

## Kings College of Engineering (Autonomous)

Department of Electronics & Communication Engineering

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|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name : Ms. U.JEYAMALAR                         |                                                                                                                          |
| Designation:                                   | Assistant Professor                                                                                                                                                                                        |
| Qualification:                                 | M.E.,                                                                                                                                                                                                      |
| Area of Specialization:                        | VLSI Design                                                                                                                                                                                                |
| Experience:                                    | Teaching: 14 Years 6 Months                                                                                                                                                                                |
|                                                | Industry: 7 Years                                                                                                                                                                                          |
| No. of workshop / Conferences / FDP attended : | 63                                                                                                                                                                                                         |
| Publication :                                  | Journal<br>National: 1<br>International: 4                                                                                                                                                                 |
|                                                | Conference<br>National: 12<br>International: 11                                                                                                                                                            |
| Membership :                                   | NIL                                                                                                                                                                                                        |
| Achievements :                                 | <ul style="list-style-type: none"><li>• GATE Score Secured in "GATE 2001"<br/>Percentile Score: 40.69, All India Rank : 0736</li><li>• TANCET Score Secured in "TANCET 2009":<br/>Score: +28.411</li></ul> |

## **Workshop/Conferences/FDP attended: 22/26/24**

### **PUBLICATIONS**

#### **JOURNAL PUBLICATIONS**

1. Mrs. U. Jeyamalar, published the paper entitled "Design and Implementation of MIMO-FSO Communication System for Disaster Management", International Journal for Science and Advance Research in Technology (IJSART) E-Journal, Volume 8, Issue 8 in August 2022, ISSN [ONLINE] : 2395-1052
2. Mrs. U. Jeyamalar AP/ECE, G. Priyadharshini, K. Vidhya, K. Vinitha, N. Pavithra of IV/ECE published the paper entitled "Electronic Demand Draft: Design and implementation of modified automated teller machine" in Studies in Indian Place Names (SIPN)UGC Care Journal, Vol-40-issue-76-March 2020, ISSN-2394-3114
3. U.Jeyamalar, J.Deepika, "Driver Safety Monitoring system Using Self Powered ZIGBEE Module" International Journal of Advanced Scientific Research & Development (IJASRD'18) Special Issue-March 2018, pp.76-81, ISSN No.2395-6089.
4. U.Jeyamalar, R.Abarnasri, M.Anurathika, S.Bavatharani, S.Chanthiya, "Smart Wearable Health Monitoring Sleep Safety System" SSRG International Journal of Electronics & Communication Engineering-(ICCREST'17), Special Issue MARCH'2017, pp.141-150, ISSN: 2348-8549.
5. L.Christo Infanta, U.Jeyamalar, "Dynamic Spectrum Access Network using Compressive Sensing Techniques" International Journal of Embedded & Software Computing (IJESC) Special Issue-JAN'2015, pp.1057-1063, ISSN No.2321-3361.

#### **CONFERENCE PUBLICATIONS**

1. U.Jeyamalar, Presented a paper "Design and Implementation of an IoT-Enabled Mobile Robotic System for Environmental Monitoring" International Conference on Recent Trends in Engineering & Science (ICRTES-2024), Kings College of Engineering, Pudukkottai, 2<sup>nd</sup> & 3<sup>rd</sup> May 2024.

2. U.Jeyamalar, Presented a paper "Wearable IOT Devices" International Conference on Recent Trends in Engineering & Science (ICRTES-2024), Kings College of Engineering, Pudukkottai, 2<sup>nd</sup> & 3<sup>rd</sup> May 2024.
3. U.Jeyamalar, Presented a paper "Desalination of Sea Water to Drinking Water using Ultrasonic Sound Waves" International Conference on Recent Trends in Engineering & Science (ICRTES-2024), Kings College of Engineering, Pudukkottai, 2<sup>nd</sup> & 3<sup>rd</sup> May 2024.
4. U.Jeyamalar, Presented a paper "Design and performance analysis of adaptive cognitive radio sensor networks for data packet optimization", International Conference on Computing, Communication and Control (IC4'2023), Kings College of Engineering, Pudukkottai, 26th April 2023.
5. U.Jeyamalar, Presented a paper "Design and performance analysis of adaptive cognitive radio sensor networks for data packet optimization", 3rd International Conference on Intellectual Research in Science, Engineering and Management (ICIRSEM'2023), St.Joseph's College of Engineering and Technology, Thanjavur, 21st April 2023.
6. U.Jeyamalar, Presented a paper "Modeling a low cost self-driving car by enabling AI" National Conference on Communication, Networking and Intelligence (NCCNI'2022), Kings College of Engineering, Pudukkottai, 10th June 2022.
7. U.Jeyamalar, Presented a paper "Design & Implementation of MIMO-FSO Communication System for Disaster Management", 2nd International Conference on Intellectual Research in Science, Engineering and Management (ICIRSEM'2022), St.Joseph's College of Engineering and Technology, Thanjavur, 28th May 2022.
8. U.Jeyamalar, Presented a paper "IOT Based Multifunctional Agribot", International Conference on Innovative Research in Power and Energy Engineering (IRPEE-21), Arasu Engineering College, Kumbakonam, 26th March 2021.
9. U.Jeyamalar, Presented a paper "IOT Based Multifunctional Agribot", National Conference on Multidisciplinary Research in Science and Humanities (NCMRSH-21), Arasu Engineering College, Kumbakonam, 24th March 2021.

10. U.Jeyamalar, Presented a paper "Social Distancing Alarm", National Conference on Advancement in Electronics and Communication for Digital India (NCECD'21), Kings College of Engineering, Pudukkottai, 17th March 2021.
11. U.Jeyamalar, "IOT Based Multifunctional Agribot", 7th International E-Conference on Latest trends in Science, Engineering and Technology, Karpagam Institute of Technology, Coimbatore, 26-27 March 2021.
12. U.Jeyamalar, Presented a paper "Women security and self defense system", National Conference on Emerging Trends in Computing, Control and Communication Technologies (ETCCCT'20), Kings College of Engineering, Pudukkottai, 13th March 2020.
13. U.Jeyamalar, "Electronic Demand Draft: Design and implementation of Modified Automated Teller Machine", International Conference on Empowering Engineering and Technology (ICEET-20), Parisutham Institute of Technology and Science, 12th & 13th March 2020.
14. U. Jeyamalar, J. Deepika, Presented a paper "Measurement and Analysis of Human Body Communication for Bio-Medical Applications" in the IEEE International Conference on Innovations in Information and Communication Technology (ICIICT'2019) at St.Peter's College of Engineering and Technology, Chennai India, from 25.04.2019 to 26.04.2019, pp.1 – 7, IEEE Xplore, doi: 10.1109/ICIICT1.2019.8741509.
15. U.Jeyamalar, Deepika Presented a paper "Real Time Monitoring Physiological Signal using Human Body Communication" in the National Conference on Emerging Trends in Electronics and Communication Engineering (NCETECE'2019) at Kings College of Engineering, Thanjavur on 15.03.2019
16. Mrs. U. Jeyamalar, AP/ECE, M. Nithiya, S. RoslinMary, T. Vinothini, Presented a paper, "An IOT based system for passenger service and comfort in railways" in the National Conference on Advanced Communication, computing and Power systems (NCACCPs 2K19) at St.Joseph's College of Engineering and Technology, Thanjavur on 09.03.2019.

17. U.Jeyamalar, Saranya, Indhumathi, Presented a paper "Efficient Line Spectrum Pair Computation for LPC using ETT" in National conference on Advanced communication, computing and power systems (NCACCPS 2K'18) at St. Joseph's college of Engineering and technology, on 23rd March 2018.
18. U.Jeyamalar, J.Deepika, Presented a paper "Driver Safety Monitoring system Using Self Powered ZIGBEE Module" in National conference on Innovation in Embedded Systems & Networking (NCIEN'18) at Kings College of Engineering on 21st March 2018.
19. U. Jeyamalar, K. Saranya, S. Indhumathi, Presented a paper "Efficient Line Spectrum Pair Computation for LPC using ETT" in 2nd International Conference on Innovations in Engineering, Technology and Science (ICIETS-2018), on 13th & 14th March 2018, K.Ramakrishnan College of Engineering, Trichy.
20. U.Jeyamalar, R.Abarnasri, M.Anurathika, S.Bavatharani, S.Chanthiya, Presented a paper "Smart Wearable Health Monitoring Sleep Safety System" in International conference on Current Research in Engineering Science & Technology (ICCREST-2017) at Jayaram College of Engineering & Technology, Trichy on 17th March 2017.
21. U.Jeyamalar, Dr.D.Shanthi, V.Sutha Jebakumari, Presented a paper "Analysis of EMG Signal Parkinson's Disease Diagnosis using Soft Computing Techniques" in National conference on Signal Processing and VLSI Design (NCSPVD'16) at Kings College of Engineering on 28th December 2016.
22. L.Christo Infanta, U.Jeyamalar, Presented a paper "Dynamic Spectrum Network Access using Compressive Sensing" in Second National conference on Recent Advances in Science, Engineering & technology (RASET 2015) at Jay Shriram Group of Institutions, Tirupur, on 23.03.2015.
23. L.Christo Infanta, U.Jeyamalar, Presented a paper "Compressive Sensing Techniques" in National conference on (NCON'2015) at Kings College of Engineering on 11.03.2015.
24. L.Christo Infanta, U.Jeyamalar, Presented a paper "Dynamic Spectrum Access Networks using Compressive Sensing Techniques" in International Conference "ICRTECCT – 2015" at Sri Ramanathan Engineering College, Tirupur, on 06.03.2015.

25. U.Jeyamalar, Presented a paper "FPGA based implementation of Edge & Corner detection in MRI Brain Tumor Image" in International Conference "ICRTECCT – 2015" at Sri Ramanathan Engineering College, Tirupur, on 05.03.2015.
26. U.Jeyamalar, "FPGA Implementation of Time Efficient High Performance VLSI Adders" National Conference on Nascent Technologies in Signal Processing and Communications (NT-SIPCOM'11) at Anna University of Technology, Thiruchirappalli on 18.03.2011.

### **EVENT ORGANISED**

1. Organized Two Days National Level Technical Workshop on "Real Time Project Design Using Arduino" from 23.02.2023 to 24.02.2023
2. Organized National level technical symposium on 15.9.2022.
3. Local visit to 'NIFTEM' open day 2022, Thanjavur on 16.09.2022.
4. Organized three days webinar on "Embedded and Real time system design using Arduino" from 08.06.2020 to 10.06.2020.
5. Conducted Bridge Course on "GATE and other competitive exams" on 16.12.2019
6. Organized a one day workshop on "IOT using Raspberry pi" 19.07.2021
7. Organized a National Conference on Emerging Trends in Electronics and Communication Engineering (NTETECE) on 15.03.2021
8. Organized One Day Workshop on "LabVIEW Graphical Development – Hands on Training" 12.09.2018
9. Organized One Day "Intra Departmental Paper presentation" on 12.09.2016
10. Organized One Day "Orientation Program" on 02.07.2016
11. Organized "My Credit Course-Android & smart phone" by iSYSWAY from December 2015 to May 2016.
12. Awareness programme on "Equity in education" by Dr.Christodas Gandhi., (I.A.S., Rtd) to third & final year ECE students on 18.07.2014

### **FDP Attended**

1. Attended Faculty Development Programme on "seminar on AI for Teaching and Learning" organized by the internal quality assurance cell(IQAC), Dr.M.G.R. Educational and Research Institute, Madurai, Chennai on 26.12.2024.

2. Attended FDP Programme on "Advancement in 5G and beyond: Exploring the Future of Wireless Communication" organized by the department of ECE, SJCE, Thanjavur from 09.09.2024 to 13.09.2024
3. Attended FDP on "IoT FDP Training (MTPR9IT, provided by IBMCE)" A course on [ibmcep.cognitiveclass.ai](https://ibmcep.cognitiveclass.ai) Powered by IBM Developer Skills Networks. Issued by IBM Career Education Program. Jagadisha Bhat country manager-Software service IBM India Pvt.Ltd on 03.09.2024.
4. Attended FDP on "Outcome Based Education" Organized by internal quality assurance cell(IQAC) in association with ISTE (Staff Chapter), KCE, Punalkulam on 27.08.2024.
5. Attended five days faculty development program on "Recent Trends in Biotechnology" organized by Department of Biotechnology in association with Academic Staff College, Dr.M.G.R Educational and Research institute, Chennai from 11.10.2023 to 15.10.2023.
6. Attended one week FDP on "Research Methodology" organized by the internal quality assurance cell and academic staff college, Dr.M.G.R Educational and Research institute, Chennai from 26.09.2023 to 04.10.2023.
7. FDP on "Integrating PCE activity in Classroom teaching" Organized by IQAC in association with IEEE STB16621, Kings College of Engineering on 16.02.2022
8. FDP on "Smart Grid – Trends and Future Perspective" Organized by Kings College of Engineering from 08.11.2021 to 09.11.2021
9. Three day Faculty Development Program on Outcome Based Curriculum Organized by Department of ECE, SVCET(A), Chittoor from 01.07.2020 to 03.07.2020
10. Online 6-Day Faculty Development Program on "Disruptive Technologies in Electronics & Communications" Organized by Vidya Jyothi Institute of Technology (Autonomous) from 22-06-2020 to 27-06-2020.
11. Three days FDP on Deep Learning Applications – Design, Development and Deployment in IoT Edge Organized by Department of ECE, SRM TRP Engineering College, Thiruchirappalli from 27.05.2020 to 29.05.2020.

12. Six Days FDP on "Computer and Communication Networks" Organized by Sri Sai Ram Institute of Technology from 21.05.2020 to 27.05.2020.
13. Six Days FDP on "Tools Explored with Disruptive Technologies" Organized by Sri Sai Ram Institute of Technology from 11.05.2020 to 16.05.2020.
14. 5 days Online Faculty Development Programme on "Evolution Of Teaching Learning Process – Post Covid 19" Organized by Bharath Institute of Higher Education and Research (BIHER) from 11.05.2020 to 15.05.2020.
15. 2 day FDP on "Challenges and Innovation in Renewable Energy Technologies by 2020" Organized by Tagore Institute of Engineering & Technology, Salem from 09.05.2020 to 10.05.2020.
16. 5 Days Virtual Faculty Development Programme on "Recent Trends in Biomedical Engineering – Research Perspective" Organized by Dr.N.G.P. Institute of Technology during April 26-30, 2020.
17. Attended Two day Faculty Development Programme on "Research issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources" Organized by Kings College of Engineering, Punalkulam from 01.11.2019 to 02.11.2019.
18. Attended FDP on "Empowering Teachers in 21st Century Skills Education" Organized by National Institute of Technology, Tiruchirappalli from 29.04.2019 to 03.05.2019.
19. Attended Two day Faculty Development Programme on "Robotics and Automation" Organized by Kings College of Engineering, Punalkulam from 22.02.2019 to 23.02.2019.
20. Attended One day FDP on "Micro Teaching & Class Room Management" Organized by Kings College of Engineering on 28.08.2017.
21. Attended 2 Days FDP on "Labview for Graphical System Design" Organized by Kalasalingam University, Krishanankovil from 15.05.2015 to 16.05.2015.
22. Attended 8 Days FDTP on "EC6401 – Electronic Circuits – II" Organized by Centre for faculty development, Anna University, Chennai from 08.12.2014 to 15.12.2014.
23. Attended 2 Days FDP on "Knowledge Training & Consulting" Organized by Kings College of Engineering from 22.12.2011 to 23.12.2011.

24. Attended one day FDP on "Life Skill Management" Organized by Kings College of Engineering on 2011.

### **Online Courses attended**

1. Successfully completed NPTEL courses on Computer Networks and Internet Protocol, Computer Networks, Accreditation and Outcome Based Learning, Introduction to Semiconductor Devices, 5G Wireless Standard Design, Introduction to Internet of Things, Embedded Systems Design, Fuzzy Logic and Neural networks, Curriculum pedagogy and Evaluation for Higher Education, Skills for new educational Architecture, Digital Image Processing, Digital Circuits, Fundamentals of Electronic Device Fabrication, CMOS Digital VLSI Design, English for Workplace & Electronic Waste Management - Issues and Challenges.
2. Successfully completed NITTTR, Chennai courses on Sensor and Instrumentation, Industrial Automation, LabVIEW Programming for Engineering Applications
3. Successfully completed ATAL FDP on Recent trends in 5G/6G Wireless Communication, Energy Engineering
4. Successfully completed NITTTR, Kolkata courses on Network Infrastructure and Cloud Security, Management Issues of Laboratory and Workshop Class, Introduction to Network Security
5. Successfully completed NITTTR, Chandigarh courses on IOT and Embedded Systems, 5G Communication, Embedded System and IoTs
6. Successfully completed the online courses Ruby (Jan 2022), PHP & MySQL (June 2022), R programming (June 2022) Organized by Spoken Tutorial project, IIT Bombay.
7. Successfully completed the Online Course on "The Fundamentals of digital marketing", by Google Digital Unlocked (26 Modules, 40 Hours) Organized by Google Digital Unlocked from 12.05.2020 to 30.05.2020
8. Successfully completed the 5 days online Spoken Tutorial FDP on Python 3.4.3 Organized by Sathyabama Institute of Tech from 04.05.2020 to 08.05.2020.
9. Successfully completed the 5 days online Spoken Tutorial FDP on eSIM Organized by Kings College of Engineering from 04.05.2020 to 08.05.2020.

10. Successfully completed the MHRD's Innovation Cell - Online Session – 16 Sessions MHRD's Innovation Cell will be telecasting sixteen online sessions on various themes of Innovation, Entrepreneurship, IPR and Startups Organized by MHRD's Innovation Cell from 28.04.2020 to 22.05.2020.
11. Successfully completed the online Spoken Tutorial courses on LaTeX training (January 2020), Scilab (June 2018) Organized by Spoken Tutorial Project, IIT Bombay.
12. Successfully completed and received a passing grade in "IoT FDP Training (CEIOTILN, Provided by IBM)", A course on [ibmcep.cognitiveclass.ai](https://ibmcep.cognitiveclass.ai) Powered by IBM Developer Skills Network issued by IBM Career Education Program on 15.03.2024.

#### **Appreciation / Achievements / Awards:**

1. Resource Person of 3-Day Winter Crash Course on "C & C++ Programming for Placement" from 11.01.2023-13.01.2023
2. Institution Level Committee member of Student CHANGE Club & Parents Communication during the Academic year 2020-2021 to till date.
3. Resource person and delivering seminar on "Mobile Communication", Organized by ISTE Staff Chapter (TN 205) at Kings College of Engineering on 09.03.2023.
4. Secured 100% result in the subject AP4153-Semiconductor Devices and Modeling in Anna University Examinations held during the academic year 2021-2022 Odd Semester.
5. Resource Person of 3-Day Winter Crash Course on "C & C++ Programming for Placement" from 20.07.2020 to 25.07.2020
6. Got first position in Non-Technical Events (Balloon & Glasses) at National Level Technical Symposium conducted by "e-Blast SLV2k18" at Kings College of Engineering on 20.09.2018.
7. Got second position in Non-Technical Events (Pin the Rubber) at National Level Technical Symposium conducted by "e-Blast SLV2k18" at Kings College of Engineering on 20.09.2018.

8. Got first position in Non-Technical Events (Balance the Coin) at National Level Technical Symposium conducted by "e-Blast SLV2k18" at Kings College of Engineering on 20.09.2018.
9. Achieving I Position result in IV Year ECE – A in Anna University Examinations held during the academic year 2018-2019 Even Semester.
10. Secured 100% result in the subject VL5301-Analog to Digital Interface in Anna University Examinations held during the academic year 2018-2019 Odd Semester.
11. Secured 100% result in the subject VL5201-Testing of VLSI circuits in Anna University Examinations held during the academic year 2017-2018 Even Semester.
12. Secured 90.6% result in the subject Analog and Digital Communication for II CSE / III Semester in Anna University Examinations held during the academic year 2017-2018.
13. Secured 100% result in the subject VL9252-Low Power VLSI Design in Anna University Examinations held during the academic year 2013-2014 Odd Semester.
14. Secured 90.9% result in the subject EC1001-Medical Electronics in Anna University Examinations held during the academic year 2013-2014 Odd Semester.
15. Secured 97% result in the subject EC1001-Medical Electronics in Anna University Examinations held during the academic year 2012-2013.
16. Secured 98.46% result in the subject EC1001-Medical Electronics in Anna University Examinations held during the academic year 2011-2012 Odd Semester.
17. Secured 95.45% result in the subject EI1306-Measurement & Instrumentation in Anna University Examinations held during the academic year 2011-2012 Odd Semester.

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