



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407



Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER - MAY 2021 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 Electronics and Communication Engineering of KPR Institute of Engineering and Technology organized awareness program on “Glimpse of MATLAB Programming for Budding Engineers” on 18.05.2021. The program was organized for first year ECE students. The resource persons were Dr. B. Jaishankar and Mr. T. Jagadesh from Department of ECE, KPR Institute of Engineering and Technology. This awareness program enriched the participants about fundamentals of MATLAB programming, various functions and toolboxes in MATLAB. Simulation of various mathematical concepts and basic signal generation using MATLAB was demonstrated.

The poster is for an awareness program titled "Glimpse of MATLAB Programming for Budding Engineers". It is organized by the Department of Electronics and Communication Engineering at KPR Institute of Engineering and Technology. The resource persons are Dr. B. Jaishankar (Associate Professor/ECE) and Mr. T. Jagadesh (Assistant Professor/Sr.G/ECE). The event is scheduled for 18.05.2021 from 03:00 PM to 04:00 PM. The meeting link is <https://meet.google.com/ugm-nyrnf-kdz>. The poster also features logos of KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, and various accreditation bodies like AICTE, NBA, and ISO 9001:2015. At the bottom, it lists the Convener as Dr. M. Kathiravelu and the Organizers as Dr. B. Jaishankar and Mr. T. Jagadesh.

- The Department of Electronics and Communication Engineering of KPR Institute of Engineering and Technology organized a webinar on “Innovator’s Tool Box” on 18.05.2021. This program was organized for second year ECE students. The resource person was Mr. Mohan Raj Kumar from JP Morgan Chase, Bangalore. The program exposed the participants about the current trends in industry and their expectation from students.

The poster is for a webinar titled "Innovator's Tool Box". It is organized by the Department of Electronics and Communication Engineering at KPR Institute of Engineering and Technology. The resource person is Mr. Mohan Raj Kumar, Associate Vice President at JP Morgan Chase, Bangalore. The webinar is scheduled for 18.05.2021 from 10:00 AM to 11:30 AM. The meeting link is <https://meet.google.com/ugm-nyrnf-kdz>. The poster also features logos of KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, and various accreditation bodies like AICTE, NBA, and ISO 9001:2015. At the bottom, it lists the Convener as Dr. M. Kathiravelu and the Organizers as Mr. N. Sathish Kumar and Mrs. Divya Daniel.

- The Department of Electronics and Communication Engineering organized a webinar on “Digital Profile Building” on 10.05.2021. Webinar on resume building was delivered by resource person Mr.G.Pradeep Kumar, AP (Sr G)/ECE & LinkedIn profile building was delivered by resource person Ms.S.Chandrababha, AP/ECE.



The poster is circular with a blue and green border. At the top, it features logos for KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, and other institutional symbols. The main title is "Organizes Webinar on Digital Profile building". Below this, a section titled "Resource Persons" lists two individuals: Mr. G. Pradeep Kumar, Assistant Professor (Sr.G), responsible for "Resume Building", and Ms. S. Chandrababha, Assistant Professor, responsible for "LinkedIn Profile Building". The date and time are listed as 10.05.2021, 10:00am -12:00pm. Logos for Zoom, MSW-ZNO-YER, and the United Nations Sustainable Development Goals are also present. At the bottom, the Convener is Dr. M. Kathirvelu, Professor & Head/ECE, and the Organizers are Mr. S. Sathesh Kumar, AP(Sr.G)/ECE, and Dr. J. Muralidharan, AsP/ECE.

- The Department of Electronics and Communication Engineering of KPR Institute of Engineering and Technology organized skill development program on “Resume Building” on 17.05.2021. The program is targeted for first year and second year ECE students. The resource persons are Dr.B.Jaishankar and Mr.T.Jagadesh from Department of ECE, KPR Institute of Engineering and Technology. The skill development program exposed the participants to know about the building a resume. They also explained about the do’s and don’ts of writing a resume. They also explained a sample resume of the present III year ECE students which attracted the participants and the feedback from participants were obtained at the end of session.



The poster is rectangular with a white background and a blue footer. It features logos for KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, and other institutional symbols. The main title is "Organizes a Skill Development Program on Resume Building". Below this, a section titled "Resource Person" lists two individuals: Dr. B. Jaishankar, Associate Professor/ECE, KPR Institute of Engineering and Technology, Coimbatore, and Mr. T. Jagadesh, Assistant Professor(Sr.G)/ECE, KPR Institute of Engineering and Technology, Coimbatore. A Google Meet link is provided: <https://meet.google.com/ugm-nymf-ktz>. The date and time are listed as 17.05.2021, 03:00 PM to 04:00 PM. Logos for Zoom, MSW-ZNO-YER, and the United Nations Sustainable Development Goals are also present. At the bottom, the Convener is Dr. M. Kathirvelu, Professor & Head/ECE, and the Organizers are Dr. B. Jaishankar, AsP/ECE and Mr. T. Jagadesh, AP(Sr.G)/ECE.

- The Department of Electronics and Communication Engineering organized a webinar on “Renewable Assessment” on 08.05.2021. The resource person Ms. Subhashreeravi, Measurement Engineer, Blue Power Partners, Chennai gave the overview of renewable assessment and explained the importance of renewable sources and sustainable development. Students were interactive throughout the session and the queries were explained at the end of the session.

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Organizes a Webinar on Renewable Assessment

Resource Person

Subhashree Ravi
 Measurement Engineer,
 Blue Power Partners,
 Chennai.

08.05.2021
 10:00am

dxn-gexb-exo

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

Organizers
 Ms.S.Chandraprabha, AP/ECE
 Ms.M.D.Saranya, AP/ECE

- The Department of Electronics and Communication Engineering organized Skill Development Program on “Virtual Robotics Using Lego Mindstroms” on 10.05.2021. The resource person Mr.S.Satheeshkumar AP(Sr.G)/ECE, KPR Institute of Engineering and Technology, Coimbatore gave the overview of Virtual Robotics and explained importance of Robotics and sustainable development. Lego Mindstorms is a hardware and software structure which is produced by Lego for the development of programmable robots based on Lego building blocks.

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Organizes a Skill Development Programme on Virtual Robotics using Lego Mindstroms

Resource Person

Mr.S.Satheesh Kumar
 AP(Sr.G)/ECE,
 KPR Institute of Engineering and
 Technology, Coimbatore.

<https://meet.google.com/czn-csew-wzr>

Date : 10.05.2021
Time : 10.00 AM to 11.00 AM

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

Coordinators
 Mr.G.Pradeep Kumar,
 AP(Sr.G)/ECE
 Ms.M.D.Saranya,
 AP/ECE

FACULTY PUBLICATIONS

- G.Pradeepkumar, S.Sanjay Rahul, N.Sudharsanaa, S.Suvetha, Dineshkumar Ponnusamy, “A Smart Helmet for the Mining Industry using LoRaWAN”, Journal of Physics: Conference Series (**Scopus**)
- Dr.K.Murugan, Jeevitha E, Harini RK, Aswath S, Kabillesh B, “Automized Hot Water Management System”, Journal of Physics: Conference Series (**Scopus**)
- Ms.M.Supriya, Sangeetha V S, Subhasini A, Vaishnav M, “Mobile application for rental batteries”, Journal of Physics: Conference Series (**Scopus**)
- Mr.T.Shanmugaraja, Sakthivel M, Shailashree R, Sooraj P, Vishnu K, “Analysis of air quality using IOT with machine learning prediction”, Journal of Physics: Conference Series(**Scopus**)
- Dr. V. Arulkumar, Ms. Dhivya, Dr.P.G. Om Prakash, A. Ranjith, Dr.J.Muralidharan, “Segmentation of Glaucoma Disease Based on Modified Kernel Fuzzy C-Means Algorithm for Healthcare Applications”, Turkish Journal of Physiotherapy and Rehabilitation(**Scopus**)
- Mr.T.Venkatesh, Deepiga M, Gopikashree S, Jagadesh V, Jaikumar R, “Analysis the condition of gear modelling using IOT”, Journal of Physics: Conference Series(**Scopus**)
- Aswatha R, Deepalakshmi N, Dinesh A, Arun Kumar R, Gokulram R, “Cost Efficient Automatic Car Parking Facility towards Smart City”, Journal of Physics: Conference Series(**Scopus**)
- Gunanandhini S, Dhivyaa M, Brindh L, Hariths T, Gokula kannan S, “A Multifunctional Shopping Tramcar”, Journal of Physics: Conference Series(**Scopus**)
- Ms.S.Nithya, Sandhya, Vaishnavi, Sathish kumar, Vishnu Prasad, “Design and fabrication of microstrip MIMO antenna for 5G smartphones”,Journal of Physics: Conference Series (**Scopus**)
- Dr.S.M.Ramesh, Maria Jose Praveen .J, Mugesh Kumar, Muthu Nandhini, Nithiya Lekshmi, “Driving top sliding helmet with better air ventilation using embedded system”, Journal of Physics: Conference Series(**Scopus**)
- Sathishkuma N, Manoj M, Muniraj K, Naveenkumar M ,Praveen C, “Safety Monitoring System in Coal Mine using IoT”, Journal of Physics: Conference Series(**Scopus**)
- Satheesh Kumar S, Sidharth, Rithanesh V D, Sharan K, “5G Antipodal Reconfigurable Base Station for Modern Automobile Tracking Applications”, Journal of Physics: Conference Series(**Scopus**)
- K Saravanan, Nivedhaa M, Kavyashree V,Manikandan S , Rajkumar A, “Animal monitoring using IoT”, Journal of Physics: Conference Series (**Scopus**)
- Ms.A.Reethika, T.M.Prakash, S.KavinPranao, Mr.D.Karan Raj, Mr.K.Rakesh Kumar, “Automatic landslide detection in hilly areas”, Journal of Physics: Conference Series(**Scopus**)
- S. Balamurali, Asvitha, Deenadhayalan, Ishwarya, Kaviyavarshiny, “Directivity Enhancement in UWB Microstrip Patch Antenna”, Journal of Physics: Conference Series (**Scopus**)
- B. Jai Shankar, K. Murugan, A. Obulesu, S. Finney Daniel Shadrach, “MRI Image Segmentation Using Bat Optimization Algorithm with Fuzzy C Means (BOA-FCM) Clustering”, Journal of Medical Imaging and Health Informatics(**SCI**)
- Dr.D.Venugopal, “Lifetime prediction of Lithium batteries for Electric vehicles”,Journal of Physics: Conference Series(**Scopus**)

- S Chandra prabha, “Automatic Patient Monitoring Systems using IOT”, Journal of Physics: Conference Series(**Scopus**)
- Kirubakaran S, Tamilselvan S, Varunika G, “Smart Traffic Control Scheduling In Smart City”, Journal of Physics: Conference Series(**Scopus**)
- Kirubakaran S, Thanavarsheni, Vigneshkumar, “Arduino Based Fire Fighting Robot”, Journal of Physics: Conference Series(**Scopus**)
- Dr.B.Jaishankar, G.Harshavarthini, S.Bharanidharan, M.Dhivyabharathi, S.Harish, “Pollution based traffic control System using IoT”, Journal of Physics: Conference Series(**Scopus**)
- Raghunathan Anitha, Palakkad Kandasamy Gunavathi, Finney Daniel Shadrach, “Investigation on the musical features of carnatic ragas using neutrosophic logic”, Journal of Physics: Conference Series(**Scopus**)
- G.K.Jakir Hussain, Priya R, Rajarajeshwari S, Niyazuddeen N and Prasanth P, “The Face Mask Detection Technology for Image Analysis in the Covid-19 Surveillance System”, Journal of Physics: Conference Series(**Scopus**)
- Dr.N.Rajeshkumar Suresh C, Sri Krishna P, Shalini D, RakeshrajJ, “Medicine Lending Machine for Elderly Patients”, Journal of Physics: Conference Series(**Scopus**)
- Dr.M.Kathirvelu, A.C.Nithiyashree, M.Manasa, L.Naveen, N.Karthi, “Vehicle Speed Control and Accident Prevention System in Smog Zone”, Journal of Physics: Conference Series (**Scopus**)
- Mr. Singaram M, P Aravin, N A Dharshine, P Ganesh, E Gokul, “Speaking System for Speechless People”, Journal of Physics: Conference Series(**Scopus**)
- T.Jagadesh, K.Sangeetha, R.Sathyaram, Sarvin prabhu, Varshine, “IoT based fertilizer management system”, Journal of Physics: Conference Series(**Scopus**)
- Mr.S.P. Cowsigan, Swathi.S, Renuka.K, Shobika.K, “Design and Analysis of Half-Mode SIW Antenna for Home Automation in IoT”, Journal of Physics: Conference Series(**Scopus**)
- Mr.V.Chandra Prasad, Deepika.S, Jeevitha.E, Hariharan.N, Harikrishna.M, “Elliptically bended coupler with arbitrary power division”, Journal of Physics: Conference Series(**Scopus**)
- Mr.K.Vishnu Saravana Bharathi, Adarsh J, Anand AV, Chandra kumar K R, Jerusha S, “Organic Hydroponic Farming Incorporated with Recycle Water”, Journal of Physics: Conference Series (**Scopus**)
- Seethalakshmi V, Kavin Prabu G, Naveenkumar P, Praveen Kumaar S, “A Review on Wearable Epileptic System System”, Journal of Physics: Conference Series(**Scopus**)
- Seethalakshmi V, Kaviyaavarshani V S, Madhumitha R, Mukunthan L, Pooja kumari B, “Telepresence Robot for Medical Assistance in Hospitals”, Journal of Physics: Conference Series (**Scopus**)
- Dr. K Kalirajan, Priyadharshini A, Kirubalani A, Naveen N A Praveen Kumar R, Balamurugesh R, “Screening the Condition of Diabetic Retinopathy in Infected Retinal Images”, Journal of Physics: Conference Series(**Scopus**)
- Dr. K Kalirajan, Vignesh Nambiar M, Vinodhini K, Ramya E, “IoT Based Industrial Wastewater Monitoring and Recycling”, Journal of Physics: Conference Series(**Scopus**)
- Deepiga M, Gopika shree S, Jagadesh V, Jai Kumar R, Venkatesh T, “An Effective Identification of Food Adulteration Using IoT”, Journal of Physics: Conference Series(**Scopus**)

- Samitha B, Santhosh Kumar E, Saravana Kumar C, Srinath B, Dhivya Devi R, Venkatesh T, “Intelligent Appliance Control System Using IoT”,Journal of Physics: Conference Series(**Scopus**)
- Kiruthika B, Lokeshvaran R, MidhunChakkaravarthi B, Dhivyasri G, “An Effectual Smart Waste Assortment And Management System”,Journal of Physics: Conference Series (**Scopus**)
- D Arulanantham , C Palanisamy, G Pradeepkumar, S Kavitha, “An Energy Efficient Path Selection Using Swarm Intelligence in IoT SN”,Journal of Physics: Conference Series(**Scopus**)
- Finney Daniel Shadrach, Gunavathi Kandasamy, Anitha Raghunathan, “Anomaly Detection in Vitis Vinifera Using Neural Networks and Radon Transform”, Advances in Electrical and Computer Technologies(**SCIE**)
- S.Krishnakumar, K.Sneha , A.Reethika, “Review on Sensor based Colour Sorting Robot for Candy Manufacturing”,IOP Conf. Series: Materials Science and Engineering(**Scopus**)
- G. Shanmugavadivel, B. Gomathy, S. M. Ramesh, “An Enhanced Data Security and Task Flow Scheduling in Cloud-enabled Wireless Body Area Network”,Wireless Personal Communications (**SCIE**)
- A Karthikrama, C.Rangarajan, Dr. Sagunthala,Pretty Diana Cyrilb, R.Rajmohancand, S M Ramesh, “Automatic Neuro Disease Classification Based on Gait Analysis using Bi-stacked GRU”, Turkish Journal of Computer and Mathematics Education(**Scopus**)

FACULTY PATENT PUBLICATIONS

S. No.	Name of the Applicant/Inventor	Title of the Project/Invention	Application No.	Date of Publication	Current Status
1	Dr. P. Subramanian Shaik Khaja Sameer K.Thangavel Ms. G. Kousalya Devi Dr.S.Shanmugasundaram Dr. A. Belin Jude Mrs. V. M. Rajanandhini Pl. Meyyappan Dr.V.Seethalakshmi P.Parthipan	Smart Device to Detect the Ratio of ConcreteMixture	202141020278 A	07/05/2021	Published

FACULTY AS RESOURCE SPEAKER

- Dr.J.Muralidharan, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a guest lecture on “Computer Architecture” conducted by SCAD College of Engineering and Technology on 17.05.2021.

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP	Organization Name	Start Date	End Date
Dr.S.M.Ramesh	Emerging Trends in VLSI Technology	MR Engineering College for women, Hyderabad	24-05-2021	29-05-2021
Mr.T.Jagadesh	Workshop on How should Students Projects Foster IPRs	SRM TRP Engineering College	21-05-2021	21-05-2021
Ms.A.Reethika	Workshop on “Data analytics”	Mahathma Gandhi Insitute of Technology	22-05-2021	22-05-2021

PLACEMENT DETAILS

S.No	Name of the Student	Name of the Company
1	Bharathikannan K	Wipro
2	Sakthivel M	Wipro
3	Brindha.C	Wipro
4	Tamilselvan S	Wipro
5	Tamilselvam M K	Wipro
6	Vinodhini K	Wipro
7	Dharshine Na	Accenture
8	Sooraj P	Accenture
9	Hari Krishna M	Infosys
10	Naveen N A	Infosys

Total Number of students Placed:96

Total Number of Offers: 124

Total Number of Companies Visited:45

IIPC ACTIVITIES

FACULTY INTERNSHIP

Name of the Faculty	Name of the Industry/Organization	Subject/area	Start Date	End Date	Duration in days
Mr.G.Pradeepkumar	Pantech	Internet of Things with Machine Learning	17-05-2021	01-06-2021	16
Dr.J.Muralidharan	Pantech Solutions	Internet of Things with Machine Learning	17-05-2021	01-05-2021	15
Ms.S.Chandraprabha	IEEE Internship Program on EV Design	IoT & ML	17-05-2021	30-05-2021	14
Ms.MD.Saranya	IEEE Internship pantech Learning	AI/ML	17-05-2021	01-06-2021	14