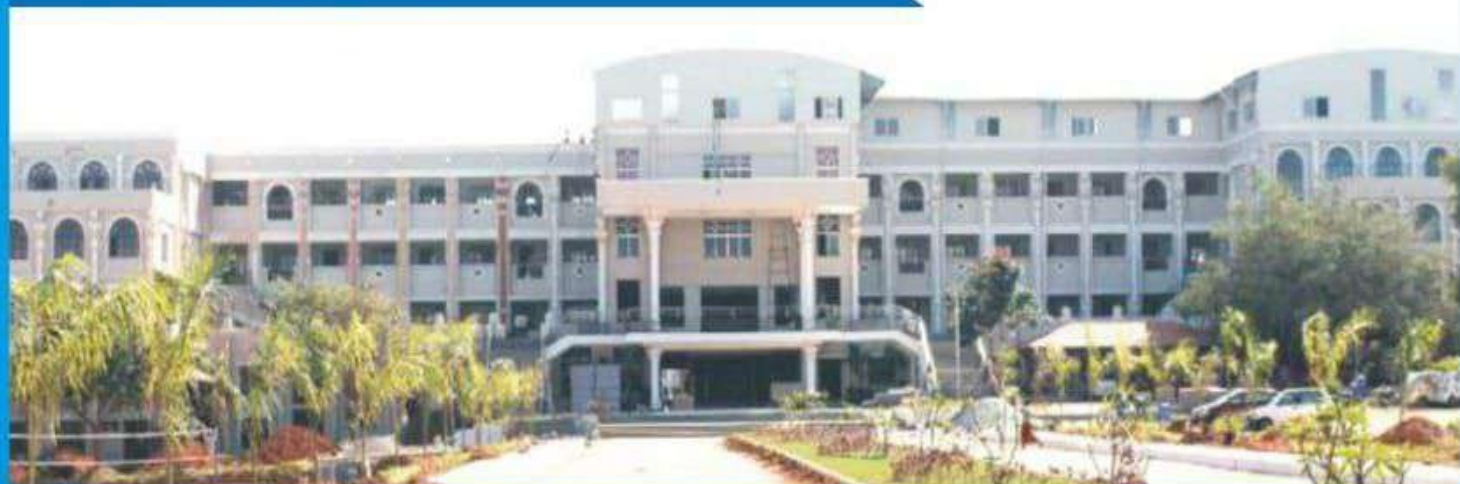Dr.Santhi ECE HOD is presenting

4 Phase Dual Rail

ECE ANNUAL NEWSLETTER 2021

Editors

Mr.E.RAMESHMARIVENDAN AP/ECE
Mr.G.UMAMAHESHWARAN AP/ECE
Mr.R.Seshuraj IV-ECE
Mr.M.Gokulnath III-ECE
Mr.P.Hariprasath II-ECE

INSTITUTION AT A GLANCE

PMC Tech institution was established in the year 1996 by the founder chairman Er.PERUMAL & sponsored by Er.PERUMAL MANIMEKALAI Telugu minority educational and charitable trust situated next to the industrial hub Hosur. The institution is branched with engineering college , polytechnic college ,ITI and matriculation school.

PMC TECH ENGINEERING COLLEGE   AT A GLANCE

Established in the academic year 2002 and 2003 approved and affiliated by AICTE and Anna

university respectively ,the college is inculcating values of education into the young generation attained outstanding results and there by created name for itself in the region as a leading institution.

ABOUT THE DEPARTMENT

Embarked on the PMC Tech engineering college , the Department of Electronics and Communication Engineering has a steady growth in almost all the aspects . On the strength factor, the intake started with 40 seats in 2002, gradually increased to 60 seats in 2004 and 120 seats from 2006 onwards . The department offers a regular four year B.E programme in "Electronics and Communication Engineering" and from June 2012 started two year M.E programme in Applied Electronics"

 The department has well equipped laboratories such as VLSI design , DSP, Microwave, RF Communication system , Microprocessor ,Microcontroller, Linear and digital IC and Electronics Labs .The department has two level quality assessment rating for teaching and also reputation for research, registered tremendous growth in teaching /research and has attained its recognition at National and International levels.

The department with its experienced faculties ensure that the students concerned thoroughly acquire subjects knowledge (hard skills). Simultaneously soft skill training with internal/External team, glimpse of industrial visits, Seminars Workshops etc are provided from time to time and thus students are gainfully employed in reputed organizations.

VISION AND MISSION OF THE INSTITUTE

VISION

PMC TECH strives to achieve excellence in technical education through innovative teaching, learning and applied multidisciplinary research with professional and ethical practices.

MISSION

PMC TECH will endeavor

- To become the state of art teaching and learning centre for Engineering and Technology, Research and Management Studies.
- To have world class infrastructure for providing quality education and research towards creativity, self-discipline and ethical values.
- To associate with industry, R&D and business organizations and to have connectivity with the society.
- To create knowledge based professionals to enrich their quality of life by empowering self and family.

VISION AND MISSION OF THE DEPARTMENT

VISION

To impart excellent technical knowledge in Electronics and Communication Engineering with interdisciplinary and innovative approach to address global and societal needs.

MISSION

M1: To provide quality infrastructure, resources and education in Electronics and Communication Engineering through innovative methods of teaching with practical orientation for a successful career.

M2: To prepare Electronics and Communication Engineering graduates to meet global challenges by implementing Engineering values and quest for modern technologies.

M3: To inculcate leadership qualities among students for self and societal growth.

M4: To develop skills for lifelong learning to solve societal problems.

PEO's

PEO1 : Graduates will have good technical knowledge and skills in Electronics and Communication Engineering for successful careers, higher studies leading to research and innovation.

PEO2: Graduates will work in multi-disciplinary areas to meet contemporary requirements of the industry and society.

PEO3: Graduates will exhibit leadership qualities, ethics with good team spirit, use modern tools a engage themselves in continuous learning

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

PO2 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.

PO3 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.

PO4 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.

PO5 Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6 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.

PO7 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.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 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.

PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering 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.

PSO's:

PSO1: An ability to provide innovative solutions through the knowledge in Electronics Engineering domains namely Embedded, VLSI, Signal Processing and Networking.

PSO2: An ability to take challenges associated with implementations of ad hoc and sensor network applications, RF and antennas.

PSO3: An ability to determine the kinds of tools and equipment needed to do a project in Electronics and Communication engineering as per the requirements of the society.

CHAIRMAN'S MESSAGE

"**Next inimportant to freedom and justice ispopular education, withoutwhich neither freedom nor justice can bepermanently maintained**"

It is the high time to realize your dream which is in the main stream of your professional career and to feel proud to be part of this most prestigious Institution. PMC Tech has a history of more than l0 years. Degree in the technical education like engineering has become the foremost academic qualification for all leading industries. Academicians and Industrialists alike have recognized the value of the degree in the developing challenges of the rapidly changing technical environment. Equip the student with advanced knowledge in the field of Electronics and Communication Engineering as well as professional skills which is necessary to face the challenges of the future. Engineer them to engage in research activities leading to innovative applications of technology for the benefit of mankind. Enable them to become responsible citizens of the country with willingness to serve the society.

SECRETARY'S MESSAGE

"**Education is better safeguard of liberty than a standing army**"

My heart felt compliments to the issue of "Annual ECE NEWS Letter". It is a new way for us to communicate with our constituents - students, college members, alumni and industrial partners. The newsletter reflects the board activities of ECE Dept of our college. True education indeed paves the path for the children to learn new things in a correct manner. It helps them to broaden their perspectives and enrich their knowledge to face the globally competitive era. The Department has a global reach with its wide and strong alumni network. It includes among them Entrepreneurs, Teaching professionals, Managers, Scientists and Administrators at the highest levels in their respective fields. We hope this newsletter will serve as a useful resource as you get to know the department.

TRUSTEE'S MESSAGE

"Education is the manifestation of the perfection which is already inman"

PMC TECH works towards preparing highly qualified team of technocrats not only by making them technically fit as well. Yes, we at PMC Engineering College stress also upon human values and professional ethics besides making them technically sound. Our students find their teachers as role models and believe in posing ethics instead of posing illusion. The Goal of the ECE Department is to impart technical knowledge and expertise to the students in the field of Electronics and Communication Engineering to enable them in understanding the real - world problems and solve them for the betterment of society. We strive for excellence and interaction opportunities with scholars and this is being amply reflected in this fifth issue of annual newsletter. I congratulate the editorial team to come up with issue of annual newsletter PMC ECE newsletter and wish them All the Best.

"Education is not all about studying and getting good marks. It is really a means to discover new things which we don't know about and increase"

An educated person has the ability to differentiate between right and wrong or good and evil. A person becomes perfect with education as he/she is not only gaining something from it, but also contributing to the growth of Nation. Therefore it is the foremost responsibility of a society to educate its citizens and PMC TECH goes a step further by ensuring that its students surmount in their field of studies. This is possible but because of the best efforts of the Department concerned and obviously exhibiting their developmental activities as newsletter is most welcome and my complements to ECEfor instant commencement.

PRINCIPAL'S MESSAGE

"Education is the most powerful weapon which you can use to changethe world"

To educate a student in mind and in morals is the most significant need of the hour. We at PMC TECH provide quality education adhered to discipline that composes every student to realize the self and inspires them to build their career with greater confidence in this ever changing competitive society. PMC TECH ha s a long list of achievements in providing quality education while meeting the basic criteria of affordability, accessibility and quality, " Tell me and I'll forgot, show me and I may not remember, Involve me and I'll understand." I am delighted to know the Electronics and Communication Department has released a newsletter. The initiative by students and faculty members show the attachment and commitment to this Engineering profession. I am sure this newsletter will be a strong resource to the student and researchers and keep them in touch with attachment in this area. I wish all the best and promise all possible support for ECE Department.

HOD'S MESSAGE

**"Education is the key to unlock the golden door of freedom"**

Electronics and Communication Engineering is the branch that deals with designing and testing circuits which use the electromagnetic property of electronics components such as resistors, capacitors, inductors and transistors to achieve a particular functionality. The theoretical, together with the practical content of the course provides a thorough knowledge of the core concepts relating to transmission of signals along the globe. Our aim is to develop young technocrats, ability to solve design oriented problems in electronic circuits, communication systems and signal processing. Electronics and Communication engineers have good employment opportunity in Smart Phones, Microwave, Satellite communication, Telecommunication, Embedded systems, VLSI Design and IT domain.

VIRTUAL NATIONAL CONFERENCE ON RECENT INNOVATION IN VLSI, COMMUNICATION AND SIGNAL PROCESSING (RIVCS 2K21)

On 08th May 2021, Virtual National Conference on Recent Innovation in VLSI, Communication and Signal Processing (RIVCS2K21) was organized by our department

The Chief Guest Dr. Konguvel.E.,Ph.D, Assistant Professor (Sr. Grade), School of Electronics Engineering (SENSE), Vellore Institute of Technology(VIT), Vellore. Er.P.Perumal the Chairman, Smt.P.Mallar the Trustee, Er.P.Kumar the Secretary and Dr.S.Chitra the Principal, of our college , Dr.V.Vijayakumari Hod were present for the Inaugural Function.

In this program, papers from various colleges in Tamilnadu, Karnataka and Andra Pradesh were presented in the area of VLSI Design, Communication System, Digital Signal Processing, Image Processing and Real Time Embedded Systems etc.,
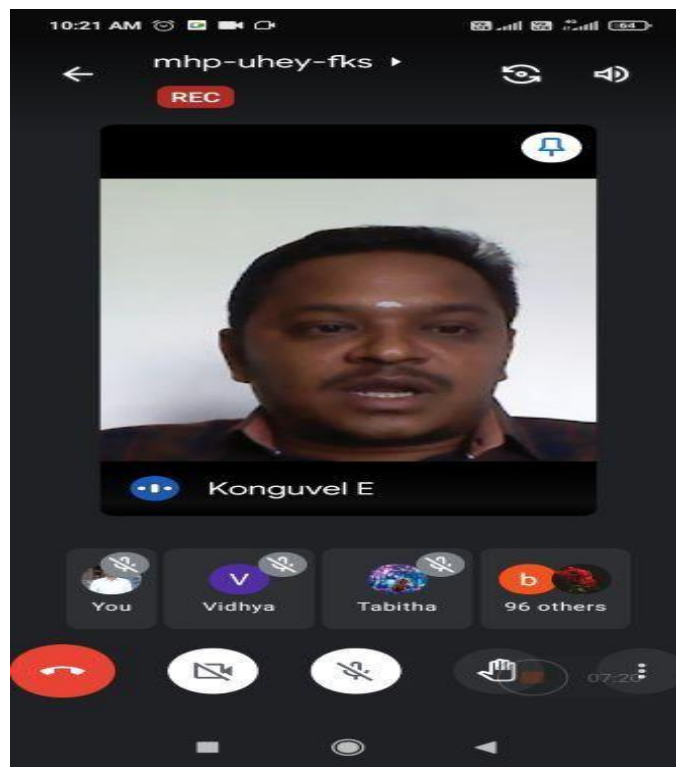
Chief guest Dr. Konguvel.E.,Ph.D, addressing the students "RIVCS 2K21"
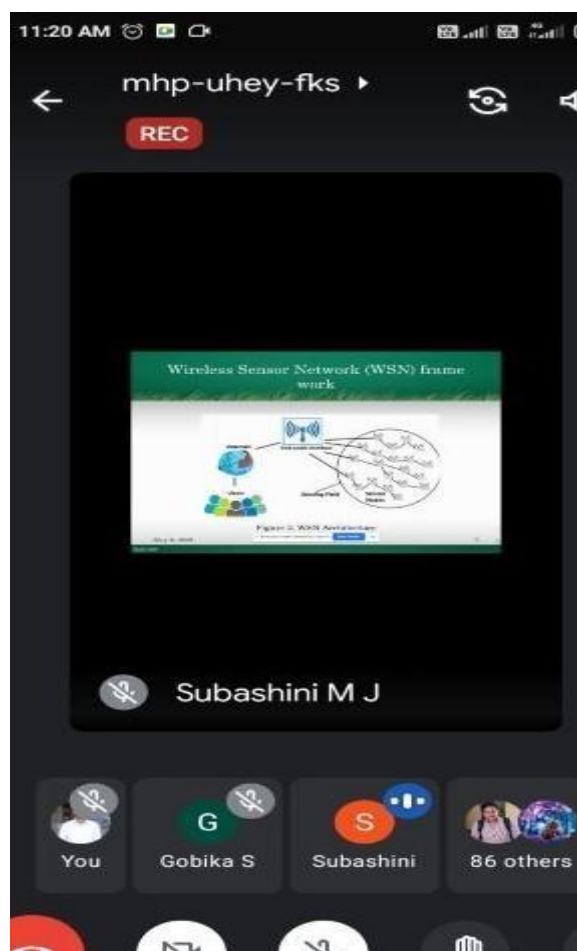
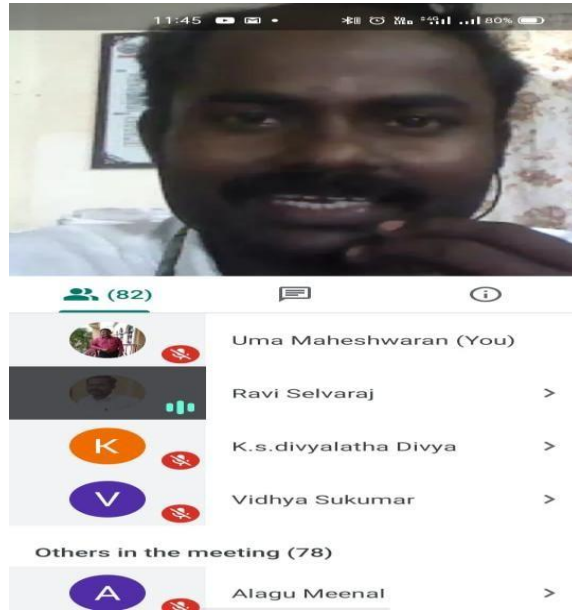**Presentation by the participant "RIVCS 2K21"**

CONFERENCE DETAILS

S.NO	PROGRAMME	CHIEF GUEST	PARTICIPANTS	DATE
1	RIVCS 2K21	Dr. Konguvel. E.,Ph.D Assistant Professor (Sr. Grade), School of Electronics Engineering (SENSE), Vellore Institute of Technology(VIT), Vellore,	Various college students and PMC College Students	08th May 2021

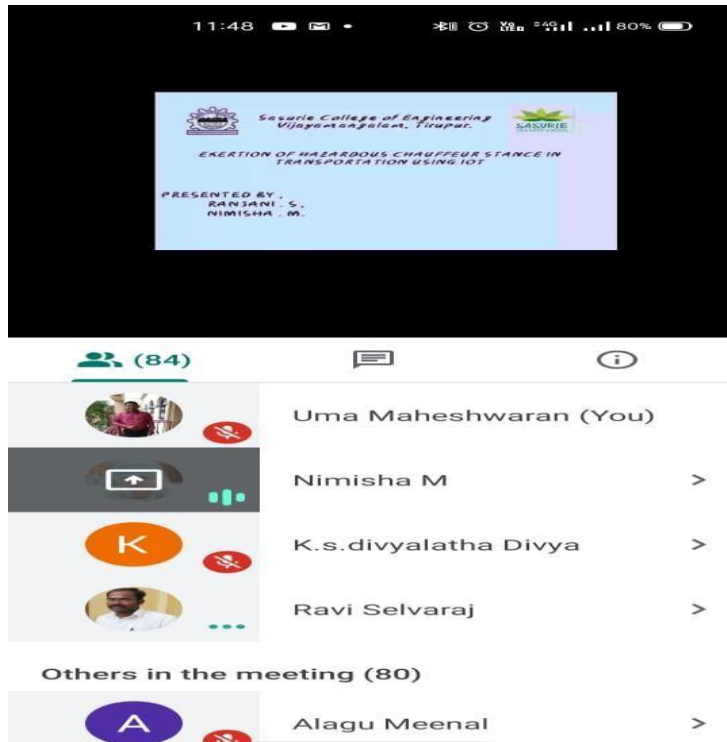## VIRTUAL NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K20

On 07th October 2020 the National Level Technical Symposium ELECTROVISION – 2K20 was organized by our department .

The Chief Guest Dr.S. Ravi, Associate Professor, Gudlavalleru Engineering College, Krishna District, AndhraPradesh,Er.P.Perumal the Chairman, Smt.P.Mallar the Trustee, Er.P.Kumar the Secretary and Dr.S.Chitra the Principal, of our college , Dr.V.Vijayakumari Hod were present for the Inaugural Function.

In this programme, Paper Presentations of various colleges from Tamilnadu, Karnataka and Andra Pradesh were presented in the area of VLSI Design, Communication System, Digital Signal Processing, Image Processing and Real Time Embedded Systems etc.,

Chief guest Dr. Ravi.S, Ph.D, addressing the students "National Level Technical Symposium 2k20"

Presentation by the participant "National Level Technical Symposium 2k20"

<u>**SYMPOSIUM DETAILS**</u>

S.NO	PROGRAMME	CHIEF GUEST	PARTICIPANTS	DATE
1	SYMPOSIUM ELECTROVISION 2K20	Dr.S. Ravi, Associate Professor, Gudlavalleru Engineering College, Krishna District, Andhrapradesh.	Various Other College Students and PMC College Students	07th October 2020

VIRTUAL FACULTY DEVELOPMENT PROGRAMME On "ADVANCES IN VLSI, EMBEDDED AND SIGNAL PROCESSING"

Three days Virtual Faculty Development Programme on "Advances in Vlsi, Embedded and Signal Processing" was organized by ECE department on 04th June 2021, 05th June 2021 and 07th June 2021. In this program, faculties from various colleges from Tamilnadu, kerala and Andra Pradesh were presented . The chief guests shared their knowledge related to recent advancement in the technology .
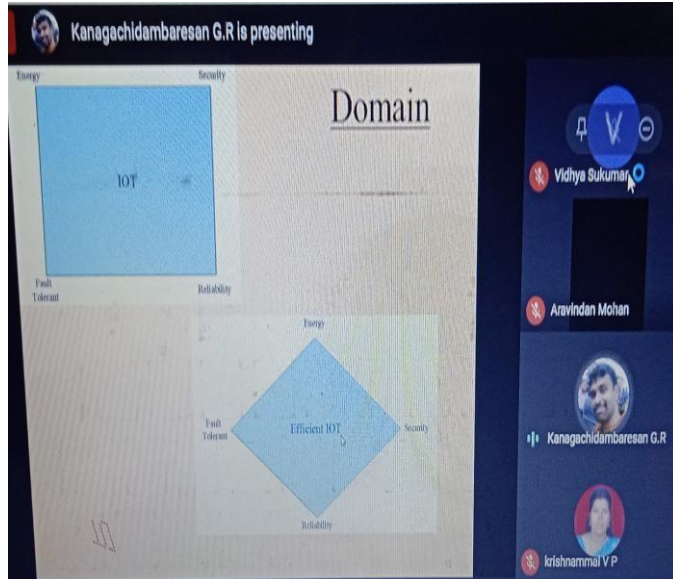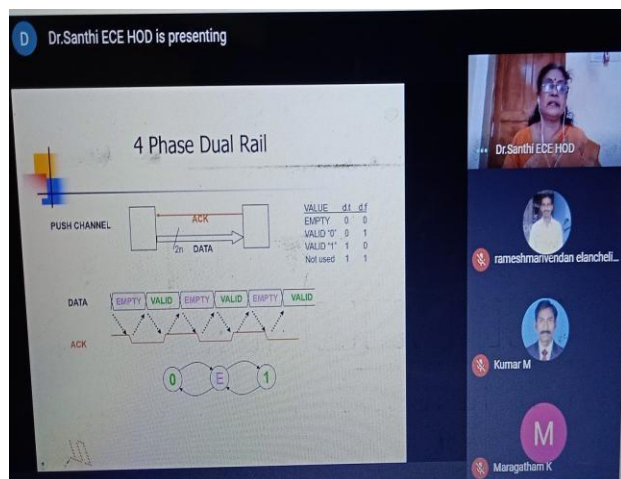

SESSION 01

"Internet of things for Sustainable Development"

Dr.G.R. Kanagachidambaresan
Associate Professor, Department of CSE , Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai.

SESSION 02

"Computer Vision Algorithms for Virtual Reality Applications"

Dr. K.Martin Sagayam
Assistant Professor ,Department of ECE ,Karunya Institute of Technology and Sciences, Coimbatore

SESSION 03

"Asynchronous Techniques in Digital Circuits"

Dr.M.Santhi
Professor & Head, Department of ECE
SaranathanCollege of Engineering, Trichy**.**
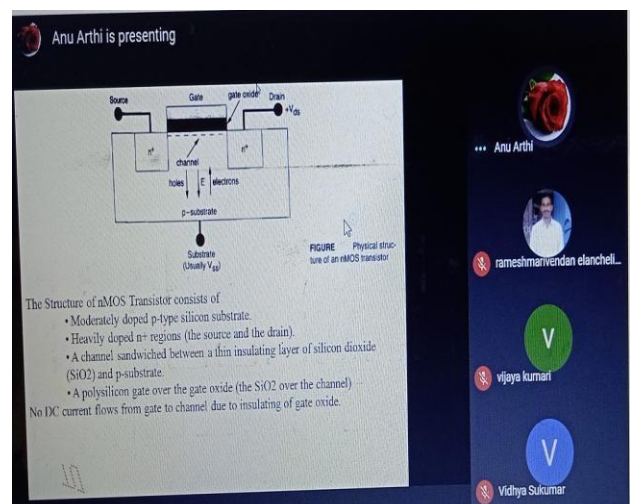
SESSION 04

" Historical Perspective and Future trends in CMOS VLSI Design"

Dr.C.Aarthi ,
Associate Professor& HOD Department of ECE, Sengunthar Engineering College Tiruchengode
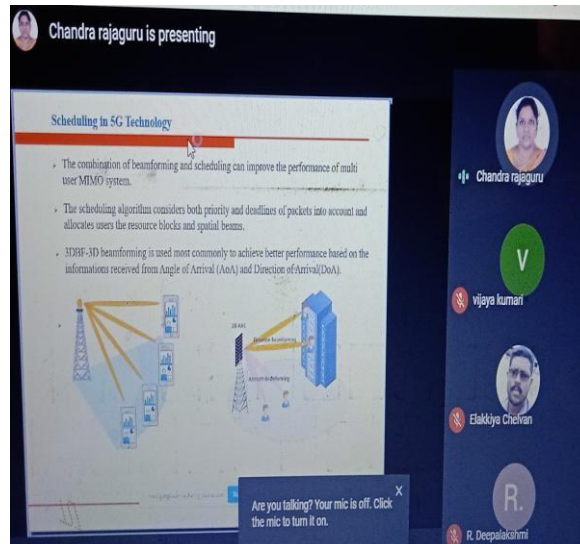
SESSION 05
"Research Challenges in 4G & 5G Technology"

Dr. I. Chandra ,
Professor ,Department of ECE Rajalakshmi
Institute Of Technology**,** Chennai

VIRTUAL ALUMNI CONNECT

 Alumni meet was organized by ECE department on 24th Jan2021 to create a new idea and relationship between current students and alumnis. Some of the alumnis shared their experience and guided the current students about current expectation in the industry to make them industry ready persons.

ADD-ON COURSES

| S.N	PROGRAMME TOPIC	RESOURCE PERSON	PARTICIPANTS	DATE
1	Embedded systems using 8266	Mr. Ejaz Ahmed, Embedded System Engineer, Gustovalley Technovations LLP, Hosur	IV Year ECE Students	12th September 2020 & 13th September 2020
2	PCB designing and Mobile Circuits	Mr. B.Krishnakumar, Managing Director, New Technology, Coimbatore.	IIYear ECE Students	18th September 2020 & 19th September 2020
3	Industrial Applications of Python	Dr. Cyril Prasanna Raj P. M.Tech, Ph.D, Director, Sanarys Pvt Ltd, Bangalore.	III Year ECE Students	25th September 2020 & 26th September 2020
4	Digital Image Processing	Mr.Avinash, Product Developer –Digital Image Processing, Gustovalley TechnovationsLLP, Hosur,	IV Year ECE Students	22rd march2021. & 03rd April 2021
5	Aurdino tools with IOT	Mr. Ejaz Ahmed, Embedded System Engineer, Gustovalley TechnovationsLLP, Hosur,	II Year ECE Students	10th May2021

1. Add-On course on "Embedded systems using 8266" – 12.09.2020 & 13.09.2020

Two days Add-on course on "Embedded systems using 8266" was conducted on 12th September 2020 and 13th September 2020 .The *Add-On course* is using embedded kit 8266 . Around 65 students of ECE IVth year participated in this program. We have invited the resource person Mr. Ejaz Ahmed,Embedded System Engineer, Gustovalley Technovations LLP, Hosur.
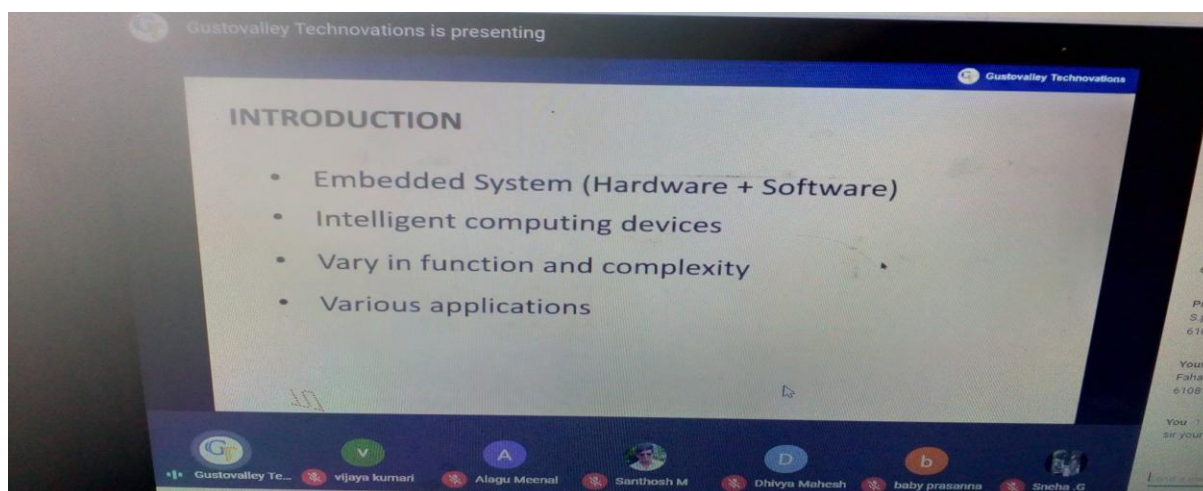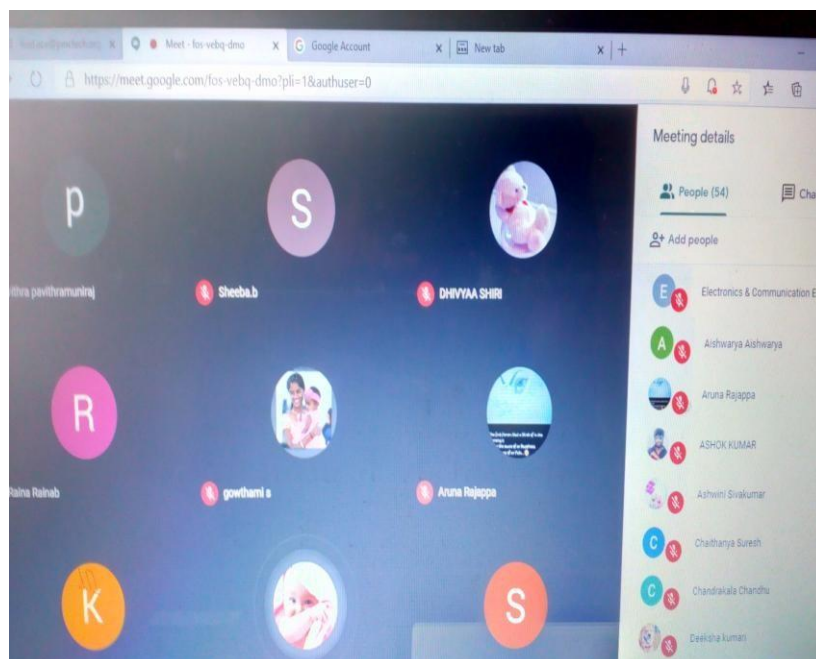
Add-On Course on "Embedded systems using 8266"

2. Add-On course on "PCB designing and Mobile Circuits" – 18.09.2020 & 19.09.2020

Two days *add-On course* **on** *"PCB designing and Mobile Circuits"* **was conducted on 18th September 2020 and 19th September 2020. The session is about PCB designing and mobile circuits trouble shooting .Around 55 students of ECE II year had participated in this program. We have invited the resource person Mr. B.Krishnakumar, Managing Director, New Technology, Coimbatore.**

Add-On course **on** *"PCB designing and Mobile Circuits"*

3. Add-On course on "Industrial Applications of Python" – 25.09.2020 & 26.09.2020

Two days *add-On course* **on** *"Industrial Applications of Python"* **was conducted on 25th September 2020 and 26th September 2020. The addon course is about applications of python in the industry Around 62 students of ECE III year had participated in this program. We have invited the resource person Dr. Cyril Prasanna Raj P. M.Tech, Ph.D,Director, Sanarys Pvt Ltd,Bangalore**
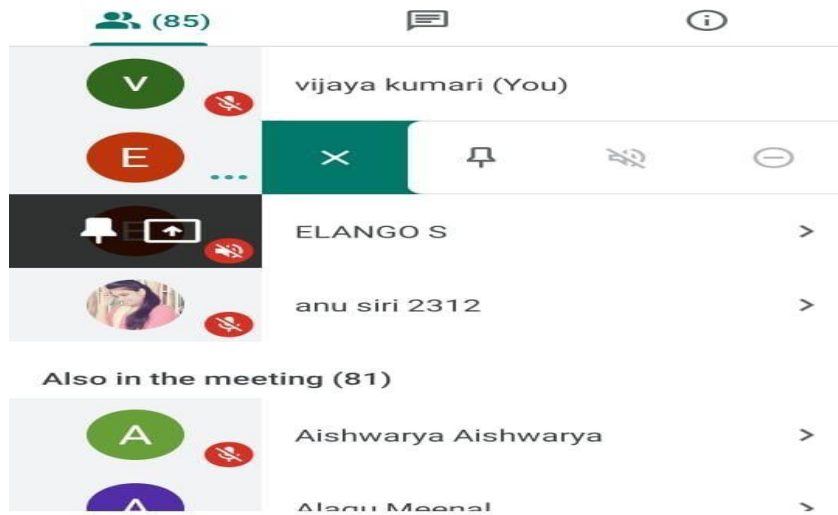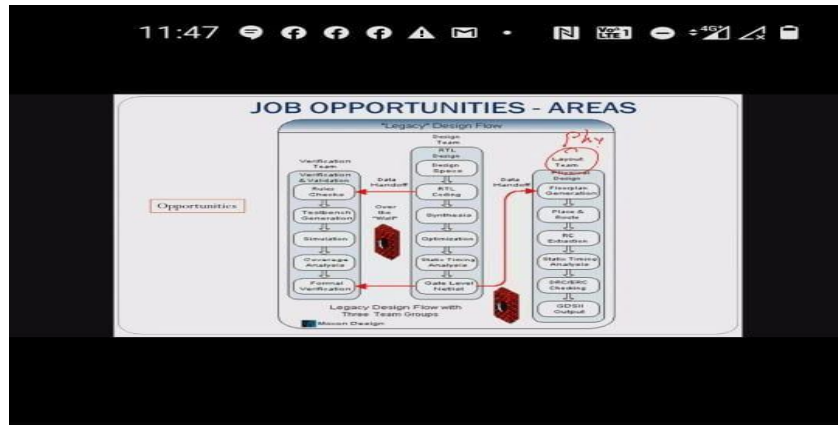
Add-On course **on** *"Industrial Applications of Python"*

4. Add-On course on "Digital Image Processing" – 22.03.2021 & 03.04.2021

Two days *add-On course* **on** *"Digital Image Processing"* **was conducted on 22nd March 2021 and 03rd April 2021. The addon course is about the tools used in Digital Image Processing. Around 78 students of ECE IV year had participated in this program. We have invited the resource person Mr.Avinash,**

Product Developer –Digital Image Processing, Gustovalley Technovations LLP, Hosur.

Add-On course **on** *"Digital Image Processing"*

5. Add-On course on "Aurdino tools with IOT" – 10.05.2021

 One day *add-On course* on "*Aurdino tools with IOT*" was conducted on 10th May 2021 .The addon course is about using aurdino board for IoT applications. Around 52 students of ECE IInd year had participated in this program. We have invited the resource person Mr. Ejaz Ahmed, Embedded System Engineer ,Gustovalley Technovations LLP, Hosur.

Add-On course **on "***Aurdino tools with IOT***"**

WEBINARS

S.N	PROGRAMME TOPIC	RESOURCE PERSON	PARTICIPANTS	DATE
1	Embedded Skill Development	Mr. Javad Baig. D, Embedded Engineer, Edgate Technologies, Texas Instruments University Program, Bangalore	IV Year ECE Students	14th August 2020
2	VLSI EDA Tool & Implementation Methodology	Mr.S.Ellango M.E, (Ph.D), Assistant Professor, Bannari Amman Institute of Technology Sathiyamangalam	III & IVYear ECE Students	17th August 2020
3	Introduction to 5G Technologies	Dr. K.C. Sriharipriya M.E., Ph.D, PDF, Associate Professor, SENSE, Vellore Institute of Technology, Vellore	III Year ECE Students	29th August 2020
4	Digital Circuits	Dr.S.Ravi Ph.d, Associate Professor, Gudlavalleru Engineering College Krishna District, Andhrapradesh	II Year ECE Students	01st October 2020
5	Security of Wireless Networks	Dr.R.Sudarmani Ph.D., Associate Professor, Department of ECE, Avinashilingam University, Coimbatore	III Year ECE Students	14th March2021

6	Trends in wireless Communication	Dr.Kamalraj Subramaniam Ph.D., Head of the Department, Department of Biomedical Engineering,, Karpagam Academy of Higher Education, Coimbatore.	III Year ECE Students	20th March2021
7	Applications of integrated circuits	Mr.G.Jaisarathy, Embedded Engineer, One yes Technology, Chennai.	II ,III & IV Year ECE Students	03rd May 2021
8	Advancement in microprocessor and microcontroller	Mr.B.Lingeswaran, Senior Project Trainner, Indian Institute of Hardware Technology, Bangalore	III Year ECE Students	04th May 2021
9	Electromagnetic sensors	Dr.P.Rajasekar, Professor, Department of ECE, Narayana Engineering College, Gudur,Andrapradesh.	II Year ECE Students	08th May 2021
10	Recent technology in image processing	Ms. P. V. Ashwathy Devraj M.E,(Ph.D), Assistant Professor, Department of Computer Science and Engineering, Karpagam College of Engineering, Coimbatore.	II & IV Year ECE Students	12th May 2021
11	Applications of Communication systems	Dr. V. Dinesh Ph.D, Associate Professor, Department of ECE, Kongu Engineering College Perundurai,Erode.	II Year ECE Students	21st May 2021
12	Application of VLSI circuits using ASIC GUI	Dr.C.Aarthi M.E., Ph.D, Associate Professor & HOD Department of ECE, Sengunthar Engineering College Tircuchengode.	III Year ECE Students	31st May 2021

*1.Webinar on "Embedded Skill Development " – 14.08.2020*

Webinar on "*Embedded Skill Development* " was conducted on 14th August 2020 .It was about various developments in emdedded systems. Around 102 students of ECE IVth year had participated in this program. We have invited the resource person   Mr. Javad Baig. D, Embedded Engineer, Edgate Technologies, Texas Instruments University Program ,Bangalore
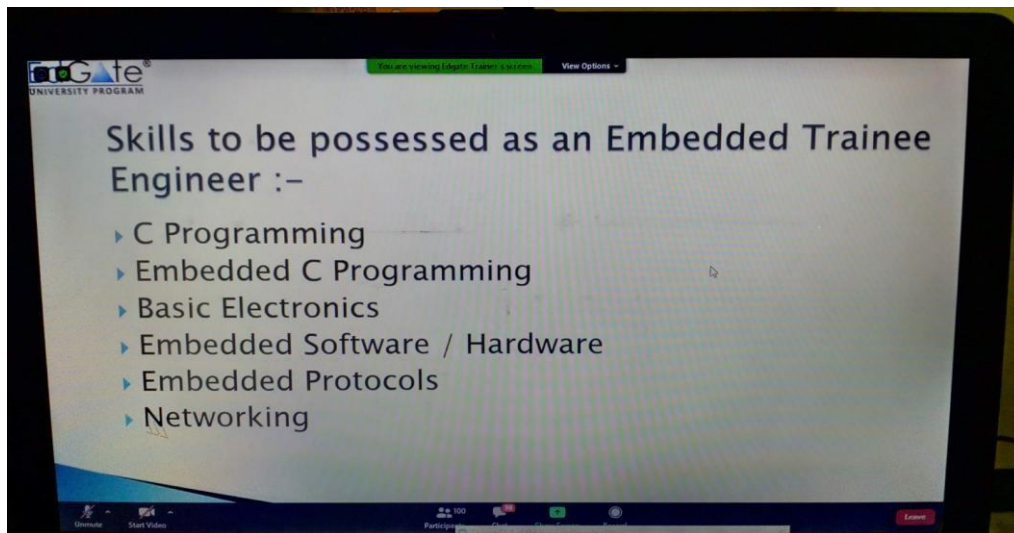
Webinar on "*Embedded Skill Development* "

2.Webinar on "VLSI EDA Tool & Implementation Methodology" – 17.08.2020

Webinar on "*VLSI EDA Tool & Implementation Methodology*" was conducted on 17th August 2020 .It was about vlsi software tools. Around 107 students of ECE IIIrd & IVth year had participated in this program. We have invited the resource person   Mr.S.Ellango M.E, (Ph.D), Assistant Professor, Bannari Amman Institute of Technology,Sathiyamangalam
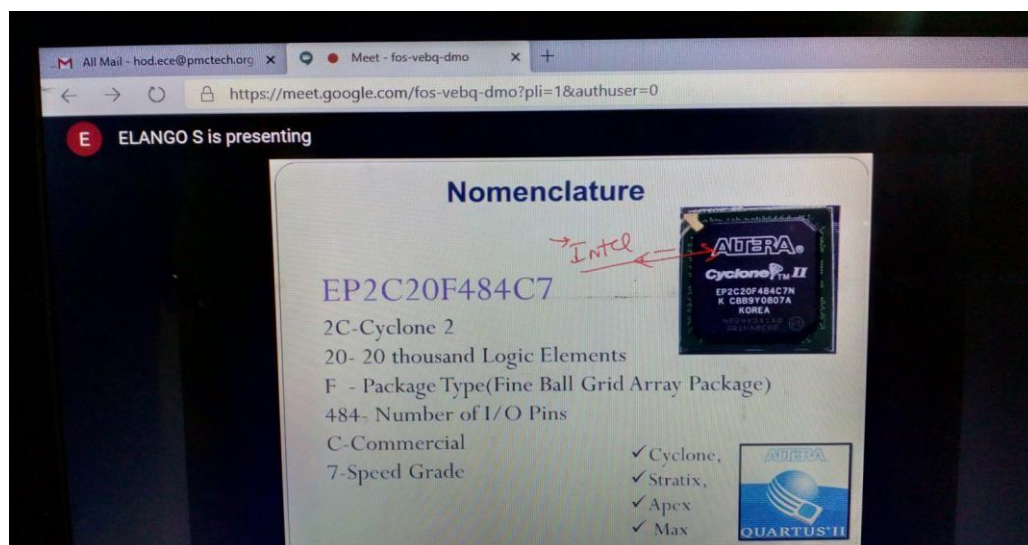
Webinar on "*VLSI EDA Tool & Implementation Methodology*"

3.Webinar on "Introduction to 5G Technologies" – 29.08.2020

Webinar on "*Introduction to 5G Technologies*" was conducted on 29th August 2020 .It was about upcoming 5G technology. Around 73 students of ECE IIIrd year had participated in this program. We have invited the resource Dr. K.C. Sriharipriya M.E., Ph.D, PDF, Associate Professor, SENSE, Vellore Institute of Technology, Vellore
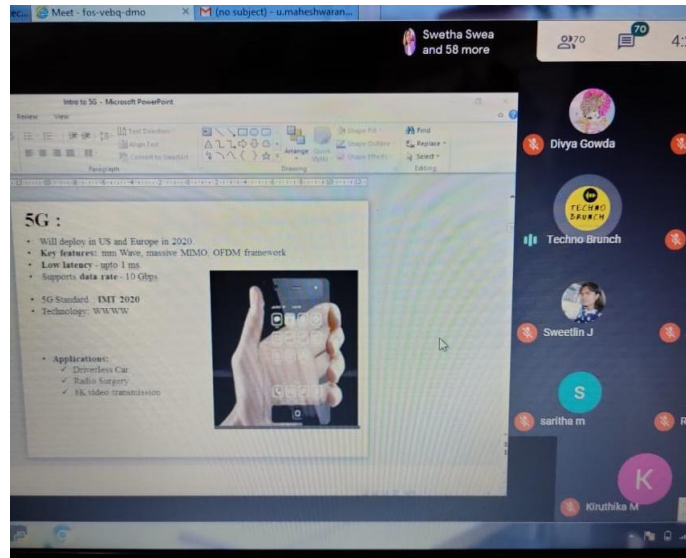
Webinar on *"Introduction to 5G Technologies"*

4.Webinar on "Digital Circuits" – 01.10.2020

Webinar on *"Digital Circuits"* was conducted on 01st October 2020 .It was about applications of digital circuits . Around 35 students of ECE IInd year had participated in this program. We have invited the resource Dr.S.Ravi Ph.d, Associate Professor, Gudlavalleru Engineering College Krishna District, Andhrapradesh
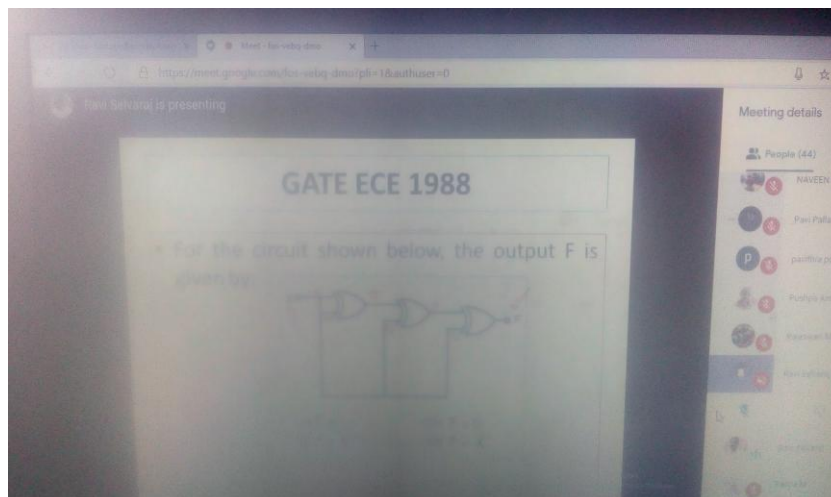
Webinar on *"Digital Circuits"*

5.Webinar on "Security of Wireless Networks" – 14.03.2021

Webinar on *"Security of Wireless Networks"* was conducted on 14th March 2021 .It was about applications of digital circuits . Around 73 students of ECE IIIrd year had participated in this program. We have invited the resource Dr.R.Sudarmani Ph.D., Associate Professor, Department of ECE, Avinashilingam University, Coimbatore.

Webinar on "*Security of Wireless Networks*"

6.Webinar on "Trends in wireless communication" – 20.03.2021

Webinar on "*Trends in wireless communication*" was conducted on 20th March 2021 .It was about applications of digital circuits . Around 73 students of ECE IIIrd year had participated in this program. We have invited the resource Dr.Kamalraj Subramaniam Ph.D., Head of the Department, Department of Biomedical Engineering, Karpagam Academy of Higher Education,Coimbatore.

Webinar on "*Trends in wireless communication*"

7.Webinar on "Applications of integrated circuits" – 03.05.2021

Webinar on "*Applications of integrated circuits*" was conducted on 03rd May 2021 .It was about applications of digital circuits . Around 90 students of ECE IInd ,IIIrd and IVth year had participated in this program. We have invited the resource Mr.G.Jaisarathy, Embedded Engineer, One yes Technology, Chennai.
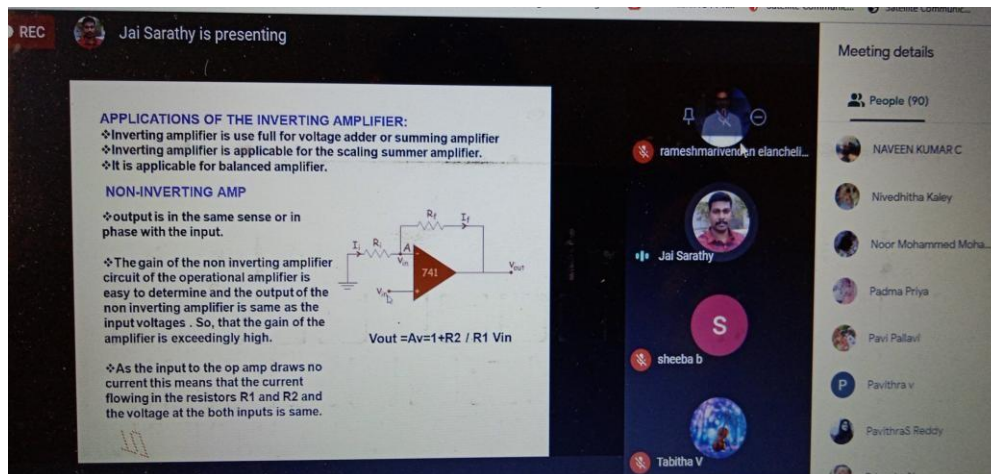
Webinar on "*Applications of integrated circuits*"

8.Webinar on "Advancement in microprocessor and microcontroller" – 04.05.2021

Webinar on "*Advancement in microprocessor and microcontroller*" was conducted on 04th May 2021 It was about advancements and applications of microprocessors and microcontrollers . Around 55 students of ECE IIIrd year had participated in this program. We have invited the resource Mr.B.Lingeswaran, Senior Project Trainner, Indian Institute of Hardware Technology, Bangalore

Webinar on "*Advancement in microprocessor and microcontroller*"

9.Webinar on "Electromagnetic sensors " – 08.05.2021

Webinar on "*Electromagnetic sensors* " was conducted on 08th May 2021 It was about various sensors using electro magnets . Around 58 students of ECE IInd year had participated in this program. We have invited the resource Dr.P.Rajasekar, Professor, Department of ECE, Narayana Engineering College, Gudur, Andrapradesh
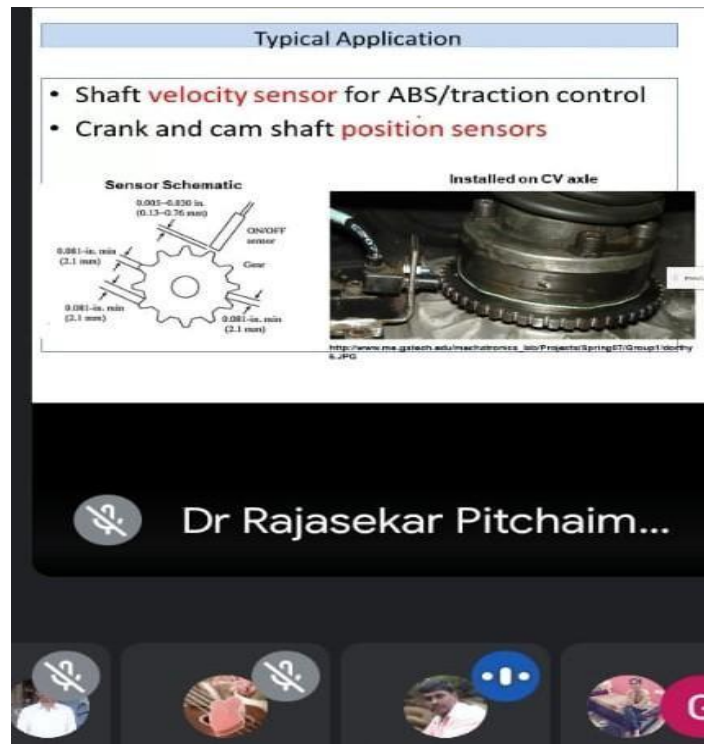
Webinar **on** *"Electromagnetic sensors"*

10.Webinar on "Recent technology in image processing" – 12.05.2021

Webinar on *"Recent technology in image processing"* was conducted on 12th May 2021 It was about image processing techniques used in various fields . Around 122 students of ECE IInd and IVth year had participated in this program. We have invited the Ms. P. V. Ashwathy Devraj M.E, (Ph.D), Assistant Professor, Department of Computer Science and Engineering, Karpagam College of Engineering, Coimbatore
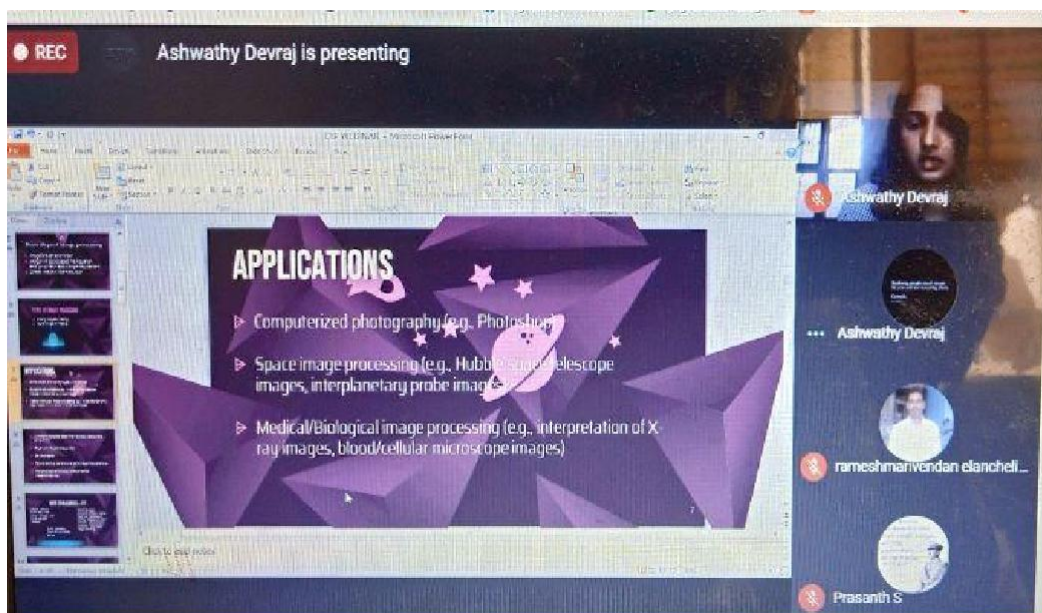
Webinar **on** *"Recent technology in image processing"*

11.Webinar on "Applications of Communication systems" – 21.05.2021

Webinar on "*Applications of Communication systems*" was conducted on 21st May 2021 It was about applications of communication systems in various fields . Around 56 students of ECE IInd year had participated in this program.We have invited the Dr. V. Dinesh Ph.D, Associate Professor, Department of ECE, Kongu Engineering College, Perundurai, Erode

Webinar on "*Applications of Communication systems*"

12.Webinar on "Application of VLSI circuits using ASIC GUI" – 31.05.2021

Webinar on "*Application of VLSI circuits using ASIC GUI*" was conducted on 31st May 2021 It was about ASIC . Around 53 students of ECE IIIrd year had participated in this program. We have invited the Dr.C.Aarthi M.E., Ph.D, Associate Professor & HOD, Department of ECE, Sengunthar Engineering College, Tircuchengode.
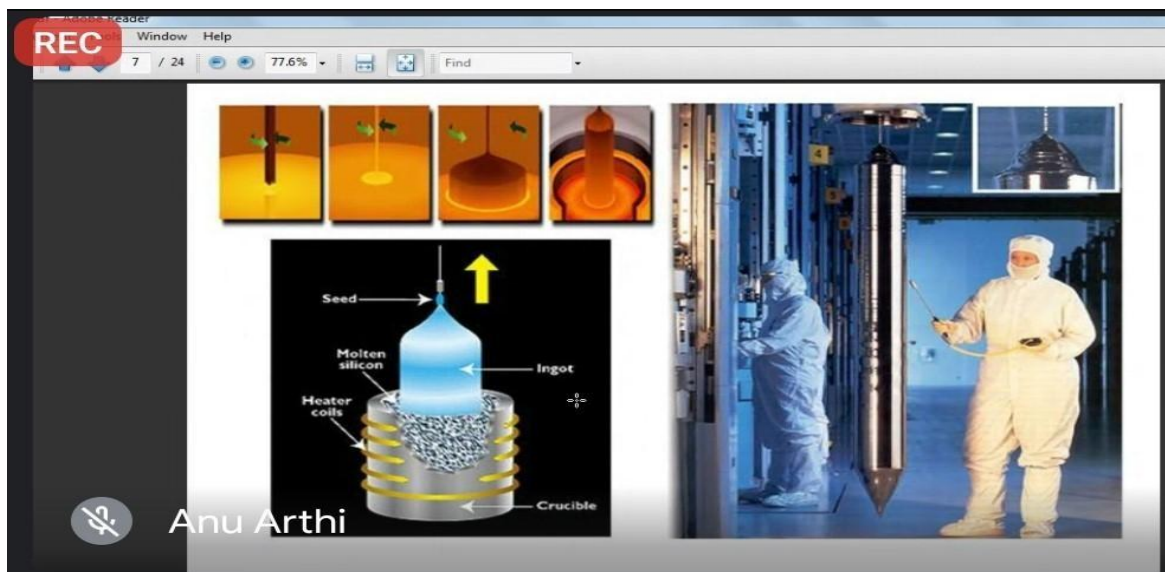
Webinar on "*Application of VLSI circuits using ASIC GUI*"

GUEST LECTURE

S.NO	PROGRAMME	CHIEF GUEST	PARTICIPANTS	DATE
1	Linear Integrated Circuits	Dr. J. Mohanraj Ph.D, Associate Professor, Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.	II Year ECE Students	20th May 2021

1. Guest Lecture on "Linear Integrated Circuits" – 20.05.2021

Guest Lecture on "*Linear Integrated Circuits*" was conducted on 20th May 2021 . Around 53 students of ECE IInd year had participated in this program. We have invited the Dr. J. Mohanraj Ph.D, Associate Professor,Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

Guest Lecture on "Linear Integrated Circuits"

MEMORANDIUM OF UNDERSTANDING (MOU)

The ECE Department of PMCTECH made MOU with SANARYS Private Limited, Bangalore, for providing

Workshops, Seminars, add on courses and training programs

PROFESSIONAL BODIES

THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERING	**INDIAN SOCIETY FOR TECHNICAL EDUCATION**

FACULTY ACTIVITIES

BOOK PUBLICATION

S. No	Author Name	Name of the Book/Chapter	Details of Publication	Year
1.	Mr.M.Kumar	**Micro Controller Based System Design** (ISBN: 978-93-86590-14-5)	Sri Krishna Hitech publishing company private limited	First edition june2017 Second edition Jan2021

JOURNAL PUBLICATIONS

S.No	Faculty Name	Title of the Publication	Publisher	Year
1	Dr. V. Vijayakumari	Aadhaar Enabled Patient Monitoring Using IOT	International Journal of Multidisciplinary Educational Research	2021
		Smart Monitoring of Electrical Parameters Using Clustering Mechanism Based On Battery Threshold And Fuzzy Logic	Journal of Electrical Engineering	2021
		Home Security Based on Face Detection And Recognition Using Labview	Journal of Huazhong University of Science and Technolog Vol:50,issue :03	March 2021
2	Mr.E.Rameshmarivendan	An Efficient Patient Health Monitoring System Using IOT For Health Care Applications	Waffen-Und Kostumkunde Journal Vol .11 Issue.08,	August2020

S.N	Name of the faculty	Title of the program	Journal	Date
			Pages 219 -222	
		The Effect of Stop Word Removal and Stemming In Data preprocessing	Annals of the Romanian Society for Cell Biology Vol .25 Issue.06, Pages 739-746	May2021
3	Ms.Merline Magrina M	Recognition of Ancient Tamil Characters from Epigraphical Inscriptions using Raspberry Pi based Tesseract OCR	International Journal of Scientific Research in Computer Science, Engineering & Information Technology, Vol .07 Issue.02, Pages 118-127	April 2021
4	Mr.P.Sudarsan	IoT-based Entrance for COVID-19 Indoor Safety Monitoring	International Journal of Research and Analytical Reviews,Vol.08 issue 02, Pages: 451-455	June2021
5	Mr.G.Umamaheshwaran	Analysis of cepstral and linear prediction in various speech signal	International Research Journal of Engineering and Technology	2021

FACULTY PARTICIPATION IN WORKSHOP/FDP/STTP

S.N	Name of the faculty	Title of the program	Date	No.of.days	organized by
1	Dr.V.Vijayakumari	FDP -Recent trends in circuit and communication	19.02.21 – 23.-2.21	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
		Orientation program on Integration of pedagogical strategies with ICT for transformation of engineering Education	25.02.21 – 03.-03.21	7	PSG Institute of Technology and Applied Research,Coimbatore.
		Artificial Intelligence and its Global	15-03-2021 - 20-03-2021	6	Department of Computer Science ,University of

		Applications			Kerala
		Workshop on NAAC Assessment Accreditation a step by step process FDP on Recent Trends In Digital Image Processing	27-05-2021 – 29.05.2021	3	Chadalawada Ramanamma Engineering College, Andhrapradesh.
		FDP on "Recent Trends In Digital Image Processing	07-06-2021 - 11.-06-2021	5	Poornima Institute of Engineering & Technology
2	Mrs.S.Vidhya	FDP -How teachers can make a difference	15.06.2020 - 19.06.2020	5	Rajalakshmi Engineering college,Chennai and AICTEMargdarshan
		FDP -7 Qc tools for education excellence	22.06.2020 - 26.06.2020	5	QCFI,Rajalakshmi Engineering college,Chennai and AICTE Margdarshan
		FDP -Recent trends in circuit and communication	19.02.2021 - 23.-02.2021	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
3	Mr.E.Rameshmarivendan	FDP -Real-Time IoT Applications using Node MCU and Raspberry Pi Controllers	25.01.21 - 30.01.21	4	Department of ECE,Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, chennai
		FDP -Recent trends in circuit and communication	19.02.21 - 23.-2.21	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
		FDP -Signal Processing Systems & Optical Communication	17.05.2021 - 21.05.2021	5	Department of Electronics and Communication Engineering, SRM Valliammai

				Engineering College,Chennai
		FDP –Recent Research Trends in Communication Engineering	24.05.2021- 28 .05.2021	5	Indra Ganesan College of Engineering ,Trichy.
		FDP -PHP and MY SQL	18.06.20 - 24.06.20	7	Department of CSE ,V.K.R, V.N.B & A.G.K College of Engineering, Gudivada, Andhra Pradesh. And in associatin with STP, IIT ,Bombay
4	Ms.Merline Magrina	FDP -Recent Trends in ECE	13.07.20 - 18.07.20	7	Department of ECE , Balaji institute of Technolgy and Science, Warangal,Telangana
		FDP -AI, ML and Datascience	17.07.2020 - 19.07.2020	3	Department of CSE,Visvesvaraya College of Engineering and Technology ,Rangareddy ,Telagana
		FDP -Block chain and cyber security	09.07.2020 - 12.07.2020	4	Department of CSE, Vikas group of Institutions ,Krishna ,AP And Association with Trylogic
		FDP -Recent trends in circuit and communication	19.02.21 - 23.-2.21	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
		FDP -Signal Processing Systems & Optical Communication	17.05.2021 - 21.05.2021	5	Department of Electronics and Communication Engineering, SRM Valliammai Engineering College,Chennai

		FDP –Recent Research Trends in Communication Engineering	24.05.2021-28 .05.2021	5	Indra Ganesan College of Engineering ,Trichy.
		FDP –Recent Research Trends in Computing	31.05.2021-04 .06.2021	5	Indra Ganesan College of Engineering ,Trichy.
		Emerging research opportunities in electrical engineering	11.06.2020 - 13.06.2020	3	Department of EEE,J.B. institute of Engineering and Technology,Hyderbad.
5	Mr.S.Prasannavenkatesan	FDP -Recent trends in circuit and communication	19.02.21 - 23.-2.21	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
		FDP -Cyber security technique and tools	15.06.2020 - 19.06.2020	5	Department of I.T ,sri Sairam Engineering college,Chennai
6	Mr.M.Kumar	FDP -Recent trends in circuit and communication	19.02.21 - 23.-2.21	5	Department of ECE,Jaipur Engineering College and Research Center.Jaipur
		FDP -Real-Time IoT Applications using Node MCU and Raspberry Pi Controllers	25.01.21 - 30.01.21	4	Department of ECE,Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, chennai
		STTP on FPGA based Digital system design with HDL	03.05.2021 - 08.05.2021	6	Department of ECE,Vel Tech Multi Tech Dr.Rangarajan Dr.Sagunthala Engineering College chennai
		FDP -Signal Processing Systems & Optical Communication	17.05.2021 - 21.05.2021	5	Department of Electronics and Communication Engineering, SRM Valliammai Engineering College,Chennai

		FDP –Recent Research Trends in Communication Engineering	24.05.2021- 28 .05.2021	5	Indra Ganesan College of Engineering ,Trichy.
7	Mrs.S.Geetha	FDP -Internet of Things	24.08.20 - 28.08.20	5	PowerTraining Institute,Neiveli and Sponsored by AICTE
		Workshop on Data Analytics with NLP for health Care Applications	08.02.2021 - 12.02.2021	4	Mepco Schlenk Engi neering College
		FDP on Modern Techniques for Wireless Communication	17.05.2021- 21.05.2021	5	Madhav Institute of Technology & Science, Gwalior.
8	Mr.Umamaheshwaran. G	FDP –Internet of Things	19.02.2021 25.02.2021	6	Motilal Nehru Govt. Polytechnic college ,Pondicherry.
		FDP –Recent Research Trends in Communication Engineering	24.05.2021- 28 .05.2021	5	Indra Ganesan College of Engineering ,Trichy .
		FDP - Embedding AI in Smart Sensors"	07.06.2021 - 11.06.2021	5	Sri Ramakrishna Engineering College.
		FDP -Signal Processing Systems & Optical Communication	17.05.2021 - 21.05.2021	5	Department of Electronics and Communication Engineering, SRM Valliammai Engineering College,Chennai
9	Mr.P.Sudarsan	STTP - Emerging Trends and Research Challenges in Next Generation Wireless Networks	15.03.2021 to 20.03.2021	6	Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy
		FDP -Recent Trends and opportunities for	24.05.2021 - 28 .05.2021	5	Goa College of Engineering

		Research in Electronics and Computer Science Engineering			

FACULTY PARTICIPATION IN CONFERENCE

S.N	Name of the faculty	Title of the event and paper	Date	No.of.days	organized by
1	Mr.S.Prasannavenkatesan	7th International eConfernce on Latetest trends in science ,Engineeering and Technology " ATM security withFace Recoginzation"	26.03.2021 27.03.2021	2	Karpagam Institute of Technology, Coimbatore
		International eConfernce on Recent Developments in,Engineeering and Technology "ATM security withFace Recoginzation"	03.04.2021	1	Dhaanish Ahmed Institute of Technology ,Coimbatore.
2	Mrs.S. Geetha	International eConfernce on Recent Developments in,Engineeering and Technology " Automatic attendance register using face Recoginzation"	03.04.2021	1	Dhaanish Ahmed Institute of Technology ,Coimbatore.

3	Mrs.S.Vidhya		7th International eConfernce on Latetest trends in science ,Engineeering and Technology " Voice communication based shopping tool"			
			7th International eConfernce on Latetest trends in science ,Engineeering and Technology " Pest trap to help farmers to avoid pesticides using light"	26.03.2021 27.03.2021	2	Karpagam Institute of Technology, Coimbatore
			7th International eConfernce on Latetest trends inscience Engineeering and Technology "Rescuing sewage cleaner usingWrist band"			

STUDENTS PARTICIPATION IN WEBINARS

S.N	Student Name	Year	Webinar	Organized By	Date
1.	Divya.M	IV	Sentimental Analysis using RNN	Sridevi Women‟s Engineering College in association with Pantech E-learning	16-06-2020
2.	Divya.M	IV	Robotic Process Automation	Sridevi Women‟s Engineering College in association with Pantech E-learning	19-06-2020
3.	Divya.M	IV	Concepts in machine Learning using Python	University College of Engineering in association with Pantech E-learning	05-06-2020
4.	Divya.M	IV	ThingSpeak Cloud & Internet of Things	Quaid E-Millath Govt College for Women in association with Pantech E-learning	02-06-2020

5.	Divya.M	IV	Python Programming & Industrial Applications	Ethiraj College for Women in association with Pantech E-learning	09-06-2020
6.	Divya.M	IV	Data Science Using Python	Siddhartha Group of Institutions in association with Pantech E-learning	13-06-2020
7.	Divya.M	IV	5G Communications	DMI College of Engineering in association with Pantech E-learning	10-06-2020
8.	Divya.M	IV	PCB Design	Narasimha Reddy Engineering College, Hyderabad in association with Pantech E-learning	12-06-2020
9.	Divya.M	IV	Deep Learning &AI	Gopalan College of Engineering & Management, Bangalore in association with Pantech E-learning	07-06-2020
10.	Divya.M	IV	Arduino Using Proteus	Sreenidhi Institute of Science & Technology in association with Pantech E-learning	01-06-2020
11.	Divya.M	IV	Python Programming for IoT Enabled Biomedical Applications	Bharathi Womens" College in association with Pantech E-learning	05-06-2020
12.	Divya.M	IV	Smart Vehicles-IoT Enabled Vehicular Communications	Tagore Engineering College in association with Pantech E-learning	04-06-2020
13.	Divya.M	IV	LABVIEW	Karpagam College of Engineering in association with Pantech E-learning	17-06-2020
14.	Divya.M	IV	MQTT Protocols and Hands-On	Anurag University in association with Pantech E-learning	04-06-2020
15.	Divya.M	IV	Natural Language Processing	St.Peters" Engineering College in association with Pantech E-learning	18-06-2020
16.	Divya.M	IV	Cognitive Radio Networks	Ganapathy Tulsi Jain Engineering College in association with Pantech E-learning	12-06-2020
17.	Divya.M	IV	Mastering Machine Learning -An introductory Guide with MATLAB	Tamilnadu College of Engineering in association with Pantech E-learning	01-06-2020
18.	Divya.M	IV	AI Using Python	Vishwakarma Institute of Information Technology, Pune in association with Pantech E-learning	16-06-2020
19.	Divya.M	IV	A Machine Learning Approach for Power Management	Sathyabama Institute of Science & Technology in association with Pantech E-learning	06-06-2020
20.	Divya.M	IV	Build your Own Regression Model in	MLR Institute of Technology, Hyderabad in	06-06-2020

			Machine Learning	association with Pantech E-learning	
21.	Divya.M	IV	Automation of Car Using Embedded Systems	Jeppiaar Engineering College in association with Pantech E-learning	18.06.2020
22.	Divya.M	IV	Clock Domain Crossing Techniques and Clock Gating Design (VLSI)	Mahatma Gandhi Institute of Technology in association with Pantech E-learning	14.06.2020
23.	Divya.M	IV	Gesture Recognition	Vardhaman College of Engineering in association with Pantech E-learning	08.06.2020
24.	Divya.M	IV	Cloud Computing	Ethiraj College for Women in association with Pantech E-learning	15.06.2020
25.	Divya.M	IV	Applying Convolutional Neural Networks-A Deep Learning	Kalasalingam Institute of Technology in association with Pantech E-learning	02.06.2020
26.	Thriranjani.J	IV	Renewable Sources of Energy	Mohammed Sathak AJ College of Engineering	11.07.2020
27.	Roopasri.S	IV	MATLAB Workshop	Vaanam Vasappadum-An Organization for Students	05.12.2020 & 06.12.2020
28.	Manjula.G	IV	EV Battery Recycling Technology	SKYY Rider Institutions	14.10.2020
29.	Divyalatha.K.S	III	National Level Virtual Hackathon 2020	One Yes Technologies	06.09.2020
30.	Ayisha Iliyas	IV	Engineering: Undergraduate & Masters Asia Virtual Experience Program	Microsoft	23.08.2020
31.	Manjula.G	IV	Engineering: Undergraduate & Masters Asia Virtual Experience Program	Microsoft	30.09.2020
32.	Manjula.G	IV	Data Analytics Virtual Experience Program	Quantium	01.10.2020
33.	Manjula.G	IV	Data Analytics Consulting Virtual Internship	KPMG	02.10.2020
34.	Tejavathi.S	IV	Computer Skills	Ganadipathy Tulsi"s Jain Engineering College,Vellore	11-7-2020
35.	Rajagopal.V	IV	Math Ninjas	A.V.C College of Engineering	5-12-2020

STUDENTS PARTICIPATION IN CONFERENCE

S.N	Name of the student	Year	Title of the event and paper	Date	No.of.days	organized by
1	B.Baby Prasanna Aswini.C Anusha.R K.Jothi	IV	7th International eConfernce on Latetest trends in science ,Engineeering and Technology "Pest trap to help farmers to avoid pesticides using light"	26.03.2021 27.03.2021	2	Karpagam Institute of Technology, Coimbatore
2	Haridoss.S Fahad Khan.M Mohan Kumar.B Harish.G	IV	7th International eConfernce on Latetest trends in science ,Engineeering and Technology "Rescuing sewage cleaner usingWrist band"			
3	Roopasri.S Sweetlin.J Shiyamala.S	IV	7th International eConfernce on Latetest trends in science ,Engineeering and Technology "Voice communication based shopping tool"	26.03.2021 27.03.2021	2	Karpagam Institute of Technology, Coimbatore

| 4 | Komalavalli, Ashwine.M Ilakiyabharathi | IV | International eConfernce on Recent Developments in,Engineeering and Technology "ATM security withFace Recoginzation" | 03.04.2021 | 1 | Dhaanish Ahmed Institute of Technology ,Coimbatore. |

INTERNSHIP

S.No.	STUDENT NAME	YEAR	COMPANY NAME	PERIOD	NO OF DAYS
1.	Thriranjani.J K.Punithavalli, Tharani, Shyamala, RamyaLakshmi, A.Prathisa	IV	GustoValley Technovations LLP ,Hosur	14-09-2020 to 14-10-2020	30

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TRAINING &PLACEMENT

ECE epartment always believed in equipping students with the right talent and personality to face to the industry requirements.

Our focus on appropriate training through internal as well external resources, exploring / creating new approaches on placement to attract the best from the industry, have given outstanding results.

ECE department, the placement & training cell and selectively deployed personal function with the primary aim of placing students in top – notch companies.

The department deployed team goes all out to train the students to meet the high industry expectations and attained a creditable record of placement of its final year ECE students.

The following is the placement record of the department of ECE for the past few years:

ACADEMIC YEAR	NO OF STUDENTS PLACED
2016 – 2017	98
2017 – 2018	52
2018 – 2019	63
2019-2020	45
2020-2021	51*

(* as on May 2021)

S.NO.	NAME OF THE COMPANY	NO. OF STUDENTS PLACED
1	Connect	2
2	Prematix Software Solution Pvt. Ltd.	3
3	HCL	1
4	Altrust	15
5	Eureka Forbes Limited	10
6	Allsec Technologies Limited	2
7	Surtherland	3
8	Raising star	5
9	Krish Auto	2
10	Aquasub group	2
11	TCS	6