



E-TROLTRONICS

EIE NEWSLETTER

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EDITORS:

Student Coordinator:

Mr. Dakshin D (20BEI011)
Ms. Sobika M (21BEI042)

Faculty Coordinator:

Dr V Dinesh Kumar/ HOD
Mr Umesh MV / ASP



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

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

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. DINESH KUMAR V****Asst Prof & Head**

HOD's DESK:

Electronics & Instrumentation Engineering established 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 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, Tsolve, 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.

PROGRAM EDUCATIONAL OBJECTIVES

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

PEO-1	Excel in technical and professional career with core competence in automation
PEO-2	Possess the passion for professional development by continuous learning in allied Engineering and Management fields.
PEO-3	Engage in resolving industrial and social issues using contemporary tools
PEO-4	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:

PO 1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO 2	Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO 3	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.
PO 4	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.
PO 5	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.
PO 6	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
PO 7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO 8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



PO 10	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.
PO 11	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	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:

PSO 1	Develop, analyse, and calibrate Instruments and electronic systems for various real-world applications adhering to ISA ethical codes.
PSO 2	Integrate programmable logic controllers (PLC), distributed control systems (DCS) for manufacturing and processing systems and 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 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 curriculum.





DEPARTMENT ACTIVITIES

Six Day Physical Mode FDP

Department of Electronics and Instrumentation engineering Organizing Six Day Physical Mode FDP from 11.09.2023 to 16.09.2023 Sponsored by Anna University, Chennai.

About the Institute

Kumaraguru College of Technology (KCT), Coimbatore is an Engineering College started in 1984 under the auspices of Ramanandha Adigalar Foundation, a charitable educational trust of Sakthi Group. It is situated in a sprawling campus of 150 acres in the IT corridor of Coimbatore which in many ways was a front runner in the eco system. Currently the college, as an autonomous institution affiliated to the Anna University, offers 14 under-graduate (B.E., B.Tech.) and 14 post-graduate (M.E., M.Tech., MCA, MBA) programs of study. All the above courses have the approval of the All-India Council for Technical Education (AICTE) and all the eligible UG programs have also been accredited by National Board of Accreditation (NBA). In addition, KCT has also been accredited by National Assessment and Accreditation Council (NAAC) of the University Grants Commission (UGC). 10 academic departments have been recognized as research centre's permitting research leading to Ph.D. degree by Anna University. The value of the education and training imparted by the college is highlighted by the interest shown by leading companies for on-campus recruitments. Our alumni have done us proud by proving their worth in their chosen field of work.

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 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 curriculum.

Registration Details

No Registration Fee.

How to Enrol

Applicants who are willing to participate in the programme have shall enrol themselves or nominate their colleague (s) by filling an online application form through this application link or QR code.

<https://forms.gle/eCuDghrkSNw5OCB59>

**Admission Eligibility**

The applicant must have a teaching experience as full time faculty members of Anna University affiliated colleges.

For more details, please contact:

Co-ordinators:

1. **Ms. Jeya Daisy I.**,
Assistant Professor-II,
Department of E&I,
Kumaraguru College of Technology,
Coimbatore.
Ph. No- 9003896038
jeyadaisy.i.e@kct.ac.in
2. **Mr. Saravanakumar S.**,
Assistant Professor-II,
Department of E&I,
Kumaraguru College of Technology,
Coimbatore.
Ph. No- 9791300681.
saravanakumar.s.eie@kct.ac.in

Physical Mode Six Day FDP ON EMBEDDED SYSTEMS

Duration

11-09-23 to 16-09-23

REGISTRATION FORM

Co-ordinator
Ms | JEYA DAISY

Sponsored by
Centre for Faculty &
Professional Development
Anna University
Chennai – 25



Organized by
Department of Electronics &
Instrumentation Engineering
Kumaraguru College Of
Technology

**About the program**

FDP is a 6 days physical mode program that have the goal of boosting teaching capacities of engineering educators. For an extensive exposure to research, teaching, and case development, the programme is managed by guest faculty from industry and other esteemed institutions. The program duration is from 11th Sep 2023 to 16th Sep 2023

Scope of the program

The primary thrust of the 6 days FDP will be to equip the participants with contemporary teaching skills, practical skills, and industry exposure. Emphasis will also be given in understanding the philosophy of building blocks of embedded system, design and development strategies, communications in processor, processor scheduling algorithms, Real Time Operating Systems (RTOS) and related case studies.

PROGRAM DESIGN

The course would contain following modules:

Module 1. Developing Teaching Skills in Embedded systems

- Introduction to Embedded Systems & Structural units in Embedded processor
- In Circuit Emulator, Target Hardware Debugging
- Embedded Networking
- Communication protocols RS232, RS422, RS485, CAN, SPI, I2C standards
- Modelling of Embedded Product Development Life Cycle (EDLC)
- Basics of RTOS

Module 2. Developing Practical Skills in Embedded systems

- Timer and Counting devices.
- Watchdog Timer, Real Time Clock
- In Circuit Emulator, Target Hardware Debugging
- Case study of Washing Machine
- Case study of Automotive Application
- Case study of Smart Card System Application
- Case Study of ATM Machine and Digital camera

Resource Person Details

1. **Mr Umaphathi**,
Project Manager,
Robert Bosch,
Coimbatore.
2. **Ms srinitha Developer**,
3Q Technologies,
Coimbatore.
3. **Dr P. Rajalakshmy**,
Professor & Head,
Robotics Engineering,
School of Engineering and Technology,
Karunya university, Coimbatore.
4. **Dr.K. Vijayakumar**,
Professor,
Bio Medical Engineering,
Dr.N.G.P. Institute of Technology,
Coimbatore
5. **Dr. N Arulmozhi**
Assistant Professor (Senior Grade)
Electronics & Instrumentation Engineering
Government College of Technology, Coimbatore
6. **Dr V Rukumani**
Associate Professor
Department of Electronics & Instrumentation
Engineering,
Sri Ramakrishna Engineering college Coimbatore.
7. **Dr. D. Veera Vanitha**
Associate Professor
Electronics and Communication Engineering
School of Engineering
Avinashilingam Institute for Home Science and
Higher Education for Women Coimbatore.
8. **Ms. Jeya Daisy I.**,
Assistant Professor-II,
Department of E&I,
Kumaraguru College of Technology,
Coimbatore.
9. **Mr. Saravanakumar S.**,
Assistant Professor-II,
Department of E&I,
Kumaraguru College of Technology,
Coimbatore.

ORGANIZING COMMITTEE**CHIEF PATRON**

Dr. R. Velraj
Vice Chancellor
Anna University

PATRON

Dr. J. Prakash
Registrar i/c
Anna University

CHAIR

Dr. P. Vanaja Ranjan
Director, CPD
Dr. V. Adakkalam
Addl Director, CPD

CO-CHAIR:

Dr. D. Saravanan
Principal
Kumaraguru college of technology
Dr. V. Dinesh Kumar
Associate Professor & Head
Department of E&I
Kumaraguru college of technology

Co-ordinators:

Ms. Jeya Daisy I & Mr. Saravanakumar S,
Assistant Professor-II,
Department of E&I,
Kumaraguru College of Technology,
Coimbatore.

Organizing Department: Department of E&I

IMPORTANT DATES:

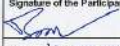
Submission of Application: 06/09/2023

Intimation of Selection: 07/09/2023

Confirmation by Participants: 08/09/2023

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

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CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT	
Anna University, Chennai-600025.	
PHYSICAL MODE SIX DAY FACULTY DEVELOPMENT TRAINING PROGRAMME (SUMMER - 2023)	
FEEDBACK FORM	
Title of the Programme Embedded Systems / EE 8691	Duration 11.09.2023 to 16.09.2023
1. Name & Designation THIRUMURUGAVEERAKUMAR S	
2. Name of the College KUMARAVURU (DISC OF TECH)	
3. No. of Resource Persons Internal - 4 External - 7	
4. Comments about the following : (Please tick the relevant box e.g. 5 - highest, 1 - lowest)	
i. Subject content	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
ii. Coverage of syllabus	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
iii. Technical Presentation by Internal Faculty	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
iv. Technical Presentation by External Faculty	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
v. Course Materials Supplied	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
vi. Tutorials	☐ 5 ☒ 4 ☐ 3 ☐ 2 ☐ 1
5. Level of Excellence and Academic Standards of FDTP	
i. Ability to identify, formulate and solve the problems	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
ii. Ability to use IT techniques and Tools to Deliver content	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
6. Developed new skills / improved the ones had already	☐ 5 ☒ 4 ☐ 3 ☐ 2 ☐ 1
7. The example and case studies helped to understand	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
8. Reception & Hospitality	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
9. Opinion / Suggestion / Effectiveness of the course : NIL	
Signature of the Participant  Date : 16.09.2023	

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CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT	
Anna University, Chennai-600025.	
PHYSICAL MODE SIX DAY FACULTY DEVELOPMENT TRAINING PROGRAMME (SUMMER - 2023)	
FEEDBACK FORM	
Title of the Programme EE 8691 Embedded Systems	Duration 11th to 16th Sep 2023
1. Name & Designation Dr. B. Sabitha, AP-III	
2. Name of the College KUMARAVURU college of technology	
3. No. of Resource Persons Internal 4 External 7	
4. Comments about the following : (Please tick the relevant box e.g. 5 - highest, 1 - lowest)	
i. Subject content	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
ii. Coverage of syllabus	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
iii. Technical Presentation by Internal Faculty	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
iv. Technical Presentation by External Faculty	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
v. Course Materials Supplied	☐ 5 ☒ 4 ☐ 3 ☐ 2 ☐ 1
vi. Tutorials	☐ 5 ☒ 4 ☐ 3 ☐ 2 ☐ 1
5. Level of Excellence and Academic Standards of FDTP	
i. Ability to identify, formulate and solve the problems	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
ii. Ability to use IT techniques and Tools to Deliver content	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
6. Developed new skills / improved the ones had already	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
7. The example and case studies helped to understand	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
8. Reception & Hospitality	☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1
9. Opinion / Suggestion / Effectiveness of the course :	
Well explained and Session was good. Signature of the Participant  Date : 16.9.23	



Centre for Faculty & Professional Development
Anna University Sponsored
Six Days Physical Mode Faculty Development

FDTF on
"Embedded Systems"

Date: 11th – 16th September 2023

Organized by

Department of Electronics and Instrumentation Engineering

Kumaraguru College of Technology, Coimbatore, Tamil Nadu.

Attendance Sheet - Date : 11.09.2023



Sl. No.	Name of the Faculty	Department	Name of the college	Mail ID	Signature
1	SIVASANKARI D	ELECTRICAL AND ELECTRONICS ENGINEERING	TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY	ssankarid@gmail.com	
2	THIRUMURUGAVEER AKUMAR S	MECHANICAL ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	thirumurugaveerakumar.s.mec@kct.ac.in	
3	B.SABITHA	MECHATRONICS ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	sabithab13@gmail.com	
4	K. AKILA	MECHATRONICS ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	akila.k.mec@kct.ac.in	
5	R. RAFFIK	MECHATRONICS ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	raffik.r.mec@kct.ac.in	
6	SURESH T	MECHATRONICS ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	suresh.t.mec@kct.ac.in	
7	BJI ROSE	ECE	DR.N.G.P. INSTITUTE OF TECHNOLOGY	bjirose@dnrgpt.ac.in	
8	ATHAPPAN V	EIE	KUMARAGURU COLLEGE OF TECHNOLOGY	athappan.v.eie@kct.ac.in	
9	MUTHURAMALINGA M.E	ELECTRONICS AND INSTRUMENTATION ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY COIMBATORE	muthuramalingam.e.eie@kct.ac.in	
10	MOHAN KUMAR J	ELECTRONICS AND COMMUNICATION ENGINEERING	KUMARAGURU COLLEGE OF TECHNOLOGY	mohan.kumar.j.ece@kct.ac.in	
11	KARPAGAM V	ELECTRONICS AND INSTRUMENTATION ENGINEERING	DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY	karpagam.vellingiri@gmail.com	
12	M.NIRMALA	EEE	KUMARAGURU COLLEGE OF TECHNOLOGY	nirmala.m.eee@kct.ac.in	
13	M.SARAVANABALAJI	AP II	KUMARAGURU COLLEGE OF TECHNOLOGY	saravanabalaji.m.eie@kct.ac.in	
14	JAYANTHI T	ECE	DR.NGP INSTITUTE OF TECHNOLOGY	jayanthiparu@gmail.com	
15	GOWTHAMI M	ECE	DR.N.G.P. INSTITUTE OF TECHNOLOGY	gowthamim@gmail.com	

Leadership Council

ACADEMIC STUDENTS MILESTONES



Samritha S



Guhan K

Leadership Council Investiture Ceremony 2023

The Leadership Council Investiture Ceremony 2023 took place on October 27 at the prestigious Ramanandha Adigalar Auditorium, marking a significant occasion to honor student leadership and achievements. The event celebrated the appointment of outstanding leaders across various departments and verticals, including two exceptional students from the EIE Department. Samritha Sivakumar was inaugurated as the President of the EIE Department, while Guhan K was appointed as the President of the Entrepreneurship Vertical, recognizing their remarkable leadership qualities and commitment to the department's goals. The ceremony was a proud moment for the department, reflecting its dedication to fostering leaders who inspired and contributed positively to the academic community and beyond. Congratulations were extended to Samritha and Guhan for their well-deserved roles, as their efforts promised to leave a lasting impact on the department and institution. Decade & GAM 2023

Decade &
GAM
2023



Global Alumni Meet and Decade Meet for the Batch of 2013, an occasion filled with nostalgia, inspiration, and knowledge sharing. Our cherished alumni returned to their alma mater, reconnecting with faculty members and engaging with current students in meaningful discussions. The highlight of the event was the career guidance session, where alumni shared their professional journeys, industry insights, and valuable advice to help students navigate their own career paths. These interactions provided students with a clearer perspective on various career opportunities and the evolving demands of the industry. The event not only celebrated the achievements of our alumni but also strengthened the bond between the department and its graduates, fostering a sense of community and mutual growth. It was a memorable day that reaffirmed the department's commitment to maintaining lasting relationships with its alumni network

