

BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE

(AUTONOMOUS)

ODALAREVU

ELECTRONIC PULSE

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING



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ABOUT BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE

Building Future Engineers Through Excellence & Innovation

Bonam Venkata Chalamayya Engineering College (**Autonomous**) is committed to providing quality technical education through academic excellence, innovation, research, and industry collaboration.

The institution fosters an ecosystem that encourages creativity, ethical values, leadership, and lifelong learning while preparing students to excel in a rapidly evolving technological world.

Autonomous
Academic Excellence

NAAC Accredited
Quality Education

Industry Connect
Strong Collaborations

Excellent Placements
Career Opportunities

ACADEMIC EXCELLENCE
Outcome-based education with modern curriculum and digital learning

INNOVATION & RESEARCH
State-of-the-art labs and research-driven environment to encourage innovation

INDUSTRY COLLABORATION
Strong partnerships with industries for internships, projects and placements

STUDENT DEVELOPMENT
Holistic development through technical clubs, activities and leadership programs

ABOUT ECE DEPARTMENT

The department of Electronics & Communication Engineering bestows the value based technical education and train students to be qualified with an global qualification applicable for building a fortunate career either in Industry/Research or higher education i.e, from A.Y 1997-98 with an intake of 60 students. Presently, the intake of the ECE Department is 180 students. The department is strengthened with 33 well qualified, experienced and dedicated Post graduates with 7 Doctorates and some of them are pursuing Ph.D in different streams.

Zeal and Enthusiasm are the two words which defines the faculty of ECE Department and always been on a high growth path with strong commitment towards engineering education. The Department impulse is to provide a vivid and optimum learning environment to the students in order to help them transcend in today's competition globally. To keep in pace with the current technological trends, the department has established few centre of excellences to incorporate all advancements in collaboration with industries.

The faculty members and students of the department presented research papers in the referred International conference in India and abroad. Research articles were published in International journals. The ECE department has good infrastructure with different labs namely Microwave Engineering lab, Microprocessor Lab, Digital ICs Lab, Communications Lab, EDC Lab, ECA Lab, PDC Lab, LIC Lab, DSP & VLSI Lab. All the labs are fully equipped to cater the present day advanced technology. The department consists of a smart class room facility and department library comprising of different textbooks, magazines and competitive exam preparation books.

Vision of the Department of Electronics and Communication Engineering

To produce globally competent and ethically responsible Electronics and Communication Engineers capable of developing innovative, sustainable, and intelligent communication and electronic technologies to meet industrial and societal needs.

Mission of the Department of Electronics and Communication Engineering

M1

To provide a robust academic environment through learner-centric pedagogy, state-of-the-art laboratory infrastructure, and exposure to emerging technologies like VLSI, IoT, and AI-driven communication systems.

M2

To bridge the gap between academia and industry by fostering collaborative research, innovation, and entrepreneurship through hands-on technical training and real-world problem-solving in electronic and communication technologies.

M3

To instill a strong sense of professional ethics, leadership, and lifelong learning in students, enabling them to develop sustainable and intelligent engineering solutions that address global societal and environmental challenges.

Program Educational Objectives (PEO's)

PEO1:

Graduates will apply strong fundamentals of electronics and communication engineering to analyze, design, and develop innovative electronic and communication systems using modern engineering tools for industrial and societal applications.

PEO2:

Graduates will pursue successful careers in industry, research organizations, and entrepreneurship or engage in higher education, demonstrating innovation, technical competence, and adaptability in emerging areas such as VLSI, IoT, and intelligent communication systems.

PEO3:

Graduates will demonstrate professional ethics, leadership, teamwork, and lifelong learning while developing sustainable engineering solutions to address global technological and societal challenges.

Program Specific Objectives (PSO's)

PSO 1

"Graduates will be able to analyze, design, and implement complex electronic systems and communication networks using modern hardware-software tools in the areas of VLSI, Embedded Systems, IoT, and AI-driven signal processing."

PSO 2

"Graduates will be able to apply ECE principles to develop innovative, cost-effective, and sustainable solutions for real-world industrial and societal problems, while adhering to professional ethics and environmental standards."

Program Outcomes (POs)

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

MESSAGE FROM
CHAIRMAN



Dr. Bonam Krishna Satish
Chairman

It gives me immense pleasure to learn that the Department of Electronics and Communication Engineering is bringing out its Technical Magazine. A magazine is a mirror that reflects the ideas, innovativeness, technical competence and the collective efforts of the students and faculty members. It is indeed a matter of pride that our young minds are showcasing their creativity, research insights, and technical skills through this platform.

At our institution, we believe in empowering students with quality education, strong values and a spirit of innovation so that they can excel in a rapidly evolving world. I am confident that this magazine will inspire many more students to explore new ideas, stay curious, and contribute meaningfully to society and the nation.

I extend my heartfelt appreciation to the editorial team, faculty members and students for their dedication and hard work in bringing out this publication. I congratulate everyone involved in this initiative and wish the Department of ECE continued success in all its future endeavors.

May this magazine be a source of knowledge, inspiration and pride for all.

Dream, Innovate, Achieve
Together We Build The Future

MESSAGE FROM SECRETARY



Sri Bonam Kanakayya
Secretary

I am delighted to know that the Department of Electronics and Communication Engineering is bringing out its Technical Magazine. Such initiatives play a vital role in encouraging students to think beyond the classroom, explore new ideas and exhibit their technical expertise.

This magazine is a platform that highlights the academic achievements, innovative projects, research activities and creative talents of our students and faculty members. It reflects the vibrant learning ecosystem and the spirit of excellence that our institution stands for.

Education is not just about gaining knowledge, but also about developing values, leadership qualities and a sense of responsibility towards society. I am confident that through this magazine, our students will be inspired to keep learning, keep innovating and contribute to the progress of the nation.

I appreciate the sincere efforts of the editorial team, faculty and students who have worked dedicatedly to bring out this publication. My best wishes to the Department of ECE for its continuous success and for achieving greater milestones in the years ahead.

May this magazine serve as a source of knowledge, inspiration and pride for everyone associated with it.

Inspire • Innovate • Integrate • Elevate

MESSAGE FROM
PRINCIPAL



Dr. Chandra Mouli VSA.
M. Tech., Ph.D.

Principal

Bonam Venkata Chalamayya
Engineering College
(Autonomous), Odalarevu

I am delighted to present the latest issue of the Department of Electronics and Communication Engineering Technical Magazine. This magazine is a wonderful platform that captures the ingenuity, creativity and technical excellence of our students and faculty.

In a world driven by rapid technological advancements, it is essential for aspiring engineers to stay curious, think innovatively and apply their knowledge to solve real-world problems. This publication reflects the spirit of exploration and the pursuit of excellence that we continuously encourage in our department.

I congratulate the editorial team, faculty coordinators and all contributors for their dedicated efforts in bringing out this issue. Their commitment to sharing knowledge and ideas will motivate many and contribute significantly to the academic and professional growth of our readers.

I encourage all students to actively participate in such initiatives, as they not only enhance technical skills but also develop confidence, teamwork and leadership qualities.

I extend my best wishes to the entire team for the success of this magazine and for many more impactful editions in the future. May it continue to inspire young minds to innovate, excel and make a positive difference in society.

Dr. Chandra Mouli VSA.
M. Tech., Ph.D.
Principal
Bonam Venkata Chalamayya
Engineering College
(Autonomous), Odalarevu

MESSAGE FROM HOD



Dr. Akula Pravin
B.Tech., M.Tech., Ph.D.
Head of the Department
Electronics and Communication Engineering

It gives me immense pleasure to present the latest edition of the Department of Electronics and Communication Engineering Technical Magazine. This magazine is a beautiful blend of knowledge, innovation and creativity reflected through the contributions of our talented students and dedicated faculty members.

In today's fast-evolving world, technical competence, research aptitude and continuous learning are essential to meet the challenges of tomorrow. Our department strives to provide a conducive environment that nurtures curiosity, encourages innovation and promotes holistic development of every student.

This magazine serves as an excellent platform for showcasing academic excellence, innovative projects, research activities, technical articles and other achievements. It not only highlights our departmental activities but also inspires others to explore new ideas and push the boundaries of technology.

I sincerely appreciate the efforts of the editorial team, faculty coordinators and student contributors for their hard work and commitment in bringing out this publication. I congratulate everyone associated with this initiative and wish the Department of ECE continued success in all its future endeavors.

Let this magazine be a source of knowledge, inspiration and motivation for all the readers.

INNOVATE Think Beyond | **LEARN** Continuously | **ACHIEVE** Excellence | **INSPIRE** The Future



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WATER FROM AIR WITH DATA TRANSMITTER USING IOT

ABSTRACT

Water from air is also known as Atmospheric Water Generator (AWG) is a device that extracts water from humid ambient air, i.e, atmosphere, the method employed herein is aimed to condense water vapour present in the air by cooling it through Thermo-Electric-Cooler (TEC) devices. These devices popularly known as Peltier coolers also known as thermo electric coolers operate by the Peltier effect. Means, the device has two sides, and when a DC electric current flows through the device, it brings heat from one side to the other, so that one side gets cooler while the other gets hotter. The hot side is attached to a large heat sink so that it remains at ambient temperature and the cool side goes below room temperature by which water particles present in the air will be accumulated over the cold body of TEC device and converted in to water slowly.

The device designed here is very useful where availability of pure drinking water is difficult, for ex. in sea shores and deserts. Especially in areas like seashores, it is impossible to get drinking water, and where as the atmosphere contains pure water vapour.

The module is constructed with 2 TEC modules, these devices acts as a Heat pump by which heat will be transferred from colder body to hot body, in this process the colder side body temperature falls lesser than ambient temperature. Water vapour in the air can be extracted by condensation. Since is a module basic concept of cooling effect will be proven practically with 2 TEC devices, such that chilled moisture will be formed over the cold bodies of TEC modules and converted as water droplets. Hot body attached with large heat sink mechanism can be cooled with fans and for this purpose two small fans of 12V DC Instrument cooling fans are used to cool entire heat sink mechanism. Since it is a module, the mechanism constructed here can generate very little amount of water due to the low capacity or less size of TEC modules.



- EXTRACTS WATER VAPOUR FROM AIR
- CONDENSES VAPOUR USING TEC COOLING
- WATER DROPLETS FORMED ON COLD SURFACE
- PURE DRINKING WATER COLLECTED
- DATA TRANSMITTED USING IOT

HOW IT WORKS



1. HUMID AIR INTAKE
Ambient air containing water vapour is drawn into the device by a fan.

2. TEC COOLING
TEC (Thermo Electric Cooler) cools one side down, causing the temperature to drop below dew point.

3. CONDENSATION
Water vapour in the air condenses on the cold surface of TEC and forms water droplets.

4. WATER COLLECTION
Droplets are collected in the water tank placed below the cold surface.

5. DATA TRANSMISSION
Data about temperature, humidity and water level is transmitted to IoT platform.

KEY BENEFITS

- Provides pure drinking water from air
- Useful in remote areas like deserts, seashores & disaster zones
- Low power consumption and eco-friendly
- IoT enabled monitoring & real-time data access
- Compact, portable and easy to maintain

Design and Analysis of Microstrip based Ultra-Wide Stop Band for Radar Applications

Abstract:

In modern microwave communication system the filters are most essential devices to reshape the frequency response by eliminating unwanted frequency bands. Presently filter design is carried out utilizing various methods. Insertion Loss method in advanced high frequency software like ADS, CST studio, HFSS etc. The purpose of utilizing this software is to optimize the filter design in accordance of targeted response. A novel wide stop band filter (WSF) is designed based on combination of aperiodic stubs and slot in the ground for achieving wide band characteristics and suitable applications.

The main objective of this filter is to suppress the stop band in the Ultra- wide band (UWB: 3.1 – 10.6 GHz) frequencies for avoiding the interference with the other applications. The proposed filter is designed on a compact size Flame Retardants (FR) – 4 glass epoxy material (dielectric constant = 4.4). In order to get the wide band performance, Symmetrical lumped element is added in parallel to the L – shaped stubs, which gives the 3dB – stop band width . The proposed antenna is suitable for S (2 – 4GHz), C (4 – 8GHz) and X (8 – 12 GHz) band communications especially in the Radar applications for detection and tracking purposes. This work is an effort to design and examine an band stop filter which was designed to have attenuation of at least – 60 dB between 2.4 GHz and 2.5 GHz. Band stop filter presented used a EM-simulation method to obtain the reactance slope parameters required for designing the filter. Band stop filter with 2.45 GHz centre frequency, and discuss about the findings. The methods for obtaining larger bandwidth by parametric study and cascading of multi staged filters.

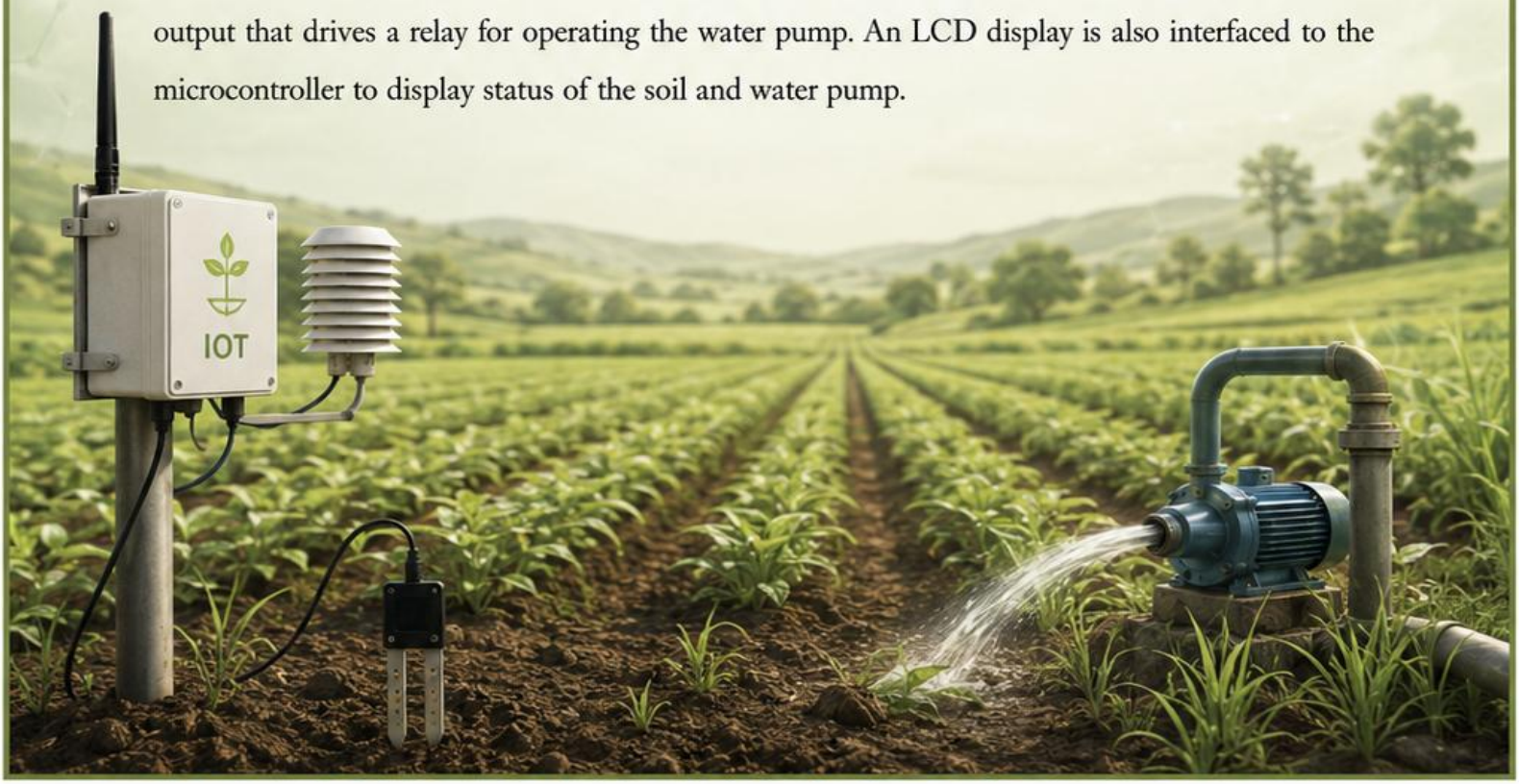


IOT BASED AGRICULTURAL ROBOT

ABSTRACT

This project explores the integration of IoT technology in agriculture, focusing on smart irrigation and pesticides dosing. Through the deployment of sensors and data analytics, this approach enables real-time monitoring of soil moisture, weather conditions, and crop requirements. The system optimizes irrigation practices by delivering water precisely when needed, promoting water conservation. Additionally, IoT facilitates intelligent pesticide dosing based on factors such as pest presence and crop health, enhancing efficiency and minimizing environmental impact. This convergence of smart irrigation and pesticides dosing demonstrates a sustainable and effective strategy for modern agriculture. The advantage of using this method is to reduce human intervention and still ensure proper irrigation. User can monitor the status of soil Moisture. Humidity, Pesticides dosing and Temperature over Internet.

The project uses an Arduino which is programmed to receive the input signal of varying moisture condition of the soil through the sensing arrangement. This is achieved by using an ADC (Analog to Digital Converter) as comparator which acts as interface between the sensing arrangement and the microcontroller. Once the controller receives this signal, it generates an output that drives a relay for operating the water pump. An LCD display is also interfaced to the microcontroller to display status of the soil and water pump.



AUTOMATIC INDOOR HYDROPONIC PLANT GROW POT

Abstract

An automatic indoor hydroponic system abstractly signifies a self-sufficient method of cultivating plants indoors.Now a big obstacle that lies in indoor plant growth is sun light. Residential flats do not have an open roof. Other factors include lack of time to water plants and lack of space to plant the plants in the house.Well here propose a single solution to all of **these problems**. We here develop an **indoor** plant grow pot with integrated plant grow light to imitate sunlight, water chamber with sensors to automatically feed water with nutrients to plant for indoor growing. It use immable LEDs or external controls for adjustable brightness to support plant growth.An automatic water feeder pump ensures consistent hydration in hydroponic systems by delivering a controlled amount of nutrient solution to plants at regular intervals, maintaining optimal moisture levels for healthy growth.Adjustable plant grow settings includes customizable parameters like light, water, nutrients, and temperature for tailored plant care during different growth stages.water tank for reserve water which allows the system to water the plant for upto a week. When the water tank supply runs low it is detected by water sensor which then activates a buzzer alert with notice n LCD display to inform user to fill the reserve tank.Thus the system delivers fully automated arduino powered hydroponic plant grow and care device.

- **Automatic Grow Light** (LEDs)
- **Water & Nutrient Management** (Sensors + Pump)
- **Temperature Control**
- **Customizable Growth Settings** (Light | Water | Nutrients | Temp)
- **LCD Display & Buzzer Alert** (Low Water Notification)



Smart Growing for a Greener Tomorrow

Low power Adder Circuit Implementation Using LECTOR Technique

LOW POWER

Abstract :

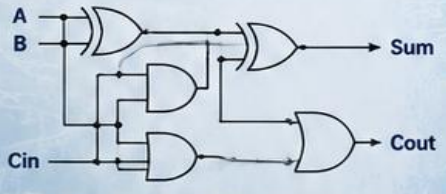
As technology advances, the demand for products that respond quickly and consume less power is on the rise. The full adder, a fundamental building block in electronics, plays a vital role in various operations like convolution and multiplication. Full adders are fundamental components of arithmetic circuits that perform binary addition. However, conventional full adder designs consume a significant amount of power, which limits their applications in low-power devices. In this , we propose a novel full adder design that uses the LECTOR technique to reduce the power consumption and improve the performance.

The LECTOR technique employs a logic effort-based approach to optimize the transistor sizes and the gate-level structure of the full adder. We implement a 1-bit full adder using the LECTOR technique and compare it with other existing designs in terms of power, delay, and power-delay product. The results show that our proposed design achieves up to 40% reduction in power, 25% reduction in delay, and 55% reduction in power-delay product compared to the conventional CMOS design. We also demonstrate the scalability of our design by constructing a 4-bit ripple carry adder using the LECTOR technique. Our design offers a promising solution for low-power arithmetic circuits in various applications. This new full adder design brings a refreshing breeze of efficiency to the world of binary math, promising a brighter future for low-power devices.

FULL ADDER BLOCK DIAGRAM



TYPICAL FULL ADDER LOGIC





- LOW POWER CONSUMPTION
- REDUCED DELAY
- LOW POWER-DELAY PRODUCT
- OPTIMIZED TRANSISTOR SIZING
- BETTER PERFORMANCE

PERFORMANCE COMPARISON



APPLICATIONS

- Low-power VLSI
- Portable Devices
- IoT Devices
- Battery Operated Systems

Parkinson disease detection system using ML

Batch-B2 (B-section)

Abstract

Parkinson's disease (PD) is a neurodegenerative disorder characterized by the progressive loss of motor control, resulting in tremors, bradykinesia, rigidity, and postural instability. Early detection of PD is crucial for timely intervention and effective management of the disease. In this study, we propose a Parkinson disease detection system leveraging machine learning (ML) techniques. The proposed system integrates various data sources, including clinical assessments, medical imaging, and wearable sensor data, to create a comprehensive and multi-modal approach to PD detection. Machine learning algorithms, including supervised, unsupervised, and deep learning models, are employed to analyze and extract features from the data. Feature selection techniques are applied to identify the most discriminative features relevant to PD diagnosis.

The results demonstrate the effectiveness of the AI-powered PD detection system in accurately discriminating between PD patients and healthy individuals. Moreover, the system exhibits promising capabilities in early detection and disease progression monitoring, offering valuable insights for clinicians and healthcare professionals.

Overall, this research contributes to the advancement of AI-based healthcare systems for Parkinson's disease diagnosis and management, paving the way for improved patient outcomes and personalized treatment strategies.

DATA SOURCES

- Clinical Assessments
- Medical Imaging
- Wearable Sensor Data

KEY FEATURES

- Tremor Analysis
- Bradykinesia Measurement
- Rigidity Assessment
- Postural Stability



SYSTEM WORKFLOW

1. **DATA COLLECTION** — Collect data from multiple sources
2. **PREPROCESSING** — Clean, normalize and prepare data
3. **FEATURE EXTRACTION** — Extract meaningful features
4. **ML MODELS** — Apply ML/DL algorithms (Supervised, Unsupervised, Deep Learning)
5. **CLASSIFICATION** — Identify PD patients vs healthy individuals
6. **OUTPUT & INSIGHTS** — Prediction, monitoring & clinical insights

INSTITUTION ACTIVITIES



BVCE IIC organising Viksit Bharat @2047 program started at 10 AM in seminar hall on 11-12-2023.



Voter Awarenes Programme on 27-11-2023



Accenture Placement drive on 23-11-2023



Cambridge English Proficiency (Lab Session) organized by Training Dept., BVCE on 01-11-2023



Inauguration of induction programme



Prizes distributed for the "Aptitude Test winners" by the hands of Hon'ble Principal sir, Dean sir and A.O sir on the birth anniversary of Srinivasa Ramanujan on 22-12-2023.



Voter Awarenes Programme on 27-11-2023



BLOOD DONATION CAMP

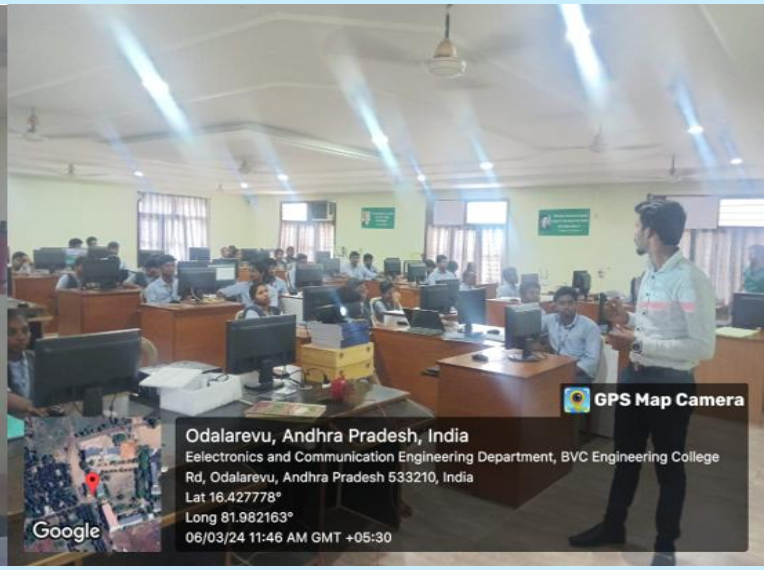
DEPARTMENT ACTIVITIES





Guest Lecture on Recent Trends in Electronics (Dt: 30/10/2023)





Two week Technology Training on IOT (Dt: 26/2/2024 to 9/3/2024)





A One day workshop Intellectual Property Management and Technology (Dt:13/3/2024)



One day seminar on Higher Education Fields in ECE (Dt: 17/5/2024)



Fresher's day 2023-24 (Dt: 5/11/2023)



Farewell Day 2023-24(Dt: 3/4/2024)

ART GALLERY





Name: G. Durga Devi

Roll No.: 20221A0452





Name: G. N. G. S . Satya Sai

Roll No.: 20221A0447





Name: R. Akash

Roll No.: 19221A04D9



Name : N. Raju

Roll No.: 21221A04C0





Name: G. Siva Manikanta

Roll No.: 20221A0446

PLACEMENTS







Achiever's Day 2023-24

ECE TOPPERS

I YEAR / I SEM

S.No	Register No.	Name	SGPA	Rank
1	23221A04B7	Mutyala Venkata Satya Rohith	9.51	1
2	23221A04F6	Rankireddy Gayatri Deepika	9.23	2
3	23221A0477	Koduri Ganesh	9.13	3

II YEAR / I SEM

S.No	Register No.	Name	SGPA	Rank
1	22221A0481	Katta Gowri Priya	9.39	1
2	22221A0411	Akula Uma Krishna Veni	9.22	2
3	22221A0456	Ganta Kusuma	9.10	3

III YEAR / I SEM

S.No	Register No.	Name	SGPA	Rank
1	21221A0408	Dodda Bala Satya Akanksha	9.32	1
2	21221A0419	Bavireddi Sankararao	9.24	2
3	21221A0442	Chollangi Sneha Durga Padma	9.16	3

IV YEAR / I SEM

S.No	Register No.	Name	SGPA	Rank
1	20221A0404	Alladi Bhandavya Gayatri Devi	9.32	1
2	20221A0471	Kalisetti Hema Sai Sireesha	9.15	2
3	20221A0407	Ambati Yogendra Sai Sandeeep	9.02	3

I YEAR / II SEM

S.No	Register No.	Name	SGPA	Rank
1	23221A04C3	Nimmakayala Sai Lakshmi Mownika	9.17	1
2	23221A0424	Bollireddy Rajkumar	9.12	2
3	23221A0447	Dasari Srirama Krishnaveni	9.12	2
4	23221A0457	Dulam Sri Venkata Harish	9.12	2
5	23221A04F6	Rankireddy Gayatri Deepika	9.10	3

II YEAR / II SEM

S.No	Register No.	Name	SGPA	Rank
1	22221A0411	Akula Uma Krishna Veni	9.51	1
2	22221A0456	Ganta Kusuma	9.30	2
3	22221A0452	Dulipudi Pavani Veera Satya	9.09	3
4	22221A0481	Katta Gowri Priya	9.09	3

III YEAR / II SEM

S.No	Register No.	Name	SGPA	Rank
1	21221A0442	Chollangi Sneha Durga Padma	9.30	1
2	21221A0408	Dodda Bala Satya Akanksha	9.30	2
3	21221A0441	Chollangi Chandrika Lakshmi Manasa	9.16	3
4	21221A0470	Jana Pavitra Sai Naga Jyothi	9.16	3
5	21221A0419	Bavireddi Sankararao	9.16	3
6	21221A0486	Komara Uday Kiran	9.16	3
7	21221A04D4	Peruri Sai Devi Sri	9.07	4

IV YEAR / II SEM

S.No	Register No.	Name	SGPA	Rank
1	20221A0404	Alladi Bhandavya Gayatri Devi	9.32	1
2	20221A0407	Ambati Yogendra Sai Sandeeep	9.15	2
3	20221A0471	Kalisetti Hema Sai Sireesha	8.90	3