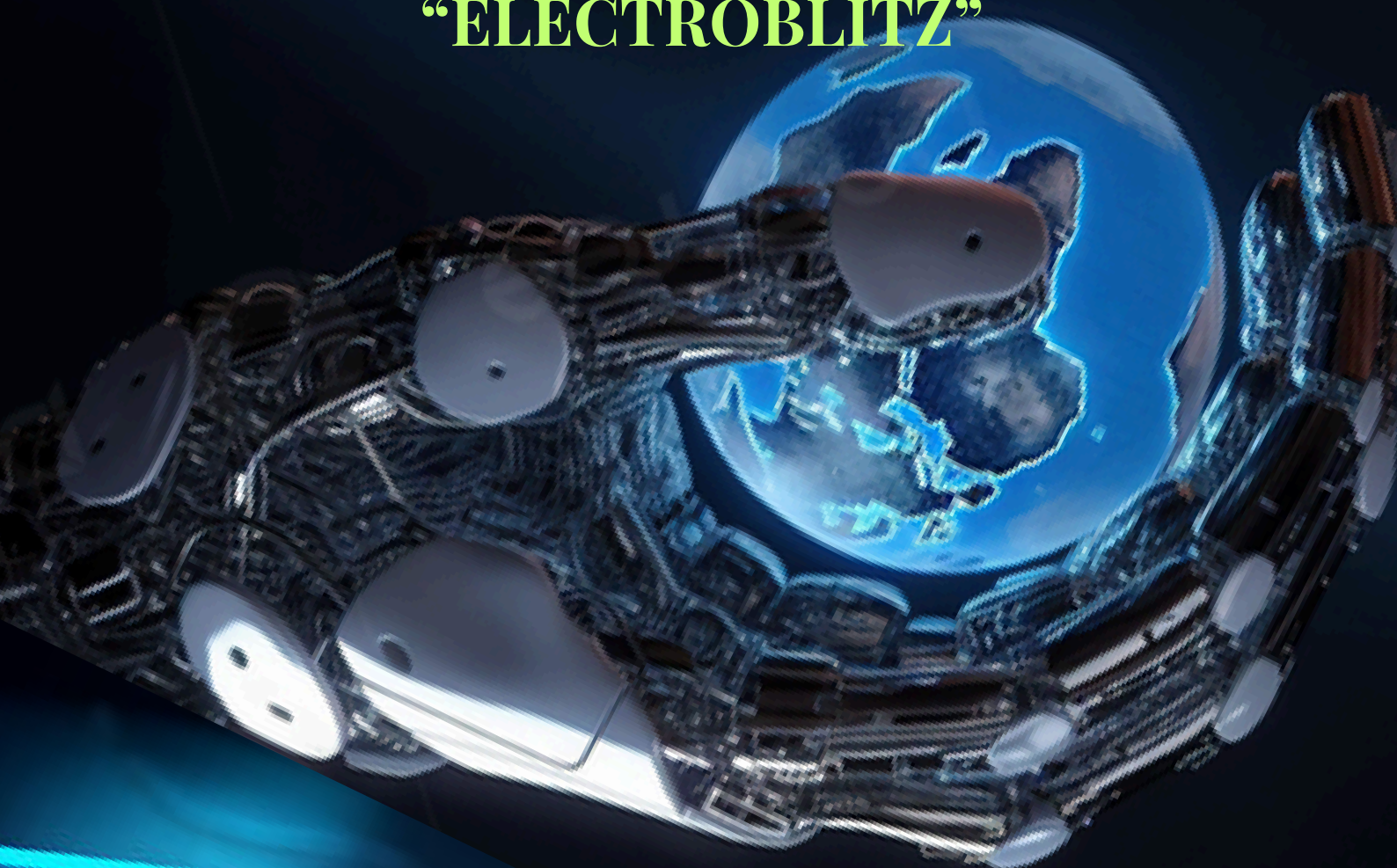
JCT College of Engineering and Technology
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC
Pichanur, Coimbatore - 641105 | info@jct.ac.in | www.jct.ac.in | 0422 2636900
ACCREDITED BY NBA ACCREDITED Engineering 4 Courses PCE | EEE MECH | CSE NAAC A Grade

NEWSLETTER

"ELECTROBLITZ"



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ISSUE : 4 VOLUME :1

July - Dec 2021

Editorial board

Staff Co-ordinator

Mrs.Thahseen Thahir (AP/ECE)

content editor

Ms. FENISHA PRINCESS (III B.E ECE)

Ms. GOPIKA ANAND (IV B.E ECE)

Design Editor

MR.PRAVEENKUMAR K(II B.E ECE)

MR.SARANRAJ S (III B.E ECE)

Photography & Illustration

MR.STEPHEN ROYS (II B.E ECE)

Mr. SIVA.G (IV B.E ECE)

ABOUT THE DEPARTMENT

The Department Of Electronics and Communication Engineering came into existence at the faculty of Engineering in 2009 at JCT. Rapidly changing needs of telecommunication industry coupled with indispensible need for Electronics has fabricated this specific branch of recent times . Apart from the prescribed curriculum, students at JCT are kept in close contact with the industry to make them capable of taking their professional challenges with ease. The Department Of Electronics and Communication Engineering, imparts knowledge to students and nourishes them to capable engineer with high level of talent, professional ethics and creativity.

The major goal of the Department of Electronics and Communication Engineering is to produce highly knowledgeable, competent and resourceful young engineers who can perform well in a wide variety of job profiles. To achieve this, curriculum provides a strong foundation in both the analytic and technological aspects of E&C Engineering. It also provides ample opportunities to students to work on mini-projects, develop communication skills, explore internship opportunities in industry and world-class universities and take part in national and international design contests.

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

VISION

To emerge as a Premier Institute for developing industry ready Engineers with competency, initiative and character to meet the challenges in global environment.

MISSION

- To impart state-of-the-art engineering and professional education through strong theoretical basics and hands on training to students in their choice of field.
- To serve our students by teaching them leadership, entrepreneurship, teamwork, values, quality, ethics and respect for others.
- To provide opportunities for long-term interaction with academia and industry.
- To create new knowledge through innovation and research.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VISION

Electronics and Communication Engineering department aims to empower the budding engineers with technological excellence to meet current and imminent challenges in creative research and employment.

MISSION

- To cater all necessary inputs to excel in electronics knowledge both in theory and practical.
- To develop leadership and entrepreneurship qualities with social and ethical values.
- To provide the opportunities for innovation & collaborative research with industry

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO1: Graduates will develop the skills and knowledge necessary to become globally competent team players and leaders in the allied fields of electronics and communication engineering.

PEO2: Graduates will develop the core technical skills and knowledge that will empower them to pursue lifelong learning and research.

PEO3: Graduates will develop and deliver innovative solutions and services that address industrial and societal challenges, while upholding ethical principles and social responsibility.

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 sciences, 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 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.

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

9. Individual and team work: 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 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. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

1. Analyze, Design, Simulate and Integrate Electronic Circuits and Systems for given specifications.

2. Apply the technical knowledge to solve complex problems in the areas like signal processing, Communication, VLSI design and Embedded Systems.

PRINCIPAL'S WORDS

Dr.S.Manoharan

I am happy to congratulate faculty & students for their enthusiasm in bringing out the next edition of their newsletter. I extend my warm wishes to faculty members and students of ECE department, to continue this journey on the road of excellence.

HOD'S WORDS

Dr.V.J.Arulkarthick

It is a great pleasure to see the creative expressions of students who had contributed to “ELECTROBLITZ”. The Department Of Electronics and Communication Engineering came into existence at the faculty of Engineering in 2023 at JCT. Rapidly changing needs of telecommunication industry coupled with indispensible need for Electronics has fabricated this specific branch of recent times . Apart from the prescribed curriculum, students at JCT are kept in close contact with the industry to make them capable of talking their professional challenges with else.

TABLE OF CONTENTS

EDITORIAL BOARD

VISION,MISSION

PEO, POs,PSOs

MESSAGES

WORKSHOP 1

SEMINAR 2

GUEST LECTURE 2

PROJECT 3

CONTEST PARTICIPATION 3

INTERNSHIP 4

VALUE ADDED COURSE 5

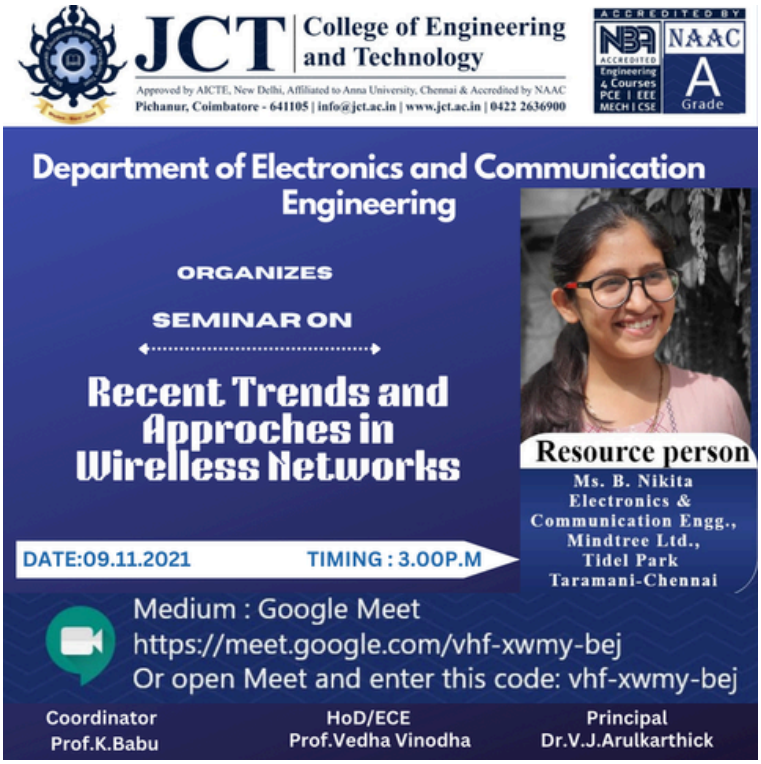
INDUSTRIAL VISIT 5

WORKSHOP

Department of Electronics and communication Engineering and organized a Workshop on "Arudino and its application" on 11.08.2021 at 10.00 am at Google meet Link. The key speaker of the event was Mr. L.Jagadheesan, CEO, Aristates e-solutions, Trichy. The session started with the welcome address by our principal Dr.V.J.Arulkarthick and introduction to the Chief guest was given by Ms.Susma.s IV year. The key speaker introduced his company was Established in 2008, Aries e-Solutions is a holistic software solution provider that provides world-class, innovative, and user-friendly IT services. We have served 100+ clients globally solving their biggest IT challenges.

He said Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online and many field like Home Automation , Robotics, Wearable Technology,Educational Teaching, IoT, Data Logging,3D Mapping & Printing and Automated Gardening etc. Versatility of Arduino has led to the development of several innovative applications across various domains. It helps turn ideas into reality. With Arduino applications, the possibilities are truly endless, and its impact on the world of electronics continues to grow, shaping the future of technology.. finally sir told step by step how to install the software and how to open the file which manner to save file simulation everything he gave hands on training to do the sample program to develop a software for a application and students interact with resource person got knowledge. Finally session end with feedback about the workshop.

SEMINAR



Department of Electronics & Communication organized seminar on "RECENT TRENDS AND APPROACHES IN WIRELESS NETWORKS" on 09.11.2021 at 3.00 pm through google meet link. The key speaker of the event was Ms.B.NIKITHA, Mindtree Ltd, Tidle Park, Taramani, Chennai. she was an alumni of our college.The session started with the welcome address and introduction to the Chief Guest was given by Ms.Thahseen Thahir, Assistant Professor of ECE Department. Our Chief Guest primary goal was to give ideas wireless networks importance and she gave what are the trends in wireless networks everything she explained clearly and . Students got knowledge about wireless networks.

GUEST LECTURE

Department of Electronics & Communication organized guest lecture on "TRENDING CAREER OPPORTUNITIES" on 14.09.2021 at 10.00 am through google meet link. The Guest of the event was Ms.BHARATHI, Manager CIPET, Mysore.The session started with the welcome address and introduction to the Chief Guest was given by Ms.Thahseen Thahir, Assistant Professor of ECE Department.She gave some trending career opportunities include Data science, Information security analyst, Software Engineering,AI, Data marketer,Data engineer etc and given the importance of the Opportunities how to crack that and interacted with students.

1	KARNIYA.R HARI PRASATHR SURUTHI.S NATHISH.C	IOT BASED MANHOLE MONITORINGSYSTEM	DHANISHAHMED INSTITUTE OF TECHNOLOGY-COIMBATORE
2	VISHNUPRASAD C KAMALEESWARI.S AMAL.V.C. MAHALAKSHMI.P	ADAPTABLE ROBOTIC ARM FOR COVID-19 PATIENTS	HANISHAHMED INSTITUTE OF TECHNOLOGY-COIMBATORE
3	ABHIJIT.O.P SIBIN.K.S AGALYA.R MASILAMANI M	ASSESSING OF SIGN TO SPEECH USING RASPBERRY PI AND IOT	EASACOLLEGEOF TECHNOLOGY-COIMBATORE
4	VIJAYALAKSHMI.V ILAIABARATHI.A BHARATH M S MUNIYARAJ.K	ACCIDENT ALERT GENERATION SYSTEM USING LORA AND IOT	EASA COLLEGE OF TECHNOLOGY-COIMBATORE

1	26.10.2021	MOHAMMED RAEES P	COMMUNICATION SKILL DEVELOPMENT PROGRAM ON DYANAMIC PUBLIC SPEAKING	NEHRU COLLEGE OF ENGINEERING COIMBATORE
2	26.10.2021	VENNILA.C	COMMUNICATION SKILL DEVELOPMENT PROGRAM ON DYANAMIC PUBLIC SPEAKING	NEHRU COLLEGE OF ENGINEERING COIMBATORE
3	04.7.2021	ALBIN CHACKO	VLSI SoC DESIGN- NATIONAL WEBINAR	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH, COIMBATORE

INTERNSHIP

S. NO	PERIOD	NAME OF THE COMPANY	NAME OF THE STUDENT
1	15 DAYS	AESTER INDIA PVT LTD	REJIL KRISHNANN.R
2	15 DAYS	AESTER INDIA PVT LTD	ANOOP R
3	15 DAYS	AESTER INDIA PVT LTD	ARIF S
4	15 DAYS	AESTER INDIA PVT LTD	MOHAMMED ANSID K
5	15 DAYS	AESTER INDIA PVT LTD	GOPIKA ANAND K
6	15 DAYS	AESTER INDIA PVT LTD	KARTHISWARAN K
7	15 DAYS	AESTER INDIA PVT LTD	GOPINATH
8	15 DAYS	AESTER INDIA PVT LTD	SUSMA
9	15 DAYS	AESTER INDIA PVT LTD	PRIYADHARSHINI
10	15 DAYS	AESTER INDIA PVT LTD	RAJESHWARI
11	15 DAYS	AESTER INDIA PVT LTD	SURYA PRIYA
12	15 DAYS	AESTER INDIA PVT LTD	PRIYANKA
13	15 DAYS	BSNL PALAKAD	ARIF S

14	15 DAYS	BSNL PALAKAD	GOPIKA ANAND K
15	15 DAYS	BSNL PALAKAD	ANOOP R

Value Added Course

NO	TITLE OF THE COURSE	COLLABORATIVE AGENCY
1	WEB DESIGNING (ONLINE)	AVATAR ACADEMY

INDUSTRIAL VISIT

S.NO	INDUSTRY NAME	COURSE NAME
1	PANTECH PVT LTD, COIMBATORE.	DISCRETE-TIME SIGNAL PROCESSING
2	PNM INDUSTRIES, SITCO COIMBATORE.	VLSI DESIGN
3	PNM INDUSTRIES, SITCO COIMBATORE.	WIRELESS NETWORKS

JCT INSTITUTION

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
PICHANUR,
COIMBATORE,
TAMIL NADU
COIMBATORE - 641105