



J.J.COLLEGE OF ENGINEERING AND TECHNOLOGY

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(Sowdambikaa Group of Institutions)



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Institution Making Students Ready for "Industry 4.0"

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Professor & Head / ECE

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J.J.C.E.T BULLETIN



SOWDAMBIKAA

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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VISION

- To impart latest knowledge and skills so as to kindle innovation and creativity among students.

MISSION

- To develop and sustain a culture of research while promoting values, ethics and professionalism.
- To develop competent technocrats who strive continuously in pursuit of professional excellence in the field of Electronics and Communication Engineering
- To offer well-balanced curriculum to acquire professional competencies.
- To develop state of the art infrastructure and research for effective teaching learning process
- To strengthen soft skills especially for rural students through co-curricular and extracurricular activities.

PRINCIPAL'S MESSAGE



Dear Students and Faculty Members,

Department of Electronics and Communication Engineering involved in various dimensions of academic activities and attained a remarkable success. I feel happy to share that CAD MAXX recruited Mr. P.Dharun Kumar and Mr. S.Prithiviraj, and Coding King recruited Ms. S.Dhiyaneswari. One new patent on the title of “Embedded Sensor Based Vehicle Door Locking System for Avoid Accident “and a book titled “Optical Communication and its Applications” were published by the faculty members of Electronics and Communication Engineering department. In sports, Anna University Zone – 13 kabaddi Tournament (for Men), our college won Gold medal, and the cricket team progressed to final.

I congratulate all the Faculty members and Students for their sincere efforts.

**Best Wishes,
Dr. P.Mathiyalagan,
Principal.**

MESSAGE FROM THE EDITOR'S DESK



Welcome to the Maiden edition of the monthly News Letter of Department of Electronics and Communication Engineering, J.J.College of Engineering and Technology. We are really proud and passionate to acclaim that we are ready with all new hopes and hues to bring out the 01st issue , which is going to surely unfold the most unforgettable and precious moments of the department. The magazine is to be viewed as a launch pad for both the Faculty members and Students' creative urges to blossom naturally. We are sure that the positive attitude, hard work, sustained efforts and innovative ideas exhibited by our department will surely stir the mind of the readers and take them to the surreal world of unalloyed joy and pleasure.

It gives me immense pleasure to ensure that this magazine has successfully accomplished its objectives. The reflection of the faculty members and students' creativity and achievements is the essence of the news letter. This News Letter is before you, is the combined efforts of the Editorial Board, and I take this opportunity to thank all the contributors as their contribution are the reason that makes this News Letter endearing a grand success.

Editor-in-Chief
Dr. S.Sumithra,
Professor & Head.

MAJOR EVENTS

- 2-days hands on training for “**PCB Design – Making and Layout Designing**” conducted by ECE department from 23rd and 24th of September 2022. The expert Mr. A.R.Kasturi given introduction about PCB raw materials, methods of making PCB, allowing the students to make PCB by them and with completion of a mini project. Students were benefited by the expert who has more than 2 decades of experience in the field of PCB designing and layout. Students learnt about various types making manual PCB boards. About 88 students and faculties from ECE department participated in this hands on training workshop.



- The Electronics and Communication Engineering department organized a Webinar titled “**Introduction to HDL Programming**” on 26th of October 2022. The expert Mrs. Saraswathi Natrajan explained to the students about basics of digital electronics followed by various HDL programming languages with coding examples. Students were benefited by the experienced expert who has more than 8 years of experience in the field of RTL Design and Low Power VLSI. Students learnt about the Xilinx Vivado design suite which is a useful tool for HDL programming. About 55 students and faculties from ECE department participated in this Webinar.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
REGIRED ASSOCIATION



**INTRODUCTION TO HDL
PROGRAMMING**



Convener
Dr. S. Santhra
Coordinator
Dr. K. L. Venkataraman

Date: 30-08-2022
Time: 10:00am-12:30pm
Venue: VLSI LAB

Tech Talk By
Mrs. Saraswathi Natrajan
VLSI Project Developer,
Modiv Technologies

- The Electronics and Communication Engineering department organized a National level Technical Symposium titled “**TANTRASHASTRA-2K22**” on 12th of November 2022. Students from various colleges participated and showcase their talents in various technical and non-technical events. Our Principal Dr. P.Mathiyalagan, chief guest of the Symposium, given a talk about the importance of Engineering and the Employability followed by our department head given a tech talk about emerging 5G communication technologies. About 18 colleges and with the student’s strength of around 128 participated and won various prizes in the events organized.





- At every weekend of Saturday, students from IInd year, IIIrd year and IVth year organize various curricular and extracurricular activities like Debate, Aptitude training, GD etc.. By involving themselves and make use of the session in a success manner.



STUDENTS' ACHIEVEMENTS

- Mr. S.Madesh from IIIrd year ECE has participated in National level Technical Symposium conducted by Kurinji College of Engineering and Technology and won First Prize in Mini project.
- Ms. S.Vijayasri, Ms. N.Kaliyammal, Ms. M.Priyadharshini, Ms. I.Juhi Jahhana and Ms. S.Nithya from IInd year ECE has participated in National level Technical Symposium conducted by Kurinji College of Engineering and Technology and won First Prize in paper presentation.



Our department second year students won first prize in the national level symposium conducted by Kurinji engineering college



ECE department second year students won first prize in the National Level Technical Symposium conducted by Kurinji Engineering College

FACULTY MEMBERS ACHIEVEMENTS

- Dr. S.Sumithra, Dr. M.Shobana, Dr. N.L.Venkataraman, Mr. S.Suresh Kumar, Mr. R.Purushothaman, Mrs. R.Meenakshi, Mrs. K.Kokulavani and Mrs. V.Gowri has filed a patent under the title of “Embedded Sensor Based Vehicle Door Locking System for Avoid Accident ” No: 202241057429
- A book published by Dr. S.Sumithra, Dr. N.L.Venkataraman, Mr. S.Suresh Kumar and R.Purushothaman on “Optical Communication and its Applications” through Notion Press.
- Dr. S.Sumithra, Dr. N.L.Venkataraman, Mr. S.Suresh Kumar and Mr. R.Purushothaman published a research paper on “Design of Optimized Binary Squarer Using Vedic Mathematics” in International conference on Recent Trends in Computing, Communication and Information Technology. ISBN: 978-93-91977-09-2
- Dr. M.Shobana published a research paper on “Reshaping Biomedical Healthcare with Meta Materials – A Review” on Gradiva Review Journal, Volume 8, Issue 11, 2022 (SCOPUS)
- Dr. M.Shobana has been selected as a editorial board member for “International Journal of Wireless and Mobile Computing”
- V.Gowri submitted a research paper on “Development and Implementation of Unmanned Vehicles Through Artificial Intelligence Involving Communication System with Sensors and Control Parameters” in Measurement: Sensors
- K.Kokulavani published a research paper on “Design and Speed Analysis of Low Power Single and Double Edge Triggered Flip-Flop with Pulse Signal Feed Through Scheme” in International Journal of Electrical and Electronics Research(SCOPUS)
- R. Meenakshi published a research paper on “A Very Compact Printed Defected Ground Structure(DGS) Antenna for Ultra-Wide Band Applications” on Journal of Pharmaceutical Negative Results(SCOPUS)

SPORTS

- Mr. S. Perumal from IIIrd year ECE, participated and won Gold Medal in Anna University conducted Zone – 13 Kabbadi Tournament.
- Our team, Mr. R.Ashok, Mr. V. Ilaiiaazhwar and Mr. S. Perumal from IIIrd year ECE entered final in Anna University conducting Zonal level Cricket match.
- Mr. M.Balamurugan from IInd year ECE participated in 4 x 400 m relay and won Silver medal in Anna University Zone 13 – Athletics meet.
- Mr. M.Balamurugan from IInd year ECE participated in Half marathon and won Silver medal in Anna University Zone 13 – Athletics meet.
- Mr. H.Arshath from IInd year ECE participated in Badminton tournament and won IIIrd position in Anna University Zone 13 – Badminton Men and Women Tournament.



Anna University Zone 13 : Athletics Meet at Anna University BIT Campus on 2.12.2022 - 3.12.2022

Board of Victory



Half Marathon : Silver Medalist
Balamurugan(ECE)

Anna University Zone 13 : Athletics Meet at Anna University BIT Campus on 2.12.2022 - 3.12.2022

Board of Victory



Relay 4×400 m : Silver Medalist

Sathiyamoorthy(MECH), Balamurugan (ECE), Ineyan(MECH),
Tamilarasan(EEE)

ANNA UNIVERSITY ZONE 13 BADMINTON MEN AND WOMEN TOURNAMENT



**SADEESH A (IT) DHARNEESWARAN S (CSE) A SUVISESH (EEE)
JEEVAN S (IT) H ARSHATH (ECE) S SARAVANAN (IT)**

PROFESSIONAL DEVELOPMENT

S.No	Name of the Faculty	Webinar/Workshop/FDP	Organized by	Date(s)
1.	Dr. S.Sumithra	Master Class on ESD and IoT	Pantech Solutions	13.10.2022 – 18.11.2022
		Embedded System Design	Pantech Solutions	15.11.2022
2	Dr. M.Shobana	Primary Aspects of Paper Writing	Kalinga Institute of Industrial Technology.	20.12.2022
		Multicarrier FDM	NIT, Trichy	19.11.2022
3	Dr. N.L.Venkataraman	Master Class on ESD and IoT	Pantech Solutions	13.10.2022 – 18.11.2022
		Embedded System Design	Pantech Solutions	15.11.2022
4	Mr. R.Purushothaman	Master Class on ESD and IoT	Pantech Solutions	13.10.2022 – 18.11.2022
		Embedded System Design	Pantech Solutions	15.11.2022
		Introduction to Cyber Security	Infosys	28.11.2022
5	Mr. S.Suresh Kumar	Embedded System Design	Pantech Solutions	15.11.2022
6	Mrs. R.Meenakshi	Master Class on ESD and IoT	Pantech Solutions	13.10.2022 – 18.11.2022
7	Mrs. K.Kokulavani	Embedded System Design	Pantech Solutions	15.11.2022
8	Mrs. V.Gowri	Embedded System Design	Pantech Solutions	15.11.2022

PLACEMENT STATISTICS

OUR CROWN JEWELS



Mr. P.Dharunkumar
CADMAXX
2.4 lakhs /PA



Ms. S.Dhiyaneshwari
Coding King
3.96 lakhs/PA



Mr. S.Prithiviraj
Q Spider
3.96 lakhs /PA



Mr. A.Sivanesan



Mr. S.Sooraj
Sri Sai Power and Equipments Pvt Ltd
2.16 lakhs /PA



Mr. T.Yokesh



Ms. A.Mariya Diana
Q Spider
3.96 lakhs /PA



Mr. C.Devabalan
Mitsuba
2.16 lakhs / PA

(100% Placement achieved for the batch 2019 - 2023)

OUR TEAM

EDITOR-IN-CHIEF



Dr. S. Sumithra
Professor & Head

MEMBERS



Dr. M. Shobana
Associate Professor / ECE



Dr. N.L. Venkataraman
Associate Professor / ECE

STUDENT MEMBERS



Ms. S. Mamtha
Content Team



Mr. V. Senthil Velan
Content Team



Mr. S. Madesh
Design Team



Ms. N.A. Yogarasi
Design Team