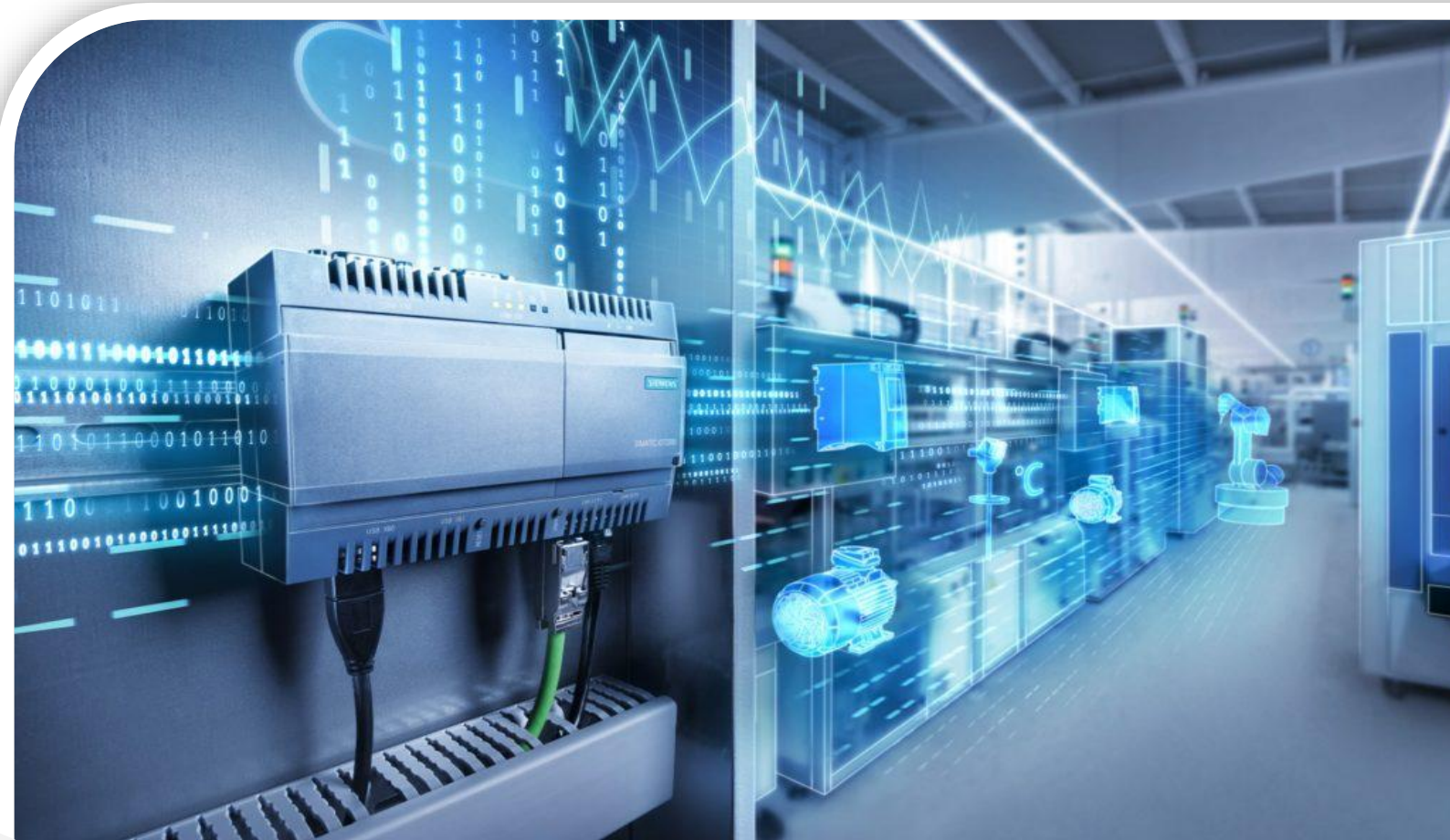




# E-TROLTRONICS

January 2021 – June 2021



## Editors:

Mr. E. Muthuramalingam, Asst. Prof. I, EIE  
Ms. S. Revathi, Sr. Assistant, EIE  
Mr. S R. Sivanikesh, IV year E&I  
Mr. S. Mukesh Kumar, IV year E&I  
Mr. G. Sabarish, III year E&I  
Ms. A. T. Shreenidhi, III year E&I



## VISION OF THE INSTITUTE

- The vision of the college is to become a technical university of International Standards through continuous improvement.

## MISSION OF THE INSTITUTE

- Kumaraguru College of Technology (KCT) is committed to providing quality Education and Training in Engineering and Technology to prepare students for life and work equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set students on the path to leadership.

## VISION OF THE DEPARTMENT (E&I)

- The Department of Electronics & Instrumentation Engineering (E&I) envisions a holistic education that transforms the learners into responsible engineers which shall enable them to identify significant problems both in industry and society to arrive at creative and sustainable solutions through collaborative team efforts.

## MISSION OF THE DEPARTMENT (E&I)

- The Department of Electronics & Instrumentation Engineering (E&I) aims to
  - Implement modern andragogical approach in academics, innovative research initiatives and collaborative projects that shall ethically address the societal needs
  - Develop knowledge and skills required to excel in manufacturing, automation and allied industries on a global platform
  - Expand the knowledge for higher studies and get inspired for lifelong learning



**Dr. K. K. Anil Kumar**  
Professor & Head, EIE

### HOD message:

Electronics & Instrumentation Engineering stabilised in the year 2006 is a specialized branch of Electrical and Electronic Engineering, which focuses on the principle and operation of field instruments SCADA, DCS, PLC'S and the process control systems which are used in design and configuration of automated systems. These engineers work in industries with automated processes, such as chemical or manufacturing plants, with the goal of improving system productivity, reliability, safety, optimization and stability.

Within a short period, we have established all our laboratories and centres of excellence, which are required for the curriculum and several specialized equipment and software, which help the students to do their real time projects. We have placed our students in core industries like Yokogawa, Bosch, Data Patterns, TVS, Tesolve, Saipem, ECON, etc. Many of our alumni have successfully cracked CAT and GATE to gain entrance into the high portals of higher education. Also, we have our students pursuing their higher studies in US, UK, Germany, and Australia.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

**Graduates of B.E (Electronics & Instrumentation Engineering) will**

<b>PEO 1</b>	Excel in technical and professional career with core competence in automation.
<b>PEO 2</b>	Possess the passion for professional development by continuous learning in allied Engineering and Management fields.
<b>PEO 3</b>	Engage in resolving industrial and social issues using contemporary tools.
<b>PEO 4</b>	Exhibit professionalism and ethical attitude towards resolving automation issues to society at large.

## PROGRAMME OUTCOMES

**Graduates of B.E (Electronics & Instrumentation Engineering) will be able to:**

<b>PO 1</b>	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO 2</b>	Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



<b>PO 3</b>	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.
<b>PO 4</b>	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.
<b>PO 5</b>	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.
<b>PO 6</b>	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.
<b>PO 7</b>	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>PO 8</b>	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PO 9</b>	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO 10</b>	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.
<b>PO 11</b>	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.
<b>PO 12</b>	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.



## PROGRAMME SPECIFIC OUTCOMES

Graduates of B.E (Electronics and Instrumentation Engineering) will be able to:

<b>PSO 1</b>	Develop, analyse and calibrate Instruments and electronic systems for various real world applications adhering to ISA ethical codes.
<b>PSO 2</b>	Integrate programmable logic controllers (PLC), distributed control systems (DCS) for manufacturing and processing systems and also gain proficiency in relevant software tools.

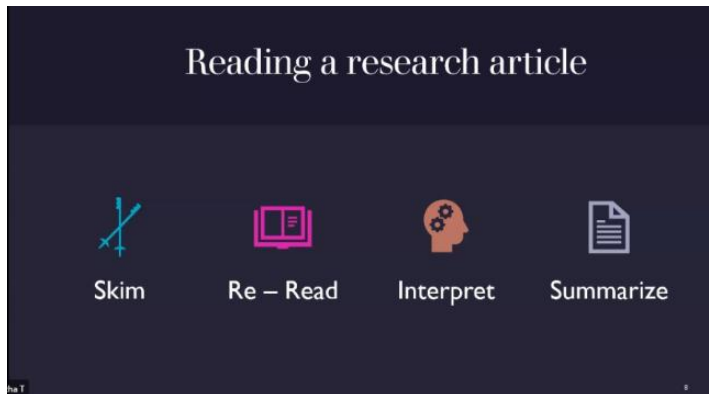
## About the Department:

Started in the year 2006, the department of Electronics & Instrumentation Engineering is running a 4-year undergraduate programme in Electronics & Instrumentation Engineering. Since its inception, the department has grown in leaps and bounds with the state of art infrastructure. Yokogawa Centre of Excellence, KCT-FLUKE Centre of Excellence in Calibration, Siemens PLC Automation Laboratory are some of the major centres operational in addition to Advanced Process Control and Computerised sensors laboratories. The department has a team of well qualified, dedicated faculty members with vast experience in industrial and research background. The department is involved in active Industrial consultancy services for neighbouring Industries in the field of Automation. Certified calibration for Electro-Technical /Thermal/Pressure Instruments are some of the prominent consultancy services. Major and Minor projects funded by the government bodies and industries are focused on solving industrial needs. Our association with the professional bodies ISA, ISOI, IEEE, ISTE, IEI and CSI is playing a significant role in enriching the quality of the curriculum.



## Department Association activities:

### Research paper publication



The department association of E&I organized a talk session on 11 January 2021, Monday on research paper publication. This happened at 4:00pm through online mode via MS teams. The speaker of the event was Ms. Lokitha (Member of Electric vehicle system in Re'). The

resource person shared her thoughts, ideas and procedure on paper publication. With the history of scientific writing, there was the glimpse of how and where to get started. Overall we got brushed up from the start to the end.

### Mesh of Minds:

DATE: 28.01.2021

VENUE: MS Teams

A diversified event with both technical and fun elements was organized by the 2nd years for the freshers of the department of EIE. The freshers were divided into a team of 6 members and a mentor (2nd year student) was allotted to each team. As a team everyone answered for the connections, audio, video questions. A quiz competition with general questions was also conducted in the Quizizz app and all the freshers participated in the event exuberantly.





## PROGRAMS ATTENDED BY STUDENTS :

- ✚ Third year students of EIE (Sabarish G, Maria Nivetha A) were participated in the Instinct -Intellismart's Innovation challenge and Hackathon organized by M/s IntelliSmart Infrastructure Pvt. Ltd. on 19th March 2021 and got selected for second round.
- ✚ Final year students of EIE (Kousalya S, Hemamalini S and Poovendran P) participated in the national level Techno Innovation Contest on Innovation, IPR and Entrepreneurship (IIE 2021) at NIT, Jalandhar on 6th and 7th March 2021.
- ✚ Eight students from final year EIE were participated in National level completion of Prototypes fabricated by UG/PG/PhD level students at NIT, Jalandhar on 6th and 7th March 2021.
- ✚ Swasthika B, Rithika S K and Jeyakeerthika of final year EIE were Presented a paper on Soft computing based water estimation in agriculture drip irrigation, Intech 2021 by MIT, Chennai on 6th and 7th March 2021.
- ✚ Subiksha K, Visagomathi S and Harini c of final year EIE were presented a paper on An approach to Identificatino of leak deduction in water distribution using IoT Technology technology, Intech 2021 by MIT, Chennai on 6th and 7th March 2021 and short listed for final round.
- ✚ Afrose Banu R, Eniya K M and Manibala S S of final year EIE were presented a paper on Automating test bench for pneumatic actuator in Intech 2021 by MIT, Chennai on 6th and 7th March 2021.



## PROGRAMS ORGANIZED BY OUR FACULTIES:

### FDP - Productivity Enhancement through Personal Excellence:

Date: 25/01/2021 to 29/01/2021

A national level faculty development program was organized by Mr. M. V. Umesh and Dr.M. Ezhilarsai. More than 100 participants attended this program.

Resource Persons:

1. Dr.M.Ezhilarasi, Associate Dean & Head, SFS & HE, Kumaraguru College of Technology, Coimbatore.
2. Mrs SimtiAdinarayanan, Anaadi Foundation, Coimbatore
3. Mr.PrakashSeshadri, Heartfulness Institute, Chennai.
4. Mr.Saravana Prabhu Subramaniam Art of Living Foundation Chennai, Tamilnadu.
5. Mr. M.K. Anand, Heartfulness Institute, Chennai.

### Established Student chapters at the Institution of Engineering (India):

Date: 17/02/2021

Student IEI chapters organised for all` UG programs of KCT by The Institution of Engineerings (India)

### Automation system design using PLC:

Date: 27/03/2021 to 28/03/2021

Organized the workshop on Automation system design using PLC by Mr. M.V. Umesh, Associate professor. 27 students were attended the workshop.

Resource Person: Mr. S. Ranganathan, AP-I, EIE and experts from Siemens.





## **Two Day Skill Development Program on Advanced Industrial Automation Technology:**

Date: 16/04/2021 to 17/04/2021

Organized the two days workshop on Skill development program on Advanced Industrial Automation Technology, 12 participants were attended the workshop.

Resource Person: Mr. V. Athappan, AP-II, Mr. M. Saravanabalaji, AP-I and Mr. S. Ranganathan, AP-I, EIE

## **Ideathon: Mindspar – Thinkelec**

Date: 03/04/2021 to 04/04/2021

Ideathon conducted during Yugam'21, 30 participants were attended the event. The event coordinated by Mr. M.V. Umesh, ASP, EIE and Mr.M.Saravanabalaji, AP-I,EIE.

Resource Person: Dr. K. K. Anilkumar, Prof. & Head, EIE

## **Workshop on Design of miniature sensor:**

Date: 29/03/2021

Mr. M.V. Umesh, ASP and Mrs. V. Manimekalai, AP-I were coordinated the workshop on Design of miniature sensor, 15 students were participated in the workshop. The Resource person is Mr. Sripadaraja.

## **Workshop on Automation system design using PLC:**

DATE: 27/03/2021 to 28/03/2021

Mr. M.V. Umesh, ASP and Mr. S. Ranganathan, AP-I were coordinated the workshop on Automation system design using PLC by the following resource persons Mr. Muthukumar and Mr. Rohith Nagaraju. 12 participants were attended the workshop.



## **Industry connect training program on design of sensors:**

Date: 18/05/2021 to 20/05/2021

Mrs.V.Manimekalai, AP-I, coordinated the training, 57 students were attended the training program. The Resource person is Dr.Sripadraja, Intellisense Pvt. Ltd.

## **IE(I) sponsored Technical Webinar on Importance of Calibration:**

Date: 05/05/2021

IEI Monthly Lecture Meeting (Webinar) was conducted with 110 participants, Dr.P.S.Mayurappriyan, Professor, and Mrs.V.Manimekalai, AP-I, coordinated the Webinar. The Resource person is Ms. Shaila Nadgir (Product Manager - Electrical,Fluke Technologies Pvt Ltd).

## **Webinar Series on Career opportunities in Core industries and Skills to be upgraded:**

Date: 22/05/2021

Webinar series organized for final year students by the following faculty coordinators, Mr. V. Athappan, AP-II, Mr.E.Muthuramalingam, AP-I, Mr. M. Saravanabalaji, AP-I and Mr. S. Ranganathan, AP-I, EIE. 128 students were attended. The resource person is Mr.L.J.A.Naveenan,Head Training & Services TVS Pvt Ltd.

## **Webinar Series on Interactive session with Successful startup Founders:**

Date: 24/05/2021

Mr.M.V.Umesh, ASP, Mrs.I.Jeyadaisy and Mr.V.Athappan were coordinated the webinar with the Resource person Jasir Sabri, Consyst Founder and Director, S.R. Venkatapathy ISA Bangalore ection (on behalf of President ISA Bangalore). 127 students were attended the webinar.



## **Industry Connect - SIEMENS - SITRAIN Digital Industry Academy**

Date: 26/05/2021

the EIE Department organised a meeting with Mr. R. Thangapandian, & Mr. Pai Praveen (HR), SIEMENS SITRAIN on 26th May 2021. The meeting was organised to discuss the new venture of starting a PG program on Industrial Automation & System Design jointly with SIEMENS – SITRAIN Digital Industry Academy.

## **Train the Trainer for Ideation sprint faculty mentors and additional faculty members:**

Date: 31/05/2021 to 01.06.2021

Mr.M.V.Umesh, ASP, Mrs.I.Jeyadaisy and Mr.V.Athappan were coordinated the webinar for two days, 52 participants were participated and the resource person is from Forge Academy faculty members, Ms.Lakshmi Meera, Mr. Vivek, Mr.Deepak N, and Mr.Umesh M V.

## **Career Options in Public Sector and Importance of GATE**

Date: 05.06.2021

Mr. Manimohan Trinath, Trainer, ACE Engineering Education india ltd, handled the session. Mr.V.Athappan, AP-II, Mr.E.Muthuramaingam, AP-I, Mr.M.Saravanabalaji, AP-I and Mr.S.Ranganathan, AP-I, EIE are Coordinated the event. 120 students were attended the program.

## **Variable Frequency Drives and Its Applications**

Date: 12.06.2021

The Chief guest Er. J. Balamurugan Jeyaraman, Business Manager – High Power Drive (ALL India), ABB India Ltd, Bangalore has delivered the lecture on the VFD basics, selection procedures, working operation and the applications. 120 students were benefited through the session.



## Webinar on "Leveraging collaboration in higher education with West Texas A&M University ,USA"

Date: 12.06.2021

The chief guests are Dr. Emily Hunt Dean, Professor of Mechanical Engineering West Texas A&M., USA and Dr. Anitha Subburaj Assistant Professor of Electrical Engineering West Texas A&M., USA gave lecture to the students. Mrs.I.Jeya Daisy, AP-II, Dr.V.Dinesh Kumar, ASP and Mr.S.Saravanakumar, AP-I, EIE were coordinated the webinar. 120 students were participated in the webinar.

## Core job presentation during college days

Date: 30.06.2021

The Chief Mr. Balajee Seshadri, Technologist at Surabee Electronics Systems, Chennai gave the lecture to the students, The webinar co-ordinated by Mr.M.V.Umesh, ASP, EIE Department. 70 students were attended the webinar.

## PROGRAMS ATTENDED BY FACULTIES :

Our faculties have attended more than 220 programs like faculty development programs, STCs, Webinars, online courses, conference, workshops, short term training programs, seminars and various training sessions.

Some of the national and international level programs attended by our faculties are:

- ✚ Mr. M. Saravanabalaji, Asst. Professor-I, delivered the guest lecture delivered on AI Based leakage detection of pipelines in WDN at GCT - Faculty training centre conducted FDP on Artificial Intelligence – Applications on 18th February 2021.
- ✚ Dr.K.K. Anilkumar, Professor&Head, EIE attended a National Virtual conference on Automation, Robotics, Artificial Intelligence and Mechatronics (ARAM 2021)from 16th to 19th March 2021.
- ✚ Mr. M. Saravanabalaji and Mr.S.Ranganathan, AP-I/EIE, were attended the National level completion of Prototypes fabricated by UG/PG/PhD level students by NIT, Jalandhar from 6th to 7th March 2021.



- ✚ Mr.M.V.Umesh, ASP, EIE has attended the four weeks National level FDP on Patent Drafting for beginners by NPTEL - AICTE sponsored FDP, during February 2021 to April 2021.
- ✚ 6 days STTP has been attended by Mr.M.V.Umesh, ASP, EIE on Integrating Internet of Things with Field Programmable Gate Arrays and Silicon-on-Chips during 19th April 2021 to 24th April 2021.
- ✚ Dr.K.K.Anilkumar, Prof. & Head, EIE has attended three national level webinars on "Technology Innovation, Business/Tibiz'21", "From your Ph.D./ Masters Thesis to a start-up" and "The new academic frontier" during 21st to 23rd April 2021.
- ✚ Mr. M. Saravanabalaji, AP-I, EIE has attended the National level conference on Communication and System Design (NC2SD 2021) on 3rd April 2021.
- ✚ Dr. P. S. Mayurappriyan, Prof. and Mr.M.V.Umesh, ASP have attended the National level webinar (MIC Driven Program\_ IIC Activities) during 23rd to 26th April 2021.
- ✚ Mr. S. Saravana Kumar / AP- I/ EIE has attended online Six Days Workshop on PCB 2 -Layer Design conducted by Career Vision Embedded Academy during 17th May to 22nd May 2021.
- ✚ Dr. P.S. Mayurappriyan/ Professor/ EIE has attended a National Level Workshop on Final Stage Preparation of AQAR for Affiliated UG/PG Colleges by IQAC Cluster India during 03rd May to 06th May 2021.
- ✚ Dr. P.S. Mayurappriyan/ Professor/ EIE has attended a National Level two days Webinar on Recent Advances in Logistics and Supply Chain Digitisation organised by Department of Electronics and Communication Engineering of Kumaraguru College of Technology during 07th May to 05th May 2021.
- ✚ Dr. K.K. Anil Kumar/ Professor& Head/ EIE attended the National Level Webinar on Equation based modelling with COMSOL on 11th May 2021.
- ✚ Mr. Athappan.V / AP - II/ EIE attended the National Level Workshop on "LaTeX for Research Publications and Thesis Writing" Conducted by Karpagam College of Engineering, Coimbatore on 29th May 2021.



- ✚ Mr. V. Athappan, AP- II/ EIE has attended 15 days online certificate program on Advanced Research Methodology during 14th June to 30th June 2021.
- ✚ Mr. V. Athappan, AP- II/ EIE has attended 5 days webinar series on KCT IIC WEBINAR SERIES during 14th June to 18th June 2021.
- ✚ Mr. M. Saravanabalaji, AP – I, EIE has attended 5 days Faculty development program on Embedding AI in Smart Sensors Sensors Technology Engineering during 7th June to 11th June 2021.
- ✚ Dr. P.S. Mayurappriyan/ Professor/ EIE has attended a National Level webinar on Webinar on “Leveraging collaboration in higher education with West Texas A&M., USA” organised by Department of Electronics and Instrumentation Engineering of Kumaraguru College of Technology in assoicatipon with IQAC & IIC on 23rd June 2021.
- ✚ Dr. P.S. Mayurappriyan/ Professor/ EIE has attended a National Level webinar on Webinar on "Roadmap for Industry Ready Skill Development" organized by IQAC & Dept of CSE, Velagapudi Ramakrishna Sidhartha Engineering College, Vijayawada, under AICTE Margdarshan scheme on 26th June 2021.
- ✚ Mr. M. Saravanabalaji, AP – I, EIE has attended a national level webinar on SITRAIN Online training – Virtual Camera Lab on 11th June 2021.
- ✚ Dr. K. K. Anilkumar, Professor & Head, EIE has attended a NPTEL Live Session on Communicating the virtual world by Ms. KamithaJairaj, Lab Engagement lead, IBM India Pvt Ltd on 3rd June 2021.
- ✚ Dr. K. K. Anilkumar, Professor & Head, EIE has attended a webinar on IoT Towards Machine Learning by IET Chennai Local Network, Dr Munesh Singh Assistant Professor, Indian Institute of Information Technology Design and Manufacturing (IIITDM) during 11th to 12th June 2021.
- ✚ Dr. K. K. Anilkumar, Professor & Head, EIE has attended a webinar on Achieving Zero-Defects through Automated Vision Inspection on 11th June 2021.
- ✚ Dr.K.K.Anilkumar, Professor&Head, EIE has attended a CII conference on 'Innovations in Learning' on 23rd June 2021.
- ✚ Dr. K. K. Anilkumar, Professor & Head, EIE has attended a webinar on Roadmap for Industry Ready Skill Development" organized by IQAC &



Dept of CSE under AICTE Margdarshan. Mr. Jaikrishna Chinnaiyan Sadhasivam, Program Manager, Infosys Limited, USA, Hong Kong & India on 23rd June 2021.

- ✚ Dr. K. K. Anilkumar, Professor & Head, EIE has attended ISA-Maharashtra Section (ISAM), 2-days Virtual Symposium on "Digitalisation in Post Covid Era" during 11th to 12th June 2021.
- ✚ Dr.K.K.Anilkumar, Professor & Head, EIE has attended a webinar on Webinar on Innovations using Virtual Reality (VR) and Augmented Reality (AR) on 28th June 2021.
- ✚ Mr.M.V.Umesh, Asso. Professor, EIE attended Workshop on Examination reforms by AICTE during 28th to 30th June 2021.

## COLLABORATIVE ACTIVITIES:

- ✚ Dr. P. S. Mayurappriyan, Professor, EIE has attended the Programme Assessment Committee (PAC) Meeting for B.E. Mechanical Engineering) programme for the Review of CO/PO-PSO Attainment for the year 2019-2020 on 17th April 2021.
- ✚ Dr. P. S. Mayurappriyan, Professor, EIE has attended the 21st Board of Studies (BoS) Meeting of Department of Electronics & Instrumentation Engineering of Kongu Engineering College as Anna University BOS member on 19th June 2021.

## GUEST LECTURE DELIVERED:

- ✚ Dr.V.Dinesh Kumar, ASP and Mrs.I.Jeyadaisy, AP-II have delivered a Lecture in the Six days FDP on "EE8351 - Digital Logic Circuits", Anna University sponsored webinar conducted on 26th May 2021.
- ✚ Mr.M.V.Umesh, ASP has handled a session in Importance of becoming professional body Members and about ISA and its benefits to students for Bannari Amman Institute of Technology for starting of ISA student Chapter on 18th May 2021.



## RESEARCH ACTIVITIES:

### Patent Granted/Published in the year 2020-21:

- ✦ Patent titled on Novel Skin Feature Based Jaundice Detection for Neonates using Non-Invasive Technique (No. 201741038228) has been granted and certificate issued on 17th March 2021. The Inventors are Dr. A. Arulmozhi, Dr. M. Ezhilarasi, Dr. Anil Dev and Ms. Leela Ganesan.
- ✦ Patent titled on A Novel Disinfecting Machine for A Portable Object (No. 202111017540), has been published on 23rd April 2021. The inventors are Dr. V. Dinesh Kumar, Mrs. I. Jeya Daisy, Ms. V. Manimekalai and Mr. S. Saravanakumar.
- ✦ Dr. P. S. Mayurappriyan, Professor, EIE has reviewed the paper titled "Analysis of Bidirectional Converter with Advance Controller for Renewable Energy Applications", International Journal of Power Electronics (IJPELEC) in February 2021.
- ✦ Dr. P. S. Mayurappriyan, Professor, EIE presented a paper on "Evolution of Outcome Based Engineering Education in India – A Case Study" in 7th International Conference on Advanced Computing & Communication Systems (ICACCS 2021) organized by Sri Eshwar College of Engineering, Coimbatore during 19th to 20th March 2021.
- ✦ Mr. M. Saravanabalaji, Asst. Prof.-I, EIE submitted a paper in the Journal of Instrumentation Society of India in March 2021.
- ✦ International Journal (Scopus) Publication in April 2021: Bagyalakshmi, N, Siva Subramanian, S, Dinesh Kumar, V, Tamilselvan, V. 2021. SCG Algorithm for Sensor Fault and Process Fault Detection and Control in Shell and Tube Heat Exchanger / Annals of the Romanian Society for Cell Biology / Vol. 25, Issue 4, 2021, Pp 9677 - 9682 / ISSN: 1583-6258.
- ✦ International Journal (Non-scopus) Publication in April 2021: Jeya Daisy, I, Vinoth Kumar, B, Krishamoorthy, M, Harini C. 2021. Amperometric Detection of Glucose and Fructose Level in Beverages using IOMT, International Journal Of Current Engineering and Scientific Research (IJCESR), VOLUME-8, ISSUE-4, ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697.





## Student Publications:

- ✚ Manibala, S S, Subiksha, K, Visagomathi, S and Harini, C, were presented a paper in the Second national Conference on Communication and System Design (NC2SD 2021) organized by PSG institute of Technology and Applied Research on 03.04.2021.
- ✚ Swastika, Jeyakeerthika, Afrose Banu and Ritika were presented a paper in the Second national Conference on Communication and System Design (NC2SD 2021) organized by PSG institute of Technology and Applied Research on 03.04.2021
- ✚ Swastika B and Rithika S A were participated in the Idea Presentation at CIT, Coimbatore and won first place.

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