

JULY 2021 | ISSUE 01



ECE

@ CARE

Reach Beyond the Future



CEO'S MESSAGE

SHRI.B. PRATIVE CHEND

I am delighted that ECE department has started this initiative to publish a newsletter.

I am looking forward to seeing this run fully by the ECSA student body. This will be a great platform for students to showcase their skills.

Hope the newsletter will include Alumni Voices and their journey through the corporate world.

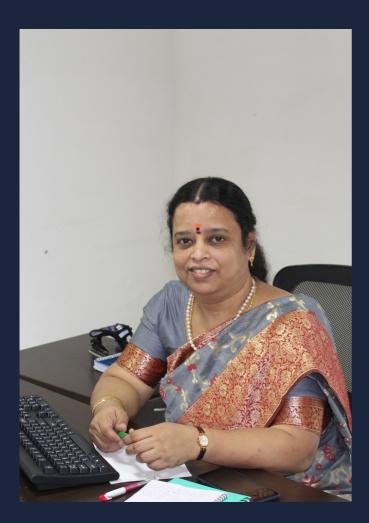
To the students, believe in yourself, you can achieve your dreams.

Best wishes



PRINCIPAL'S MESSAGE

DR.S.SHANTHI



The Newsletter is a way of connecting students and other stakeholders. I am excited to give a note for the newsletter Electronics Communication Engineering department. This newsletter exhibits the talents and research interests of our students and faculty. This newsletter brings out the achievements of students and faculty in all spheres of their learning and upgradation. And also becomes a knowledge repository and act as platform form for sharing information. I congratulate the ECE team for their achievements and bringing out this newsletter. And I wish all the success to the department of ECE all their future endeavors.

"ALL OUR DREAMS CAN COME TRUE, IF WE HAVE THE COURAGE TO PURSUE THEM."
- WALT DISNEY.

HOD'S Message

The Department of Electronics and Communication Engineering, established in 2010, is one of the most dynamic departments of CARE College of Engineering. I am really elated to tell that the department stands on the strength of experienced and faculty qualified who are verv dedicated to teaching and also involved in up-gradation of knowledge. Their research experience will help to cultivate the future of our students.

With great demand in industry and great placement opportunities, the department stands tall and proud. Our students are not only academically sound and disciplined but they also organize various events through ECSA to showcase their talents under non - technical, technical and cultural forums.



Dr.J.JEYARANI

"Unleash your creativity!"

I am very happy that our department is releasing first issue of "ECE BUZZ"as a forerunner of department activities. It is a technical platform to bring out the hidden talents of students and faculty. I believe that my team consisting of ECE students, staff and faculty is capable of doing wonders. ECE@CARE has become a symbol for which showcases excellent placements our academic extracurricular strengths. The major strength of the department is a team of well qualified and dedicated faculties who are continuously supporting the students for their academic excellence. Let us work together for the achievement of our college's goal. I take this opportunity to congratulate our staff editors Mrs.R. Vanitha and Mrs.M.Shivashankari for their great effort to make this news letter as a reality. Also I invite the readers of " for their contribution and suggestions for the forthcoming issues.



THE DEPARTMENT NEWSLETTER

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FEBRUARY 2021

WEBINAR ON VLSI - AN EXPERIENTIAL INSIGHT

Very Large Scale Integration (VLSI) is one of the best option for Electronics engineers who are seeking for a core job. VLSI offers diverse job profiles with excellent career growth and pay high packages in India and abroad. To give exposure about the VLSI field,

of Electronics Department Communication Engineering organized an Online Webinar on "VLSI-An Experiential Insight" on 26/2/2021 by our Resource person Ms.Chitra Sajith. Senior R&D Engineer, IBM. Bangalore. Ms.Chitra Sajith holding US Patent in Circuit Timing methodology. She gave industry exposure and current trending research aspects in VLSI in a short span of time



Department of Electronics and Communication Engineering

Organizes a Webinar on
VLSI - AN
EXPERIENTIAL
INSIGHT

By Chitra Sajith Senior R&D Engineer, IBM, Bangalore.

Feb 26, 2021 3 P.M. Online meeting via Google Meet

Meeting URL

https://meet.google.com/ywt-sphm-nox

E-Certificate will be provided for all participants





MARCH 2021

ECE BUZZ

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MOU WITH M/S TESLA MINDS - A GATEWAY FOR RESEARCH, PATENT, PROJECTS

CARE COLLEGE OF ENGINEERING CARE COLLEGE OF ENGINEERING TESLA MINDS cordially invites you to the MOU SIGNING CEREMONY Time: 10 am Via Google meet Mr. T. JAYANANDAN FOUNDER, TESLA MINDS Dr. S. SHANTHI PRINCIPAL, CARE COLLEGE OF ENGINEERING Convener Coordinator Mrs.M.SHIVA SHANKARI Dr. J. JEYARANI Head of Department / ECE Assistant Professor / ECE

The MoU signing ceremony between CARE & M/S Tesla Minds. Chennai has been signed 29.3.2021 by 10.a.m through Google meet platform in mutual agreed by Principal Dr. S.Shanthi, & Shri. T.Jayanandan, Founder, Tesla in presence of various people headed by Dr. J.Jneyarani. The ceremony started welcome note given bv Dr. J.Jeyarani, HOD/ECE, followed by keynote address which is the delivered by Dr. S.Shanthi. Principal. The MoU benefits were described by Shri. T.Jayanandan wherein both the parties mutually agreed between the policies and ceremony ended with a grand success in hope with bright future and growth towards the technology aspects which will be cherished in near future



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2021

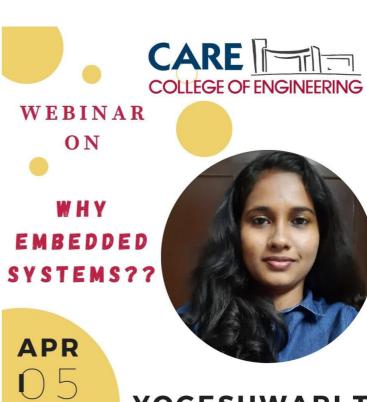
@2PM

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APRIL 2021

What you can do to improve productivityEmbedded systems are one of the most highly paid jobs. Embedded engineers currently in high demand. To give exposure about the embedded Department systems, Electronics and Communication Engineering organized an Online Webinar on "WHY EMBEDDED SYSTEMS" on 5/4/2021 and expert Yogeshwari.T, Firmware Engineer, Digitectura technologies Bangalore. She gave wonderful talk from basic to current technologies in which thev working on. And also motivated the student to work in it. At last she concluded with that "There is no doubt that once you obtain experience of 3-4 years, you will get attractive packages and also experienced Embedded System developers have extremely high demand in India. It was a very fruitful session for the students.

WHY EMBEDDED SYSTEMS? - A CAPTION THAT EYE OPENS THROUGH WEBINAR



YOGESHWARI.T

FIRMWARE ENGINEER **DIGITECTURA TECHNOLOGIES BANGALORE**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

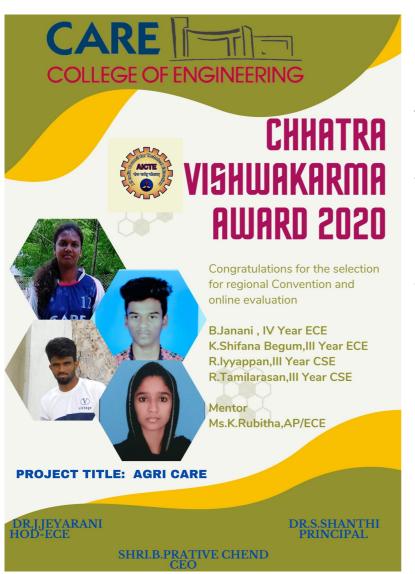


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STUDENT ACHIEVEMENTS IN "CHHATRA VISHWAKARMA AWARD 2020"

APRIL 2021



Students from ECE department were selected to the finals of **Vishwakarma Award 2020** in the project entitled as "AGRI CARE".

The students who bring the proud moment are as follows, **B.Janani**, **IV-ECE**, **K.Shifana Begum**, **III-ECE**. With the proper guidance and tireless efforts the students have achieved this remarkable milestone.



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MAY 2021

Department of Electronics and PATHWAY Communication Engineering and Department of Computer Science engineering, inaugurated the IEEE Student Branch. on 24.05.2021 at 11.A.M through Google Meet.

DR. A.Pasumpon Pandian, Dean R&D delivered the Presidential address, followed by a provoking speech given by Shri. B.Prative CARE Chend. CEO. Group Institutions and Dr. S.Shanthi. Principal, CARE College of Engineering delivered Felicitation address. The chief quest Dr. D.Nirmal, Executive Committee Member, IEEE Madras Section inaugurated the Branch with student his which tremendous speech created more interest to involve the students in upcoming student branch activities. The members of faculty and students were selected in prior in both the department for coordinating the upcoming events.

IEEE STUDENT BRANCH-INAUGURATION- A PLATFORM FOR TECHNICAL





DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

INAUGURATION IEEE STUDENT BRAN

Chief Guest



24 May 2021 @ 11 AM



via Google Meet



Executive Committee Member IEEE Madras Section

Welcome you All...

Shri.B.Prative Chend CARE Group of Institutions

Dr.S.Shanthi Principal CARE College of Engineering



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RECENT TRENDS IN ANTENNA AND MICROWAVE TECHNOLOGY

GUEST SPEAKERS

r.D.Sriram Kumar Professor NIT,Trichy



Mr.V.Sanjay Kumar MS in Electrical Engineering Arizona State University,US



Dr.T.Gunasekaran Program Director University of Technology and Applied Sciences Muscat, Oman



Dr.Immaculate Rosline Assistant Professor, Ramaiah Institute of Technology, Bangalore



1r.T.Jayanandan CEO,Tesla Minds



Dr.V.Rajesh Kumar Associate Professor VIT ,Vellore



r.G.Gandhimathi Professor ichy Engineering College



Ms.P.Geetha Associate Professor P.R.Engineering College, Thanjavur





In Association with www.care.ac.in



STTP ON RECENT TRENDS IN ANTENNA AND MICROWAVE TECHNOLOGY

Department of ECE of CARE College of Engineering organized four days short term training program on "Recent in Antenna and Trends Microwave Technology" during June 06, 2021 to June 10, 2021 in online mode using Google meet. The seminar focused on the research recent issues challenges in 5/6G antenna design and beyond technologies. The dignitaries during the session were Dr.D. Sriram Kumar. Professor, NIT, Trichirappalli who delivered the key note address for inauguration and delivered an enlightening lecture on smart antennas for 5G & beyond applications, Dr.S.Shanthi, Principal CARE College of

Four days of our FDP brochure launched in websites and social media. We restricted the participants so as to accommodate our students and faculty in google meet. We are conducting the program in two links in parallel.

The efforts of all the participants from all over india who made this event a grand success is appreciated.

Special mention to Dr.Ragavan, who supported the event and delivered a keynote in valediction and to Dr.D.Sriram kumar who attended all the sessions to support the entire FDP which places a remarkable milestone in the department history.



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"MACHINE LEARNING VISION ON IOT" - A WEBINAR THAT'S TRENDING

APRIL 2021

Internet of Things generates volumes of data from massive millions of devices. Machine learning is powered by data and generates insight from it. Machine behavior to learning uses past builds identify patterns and models that help predict future behavior and events. On view of this Department of Electronics and Communication Engineering organized a webinar on "Machine learning vision on IOT" invites a buddy entrepreneur busv and Mr.Baranidaran. CEO. Barun solutions, has a strong knowledge on this topic. He gave fantastic speech and give more projects idea to our students and also explained the trending project in this field. Students were very much impressed and asked more queries regarding ML and IOT.



MACHINE LEARNING VISION ON IOT

Chief Guest

BARANIDHARAN GANESAN CEO,BARUN IT SOLUTIONS, TRICHY

Date: 1st April 2021 Time : 3 PM Platform : Google Meet





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ONLINE TEACHING TOOLS - LEARN, SHARE, HERE WE ARE

MAY 2021



Department of Electronics and Communication Engineering



The Department of Electronics and Communication Engineering organized "A Two days online outreach program on Online Teaching Tools" during 17-5-2021 to 18-5-2021 for the school teachers to provoke a sparkle to the beginners towards the digital learning tool with an ambitious goal. department faculty delivered the tools through session wise interaction and the reach of the programme was a grand success with more than 80 participants registration in and around The feedback the city. received from this outreach makes us to move on further stronger for the upliftment $\circ f$ contribution our bringing beneficiary towards the society



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MOU WITH SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING, FUNCTIONING IN NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY

JUNE 2021

To provide industrial exposure to the students and faculty the Memorandum of Understanding (MoU) digital signing ceremony was held on 25th Friday of June month, 2021 between Siemens Centre of Excellence in Manufacturing, functioning in National Institute of Technology, Tiruchirappalli and CARE College of Engineering, Tiruchirappalli.

The meeting started by 2.00 pm with an welcome address of opening remarks given by Dr.D.Sriram Kumar, Head, Siemens Centre, NIT. He stated the needs of industry collaboration with developing colleges which helps the students and faculty to update the platform through emerging technologies.



Next the presidential address was given by Dr.M.Duraiselvan, Dean,Siemens Centre, NIT who strongly clarifies the opportunity in industry 4.0 revolution which represents a new stage in the organization and control of the industrial value chain which reaches the budding engineers. Then Dr.S.Shanthi, Principal, CARE, delivered her address regarding the MoU benefits between the two parties and emerging trends that leads the industry collaboration with our institution to build the engineers to the next level. Then Dr.A.Pasumpon Pandian, Dean R & D , CARE delivered the special address regarding MoU requirements and beneficiaries between the institutions which plays a vital role in moulding the institution to the next higher level.

Finally the MoU signing agreement was accepted by both the parties and ended with vote of thanks delivered by Dr.M.Duraiselvan and CARE faculty members in the meeting.



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MOU WITH VAAYUSASTRA AEROSPACE PRIVATE LIMITED - A MARKABLE JOURNEY



To provide industrial exposure to the students and faculty, the Memorandum of Understanding (MoU) digital signing ceremony was held on 2nd Friday of July month, 2021 between Vaayusastra Aerospace Pvt Ltd, IIT Madras Research Park, Chennai and CARE College of Engineering, Tiruchirappalli.

The meeting started by 2.00 pm with an welcome address of opening remarks given by, Jagadeesh Kanna G, Founder / CEO, Vaayusastra Aerospace Pvt Ltd, IIT Madras Research Park .Chennai.

He explained about an Innovative Concept of Human Engineering services started with a motto of developing young talents through Aero Modelling workshops and science workshops. He stated the needs of the Startup Incubation, Product development, Technical research and Research funding on advanced flying methods.

Dr.S.Shanthi, Principal, CARE College of Engineering delivered the address regarding the MoU benefits between the two parties and emerging trends that leads the industry collaboration with our institution to build the engineers to the next level.



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STUDENTS ACHIEVEMENTS...

JULY 2021

The following students are shortlisted for the Grand finale Smart India **Hackathon 2020** under the topic of "Crop Price forecasting system

- B.Janani -3rd year ECE,
- S.Jaya Prasad-2nd year ECE,
- V.Bala Krishnan-2nd year ECE.
- B.Janani -III rd year

has won second place in paper presentation in Mookambigai College of Engineering, March 19, 2020.

- B.Janani and S.H. Fazulunisha -III Year ECE presented a paper titled on "IoT based smart classroom system" and won second place in Oxford engineering College, Trichy, March 17, 2020.
- P.Adithya , II ECE Completed "Introduction to IOT & EMBEDDED SYSTEMS". in coursera.
- S.Rajarajeswari, II ECE Completed "Introduction to IOT & EMBEDDED SYSTEMS". in coursera.

S.Divyapreeti- IV Year ECE

- 1.Completed certificate course in University of Michigan,in thetitle"Programming for Everybody (Getting Started with Python)"
- 2.Completed certificate course in Google cloud,in the title"IndustrialIoT on Google Cloud Platform"
- 3.Completed certificate course in deep learning.ai"in the title Al For Everyone"
- 4.Completed certificate course in Kennesaw state University in the title "Cybersecurity and the Internet of Things"



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STUDENTS ACHIEVEMENTS...

JULY 2021

B.Janani- Final year ECE

- 1.Completed certificate course in University of California, Irvine in the title the raspberry pi platform and python programming for Raspberry Pi, Introduction to Internet of things and embedded system, Interfacing with raspberry pi, "The Arduino Platform and C Programming", "The Programming for Internet of things project"
- 2.Completed six coursed in Coursera online noncredit specialization "An introduction to programming the internet of Things
- 3.Completed certificate course in Google cloud,in the title "Industrial IoT on Google Cloud Platform"
- 4.Participated in webinar conducted by NITK-STEP in Associationwith PANTECH title "Brain controlled robot design",Brain Controlled Interface"
- 5.Participated in webinar conducted by IRIS Solution on 'Machine Learning overview" on 27th April 2020
- 6.Participated in webinar conducted PANTECH on 14th May 2020 on title "Virtual Reality"
- 7.Participated in webinar hosted by Mount Zion college Engineering, Pudukkottai, in Association with PANTECH on 12th May 2020on title "image processing using python"
- 8.Participate I online course conducted by TCS ion on Carrerr Edge-'Knockdown the Lockdown", from ,30 April 2020 to 03 May 2020
- 9.Completed certificate course in Google Analytics Academy on titled "Google Analytics individual qualification", "Google Analytics for Beginners", "Advance Google Analytics", ""Getting Started with Google Analytics 360","Google Analytics forPower Users","Google Tag Manager Fundamentals","The Fundemental of Digital Marketing"



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JULY 2021

STUDENTS ACHIEVEMENTS...

B.Aarthi - IV Year ECE

- 1.1.Completed certificate course in Google cloud,in the title "Machine Learning for Business Professionals"
- 2.2.Participated in webinar conducted by IRIS Solution on 'Machine Learning overview" on 27th April 2020
- 3.Completed certificate course in Google Analytics Academy on titled "Google Analytics for Beginners", "Advance Google Analytics"

V.DavisChirstle Raj - IV Year ECE

1.1.Participated in National level "E-Quiz on Python Programming "on 31th may 2020

PavithiraMathialagan - IV Year ECE

- 1.Participated in webinar conducted by Mohammed Shatak college of Engineering in Association with PANTECH on 19thMay 2020on title "How the AGRI and IOT Get connected", "Trends and technology on VLSI", "Renewable energy using Matlab", "Virtual Reality"
- 2.Completed certificate course inGoogle AnalyticsAcademy on titled "Google Analytics individual qualification", "Google Analytics for Beginners", "Advance Google Analytics" ""Getting Started with Google Analytics 360", "Google Analytics for Power Users", "Tag Manager Fundamentals"

RehanaFarzana J - IV Year ECE

1.Completed certificate course inGoogle AnalyticsAcademy on titled "Google Analytics for Beginners"

Fazulunisha S H - IV Year ECE

1.Completed certificate course in Google Analytics Academy on titled "Google Analytics for Beginners,"Advance Google Analytics",Google Analytics for Power Users



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FACULTY ACHIEVEMENTS...

JULY 2021

- 1.Ms.R.Vanitha Assistant Professor awarded as "Best Faculty" of the year 2020-2021 in the annual day function
- 2. Department of Electronics and Communication Engineering was awarded as "Best Department" of the year 2020-2021in the annual day function.
- 3.Mr. Sriram Sundar S, AP/ECE, has attended AICTE ATAL one week FDP Programme on "Internet of Things (IoT)" Organized by SASTRA Deemed University from 23-02-2021 to 27-02-2021.
- 4.K.Rubitha, AP/ECE, has attended "AICTE ATAL one week FDP Programme on Photonics" Organized by KSR Institute of Technology from 8.2.2021 to 12.2.2021.
- 5.R.Vanitha, AP/ECE, has attended "AICTE ATAL one week FDP Programme on Photonics" Organized by KSR Institute of Technology from 8.2.2021 to 12.2.2021.
- 6.J. Vinitha, AP/ECE, has attended "AICTE ATAL one week FDP Programme on Photonics" Organized by KSR Institute of Technology from 8.2.2021 to 12.2.2021.
- 7. M.ShivaShankari, AP/ECE, has attended one day webinar on "Challenges in designing Antennas for space Applications" organized by Tesla Minds on 6.3.2021.
- 8. Dr.J.Jeyarani, HOD/ECE, has attended "AICTE Sponsored STTP on Machine learning applications to Internet of things" organized by Velammal College of Engg& Tech from 1.3.2021 to 6.3.2021.



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UPCOMING EVENTS...

UPCOMING MONTHS

AUGUST

- In first week of August An event for School Students/ Technical contest is planned at national level.
- In second week of August, A faculty development programme were planned in IoT stream FDP on "IoT" (in association with MoU Company)
- Also a Placement Training/ Govt Exams Training week is scheduled for the students.

SEPTEMBER

- In first week of the month a guest lecture is planned in signals and systems for II ECE and DSP for III ECE Students.
- In second week a guest lecture from outside is planned on Machine Learning and Artificial Intelligence for all the participants from other colleges
- In the midweek of the month a guest lecture in Antenna and Microwave domain were planned in collaboration with mou partner.
- Also an Inter departmental Cutural Activity programme also being planned for motivating the students in extracurricular events.
- In the last weeks of the month a webinar on Digital Electronics an Overview & Paper Presentation for department students is to be conducted for enhancing their skills.
- Also a gateway for Project Expo (School & Polytechnic Students)
 will be organized for giving them a place of opportunity.



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UPCOMING EVENTS...

JULY 2021

UPCOMING MONTH

OCTOBER

- In first week of October a webinar will be conducted in Adhoc and wirlesss Networks recent research for the final year students.
- In second week alumni meet were planned to get some ideas for the budding students
- In the third week technical events were planned from the association in IEEE student branch.
- Also a guest lecture on embedded systems was planned for final year students.
- A mini project expo was planned to be held in the last week of the month.
- A guest lecture was planned on optical communication to provide the key insights in the subject for the final year students in the month

NOVEMBER

- To give an eye opening for the school teachers and students every year two outreach programmes were planned, which is planned in the first week of this month.
- An industrial visit to siemens centre is planned to give some exposure to the students and faculty.

DECEMBER

- In the first week training on Soft Skills & Govt exam/ GATE Exam preparation week will be given for the students.
- In the second week, A National level Conference was planned for other college participant's.
- In the end of the semester holidays VAC, Internships & Industrial Training (In association with Teslaminds & Siemens centre of excellence) will be organized.



VIRTURAL SYMPOSIUM

MARCH 2021

Department of ECE and Student Association (ECSA) organized National Level Virtual Symposium on 25th March, 2021 for the academic year of 2020-21 through online. The chief guest for the event was Mr.T. Jayanandan, CEO, Tesla minds, Chennai. Ms.Rehana Farzana from IV year ECE and Secretary of ECE has delivered the cordial welcome address. Ms. B. Janani from IV year ECE gave brief about ECSA events for the past one year.

The honorable principal of our institution Dr. S.Shanthi M.E., Ph.D., has given the presidential address. Dr.G.Ramadoss, Dean – Academics and Dr. Ramakrishnan, Dean – Students Affairs delivered the felicitation address and briefs the importance of symposia. Mr.S.Suriya of III ECE introduced our chief guest.

We got 296 registrations, and also we received more than 150 technical papers. We got papers from the people who published patents and many awards. This online platform enabled the participations from Rourkela, Trivandrum and best projects from Maharashtra. We can cherish these memories in future.

Students were participated in various technical events like paper presentation, technical quiz, technical connection and Non- technical events like meme creation, photography and musica were conducted on the same day and in order to encourage their student's skills.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



MAY 2021

2017-2021 BATCH

AWARDED-"THE BEST DEPARTMENT OF 2020-2021"

<u>List of Significant Achievements of the department in the current Academic year</u>

- MoU with TESLA Minds, Chennai
- 3 Students shortlisted for the Grand finale of Smart India Hackathon 2020
- 2 Students shortlisted for the Grand finale of AICTE Vishwakarma Awards 2021
- 2 Students secured second prize in Zonal Level Sports meet conducted at Anna university Trichy
- MOU with Internshala
- CSIR PROPOSAL SUBMITTED on the titel "Future trends in non-invasive methods of sensing
- CSIR PROPOSAL Submitted on the title :Applications of machine learning in
- 5g/6g communications
- Anna university summer FDP : EC 8751 Optical communication
- Proposal Women Enterprenuership development programme



OUR RECRUITERS ARE...

JULY 2021







SYRMA







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