



KPR Institute of Engineering
and Technology
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407



Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER - MARCH 2021 ISSUE



EDITORIAL BOARD

➤ **Editorial Director**

Dr.M.Kathirvelu
Professor & Head

➤ **Executive Editor**

Ms.R.Aswatha
Assistant Professor

➤ **Student Editors**

Mr.R.Selvam - II ECE

Ms.S.Sharumathi - II ECE

Mr.E.Karthikeyan - III ECE

Ms.M.Indu Darshini - III ECE

Ms.R.Asvitha - IV ECE

Mr.G.Bharath - IV ECE

➤ **Vision**

To be a department of repute for learning and research with state-of-the-art facilities to enable the students to succeed in globally competitive environment

➤ **Mission**

- To impart knowledge and skill based education with competent faculty striving for academic excellence
- To instill research centres in the field that industry needs, by collaborating with organizations of repute
- To provide ethical and value based education by promoting activities addressing the societal needs and facilitates lifelong learning

➤ **Programme Educational Objectives**

- **PEO 1:** Graduates will possess an adequate knowledge and have successful technical career in Electronics and Communication Engineering or related fields
- **PEO 2:** Graduates will possess leadership qualities and demonstrate professional and ethical values
- **PEO 3:** Graduates will continue their life-long professional development through higher education or entrepreneurship

EVENT ORGANISED

- The Department of ECE organized a value added course on “Antenna Design and Fabrication” from 25-02-2021 to 02-03-2021 as a part of the skill development service to the student community. It is a good initiative for each and every student to enrich their knowledge in Antenna Design and PCB fabrication. This value added course started with introduction to basic antenna design and features of CST MICROWAVE STUDIO. Students were exposed with different concepts such as basic windows & setting, copy/paste & alignment, Solvers Types, Introduction to basic Antennas, Half- wave Dipole design and Patch Antenna, Reconfigurable Antenna. Students have gone through the fabrication of basic antenna design at the end of the course. A batch of 25 students from second and third year of ECE department participated in this value added course and this course was organized by the ECE faculty team.

**Department of Electronics and Communication Engineering
Organizes a Value Added Course on
Antenna Design and Fabrication**

on
25th February to 2nd March 2021
(10.30 AM to 04.30 PM)

Resource Persons

 Dr. V. Seethalakshmi Associate Prof. in ECE KPR Institute of Engineering and Technology Co-ordinator	 Ms. S. Nithya Associate Professor KPR Institute of Engineering and Technology Co-ordinator
 Mr. S. P. Gowdagar Associate Professor KPR Institute of Engineering and Technology Co-ordinator	 Mr. N. Sathish Kumar Associate Professor KPR Institute of Engineering and Technology Co-ordinator
 Mr. V. Chandrasekhar Associate Professor KPR Institute of Engineering and Technology Co-ordinator	 Mr. M. Singaram Associate Professor KPR Institute of Engineering and Technology Co-ordinator
 Mr. R. Ananthan Associate Professor KPR Institute of Engineering and Technology Co-ordinator	 Ms. S. Gunanandhini Associate Professor KPR Institute of Engineering and Technology Co-ordinator

Registration Link:
<https://forms.gle/gyo8oHcnrbHHLH2B>

We support the Sustainable Development Goals

Convener
Dr. M. Kathirvelu
HOD ECE

Co-ordinators
Ms. S. Nithya (AP/ECET)
Ms. S. Gunanandhini (AP/ECET)
Mr. M. Singaram (AP/ECET)

kpriet.ac.in
KPR Institute of Engineering and Technology
KPRIE Online

- The Department of Electronics and Communication Engineering organized a three days workshop on “Innovation in Automation Industry using PLC in SCADA” from 12-03-2021 to 14-03-2021. This workshop gave insights about automation using Programmable Logic Controller (PLC) system with Supervisory Control and Data Acquisition (SCADA). The main aim of the workshop was to make the

students to do project with industry oriented problems by using PLC. Mr.K.Ilanchezian gave a brief presentation on the concepts and also educated about various techniques used in industry with more real time applications. The session was highly informative and useful to a batch of 32 students.

ETE
Learn Beyond

KPR Institute of Engineering and Technology
(Autonomous, NAAC 'A')
Avinashi Road, Araur, Coimbatore.

INSTITUTIONS INNOVATION COUNCIL

Department of Electronics and Communication Engineering

Organize a three days workshop on
Innovation in Automation Industry using PLC in SCADA

Resource Person



Mr.K.Ilanchezian
Assistant Manager - Technical,
Franchisee of Prolific Systems
Technologies Pvt. Ltd,
Coimbatore.

Convener
Dr.M.Kathirvelu,
Professor & Head/ECE

Co-ordinator(s)
Mr.M.Singaram,
Assistant Professor/ECE
Ms.A.Reethika,
Assistant Professor/ECE

Date : 12.03.2021 to 14.03.2021
Time : 09.00 AM to 04.00 PM
Venue : DSP Lab

We support the Sustainable Development Goals

000000/KPRIET kpriet.ac.in

- The Department of Electronics and Communication Engineering of KPR Institute of Engineering and Technology organized a hands-on training on “Embedded IoT Systems” on 13-03-2021 as part of the skill development service to the student community. The resource person for the programme was Mr.P.Kumaravel, Technical CEO, VACT Technologies, Coimbatore. It is a good initiative for each and every student to enrich their knowledge in the field of Internet of Things.

000000/KPRIET kpriet.ac.in

Department of Electronics and Communication Engineering

Organizes an hands-on training on
Embedded IoT Systems

Resource Person



Mr.P.Kumaravel
Technical CEO,
VACT Technologies,
Coimbatore.

Convener
Dr.M.Kathirvelu,
Professor & Head/ECE

Co-ordinator(s)
Dr.D.Venugopal,
Professor/ECE
Dr.K.Kalirajan,
AsP/ECE

Date : 13.03.2021
Time : 10.00 AM to 04.00 PM
Venue : P5D Lab

We support the Sustainable Development Goals

ETE
Learn Beyond

KPR Institute of Engineering and Technology
(Autonomous, NAAC 'A')
Avinashi Road, Araur, Coimbatore.

INSTITUTIONS INNOVATION COUNCIL

4 Quality Education

We support the Sustainable Development Goals

- Dr.B.Jaishankar, AsP/ECE and Ms.M.Supriya AP/ECE, organized a webinar on “5G Networking” on 13-03-2021 from 11:00 am to 12:00 noon. Dr.M.Kathirvelu, Head/ECE welcomed the resource person Ms.Preetha, Embedded software engineer, VVDN Technologies and Mr.K.S.Navin,QA Engineer,VVDN technologies. Ms.Preetha briefed about VVDN technologies and placement opportunities in core companies. Mr.K.S.Navin explained about implementation of 5G networks in current scenario. They explained about 5G wireless technology and its scope. The Participants were active throughout the session.

Department of Electronics and Communication Engineering and Alumni Association

Organize a webinar on 5G Networking

Resource Persons

Ms.K.Preetha
Embedded Software Engineer,
VVDN Technologies,
Coimbatore.

Mr.K.S.Navin
QA Engineer,
VVDN Technologies,
Coimbatore.

Convener
Dr.M.Kathirvelu,
Professor & Head/ECE

Coordinators
Dr.B.Jaishankar, AsP/ECE
Ms.M.Supriya, AP/ECE

Date : 13.03.2021
Time : 11.00 AM to 12.00 NOON
Venue : ECE Block

KPR Institute of Engineering and Technology
(Autonomous, NAAC 'A')
Avinashi Road, Arasur, Coimbatore.

INSTITUTION'S INNOVATION COUNCIL

ETE

We support the Sustainable Development Goals

- The Department of Electronics and Communication Engineering and Continuing Education Programme (CEP) of KPR Institute of Engineering and Technology organized a webinar on “Design and Prototype FPGA and SoC Systems using MATLAB & Simulink” held on 27-03-2021. The resource persons are Dr. Praful Pai and Mr. Anand Mukhopadhyay. Dr. PrafulPai works with the Education Team at MathWorks India, where his focus is on collaborating with faculty, researchers, and students to make STEM education engaging and accelerating research in science and engineering. Mr. Anand Mukhopadhyay is an Education Technical Evangelist at MathWorks India. His role is to work with the educators and students across India for effective use of MATLAB and Simulink in their curriculum and research.

Department of Electronics and Communication Engineering
in association with Continuing Education Programme
Organizes a Webinar on
Design and Prototype FPGA and SoC Systems
using **MATLAB & Simulink**

Date
27-03-2021

10:00 AM
01:00 PM

Mr. Anand Mukhopadhyay
Education Technical Evangelist
MathWorks India

Dr. Praful P. Pai
Education Technical Evangelist
MathWorks India

Convener
Dr. M. Kathirvelu,
Professor & Head /ECE
Dr. B. Nagarajan
Head/CEP

Organizers
Dr. J. Muralidharan,
Associate Professor /ECE
Ms. S. Chandraprabha
Assistant Professor /ECE

<https://meet.google.com/dea-olpq-fvt>

kpriet.ac.in
KPR IET ONLINE

- The Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology organized a technical training program on “Pre Layout and Post Layout Simulation using Cadence” on 30-03-2021. The entire technical training content are Pre Layout of CMOS logic gates, SRAM, Buffers, Characterization of transistor and amplifiers. The resource person is Mr. L. V. Kedharnath, he is a Field Application Engineer at Entuple Technologies, Bangalore, India. He is responsible for consultation for customers across India from academic sector. He has contributed in developing learning solutions in the scope of RTL design, physical design and more as subject matter expert.

Department of Electronics and Communication Engineering
in association with
Continuing Education Programme

Organizes a technical training on
Pre-Layout and Post-Layout
Simulation using Cadence

Resource Person

Mr. L. V. Kedharnath
Field Application Engineer,
Entuple Technologies,
Bangalore.

Conveners
Dr. M. Kathirvelu,
Professor & Head/ECE
Dr. B. Nagarajan,
Head/CEP

Coordinators
Dr. J. Muralidharan,
AsP/ECE
Mr. K. Vishnusaravanabharathi,
AP/ECE

Date : 30.03.2021
Time : 10.00 AM to 04.00 PM
<https://meet.google.com/dea-olpq-fvt>

KPR Institute of Engineering and Technology
Autonomous, NAAC 'A'
Avinashi Road, Araur, Coimbatore.

INSTITUTION'S INNOVATION COUNCIL

ISTE

FACULTY PUBLICATIONS

- Dr.D.Venugopal,Mr.T.Jayasankar,Mr.N.Krishnaraj,Mr.S.Venkatraman, Mr.N.B.Prakash and Ms.G.R.Hemalakshmi, “Multifactorial Disease Detection Using Regressive Multi-Array Deep Neural Classifier”, Intelligent Automation & Soft Computing, ISSN:1079-8587, March 2021.(**SCIE**)
- Dr.B.Jaishankar, Dr.K.Murugan,Mr.S.Finney Daniel Shadrach and Ms.Anitha, “MRI Image Segmentation using BAT optimization algorithm with C means clustering”, Journal of Medical Imaging and Helath Informatics(JMIHI), ISSN:2156-7018, March 2021. (**Scopus**)
- Dr.G.Dhivyasri, Ms.NA.Logeswari, Ms.S.Miruthula, Mr.VN.Manikaraj and Mr.M.Praveen, “Small scale unmanned crop deputation Internet-of-Things based systematical approach”, International Journal of Electrical Engineering and Technology (IJEET),ISSN Print-0976-6545 ISSN Online-0976-6553,March 2021. (**Scopus**)
- Mr.S.Satheesh kumar, Mr.S.Vanakovarayan,Mr.R.SarathKumar and Mr.S.Chinnapparaj, “Classification using fundus image of eye by CNN method and self-sufficient glaucoma detection using IoT”, Elsevier- Materials Today Proceedings, ISSN :22147853-20365366, March 2021. (**Scopus**)

FACULTY PATENT PUBLICATIONS

S. No.	Name of the Applicant/Inventor	Title of the Project/Invention	Application No.	Date of Publication	Current Status
1	Mr.G.K.Jakir Hussain, Ms.M.Shanmathi, Dr.P.L.Shreenidhi, Dr.M.Maheswari, Dr.Adeel Hashmi, Mr.Asi vasudeva reddy, Mr.Sitender, Dr.Sangeetha, Ms.B.Chaitra, Mr.H.Ameresh.	IoT Based smart voting system for pandemic spread mitigation	202141006912 A	26.02.2021	Published
2	Dr.K.Kalirajan, Dr.T.Naresh babu, Dr.Deepamala biradar, Dr.P.Ganapathi, Mr.K.Chandrakumar, Dr.V.Manjula, Dr.Manabhanjan sahu, Dr.C.Somashekhar, Dr.Hema patil, Dr.Vipin kumar	An Efficient Methodology to Manage Recruitments and Vacancies by Employment exchange	202141008650 A	12.03.2021	Published

3	Dr.D.Venugopal, Dr.G.Balakrishnan, Dr.M.Anusuya, Dr.C.A.Sathiyamoorthy, Ms.B.Neeraja, Dr.A.V.K.Shanthi, Ms.R.Pushvawathi, Ms.A.Rathika, Mr.P.Mansoor, Mr.N.Rahul.	An Automated Embedded system based cloth pressing techniques	202114008637 A	12.03.2021	Published
---	---	---	----------------	------------	-----------

FACULTY AS RESOURCE SPEAKER

- Dr.D.Venugopal, Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a online Value added course on “Computational Imaging(Series -I)” conducted by KPR Institute of Engineering and Technology, Coimbatore on 22-03-2021.

Department of Electronics and Communication Engineering
 Organizes a Value Added Course on **Computational Imaging (Series - I)**
Resource Persons:
Dr.D.Venugopal Professor/ECE, KPR Institute of Engineering and Technology, Coimbatore.
Dr.B.Jai Shankar AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore.
Mr.V.Chandran AP/ECE, KPR Institute of Engineering and Technology, Coimbatore.
Mr.S.Finney Daniel AP/ECE, KPR Institute of Engineering and Technology, Coimbatore.
Ms.A.Reethika AP/ECE, KPR Institute of Engineering and Technology, Coimbatore.
Convenor: Dr.M.Kathirvelu, Professor & Head/ECE
Coordinators: Dr.D.Venugopal, Professor/ECE, Mr.S.Finney Daniel, AP/ECE
Date: 22.03.2021 to 26.03.2021
Time: 03:00 PM to 05:00 PM
Venue: ECE Block
 We support the Sustainable Development Goals
 KPR Institute of Engineering and Technology (Autonomous, NAAC 'A')
 Avinashi Road, Anasur, Coimbatore.
 INSTITUTION'S INNOVATION COUNCIL
 IETE

- Dr.K.Kalirajan, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a online Webinar on “Imaging Techniques using MATLAB” conducted by Sri Shanmugha College of Engineering and Technology, Sankari, Tiruchengode on 29-03-2021.



**Sri Shanmugha College of
Engineering & Technology**

Department of ECE
**Webinar on Imaging Techniques using
MATLAB**

Resource Person
Dr.K.Kallrajan
Associate Professor
ECE
KPR Institute of
Engg. & Technology
Coimbatore



29th March 2021 ,11am

- Mr..S.Satheesh kumar, Assistant Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for an online Webinar on “Role of AI in Process Automation” conducted by Rajalakshmi Institute of Technology, Chennai on 29-03-2021.



Department of Mechanical Engineering
organizes
Webinar on
"Role of Artificial Intelligence in Process Automation"

Resource Person
Mr.S.Satheesh Kumar M.E., MIETE.,MISTE.,(Ph.D),
Assistant Professor, Department of Electronics and Communication
Engineering
KPR Institute of Engineering and Technology
Coimbatore

Google Link: meet.google.com/uue-shwr-kgu **Date : 29.03.2021**

All are cordially invited

Event Co-ordinator:
Mr.N.Lingayat Assistant Professor,
Department of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai

Co-ordinator:
Dr.P.Rajaguru Professor & Head,
Department of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP	Organization Name	Start Date	End Date
Dr.S.M.Ramesh	Emerging Trends and Challenges in VLSI Mixed-Signal Processing for Fourth Industrial Revolution	Kongunadu College of Engineering and Technology	01-03-2021	13-03-2021
Mr.G.Pradeep kumar	Emerging Trends and Research Challenges in Next Generation Wireless Networks	Kongunadu College of Engineering and Technology	22-02-2021	27-02-2021

PLACEMENT DETAILS

S.No	Name of the Student	Name of the Company
1	S Vaishnav	Byjus
2	K Vishnu	Byjus
3	Maria Jose Praveen	Powerpoint Solutions

Total Number of students Placed: 80

Total Number of Offers: 105

Total Number of Companies Visited:40

ACHIEVEMENTS

STUDENT ACHIEVEMENT

- Mr.K.Rakesh Kumar of final year ECE won “**Silver Medal**”in Tamil Nadu state seniorwrestling championship held on 26th and 27thMarch 2021.

IIPC ACTIVITIES

COMPANIES VISITED FOR CONSULTANCY/ STUDENT INTERNSHIP IN MARCH 2021

- Genn Automation
- Sunshiv Electronic Solutions
- Sai Incubation Centre

- Lyle Technologies
- Wireline Solutions
- Cindan Technologies
- Enthu Technology Solutions India Pvt. Ltd.
- Salzer Electronics Pvt. Ltd.
- Popular Systems
- SR Electronics

MoU

- The department of ECE has signed MoU with Sunshiv Electronic Solutions and Sai Incubation Centre on 11.03.2021. Various activities like internship, placement and guest lecture are planned in lieu of signing MoU.



CONSULTANCY

Two consultancies have been started in associated with SR systems and Enthu Technologies.

INTERNSHIP

6 students were undergoing internship at popular systems and 10 students were undergoing internship at VACT Technologies