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NEWS LETTER

ECE NEWS

Department of

Electronics and Communication Engineering

January - June 2022   Volume - 03,   Issue - 01

ABOUT ECE DEPARTMENT

The Department of Electronics & Communication Engineering aims to impart value-based technical education and train students to become well-rounded engineers. Since its inception in the academic year 2008-09 with an initial intake of 60 students, the department has grown significantly. The current intake of the ECE department is 180 students. The department boasts faculty strength of 53 well-qualified, experienced, and dedicated postgraduates, including 11 doctorates, with some faculty members currently pursuing Ph.D.s in various streams.

VISION OF THE DEPARTMENT

To be a pioneer in Electronics and Communication Engineering and research, promoting entrepreneurship and delivering innovative solutions to societal needs

MISSION OF THE DEPARTMENT

M1: To provide a strong foundation in Electronics and Communication Engineering, preparing students to tackle emerging technological challenges.

M2: To drive research in Electronics and Communication Engineering that delivers innovative solutions to societal needs.

M3: To promote lifelong learning, empowering students to adapt to the evolving technological advancements

Program Educational Objectives (PEO's):

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

PEO 1: Exhibit continuous growth in technical expertise and leadership within the engineering field, while upholding professional ethics.

PEO 2: Communicate effectively and manage resources skillfully as members and leaders of the profession

PEO 3: Commit to continuous learning and adapt to emerging technologies to meet the evolving needs of society.
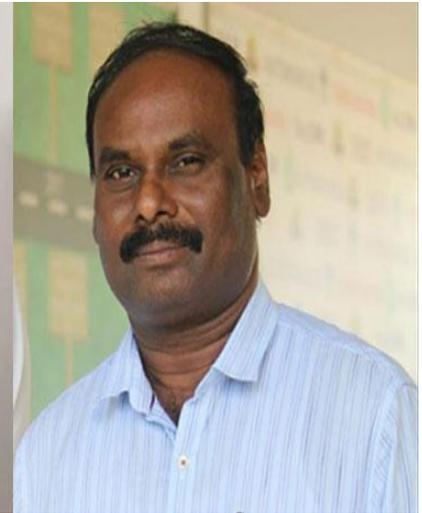
MESSAGE FROM HOD

Dr. B. Nancharaiah

Professor & Head of the Department, Department of ECE,

Usha Rama College of Engineering and Technology, Telaprolu
ecehod@usharama.ac.in
+91 8662527561

Dr. B. Nancharaiah received his B.E. degree in Electronics and Communication Engineering in 1999 from SRKR Engineering College, Bhimavaram, affiliated to Andhra University, India. He obtained his M.Tech degree in Electronics and Communication Engineering in 2003 from Pondicherry Engineering College, Pondicherry Central University, India. He earned his Ph.D. degree in Wireless Communications and Networks in 2017 from JNTUH, Hyderabad, India.

Dr.B.Nancharaiah has been working as Professor and HOD in the Department of Electronics and Communication Engineering at Usha Rama College of Engineering and Technology, Telaprolu, Andhra Pradesh, India, since June 2018. With 23 years of teaching experience, he is a Life Member of ISTE and Fellow of IETE. He has published over 70 papers in reputable national and international journals and conferences. He is the author of two textbooks: Metaheuristic Algorithms in Wireless and Mobile Ad Hoc Networks and Antenna and Wave Propagation. His research interests include wireless communications, networks, and IoTs.

Our department is committed to providing quality education and training to our students, enabling them to excel in their chosen careers. We strive to create a stimulating learning environment that fosters innovation, creativity, and critical thinking.Our faculty members are dedicated professionals with expertise in their respective areas, and we are proud of our strong industry partnerships that provide opportunities for internships, projects, and placements.

Best regards,

Dr.B.Nancharaiah

Head, Department of Electronics and Communication Engineering.

Program Specific Outcomes (PSOs):

PSO1: Develop electronics and communication systems in VLSI, embedded systems, signal processing, and RF communications using advanced tools.

PSO2: Apply ECE knowledge to design, develop, and test systems, considering societal, environmental, ethical, and economic factors.

Program Outcomes (POs)

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

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.

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.

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

Research paper publications

SCI/SCIE	Web of Science	Scopus	UGC	Others
2		5	-	-

1. Dr. B. Nancharaiah, Professor, published a paper titled "Link Reliable, Temperature and Delay-Aware Routing Protocol for Wireless Body Area Networks" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

2. Mr. A. Syam Kumar, Assistant Professor, published a paper titled "Video Object Detection by Evaluating the Object Blur and Motion Aid Feature Calibration" in The International Journal of Analytical and Experimental Modal Analysis, UGC-CARE Journal-II, International, in May 2022.

3. K. Raja Kumari, Assistant Professor, published a paper titled "Estimation of Gaussian Noise Based on Hybrid Discrete Wavelet Transform and Edge Removal" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

4. Mrs. D. Siva Padmavathi, Assistant Professor, published a paper titled "An Autarchic Neural Network Based Vehicle" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

5. Mr. M. Ravi, Assistant Professor, published a paper titled "1-Bit Quantizer with Modified Filter Banks for an Efficient Power Spectrum Sensing" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

6. Mr. P. Venkanna, Assistant Professor, published a paper titled "PAARL Based Mobile Edge Computational Networks for Secure Communication" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

7. Mr. K. Babu Rao, Associate Professor, published a paper titled "Predictable CRC Constructions with High Error Coverage for Finite Field Multipliers" in The International Journal of Analytical and Experimental Modal Analysis, UGC-CARE Journal-II, International, in June 2022.

8. Mrs. S. Thirupathamma, Assistant Professor, published a paper titled "A Design of Counters and Compressors by Sorting Network" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

9. Mrs. B. Sneha Latha, Assistant Professor, published a paper titled "An Efficient Multiply Accumulate Unit Through Integration of Additions and Accumulations into PPR Method" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

10. Mrs. K. Nitya, Assistant Professor, published a paper titled "Design and Implementation of Smart Vehicle for Child Safety Measurements Using Arduino" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

11. Mr. T. Sreedhar, Assistant Professor, published a paper titled "Detection of Smart Ponzi Schemes Using SeCapsule Network" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

12. Mrs. L. Sarala, Assistant Professor, published a paper titled "Implementation of a Routing Protocol for Cognitive Radio Sensor Networks" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

13. Mr. K. Sandeep, Assistant Professor, published a paper titled "Conversion of Low-Light Images to Bright Images by Applying Pair of Complementary Gamma Functions by Fusion Technique" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

14. Mr. G. Rajesh Babu, Assistant Professor, published a paper titled "Low Light Image to High Light Image Enhancement Through Two-Stage Network" in The International Journal of Analytical and Experimental Modal Analysis, UGC-CARE Journal-II, International, in May 2022.

15. Dr. V. G. N. S. Prasad, Associate Professor, published a paper titled "Detection of Red Blood Cell in Malaria Diagnostic Smears Using Faster R-CNN and U-Net" in The International Journal of Analytical and Experimental Modal Analysis, UGC-CARE Journal-II, International, in May 2022.

16. Mrs. G. Sree Lakshmi, Assistant Professor, published a paper titled "Capacity Performance Improvement of Heterogeneous Battery in a Mobile Embedded System" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

17. Mr. K. Bhaskar, Assistant Professor, published a paper titled "Design of Low Power and High-Speed Multiplier Using Posit Number System" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in May 2022.

18. Mrs. B. Sneha Latha, Assistant Professor, published a paper titled "Automatic License Plate Detection and Recognition Using Single Unified Network" in The International Journal of Analytical and Experimental Modal Analysis, UGC-CARE Journal-II, International, in June 2022.

19. Mrs. G. Suneetha, Assistant Professor, published a paper titled "Implementation of Advanced Multiplier for FIR Filter Applications Using Approximate Compressors" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

20. Mr. K. Babu Rao, Associate Professor, published a paper titled "Based on Software Defined Cloud-Fog Networks: A Model on Delay-Tolerant Data Transmission Scheme" in the Journal of Interdisciplinary Cycle Research, UGC-CARE Journal-II, International, in June 2022.

21. Mr. Y. Srinivas Rao, Assistant Professor, published a paper titled "Student Grade Prediction Using Machine Learning Algorithms" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in June 2022.

22. Dr. Ch. Santhi Rani, Professor, published a paper titled "Implementation of Wavelet Based Image and Video Processing" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in June 2022.

23. Mr. Surendra Loya, Assistant Professor, published a paper titled "Design and Development of Wideband Antenna for Wireless and Bio-Medical Applications" in the International Journal of Innovative Research in Technology (UGC-CARE Journal-II, International) in June 2022.

24. Mr. P. Suresh, Assistant Professor, published a paper titled "A Image Security and Video Watermarking Using Chaotic System" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in June 2022.

25. Mr. G. Rajesh Babu, Assistant Professor, published a paper titled "Face Recognition Robust to Reflecting Images" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in May 2022.

26. Dr. B. Nancharaiah, Professor, published a paper titled "Classification of Pneumonia Using Pretrained AlexNet Model from Chest X-Ray Images During COVID-19" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in June 2022.

27. Mr. M. K. K. Kishore, Assistant Professor, published a paper titled "Identification of Real Time Traffic in Tunneled and Anonymous Network Using Deep Learning" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

28. Mrs. K. Nitya, Assistant Professor, published a paper titled "Multi-Level Feature Fusion in SSD for Detection of Human Moving Objects by Deep Learning in Real-Time" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

29. Mrs. D. Siva Padmavathi, Assistant Professor, published a paper titled "Image Deblurring Under Uniform Background" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in May 2022.

30. Mr. E. Rama Krishna Reddy, Assistant Professor, published a paper titled "Designing a Modified Version of Three Stage Comparator by Using 130nm CMOS Technology" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

31. Mrs. G. Sree Lakshmi, Assistant Professor, published a paper titled "Machine Learning Models for Detecting the Security Level of Various Cryptosystems" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

32. Mr. P. Suresh, Assistant Professor, published a paper titled "A Real Time and Remote Intelligent Breathing Rate and Breathing Pattern Monitoring System" in the International Journal of Innovative Research in Technology (UGC-CARE Journal-II, International) in June 2022.

33. Dr. Ch. Santhi Rani, Professor, published a paper titled "Automated Walking Guide for Visually Challenged Individuals to Improve their Mobility" in the International Journal of Innovative Research in Technology (UGC-CARE Journal-II, International) in June 2022.

34. Mr. Y. Srinivas Rao, Assistant Professor, published a paper titled "A Single-Layer Planar Low Profile Wideband Line-Fed Metasurface Antenna" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in June 2022.

35. Mr. Karra Bhaskar, Assistant Professor, published a paper titled "Smart Waste Management System Using LoRa and TensorFlow Deep Learning Model" in The International Journal of Analytical and Experimental Modal Analysis (UGC-CARE Journal-II, International) in May 2022.

36. Mr. E. Rama Krishna Reddy, Assistant Professor, published a paper titled "Design of Low Area Low Power Combinational Circuits Using CNTFET's" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

37. Mr. Surendra Loya, Assistant Professor, published a paper titled "Design and Development of Slotted Microstrip Patch Antenna for Breast Cancer Detection and Wireless Applications" in the International Journal of Innovative Research in Technology (UGC-CARE Journal-II, International) in May 2022.

38. Mr. T. Sreedhar, Assistant Professor, published a paper titled "FPGA Implementation of High Performance Accurate and Approximate Signed and Unsigned Multipliers Using Structure of LUT Configurations on Artix-7" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

39. Mr. M. K. Kishore, Assistant Professor, published a paper titled "Detection of Severity of an Accident by Using Machine Learning Algorithms" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

40. Mr. K. Raja Kumari, Assistant Professor, published a paper titled "Smart Agriculture Monitoring Using Fuzzy Systems" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

41. Mr. Kota Sandeep, Assistant Professor, published a paper titled "Design of High Speed Multiplier Using Dual Stage 4:2 Compressor for DSP Applications" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International) in June 2022.

42. Mr. A. Syam Kumar, Assistant Professor, published a paper titled "Low-Cost and Programmable CRC Implementation Based on FPGA" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

43. Mr. K. Sravani, Assistant Professor, published a paper titled "A Low-Cost IoT Architecture for the Automation of Automobiles" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

44. Mrs. G. Suneetha, Assistant Professor, published a paper titled "A Secure and Fine-Grained Scheme for Data Security in Industrial IoT Platforms for Smart City" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

45. Dr. V. G. N. S. Prasad, Associate Professor, published a paper titled "Alzheimer's Disease Early Detection by Using Deep Learning Algorithms" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

46. Mr. M. Ravi, Assistant Professor, published a paper titled "Low-Cost, Low-Power, Wireless Sensor Network for Ground Water Monitoring" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

47. Dr. B. Nanchariah, Professor, published a paper titled "Portable Wireless System Uses Machine Learning to Detect Arrhythmia" in the Journal of Interdisciplinary Cycle Research (UGC-CARE Journal-II, International), June 2022.

FDP/Seminars/Webinars/workshops/STTP Attended/ Conducted

Workshops Attended

1. .MATLAB SIMULINK

Time	Activity
9:45AM	Lighting the Lamp & Prayer Song
9:50AM	Inviting the Guest on to the dais
10:00AM	Message by the Dr.G.V.K.S.V.Prasad, Principal, URCET
10:05AM	Address by Dr.K. Rajasekhar Rao, Director, URCET
10:25AM	Dr. Aruna Kumari, Associate Professor PVPSIT – Kanuru, Vijayawada
10:30AM	Felicitation to the guest
10:35AM	Vote Of Thanks
10:40AM	National Anthem

The workshop begins with an inauguration and welcome address, including the traditional lighting of the lamp, an introduction to the workshop objectives, and a guest speech to set the tone. The first session introduces participants to the fundamentals of MATLAB and Simulink, covering the MATLAB environment, Simulink blocks, libraries, and basic system modeling. In the second session, attendees focus on simulating engineering systems by modeling electrical, mechanical, and control systems, followed by hands-on practice to interpret simulation results. After a lunch break, the third session explores real-time applications of Simulink through case studies in control systems, signal processing, and power electronics, culminating in a collaborative group activity. The workshop concludes with a Q&A and discussion session to address common troubleshooting issues and explore potential research and project applications.

2.Workshop hands on FPGA implementation

Time	Activity
9:45AM	Lighting the Lamp & Prayer Song
9:50AM	Inviting the Guest on to the dais
9:55AM	Opening Remakes by Dr.B.Nancharaiah, Head of the Department, ECE, URCET.
10:00AM	Message by the Dr.G.V.K.S.V.Prasad, Principal, URCET
10:05AM	Address by Dr.K. Rajasekhar Rao, Director, URCET
10:25AM	Dr.B.Poornaiah Professor, ECE Department, LBRCE, Mylavaram.
10:30AM	Felicitation to the guest
10:35AM	Vote Of Thanks
10:40AM	National Anthem

The six-day FPGA workshop provides a comprehensive journey from fundamental concepts to practical implementation. It begins with an introduction to FPGA architecture, digital design basics, and the FPGA design flow, familiarizing participants with hardware description languages and FPGA boards. The following days delve into Verilog and VHDL programming, covering syntax, modeling styles, and hands-on RTL coding. Participants then explore combinational and sequential logic design, including simulation, timing analysis, and debugging techniques. The workshop continues with synthesis and implementation processes such as place-and-route, followed by FPGA configuration and hardware testing, where attendees program and test their designs on actual FPGA boards through mini projects like traffic light controllers and digital clocks

. The final day highlights FPGA applications in emerging fields like IoT and AI, showcases student project presentations, and concludes with evaluation, feedback, and a valedictory ceremony with certificate distribution.

3.MODELING OF HDL LANGUAGES AND ITS APPLICATIONS

Time	Activity
9:45AM	Lighting the Lamp & Prayer Song
9:50AM	Inviting the Guest on to the dais
9:55AM	Opening Remakes by Dr.B.Nancharaiah, Head of the Department, ECE, URCET.
10:00AM	Message by the Dr.G.V.K.S.V.Prasad, Principal, URCET
10:05AM	Address by Dr.K. Rajasekhar Rao, Director, URCET
10:25AM	Dr.B.Poornaiah Professor, ECE Department, LBRCE, Mylavaram.
10:30AM	Felicitation to the guest
10:35AM	Vote Of Thanks
10:40AM	National Anthem

This six-day workshop offers an in-depth introduction to Hardware Description Languages (HDL) and digital design concepts, starting with foundational topics such as Verilog and VHDL overview, digital logic basics, and design abstraction levels. Participants learn HDL syntax, data types, and basic modeling techniques, progressing to structural and behavioral modeling with practical hands-on exercises including decoders, adders, and multiplexers. The workshop then covers sequential logic and finite state machine (FSM) design, focusing on flip-flops, counters, and clocking events. Emphasis is placed on writing testbenches for simulation and verification, along with an introduction to synthesis processes and timing analysis. The final day highlights real-world applications of HDL in ASIC and FPGA design, featuring mini project demonstrations like traffic light controllers and ALUs, culminating in a valedictory session with feedback and certificate distribution.

Faculty Development Programmes Conducted

VLSI Design

The week-long workshop on "VLSI Design: Principles, Methodologies, and Applications," held from May 15 to May 22, 2022, was conducted offline and attended by 41 participants. The sessions were led by experienced professors including Dr. B. Saidaiah from NRI Institute of Technology, Perecharla, Dr. Ch. Bala Swamy from Gudlavalleru Engineering College, and Dr. D. Krishna from Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology, Vijayawada. The program offered in-depth insights into VLSI design concepts, design methodologies, and practical applications, providing participants with a solid foundation and hands-on experience in this critical area of electronics engineering.

Recent Advances In 5G And 6G Communication Systems

The week-long offline workshop on "Recent Advances in 5G and 6G Communication Systems," held from May 25 to June 1, 2022, was attended by 38 participants. The sessions were conducted by eminent professors Dr. K. Sriharirao from NRI Institute of Technology, Perecharla, Dr. B. Nancharaiah from Usharama College of Engineering & Technology, Telaprolu, and Dr. D. Krishna from Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology, Vijayawada. The workshop provided comprehensive insights into the latest developments in wireless communication, focusing on the evolution and future prospects of 5G and emerging 6G technologies, equipping participants with advanced knowledge critical to the next generation of communication systems.

Faculty Development Programmers Attended

1. Dr. V. S. Naresh, Professor, Dr. Jeya Kumar Professor, Koteswara Kishore Movva Assistant, participated in a two-day faculty development program on "Quality of Question Paper Setting and Evaluation Techniques" organized by VR Siddhartha Engineering College, Vijayawada, from 20th to 21st June 2022.
2. Ms. Nitya Kanakamedala, Assistant Professor, participated in a five-day faculty development program on "Research Aspects of Machine Learning" organized by SRK Institute of Engineering & Technology, Enikepadu, Vijayawada, from 26th to 30th June 2022.

3. Sai Siva Jasthi Assistant Professor, Uma Guguloth Assistant Professor, Uma Guguloth Assistant Professor, Battu Chandini   Assistant Professor participated in a two-day faculty development program on "Quality of Question Paper Setting and Evaluation Techniques" organized by VR Siddhartha Engineering College, Vijayawada, from 20th to 21st June 2022.

4. Mr. Suresh Pothuraju, Sarala Lokireddy ,Assistant Professors, participated in a five-day faculty development program on "Research Aspects of Machine Learning" organized by SRK Institute of Engineering & Technology, Enikepadu, Vijayawada, from 26th to 30th June 2022.

5. Mr. Naga Ravi Kumar Kondaveeti, Assistant Professor, participated in a two-day faculty development program on "Quality of Question Paper Setting and Evaluation Techniques" organized by VR Siddhartha Engineering College, Vijayawada, from 20th to 21st June 2022.

6. Dr. V. S. Naresh, Professor, Dr. Jeya Kumar Professor, Koteswara Kishore Movva Assistant, participated in a two-day faculty development program on "Quality of Question Paper Setting and Evaluation Techniques" organized by VR Siddhartha Engineering College, Vijayawada, from 20th to 21st June 2022.

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Gunja Narendra babui-IV-ECE.

C.Naga Eswar Teja - IV-ECE.