



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



Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER- DECEMBER 2020 ISSUE



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➤ **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 organised an AICTE-AQIS sponsored Short Term Training Program (STTP) on “Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-III)” from 14th December 2020 to 19th December 2020. Session speakers are eminent experts from industry, R&D institutes, renowned universities and institutes. Total of 50 participants attended the STTP. The participants were given insights about IoT application development for healthcare with enhanced IoT security and developed knowledge to use deep learning efficiently to power the IoT-based applications for smart healthcare. The participants were faculty, research scholars, postgraduate students of engineering colleges recognized by AICTE, New Delhi and. The participants learned to train Convolutional Neural Networks(CNN) to develop deep learning architecture for medical data processing and treatment planning. The participants were given insights about LoRaWAN communication and implementation of IoT based devices in industries.

AICTE Sponsored Short Term Training Program (STTP)
on
**Integrative Internet of Things and
Deep Learning for Smart Healthcare (Series-III)**
Organized by
Department of Electronics and Communication Engineering
14th December to 19th December 2020

Session Time: 10:30 AM to 12:30 PM

<p>14.12.2020</p> <p>Deep Learning for Healthcare: Review, Opportunities and Challenges Dr. C. Sankar Selvaraj, Rani Assamisi, Professor, IIT Madras Dr. Ganesh Babu, Associate Professor, Anna University</p>	<p>17.12.2020</p> <p>Implementation of SDT with a Graphical Approach Mr. S. Esakki Raju Senior Technical Engineer, TCS India, Mysore</p>
<p>15.12.2020</p> <p>Artificial Intelligence in Healthcare: Applications using NVIDIA Clara Mr. V. Anirudh Software Engineer, Intel, Pune, India</p>	<p>18.12.2020</p> <p>LoRaWAN for IoT Based Health Care Devices Mr. R. C. Sivasubramanyam Member and Director, ICHTIA, Government of Karnataka, Services and R&D, AICTE Academy for Students, Bangalore</p>
<p>16.12.2020</p> <p>Integrating IoT with Deep Learning for Health Care Applications Dr. M. Priyashankari Research Fellow, IIT Madras Senior of Computer Science and Engineering, Anna University, Chennai</p>	<p>19.12.2020</p> <p>IoT for Healthcare: Review, Opportunities and Challenges Dr. K. Suresh Babu Professor, IIT Madras Senior Lecturer, IIT Madras</p> <p>Security Issues and Future Challenges in IoT Mr. G. Ram Gopal Assistant Professor, IIT Madras Member of IIT Madras, IIT Madras</p>

Coordinator
Dr. M. Kathirvelu
 HOD, ECE

Co-ordinators
Dr. V. Seethalakshmi
 APT, ECE

Ms. R. Anusuya
 A.T. CE

For Registration: <https://bit.ly/2V99nFR>
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FACULTY PUBLICATIONS

- G.Pradeepkumar, M.D.Saranya, K.Tamilselvan, Jhanani Shree U, Mazher Iqbal J L and S. Kavitha, “Investigation on Watermarking Algorithm for Secure Transaction of Electronic Patient Record by Hybrid Transform”, International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), December-2020, ISBN: 978-1-7281-5464-0. **(IEEE indexed in Scopus)**
- Mr.S.Satheesh Kumar, N. Nanthini, B.Maruthi Shankar and R.Senthil Ganesh, “Deep Learning approach for Minimizing Disease Spread using Face Identification and Contact Tracing”, International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), December-2020, December-2020, ISBN: 978-1-7281-5464-0. **(IEEE indexed in Scopus)**
- Mr.S.Satheesh Kumar, S Karthik, P Vivek Karthick, R.Thirrunavukkarasu and D Selvakumar, “Smart Solar Panel using Light Dependent Resistors”, IOP Conf. Series: Materials Science and Engineering, December-2020, [ISSN 1757-899X](#). **(Scopus)**
- Ms.S.Nithya, Ms.R.Aswatha, “Performance analysis of wide band microstrip patch antenna for 5G communication”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Ms.R.Dhivya Devi, “Automatic remote control based surface level debris cleaning and signalling”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.M.Manikandan, “Impact of Methyl Cellulose surfactant in uniform dispersion on Carbon nanotube suspension”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.T.Jagadesh, Benjamin. S and Jayaprahas. J, “Modelling of Radar Echoes Utilizing Digital Beamforming”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.G.Pradeepkumar, D.Arulanantham, C.Palanisamy, G.Pradeepkumar and P.Dineshkumar, “An Energy-Efficient Ant System based Routing for the Internet of Things and Its Applications”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.G.Pradeepkumar, “A Location Based Energy Proficient Path Routing For Internet of Things and Its Applications”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.

- Dr.B.Jaishankar, V.Govindaraj and Srikanth, “IIR filter design using African Buffalo Optimization”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Ms.M.Supriya, Shanmugaraja T,Kavin kumar K,Godwin Cryil N and Pradeep M, “Efficient low power region enhanced architecture for DWT and AES for protected coding image”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Dr.V.Seethalakshmi, Geetha. S, Saranya.G, Durga. S and Manikandan S, “Reconfigurable High Gain and Wide Band Antenna for 5G Communication”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Ms.A.Reethika, Vithya R, Kanivarshini S,Krishnakumar S and Priyadharshini A, “Deblurring of Motion Blurred Images Using GLCM and Elastic Net Regularization”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology KPR Institute of Engineering and Technology, Coimbatore.
- Ms.A.Reethika, S.Krishnakumar, K.Sneha, “Sensor based Colour Sorting Robot for Candy Manufacturing”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology , KPR Institute of Engineering and Technology, Coimbatore
- Dr.N.Rajeshkumar, “IOT:SURVEY AND CHALLENGES ON THREATS AND SECURITY”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.T.Shanmugaraja, Supriya M,Prabhu kumar S,Sri raman, “Low power LUT architecture to enhance stability”,International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore
- Ms.S.Gunanandhini , Sowndharya G, Dhivyasri G, Vinothkumar K, “SURVEY BASED ON CHANNEL ESTIMATION IN MIMO TECHNIQUES”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.V.Chandraprasad, Ramprabhu.S, Aswath.S, Pandiarajan.M and Boopathi.S, “ Elliptically bended hybrid ring coupler”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology , KPR Institute of Engineering and Technology, Coimbatore.
- Dr.S.M.Ramesh,Mahes Kumar P, Balaji G and Gomathy B, “An Improved VLSI Design of 16 Bit Data Comparator using Bubble Sorting Algorithm”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Dr. M. Kathirvelu, Ganeshkumar D and Palanivelraj.K , “Design and Implementation of High Speed Low power Bi-stable Circuits for Digital Circuits Applications”, International

Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.

- Mr.G.K.Jakir Hussain, Dr. K. S. Tamilselvan, Dr. R. Tamilanban and Dr. M. Vinoth Saravanan, “A Comprehensive Review of Multimodal Medical Image Fusion Techniques”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.M.Singaram, Krishna Kumar E, Chandraprasad V, Finney Daniel Shadrach and Gowthaman Manoharan, “Miniaturized Angularly Stable Dual Band Frequency Selective Surface for K and Ka Band”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology KPR Institute of Engineering and Technology, Coimbatore.
- Mr.S.P.Cowsigan and D.Saraswady, “Miniaturization and Bandwidth Enhancement of Quarter-mode and Half-mode SIW Cavity-Backed Antenna for 5G Applications”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Ms.R.Aswatha, Dhivya S, Priyadharsini S, Soundararaj R D and Nithya S, “Implementation of Eigenvalue Based Cooperative Spectrum Sensing in Cognitive Radio”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.K.Saravanan, “FINGERPRINT BASED VEHICLE VALIDATION AND MILEAGE MONITORING SYSTEM”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.T.Venkatesh, Kothai Natchiar T, Mathavan N and Kothandathilipan VM, “CNN and MLSTM based sentiment analysis”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.S.Satheesh kumar, Pradeep Pushpanathan, Maruthi Shankar and Muralidharan, “Novel Vivaldi antenna design for 5G applications”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology,KPR Institute of Engineering and Technology, Coimbatore.
- Dr.S.Kirubakaran, Kamalanathan C and Dinesh Ponnuswamy, “An Intelligent Tire Pressure Monitoring System”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Dr.K.Kalirajan, “IoT based remote livelihood monitoring for elderly people care assessment”, International Conference on Advances in Computing, Communication, Automation and Biomedical Technology, KPR Institute of Engineering and Technology, Coimbatore.
- Mr.K.Siddharthraju, Bagavathi, Dhivyadevi and Dinesh P, “Comparison of Swarm Optimization and Memetic Algorithm for Systolic Mapping of Texture Analysis”, KPR Institute of Engineering and Technology, Coimbatore.

FACULTY AS RESOURCE SPEAKER

- Dr.N.Rajesh Kumar, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for an AICTE sponsored FDP on “Cyber Security Implications of 5G Technology”, conducted by Ramachandra college of Engineering, Andhra Pradesh on 02.12.2020.



FACULTY PARTICIPATION

Name of the Faculty	FDP/STTP/OFDP Title	Organization Name	Start Date	End Date
Mr. S. Balamurali	STTP on Integrative IOT and deep learning for smart healthcare	KPR Institute of Engineering And Technology Coimbatore	14-12-2020	19-12-2020
Ms.S.Chandraprabha	FDP on Augmented Reality (AR)/ Virtual Reality (VR)	AICTE	15-12-2020	19-12-2020
Ms.MD.Saranya	STTP on AI in Health care	SSN College of Engineering	14-12-2020	20-12-2020

Dr.J.Muralidharan	FDP onInsight of Analog And Digital IC Design : Industry and Research Perspective	SRM Institute of Science And Technology	14-12-2020	19-12-2020
Ms.A.Reethika	STTP onIntegrative Internet Of Things And Deep Learning For Smart Healthcare	KPR Institute of Engineering And Technology	14-12-2020	19-12-2020
Dr.S.M.Ramesh	STTP on Integrative Internet Of Things And Deep Learning For Smart Healthcare	KPR Institute of Engineering And Technology	14-12-2020	19-12-2020
Dr.S.M.Ramesh	STTP onRecent Trends in IoT and IIoT for Real world applications through LoRa and LoRaWAN	Bannari Amman Institute of Technology	26-11-2020	02-12-2020
Mr.S.P.Cowsigan	FDP onMoodle Learning Management System	Spoken Tutorial, IIT Bombay	15-09-2020	31-12-2020
Mr.S.P.Cowsigan	AICTE Sponsored STTP on "Energy Efficient Techniques for 5G Wireless Communications"	Pune Institute of Computer Technology, Pune	07-12-2020	12-12-2020
Ms.S.Chandraprabha	FDP on Augmented Reality (AR)/ Virtual Reality (VR)	AICTE	15-12-2020	19-12-2020