Chief Editor Message:

It gives me great pleasure to know that the next issue of newsletter is ready. I congratulate all those who have contributed in bringing out this issue. I take this opportunity to greet faculty, students, alumni and other stakeholders and hope the newsletter gives them a glimpse of activities the institute is venturing into. I congratulate the editorial board of the newsletter for their untiring efforts in collecting and compiling the data without which it would have not been possible to place this newsletter in your hands. In the present context where globalization has become a reality one needs to have autonomy with accountability. One need to develop the competence to make ethical and value based decisions. This demands two things (i) Quality of Teaching and (ii) Contribution towards generation of knowledge (Research). Let us take a resolution to fulfill this twin objective.

-Dr. K. Ashoka Reddy

Editor 's Message:

I congratulate the team as the next issue of "News Letter" of department of ECE is rolling by. They have taken great pains in bringing a shape to this News Letter. It is a rich source of information regarding various activities of the department and I wish the students will get benefitted by participating in great numbers. I congratulate all the students who got placed and wish good luck to all who will be facing the interviews. This newsletter displays the contributions by faculty & students and activities conducted in the Department during July2021 to Dec 2021 (Odd semester of AY 2022-23). I am happy to share that this semester department has witnessed three of the faculty have been awarded with PhD.

The experience of the faculty made it possible to conduct national and international FDPs with great support from industry experts and academic intellectuals from foreign Universities, IITs and NITs. I am also proud to inform that our students have made the ECEA activities more vibrant with hands-on sessions and training programmes. I would like to offer a word of thanks to our readers, our contributors, and our editorial board for their support of the journal and its mission: to improve the quality of technical education to the students. This newsletter will provide a glimpse of faculty and student achievements in oddsemester of academic year 2021-22.

-Dr. M. Raju

VISION OF THE DEPARTMENT

- Develop the department into a full-pledged center of learning in various fields of Electronic and Communication Engineering in pursuit of excellence in Education, Research, Entrepreneurship and Technological services to the society.

MISSION OF THE DEPARTMENT

- Imparting quality education to develop innovative and entrepreneurial professionals fit for the globally competitive environment .

- To nurture the students in the field of Electronics and Communication Engineering with an overall back-ground suitable for attaining a successful career in higher education, research and Industry.

Program Educational Objectives (PEOs) of the Department:

The PEO's of the B.Tech (Electronics and Communication Engineering) program are focused on making our graduates technologically superior and ethically strong

PEO-I: Building on fundamental knowledge, graduate should continue develop technical skills within and across disciplines in Electronics and Communication Engineering for productive and successful career maintaining professional ethics

PEO-II: Graduates should develop and exercise their capabilities to demonstrate their creativity in engineering practice and team work with increasing responsibility and leadership

"Education is not the amount of information that is put into your brain and runs riot there, undigested, all your life. We must have life-building, man-making, character-making assimilation of ideas."

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PEO-III: Graduates should refine their knowledge and skills to attain professional competence through lifelong learning such as higher education, advanced degrees and professional activities.

Program Outcomes (POs) of the Department:

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, andan engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineeringproblems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: 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.

PO4: 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.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering nd IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: 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.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societaland environmental contexts, and demonstrate the

knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse-teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineeringcommunity 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.

PO11: 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.

FACULTY PUBLICATIONS

1. Bhattacharya S, Das S, Tayal S, Ajayan J, Joseph L, Juluru TK, Mukhopadhyay A, Kanungo S, Das D, Rebelli S. Minimization of crosstalk noise and delay using reduced graphene nano ribbon (GNR) interconnect. Microelectronics Journal. 2022 Sep 1;127:105533.

2. Deepika J, Selvaraju P, Thota MK, Tiwari M, Venu D, Manjulaadevi K, Lakshmi NG. Efficient classification of kidney disease detection using Heterogeneous Modified Artificial Neural Network and Fruit Fly Optimization Algorithm. Journal of Advanced Research in Applied Sciences and Engineering Technology. 2023 Aug 4;31(3):1-2.

3. Kumar BM, Guduru RK, Srinivas A, Ana F, Ramudu K, Dhiman G. Wavelength assignment in optical fiber with intelligent optimization and assignment scheme for static and dynamic traffic intensity based Photonic networks. Optical and Quantum Electronics. 2022 Aug;54(8):526.

4. Tara SK, Prashanth MS, Girija SP, Reddy GR. Design of human-computer interaction for handwriting character: A comprehensive review. InAIP Conference Proceedings 2023 May 24 (Vol. 2477, No. 1). AIP Publishing.
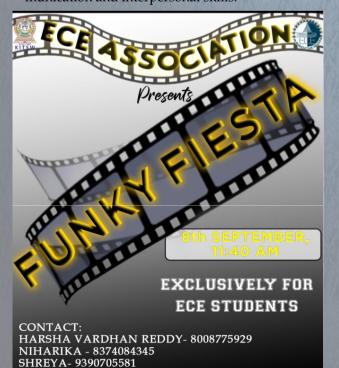
"If the education and studies of children were suited to their inclinations and capacities, many would be made useful members of society that otherwise would make no figure in it."

ECE ASSOCIATION DETAILS

Debate on "Brain Drain. An effective interactive session was taken up by the ECEA by the Debate on September 1, 2022. The topic chosen was: Is the migration of engineers from India a boon or a bane for the country??. In this event, the participants are divided into three groups, and the event was carried out with lots of energy and enthusiasm from the students. This event was intended to develop communication and interpersonal skills.

Funky Fiesta: The event Funky Fiesta was conducted on September 8, 2022, at 11:40 p.m. in the auditorium. ECEA has come up with the elegant idea of organizing this event. It was intended to improve the analytical skills and team-building skills of the students.
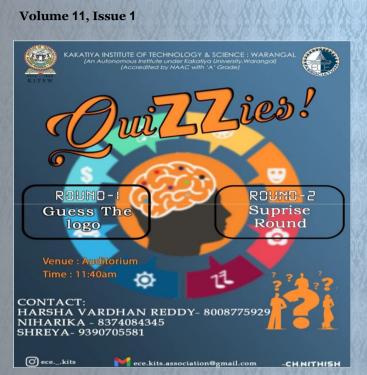

DEVELOPER GLIMPSE-Introduction to Web Development: Web development refers to the creating, building, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites. There are three main types of web development: front-end development, back-end development, and full stack development. On 22-09-2022, an interactive session addressing the topic: Introduction to web development was held. This technical session was intended to give a glimpse into web development. The 4th year student, Harsha Vardhan Reddy, gave the introduction and also guided the students of the 2nd and 3rd years on web development. This session really helped the students learn the basic concepts of becoming a web developer.

"The aim of education is not to create professionals, but to create people who understand the power of knowledge and its application to make the world a better place."

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Quizzes: The event Quizzes was conducted on 29-09-2022 by the ECEA with an amazing two rounds, i.e., Guess the Logo and Surprise Round. In this event, the first round continued with the three teams where the logo of the popular brands was displayed and instructed to guess it. Later, the second round continued with the surprise round of picking a card and doing the actions on the card. This event built understanding and memory skills in the students.

INDUSTRIAL TOUR

Faculty and III/IV B.Tech students visited Indian National Centre for Ocean Information Services (INCOIS), "Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad, on 25.11.2022.

SUMSHODHINI 2022

As per the culture of Kakatiya Institute of Technology and Science, every academic year KITSW Student Activity Centre (SAC) and ISTE Student Chapter organizes SUMSHODHINI, a National level Student Technical symposium for the aspirants assembling from various

engineering colleges with a very high competitive spirit to participate and with the strong determination to include their achievements & accomplishments to their resumes.