RAMACHANDRA
COLLEGE OF ENGINEERING
AUTONOMOUS

Approved by **AICTE**, New Delhi
Permanently Affiliated to **JNTUK**
Recognized by **UGC 2(f) & 12(B)**
Accreditations
NAAC A+
NBA (EEE, Civil, ME, ECE & CSE)
ISO 9001 : 2015 Certified

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1st Ternary News Letter

(1-21)

July - October

(AY 2023-24)

Volume:1 ISSUE:1

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1st Ternary News Letter (AY 2023-24)

VOLUME:1 ISSUE:1

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Message from HoD

The ECE Dept newsletter is a platform for sharing educational information, activities and events related to the ECE Department. I hope that the newsletter will provide useful and relevant information. It is the intent of the department to make it a Quarterly publication to keep in touch with the departmental activities and achievements. This is a platform to share information and you can participate by sharing your thoughts on the Departmental activities or by contributing information on the events that you have organized.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROGRAM OUTCOMES (POs)

Po. No	PROGRAM OUTCOME
PO-1	**Engineering Knowledge:** Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
PO-2	**Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
PO-3	**Design /Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO-4	**Conduct investigations of complex Computing 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.
PO-5	**Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
PO-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.
PO-7	**Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.
PO-8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO-9	**Individual and Team work:** Function effectively as an individual and as a member or leader in teams in multidisciplinary settings.
PO-10	**Communication:** Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
PO-11	**Project management and finance:** Demonstrate knowledge and understanding of the computing 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.
PO-12	**Life Long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO-1	**Professional Skills:** An Ability to Understand the concepts of basic Electronics and Communication Engineering and to apply them to various areas like signal processing, VLSI, Embedded Systems, Communication Systems, Digital and Analog devices etc.
PSO-2	**Problem Solving skills:** An ability to solve complex Electronics and Communication Engineering Problems, using the latest hardware and software tools ,along with analytical skills to arrive cost effective and appropriate solutions.
PSO-3	**Successful Career and Entrepreneurship:** Wisdom of social and environmental awareness along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.

HOD-ECE

Department Vision:

To produce innovative, ethical and socially responsible graduates in the field of Electronics and Communication Engineering who can address the global and Environmental challenges through excellence in technical education and research.

Department Mission:

DM1: To provide creative learning environment to the students by offering state-of-the-art infrastructure, core instruction and highly qualified and motivated faculty.

DM2: To adapt the learners to use new technologies in Electronics and Communication Engineering field by engaging in cutting-edge research through collaborations with Industry and academia.

DM3: To imbibe self-learning attitude, entrepreneur skills, and professional ethics and leadership qualities among the graduates to make them globally competent.

DM4: To extend the benefits of the technology to solve the environmental and societal challenges.

Faculty Achievements:

S.No	Date	Event	Description	Attestation
1	18/08/2023	Appreciation for Faculty Achievement	Appreciated Dr. BONAM RAGHAVAIAH for his achievement i.e. paper published for SCI JOURNAL "AN EFFICIENT VLSI ARCHITECTURE FOR FAST MOTION ESTIMATION BY HYBRIDIZING PARALLEL SPIRAL AND ADAPTIVE THRESHOLD STAR DIAMOND SEARCH ALGORITHM-BASED ON HEVC"	WILEY RESEARCH ARTICLE An efficient VLSI architecture for fast motion estimation by hybridizing parallel spiral and adaptive threshold star diamond search algorithm-based search algorithm in HEVC
2	22/08/2023	Appreciation for Faculty Achievement	Appreciated Dr. S Jagan Mohan Rao for his achievement i.e. patent for invention entitled "MONITORING AND ALERTING DEVICE FOR LPG CYLINDER"	

3	17/08/2023	Appreciation for Faculty Achievement	Appreciated Dr. S Jagan Mohan Rao for his achievement i.e. patent for invention entitled "MONITORING AND ALERTING DEVICE FOR LPG CYLINDER"	

1. Faculty Workshop:

Conducted a 2-day workshop for Faculty on VLSI circuits design using Cadence Tool from 15/07/23 &16/07/2023

2. Faculty Orientations:

Orientation sessions were conducted for Teaching Faculty and Lab technicians on 13/07/2023 for the Academic year 2023-24.

3. Orientation day for 1st year students:

Event Parichay for first year students - 4/09/2023

4. Project Expo:

Conducted Project expo for finial year students in different areas

On 4/09/2023

5. Teachers Day Celebrations:

Teachers Day Celebrations was organized by ECE students on 05/09/2023.

6. Engineers Day Celebrations:

Engineers Day Celebrations was organized by Faculty and ECE students on 15/09/2023.

Circuit construction winners on Engineer’s Day 15/09/2023

Poster Presentation Winners on Engineer’s Day 15/09/2023

7. Industrial Vist:

Industrial Visit to Sri Sarvarya sugar Ltd, Gopalapuram on 9/9/23, 10/9/23

8. Workshop:

A 2-Day Workshop is conducted for IV Year ECE Students on **VLSI Design Using Cadence** by SRC e-Solutions, Vijayawada- 29/09/23& 30/09/23.

Glimpses from **VLSI Design Using Cadence** Workshop.

9. Student Achievements:

Ch. Gayathri Received Sri GANTA RAMACHANDRA RAO MEMORIA AWARD for securing Highest CGPA for 2023 batch.

10. Student Appreciation:

Appreciation to third year academic toppers in A, B & C sections on 27/09/2023

Appreciation to Final year academic toppers in A, B&C sections on 27/09/2023

Appreciation to second year academic toppers in A, B & C sections on 13/10/2023

11. Techspark:

TECH SPARKS event for 1st YEAR Students:

Students participated in the events of BUZZERQUIZ, MONO ACTION, and CONTENT WRITTING

12. Plantation Day:

On 09 August 2023, Plantation day was organized by RCE-NSS unit with the support of ECE Faculty and Students.

Glimpses of Plantation and Greenery on 09 August 2023.

13. Eco Friendly Seeded Ganesha:

తయారు చేశారు. హెచ్ఎం సత్యశారద, డైరెక్టర్ మదనమోహనరాజు పాల్గొన్నారు.

జంగారెడ్డిగూడెం ప్రతిభా ఇంగ్లీష్ మీడియం స్కూల్లో ప్రిన్సిపాల్ నరోజా రెడ్డి ఆధ్వర్యంలో పర్యావరణహిత

పెదపాడులో ..

గణేష్ ప్రతిమల పోటీని శనివారం నిర్వహించారు. 800 మందికి పైగా విద్యార్థులు వివిధ పదార్థాలతో ప్రతిమలను తయారు చేసి పెరా అనిపించారు. బహుమతులు, కన్సోలేషన్ బహుమతులు అందజేశారు. నరోజా రెడ్డి, సిందూషా రెడ్డి, సుబాష్ రెడ్డి మాట్లాడారు. కామవరపుకోట జిల్లా పరిషత్ ఉన్నత పాఠశాలలో డ్రాయింగ్ టీచర్ ఆవుల రవిరాజు, హిందీ ఉపాధ్యాయులు నాగరాజు సంయుక్తంగా విద్యార్థులకు పర్యావరణ అనుకూల వినాయక ప్రతిమల ఆవశ్యకతను తెలియచేస్తూ తయారుచేయు విధానంలో శిక్షణ ఇచ్చారు. ఎం.ఎస్.బి.పి.ఎన్.వి. రమాసుందరి పాల్గొన్నారు.

పెదపాడులోని రామచంద్ర ఇంజనీరింగ్ కళాశాల ఎండీ కె.సాయిరోహిత్ పర్యవేక్షణలో ఎన్.ఎస్.ఎస్.యూనిట్, ఈసీఈ విభాగం ఆధ్వర్యంలో మట్టి వినాయక ప్రతిమలు తయారుచేసి పైల్స్టేషన్ సెంటర్లో ఉచితంగా పంపిణీ చేశారు. ప్రిన్సిపాల్ శ్రీనివాసరావు పాల్గొన్నారు. హైస్కూల్ విద్యార్థులు

Eco Friendly Ganesh event conducted by ECE Branch on 16-09-2023.

14. Awareness Program: An Awareness program was conducted by M. Rama Krishna on **“Smart Indian Hackathon”**. On 23-09-2023

Glimpses of Smart Indian Hackathon.

Ideas/solutions/prototypes presentation for SIH 2023 contest

Felicitation for Industrial Experts who acted as Reviewers for SIH 2023

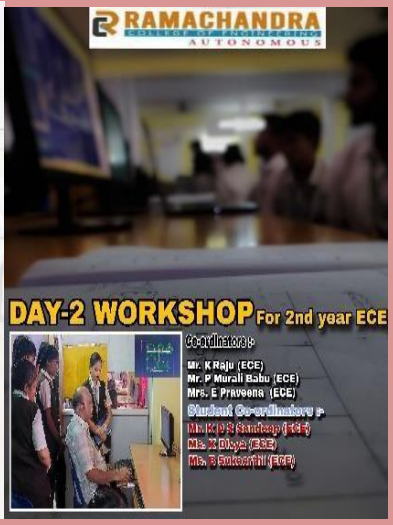
15. Guest Lecture:

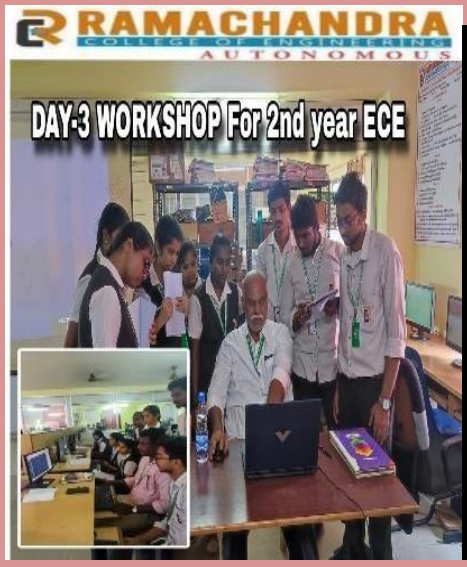
Dr. J. Prasanth Kumar has given a Guest lecture for ECE students at Sir C. R. Reddy College, Eluru on 05/10/2023.

A invited lecturer to Final year ECE students on “Planning and Execution of UG Projects" by Dr.Ch. SRINIVASARAO, JNTUN Principal on 07/10/2023.

A invited lecturer to ECE Faculty on “Teaching Methodologies " by Dr.Ch. SRINIVASARAO, JNTUN Principal on 07/10/2023.

16. Workshop:





Work shop conducted on PCB design & fabrication for 2nd year ECE-A, B& C sections student's from 10/10/2023 to 16/10/2023

ABN ఆంధ్రజ్యోతి

Conditions Apply Pay in 1- click

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ముఖ్యమంత్రికి పంపిస్తున్నామన్నారు. జగన్ అధికారంలోకి వచ్చిన వెంటనే ఓపీఎస్ విధానాన్ని అమలు చేస్తామని ఆ రోజున పాదయాత్రలో హామీ ఇచ్చారన్నారు. కానీ అధికారం చేపట్టి నాలుగున్నరేళ్లయినా ఇంతవరకు అమలు చేయకపోవడం శోచనీయమన్నారు. ఓపీఎస్‌ను అమలు చేయకుండా మడమతిప్పి, మాటమార్చి జీపీఎస్ అంటూ మరో మోసపూరిత విధానాన్ని తీసుకురావడం సీపీఎస్ ఉద్యోగులను వంచించడమేనని వారు విమర్శించారు. జీపీఎస్ విధానాన్ని తక్షణం వెనక్కితీసుకుని, ఇచ్చిన హామీమేరకు ఓపీఎస్

వర్క్‌షాపులో పాల్గొన్న ప్రిన్సిపాల్, విద్యార్థులు

నూతన ఆవిష్కరణల దిశగా ముందుకు సాగాలి

పెదపాడు, అక్టోబరు 14 : సాంకేతిక విద్యనభ్యసించే విద్యార్థుల్లో నైపుణ్యత ప్రధానాంశమని రామచంద్ర ఇంజనీరింగ్ కళాశాల ఎండీ కె.సాయిరోహిత్ తెలిపారు. కళాశాలలో విజయవాడకు చెందిన ఐఈటీఈ సంస్థ ఆధ్వర్యంలో పీసీబీ డిజైన్, ఫ్యాబ్రికేషన్‌పై ఆరు రోజుల వర్క్‌షాపు శనివారంతో ముగిసింది. ఆయన మాట్లాడుతూ నూతన ఆవిష్కరణల దిశగా విద్యార్థులు ముందుకు సాగాలని, అందుకు ఇటువంటి శిక్షణ కార్యక్రమాలు ఉపయోగపడతాయన్నారు. కార్యక్రమంలో ప్రిన్సిపాల్ డాక్టరు వి.శ్రీనివాసరావు, ఈసీఈ హెచ్‌ఓడీ డాక్టరు బి.రామవయ్య, రిసోర్స్‌పర్సన్ డాక్టరు ఎస్.జగన్మోహనరావు, కె.రాజు, నవీన్, మురళీబాబు తదితరులు పాల్గొన్నారు.

17. Power Point Presentation:

Power point presentation on “Space Technology and Astro Physics on 14/10/2023

18. Workshop:

IOT workshop conducted by BIST Technologies

IOT workshop for final year ECE students on 5/10/2023

19. Industrial Vist:

Industrial Visit to Sri Sarvarya
sugar Ltd, Gopalapuram by
third year ECE students on 12/10/2023

20. parents meet:

HoD - Parent interaction regarding I, II, III- & IV-year slow learners

21. Online FDP workshop:

29-day online FDP conducted by ECE Department on TEDP

THANK YOU