



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407



**Department of Electronics and Communication Engineering
(Accredited by NBA)**

NEWSLETTER- DECEMBER 2022 ISSUE



EDITORIAL BOARD

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➤ **Vision**

To be a centre of excellence in the emerging areas of Electronics and Communication Engineering through research, innovation and value based education

➤ **Mission**

- To develop competency in emerging technologies through knowledge and skill based education
- To provide conducive environment for research and innovation to cater the societal needs
- To inculcate moral and ethical values to become socially responsible engineers

➤ **Programme Educational Objectives**

- **PEO 1:** Apply Electronics and Communication Engineering principles to develop socially and environmentally acceptable engineering solutions.
- **PEO 2:** Embrace technological challenges through skill upgradation or higher education or research.
- **PEO 3:** Exhibit leadership qualities with professional and ethical values.

EVENT ORGANISED

The guest gave ideas on the possible exams that are there for engineering graduates. The point discussed is given below. Staff Selection Commission (Central Government) - Students those who have completed one degree can apply for JUNIOR ENGINEER POST. Combined Graduate level exam is also conducted mainly to enter in various departments like narcotics and director of intelligence. UPSC - The exam is conducted twice in a year as Combined Defense service where ECE graduates can apply with a training period of 1 year with stipend. upsc.gov.in can be visited for any official notification. Civil Service Exam - This exam is mainly conducted for IAS, IFS, IPS. Usually the notification is given in the month of February followed by prelims in the month of May and finally the interview in the month of August or September. ISRO - Screening will be based on GATE score. The engineering graduates will be selected under Scientist B cadre with a pay of 60,000 to 70,000.



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Great Place To Work
Certified
MAR 2022 - MAR 2023
INDIA

In association with Career Advancement Cell
Organizes a seminar on
Career Opportunities in Government Sector for ECE Graduates

Resource Person

Mr. R Kamalakannan
Assistant Director,
PA of Coimbatore District Collector.

Convenor
Dr. J. Indra,
Professor & Head/ECE
Dr. R. Saranya,
Head/CAC

Coordinators
Dr. Jaikumar. R.,
Associate Professor / ECE
Ms. S. Priyadharsini,
AP(Sr.G)/ECE

Thanam Hall

21.12.2022
10.00 AM to
12.00 NOON

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FACULTY PUBLICATIONS

- Deepa, S., Sridhar, K. P., Baskar, S., Mythili, K. B., **Reethika, A.**, & Hariharan, P. R. (2022). IOT-enabled Smart Healthcare Data and health monitoring based machine learning algorithms. *Journal of Intelligent & Fuzzy Systems*, 1–15. <https://doi.org/10.3233/jifs-221274>
- **D. Selvakumar**, K.P. Sonu, G. Ramadoss, R. Sivaramakrishnan, R. Jayavel, M. Eswaramoorthy, K. Venkateswara Rao, A. Pugazhendhi, “Heterostructures of polyaniline and Ce–ZnO nanomaterial coated flexible PET thin films for LPG gas sensing at standard environment”, *Chemosphere*, 2022,137492, ISSN 0045-6535, <https://doi.org/10.1016/j.chemosphere.2022.137492>.
- Prasad, S. J., **Indra, J.**, Thangatamilan, M., Meena, R. S., Muthusamy, S., Panchal, H., Krishnamoorthy, M., Sadasivuni, K. K., & Doshi, M. (2022). Design and development of Novel Computer Vision-based automatic calibration system for Analog Dial Pressure Gauge. *Smart and Sustainable Manufacturing Systems*, 6(1), 20210019. <https://doi.org/10.1520/ssms20210019>

FACULTY CONFERENCE PUBLICATION

- B. P. Chapa, J. Venkata Suman, G. Tummalapalli and **Arun Sekar Rajasekaran**, "Uplink Massive MIMO Network Performance," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972387. <https://ieeexplore.ieee.org/document/9972387>
- S. Dannana, T. Prabakaran, **Arun Sekar Rajasekaran**, N. Kumareshan, S. F. Daniel Shadrach and K. P, "A Novel System Model for Managing Cyber Threat Intelligence," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-5, doi: 10.1109/MysuruCon55714.2022.9972703. <https://ieeexplore.ieee.org/document/9972703>
- **S. Suganyadevi**, S. Shanmuga Priya, B. Kiruba, M. Gomathi and J. N. Kalshetty, "Classification of EEG signals using Machine learning algorithms," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972364. <https://ieeexplore.ieee.org/document/9972364>
- **S. Suganyadevi**, S. S. Priya, R. Menaha, S. Sathiya, P. Jha and S. B. S, "Smart Healthcare in IoT using Convolutional Based Cyber Physical System," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972679. <https://ieeexplore.ieee.org/document/9972679>
- Arul A; **Kathirvelu M**; Parimala V; Ganeshkumar D, "Design and Implementation of High-Speed Low Power Bi-stable Circuits for Digital Circuits Applications," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-4, doi: 10.1109/MysuruCon55714.2022.9972469. <https://ieeexplore.ieee.org/document/9972469>
- **Ramnivas**; Kathirvelu M, “Wireless Electronic Notice Board and Attendance Monitoring System” in 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) –2022 , Dated 15th & 16th December 2022, Organized by CMR Institute of Technology, Bengaluru, India.
- **S. Suganyadevi**, V. Seethalakshmi, N. Vidhya, K. Balasamy, “A Robust Image-Driven CNN Algorithm to Detect Skin Disease in Healthcare Systems”, in Healthcare 4.0, Chapman and Hall/CRC, 2022, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003217435-11>

- Renukadevi, **S. Suganyadevi**, K. Balasamy, “Healthcare data analytics using Deep learning Paradigm”, in Deep Learning for Cognitive Computing Systems: Technological Advancements
- Leena Bojaraj, **R. Jaikumar**, “Hierarchical Clustering Fuzzy Features Subset Classifier with Ant Colony Optimization for Lung Image Classification”, in Image Processing and Intelligent Computing Systems, Jan 2023, CRC Press, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003267782-4>, ISBN 9781003267782

PATENT DETAILS

S.no	Application number	Title of the paper	Name of the applicant	Status
1	202241068907 A	Automated Equipment to ward-off feathered friend	Dr.K.Kalirajan,KPRIET Dr.K.Murugan,KPRIET Mr.T.venkatesh,KPRIET Mr.T.Shanmugaraja,KPRIET Ms.M.Supriya,KPRIET Mr.R.Balamuruges,Slicon system Dr.B.Jaishankar,KPRIET Mr.T.Jagadesh,KPRIET Mr.W.A.Tharunkumar,KPRIET Mr.S.Govardhan,KPRIET	Published

FACULTY AS RESOURCE SPEAKER

- Dr.M.Kathirvelu, Professor, Department of ECE, KPR Institute of Engineering and Technology as resource person as “Applications of Digital Electronics in computer system “ organised by school of Computing Science,KPRCAS,Coimbatore. 09.12.2022.

KPR College of
Arts Science
and Research
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

School of Computing Science
Department of Computer Science
Organizes
a
Guest Lecture on

**“ Applications of Digital Electronics
in Computer System”**

Resource Person
Dr. Kathirvelu M
Director, Planning and Development
KPR Institute of Engineering and
Technology, Coimbatore

09.12.2022 10.00 am Veena Hall

- Dr.K.S.Tamilselvan , Professor , Dr.M.Kalamani,Professor, Dr.R.Jaikumar,Associate Professor, Dr.D.Selvakumar,Associate Professor, Mr.G.K.Jakir Hussain, Assistant Professor(Sl.G), Mr.K.Saravanan,Assitant Professor(Sr.G), Mr.T.Venkatesh, Assitant Professor(Sr.G), Abhishek Sahu , Assitant Professor(Sl.G), Ms.S.Priyadharsini, Assitant Professor(Sr.G), Department of ECE, KPR Institute of Engineering and Technology as resource person as “Smart system design using Internet of Things “ organised KPR Institute of Engineering and Technology 19.12.2022 to 31.12.2022.



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AMI Centre and Intelligence Information Networking (IIN) SIG
Organizes an Internship on
Smart system design using Internet of Things
Resource Persons

 Dr.K.S.Tamilselvan Professor, KPR Institute of Engineering and Technology, Coimbatore.	 Mr.K.Saravanan Assistant Professor(Sr.G), KPR Institute of Engineering and Technology, Coimbatore.	<p style="text-align: right;">Convenor Dr.M.Kathirvelu, Professor & Head/ECE</p> <p style="text-align: right;">Coordinators Mr.K.Saravanan, AP(Sr.G)/ECE 9715284215 Mr.T.Venkatesh, AP(Sr.G)/ECE 9842151270 Dr.D.Selvakumar, AsP/ECE 9994372244</p>
 Dr.M.Kalamani Associate Professor, KPR Institute of Engineering and Technology, Coimbatore.	 Mr.T.Venkatesh Assistant Professor(Sr.G), KPR Institute of Engineering and Technology, Coimbatore.	
 Dr.R.Jaikumar Associate Professor, KPR Institute of Engineering and Technology, Coimbatore.	 Mr.Abhishek Sahu Assistant Professor(Sr.G), KPR Institute of Engineering and Technology, Coimbatore.	
 Dr.D.Selvakumar Associate Professor, KPR Institute of Engineering and Technology, Coimbatore.	 Ms.S.Priyadharsini Assistant Professor(Sr.G), KPR Institute of Engineering and Technology, Coimbatore.	 AMI Centre  
 Mr.G.K.Jakir Hussain Assistant Professor(Sr.G), KPR Institute of Engineering and Technology, Coimbatore.	<p>Registration Link: bit.ly/Intern-SSD Registration Fees: Rs.1000/-  19.12.2022 to 31.12.2022 09.30 AM to 04.00 PM</p>	

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- Dr.M.Kalamani , Professor, Department of ECE, KPR Institute of Engineering and Technology as resource person as International conference co-chair person organised Machine intelligence Research Labs 14.12.2022

Machine Intelligence Research Labs (MIR Labs)
Scientific Network for Innovation and Research Excellence
 Auburn, Washington, USA


22nd Hybrid Intelligent Systems (HIS'22)
 On the World Wide Web


Certificate of Appreciation


This is to certify that the following technical session was co-chaired online using Zoom platform during the 22nd International Conference on Hybrid Intelligent Systems held on December 13-14, 2022.

Co-Chair : M.Kalamani
HIS 2022 : Session 3
Date & Time : December 14, 2022; 11:00 - 13:00 GMT

On behalf of the organizing committee, we wish to thank you for your valuable support and contribution.




General Chair
 Prof. (Dr.) Ajith Abraham
 Director, MIR Labs, USA
 December 20, 2022



FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP/Conference/Online Course	Organization Name	Start Date	End Date
Mr.Abhishek sahu	IEEE ICEE 2022	IISc Bangalore	12/11/2022	12/12/2022
Ms.S.Suganyadevi	Recent Trends in Signal and Image Processing with hands-on training using MATLAB	LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY	9/19/2022	9/30/2022
Dr.B.Jaishankar	Acquiring Data	NASSCOM	12/17/2022	12/17/2022
Dr.K.S.Tamilselvan	Data Science	NASSCOM	12/22/2022	12/22/2022
Mr.G.K.Jakir Hussain	ACQUIRING DATA	NASSCOM	12/11/2022	12/18/2022
Mr.K.Saravanan	Acquiring Data	NASSCOM	12/16/2022	12/22/2022
Mr.G.Pradeepkumar	Acquiring Data	NASSCOM	12/1/2022	12/17/2022
Mr.S.P.Cowsigan	Acquiring Data	NASSCOM	12/10/2022	12/25/2022

Dr. Jaikumar	Acquiring Data	NASSCOM	12/24/2022	12/24/2022
S. Priyadharsini	Acquiring Data	NASSCOM	12/24/2022	12/24/2022
Ms.S.Suganyadevi	Acquiring Data	NASSCOM	12/22/2022	12/22/2022
Dr. J Muralidharan	Acquiring Data	NASSCOM	12/23/2022	12/23/2022
Ms.S.Suganyadevi	AI and Metaverse	NASSCOM	12/9/2022	12/9/2022
Mr.Abhishek sahu	Thin Body Doping-Free Bipolar Transistors: A Performance Projection at Circuits Level	IEEE International Conference on Emerging Electronics	12/13/2022	12/13/2022
Mr.S.P.Cowsigan	Performance Analysis of E-Learning System Using Data Mining Techniques	IEEE Conference	12/21/2022	12/21/2022
Dr.M.Kalamani	A handy diagnostic tool for early congestive heart failure prediction using Catboost classifier	22nd Hybrid Intelligent Systems (HIS'22	12/13/2022	12/13/2022
Dr.M.Kalamani	Hybrid Convolutional Multilayer Perceptron for Cyber Physical Systems	22nd Hybrid Intelligent Systems (HIS'22)	12/13/2022	12/13/2022

FACULTY INTERNSHIP

Name of the Faculty	Name of the industry	Start Date	End Date
Dr.J.Prasad	Wireline Solution (INDIA) PVT.LTD.,	12/6/2022	12/12/2022
Dr.M.Kalamani	Pinesphere Solutions	12/6/2022	12/12/2022
Ms.S.Priyadharsini	Pinesphere Solutions	12/6/2022	12/12/2022
Mr.G.Pradeepkumar	Mytronics India Private Limited, Mysuru	20/12/2022	26/12/2022
Ms. Gunanandhini S	Enthu Technology Solutions India Pvt Ltd	16/12/2022	22/12/2022
Dr. J Muralidharan	VAct Technologies Private Limited	16/12/2022	22/12/2022
Dr. S M Ramesh	VAct Technologies Private Limited	16/12/2022	22/12/2022
Ms. M D Saranya	VAct Technologies Private Limited	16/12/2022	22/12/2022

STUDENT ACHIEVEMENT

S.No	Name of the Student	Year	Title of the Event	Organized by (Name of College and Club)	Prize - Merit Position
1	Lalith	III	Robo Soccer	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
2	Varun	III	Robo Soccer	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
3	Madhavan	III	Robo Soccer	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
4	Sanjay	II	Robo Soccer	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
5	Lalith	III	Robo Race	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
6	Varun	III	Robo Race	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
7	Madhavan	III	Robo Race	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
8	Sanjay	II	Robo Race	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.5000
9	Lalith	III	Project Presentation	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.3000
10	Varun	III	Project Presentation	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.3000
11	Madhavan	III	Project Presentation	Vishnu institute of technology,Bhimavaram, Andhra Pradesh	I Place with a Cash Prize of Rs.3000
12	Madhavan	III	Drone Racing	Vishnu institute of technology,Bhimavaram,	II Place with a Cash Prize of

				Andhra Pradesh	Rs.15000
13	Akash	III	Drone Racing	Vishnu institute of technology, Bhimavaram, Andhra Pradesh	II Place with a Cash Prize of Rs.15000

IIPC ACTIVITIES

INDUSTRY VISITS

- Dr.J.Indra, Dr.B.Jaishankar, Dr.V.Seethalakshmi, Dr.K.Kalirajan, Mr.D.Ram Nivas visited Tessolve Semiconductors on 21/12/2022 and discussed about MoU and testing facilities.
- Dr.J.Indra, Dr.B.Jaishankar, Dr.V.Seethalakshmi, Dr.K.Kalirajan, Mr.D.Ram Nivas visited Cimware, Festo on 21/12/2022 and discussed about industry academia collaborations



STUDENT INTERNSHIP

- 203 II year ECE students undergone internships at various organizations like MachDatum Private Limited, NSIC, ITI Limited, V-Guard Industries, Enthu Technology Solutions Private Limited etc for 2 weeks.





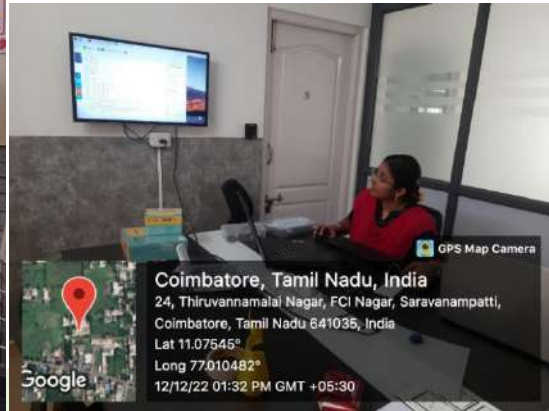
FACULTY INTERNSHIP

- Dr.K.Murugan and Dr.J.Prasad undergone internship at Wireline Solutions Private Limited from 06/12/2022 to 12/12/2022.
- Dr.M.Kalamani and Ms.S.Priyadharsini undergone internship at Pinesphere Solutions India Private Limited from 06/12/2022 to 12/12/2022.
- Mr.G.Pradeepkumar undergone internship at Mytronics India Private Limited, Mysuru from 20/12/2022 to 26/12/2022.
- Dr.S.M.Ramesh, Dr.J.Muralidharan, Ms.M.D.Saranya undergone internship at VACT Technologies from 16/12/2022 to 22/12/2022.
- Ms.S.Gunanandhini undergone internship at Enthru Technology Solutions Private Limited from 16/12/2022 to 22/12/2022.
- Dr.D.Selvakumar undergone internship at IIT, Madras from 08/12/2022 to 15/12/2022.

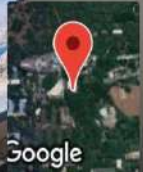
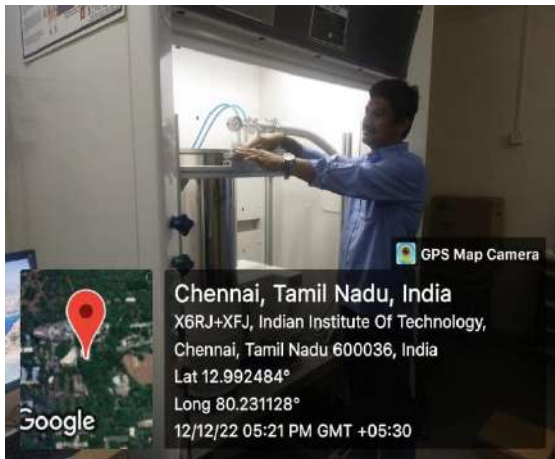




Ramanathapuram, Tamil Nadu, India
25, Mariamman Kovil St, T Nagar,
Ramanathapuram, Tamil Nadu 623501, India
Lat 10.996819°
Long 76.997816°
21/12/22 10:57 AM GMT +05:30



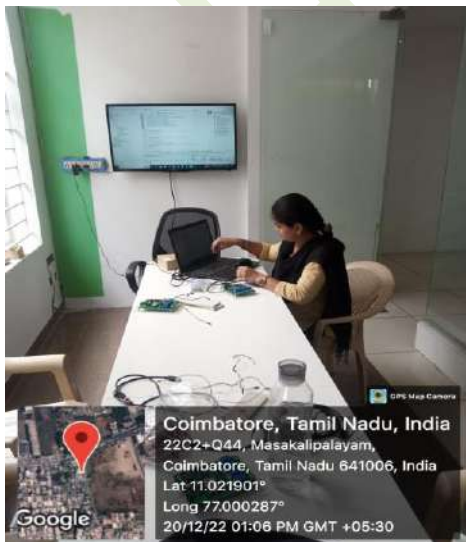
Coimbatore, Tamil Nadu, India
24, Thiruvannamalai Nagar, FCI Nagar, Saravanampatti,
Coimbatore, Tamil Nadu 641035, India
Lat 11.07545°
Long 77.010482°
12/12/22 01:32 PM GMT +05:30



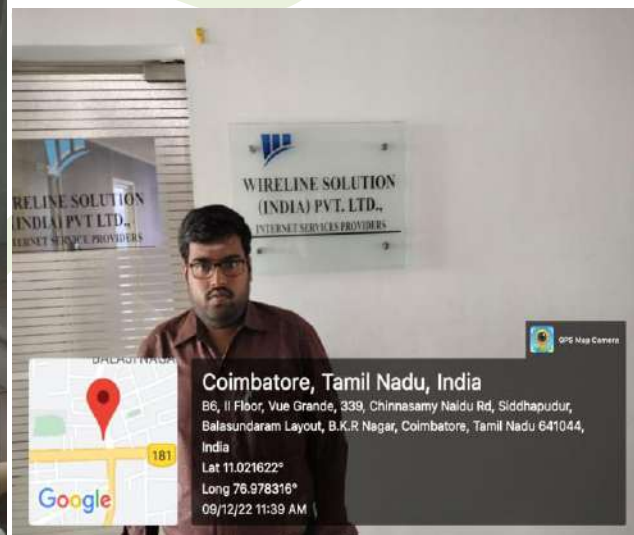
Chennai, Tamil Nadu, India
X6RJ+XFJ, Indian Institute Of Technology,
Chennai, Tamil Nadu 600036, India
Lat 12.992484°
Long 80.231128°
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Mysuru, Karnataka, India
180, Hebbal Industrial Estate, Vanivilasapuram,
Mysuru, Karnataka 570016, India
Lat 12.353368°
Long 76.596019°
23/12/22 10:24 AM GMT +05:30



Coimbatore, Tamil Nadu, India
22C2+Q44, Masakalipalayam,
Coimbatore, Tamil Nadu 641006, India
Lat 11.021901°
Long 77.000287°
20/12/22 01:06 PM GMT +05:30



Coimbatore, Tamil Nadu, India
B6, II Floor, Vue Grande, 339, Chinnasamy Naidu Rd, Siddhapudur,
Balasundaram Layout, B.K.R Nagar, Coimbatore, Tamil Nadu 641044,
India
Lat 11.021622°
Long 76.978316°
09/12/22 11:39 AM

CONSULTANCY ACTIVITIES

- Dr.M.Kalamani and team successfully deployed heat pump controller using IoT at V-Guard Industries, Perundurai.

