairman of the Program and Mr.K Suresh Babu was ISF faculty coordinator. Chairman gave an introductory address about professional societies and their importance.



HOD of ECE Dr. Ch. Venu Gopal Reddy delivering his lecture at Inauguration



Guest Lecture on IETE Forum by Mr. P.Kalee Prasad

RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE

The Managing Committee IETE Student Forum (ISF) is as follows.

| | | |
|--------------------|---|--------------------------------|
| Chairperson | - | L. Sumanjali (III B.Tech) |
| Honorary Secretary | - | Ch.Sai Krishna (II B.Tech) |
| Member | - | G.Gowtham (II B.Tech) |
| Member | - | Ch.Bhuvana Chandra (II B.Tech) |
| Member | - | P.V.Sai Santhosh (II B.Tech) |
| Member | - | B.Manoha (II B.Tech) |

Mr. P. Kalee Prasad appreciated the efforts of the Department and RISE Krishna Sai Prakasam Group of Institution in starting this forum and emphasized on benefits of students participation in such events to develop their technical knowledge. He informed the students about the various upcoming events of the IETE Vijayawada Centre like conferences, workshops, seminars and encouraged the students to participate and increase their membership. He elaborated on the awards given by the forum and their significance. He had given certificates for the ISF registered candidates. He also briefed the students on the various financial supports that the forum offers. He also delivered a special talk on the topic “Recent trends in Broadcasting” for the benefit of the students. We honored our chief guest.



IETE Group Photo session



**Felicitations to the foremost guest
Mr. P.Kalee Prasad**

IETE Certificate Distribution



DEPARTMENT OF ECE



On this occasion, Department of ECE conducted various IETE technical events as listed below:

| S.No. | Name of the Event | Faculty Coordinator | Date |
|--------------|--------------------------|----------------------------|-------------|
| 1. | Paper Presentation | <i>Mrs.R.JayaLakshmi</i> | 20-12-19 |
| 2. | Poster Presentation | <i>Mr.K.V.Hareesh Babu</i> | 20-12-19 |
| 3. | Project Exhibition | <i>Mr.N.Thirumalesh</i> | 20-12-19 |
| 4. | Technical Quiz | <i>Mr.D.Arun Kumar</i> | 21-12-19 |
| 5. | JAM (Just A Minute) | <i>Mr.B.Nageswar Rao</i> | 21-12-19 |
| 6. | Circuit Trix | <i>Mr.M.Hareesh Babu</i> | 21-12-19 |
| 7. | Color Coding | <i>Mr.SK.John</i> | 21-12-19 |
| 8. | Rapid fire | <i>Mr.SK.Khajavali</i> | 21-12-19 |
| 9. | Ideas Room | <i>Mr.Syed Abul Raheem</i> | 21-12-19 |

The Ist, IInd and IIIrd prizes are awarded with momentous and certificates.



Group Photo session

ECE FACULTY:



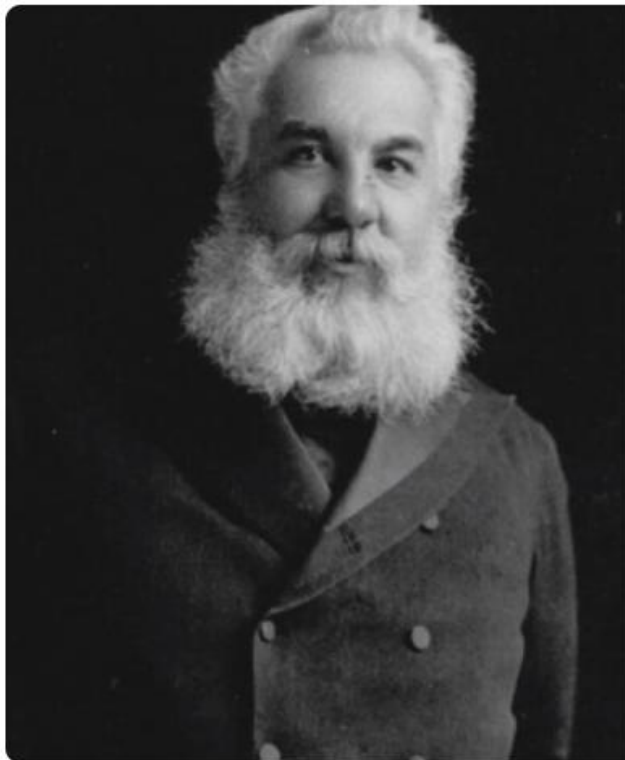
➤ ***Inspirational Quotes:***



**You should not
give up and we
should not allow
the problem to
defeat us.**



➤ *Inspirational Quotes:*



QUOTES IDEA

"Before anything else, preparation is the key to success."

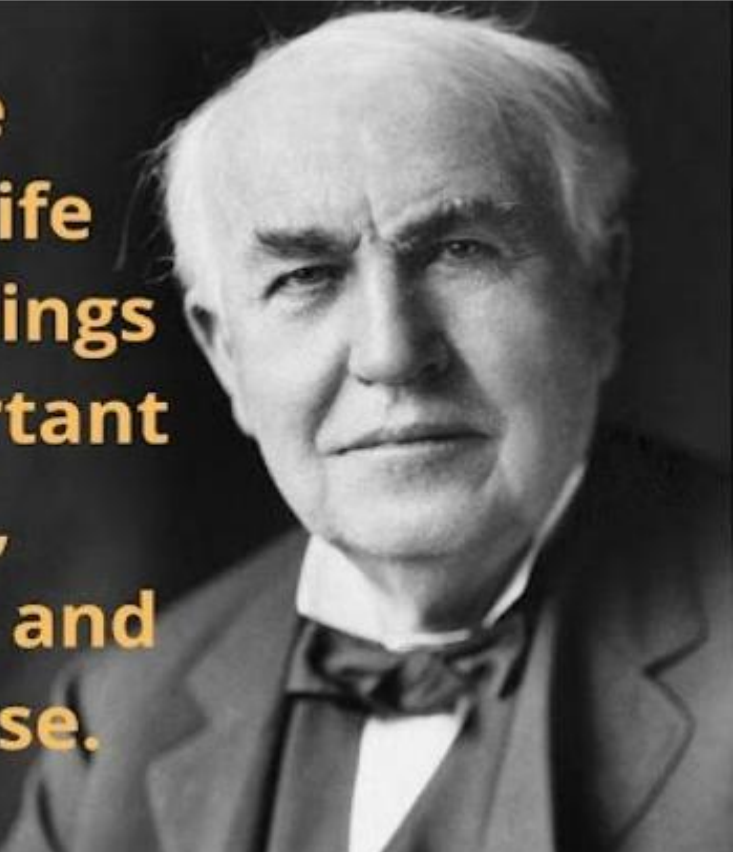
Alexander Graham Bell

Inventor



To achieve anything in life these three things are very important hard work, perseverance, and common sense.

Thomas Edison





DEPARTMENT OF
ELECTRONICS AND
COMMUNICATION ENGINEERING

SPECTRUM TECHNICAL
MAGAZINE **2K21**