

KINGS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name : Mr.B.Reuben	
Designation:	Assistant Professor
Qualification:	M.E.,M.B.A.,(Ph.D).,
Area of Specialization:	Communication Systems
Experience:	Teaching: 15Years & 10Months
Publications:	Journals National: 06 International: 16
	Conferences National: 06 International: 08
Google Scholar Link	https://scholar.google.com/citations?hl=en&user=IFqShjoAAA&view_op=list_works

INTERNATIONAL JOURNAL PUBLICATIONS:

1. B. Reuben, S. Karthik & V. Annapoorani, 2018," Review **on Various Submerged Image Enhancement Techniques**", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 6, Issue 9, ISSN(Online): 2320-9801, ISSN (Print): 2320-9798.
2. B. Reuben, S. Karthik & N. Kannan, 2018," **Study on Various Pattern Recognition Models**", International Journal for Research & Development in Technology, Volume-10, Issue-3 ISSN (O): - 2349-3585.
3. B. Reuben & R. Arul Arumugam, 2018, "**Execution Optimization for SOC Using NOC**", International Journal of Multidisciplinary Research and Publications, Volume 1, Issue 4, pp. 9-13, ISSN (Online): 2581-6187.
4. B. Reuben, M. Keerthana & V. Soundappan, 2018, "**Study on Development of Mobile Wireless Technologies**", International Journal of Innovative Research in Electronics and Communications (IJIREC), Volume 5, Issue 3, PP 35-40, ISSN 2349-4050 (Online) & ISSN 2349-4042 (Print).

5. B. Reuben & J. Amali, 2018, **"Evaluation on Current Trends in Programming Defined Broadcasting"**, International Journal of Innovative Research in Electronics and Communications (IJIREC), Volume 5, Issue 4, PP 26-31, ISSN 2349-4050 (Online) & ISSN 2349-4042 (Print).
6. B. Reuben, C. Devasenapathi & R. Arularumugam, 2019, **"Review on Evaluation on Mobile Generation Technology"**, International Journal of Innovative Research in Electronics and Communications (IJIREC), Volume 6, Issue 1, PP 16-19, ISSN 2349-4050 (Online) & ISSN 2349-4042 (Print).
7. B. Reuben, J. Amali, V. Annapoorani & J. Banupriya, 2019, **"Wearable Approach to Enhance Health Monitoring System"**, International Journal of Engineering & Science Research (IJESR), ICETEISM-2019/Special Issue/ Article No-07/26-30, ISSN 2277-2685.
8. B. Reuben, S. Karthik & M. Keerthana, 2019, **"Requirements and Challenges of M2M Communication in Industry 4.0"**, International Journal of Emerging Technologies and Innovative Research (JETIR), Volume 6, Issue 6, PP 702-705, (ISSN-2349-5162) JETIR1906097
9. B. Reuben & C. Narmadha, 2024, **"Extensive review of kidney stone Symptoms types and prediction methods in up to date"**, International Journal of Engineering Research & Technology, Volume 12, Issue 01, ISSN (Online): 2278-0181.
10. B. Reuben & C. Narmadha, 2024, **"Effective Kidney Stone Prediction Based on Optimized Yolov7 Segmentation and Deep Learning Classification"**, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12 No. 1 (2024), ISSN: 2147-6799.
11. Mr. B. Reuben, Dr. B. Prakash Ayyappan, Mrs. S. Saranya, Ms. S. Ruckmani & M. Parveen Banu, 2024, **"Comparative Overview of Compressed Natural Gas Vehicle (CNGV) and Electric Vehicle (EV)"**, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 12, Issue 7, ISSN (O) 2321-2004, ISSN (P) 2321-5526.
12. B. Reuben & B. Prakash Ayyappan, 2025, **"Study on Recent Trends and Future Challenges in FSO Communication System"**, International Journal of Innovative Research In Technology, Volume 11, Issue 9, | ISSN: 2349-6002.
13. B. Reuben, Dr. B. Prakash Ayyappan, M. Parveen Banu & T. Parthiban, 2024, **"Enhanced Study and Review on Utilization of High-Quality Active Sensors in Various Field of Applications"**, International Journal of Multidisciplinary Research and Growth Evaluation, ISSN (online): 2582-7138, Volume: 5, Issue: 6, Pages: 1371-1379.
14. B. Reuben, C. Narmadha & C. Rajanandhini, 2025, **"Enhanced CT image classification for kidney stones using pruned ConvNeXt and two-tier optimization"**, International Journal of Clinical and Laboratory Medicine, ISSN: 1784-3286 (Print) 2295-3337 (Online) Volume 80, Issue 6 (2025).
15. B. Reuben & B. Prakash Ayyappan, 2025, **"An Optimized Battery Storage Based Solar Floor Cleaning Robot"**, International Journal of Multidisciplinary Research in Science, Engineering and Technology, ISSN: 2582-7219, Volume 8, Special Issue 2.
16. B. Reuben & C. Narmadha, 2026, **"AI – based Kidney Disease Classification Framework"**, International Journal of Engineering Research & Technology (IJERT.ORG), ISSN: 2278-0181 Volume 14, Issue 07, NCIRTAI – 2026.

NATIONAL JOURNAL PUBLICATIONS:

- 1.B. Reuben, C. Devasenapathi & M. Sathishkumar, 2018, **“Study on Various Low Power Content Addressable Memory Circuits and Architectures”**, Journal of Emerging Technologies and Innovative Research (JETIR), Volume 5, Issue 10, ISSN-2349-5162.
- 2.B. Reuben & M. Hemakumar, 2019, **“Machine Learning Approach to Predict Heart Disease”**, JASC: Journal of Applied Science and Computations, Volume 6, Issue 6, pp. 3453-3457, ISSN 1076-5131.
- 3.B. Reuben, S. Karthik & M. Keerthana, 2020, **“Advanced Development Data Acquiring Techniques for Vehicle Road Departure Prevention Systems”**, Compliance Engineering Journal, Volume 11, Issue 3, pp. 115-124, ISSN 0898-3577.
- 4.B. Reuben, P. Naveen, S. Naveenkumar, J. Raguram & C. Tharunkumar, 2020, **“Cloud Based Data Recorder and Vehicle Accident Prevention System in Hill Stations”**, Aegaeum Journal, Volume 8, Issue 4, pp. 1866 – 1871, ISSN 0776-3808.
- 5.B. Reuben, Kruti Jani, K. R. Kavitha, A. Suphalakshmi & S. Shanmugapriya, 2021, **“Review on Applications of Robotics and Artificial Intelligence in Marine Industry”**, Design Engineering, Volume 2021, Issue: 7, Pages: 15680-15686, ISSN: 0011-9342.
- 6.B. Reuben & Ambujam. K, 2023, **“Neural network approach to detect Renal Calculi”**, i-manager’s journal on image processing, Volume 10, Issue 4, p31, ISSN: 2349-4530.

INTERNATIONAL CONFERENCE:

1. Presented a paper on **“Polyps and Ulcer structure detection in WCE image using M-Iterative Pixel technique”** in International Conference on Information Communication & Embedded Systems conducted by S.A Engineering College, Poonamallee, Avadi- Road, Chennai held on 24-02-2012.
2. Presented a paper on **“Wearable Approach to Enhance Health Monitoring System”** in 1st International Conference on Emerging Trends in Engineering, Innovative Science and Management (ICETEISM – 2019) organized by East West Institute of Technology, Bengaluru held on 18th May 2019.
3. Presented a paper on **“Advanced Development Data Acquiring Techniques for Vehicle Road Departure Prevention Systems”** in International Conference on Signal Processing and Communication systems organised by the Research and Development Cell, Department of ECE, M. Kumarasamy College of Engineering, Thalavapalayam, Karur held on 5th March 2020.
4. Presented a paper on **“Cloud Based Data Recorder and Vehicle Accident Prevention System in Hill Stations”** in 6th International e-conference on Green Technologies for Power Generation, Communication and Healthcare (ICGPC 2020) organized by St. Peter’s Institute of Higher Education and Research, Chennai held on 6th June 2020.

5. Presented a paper on **“Neural network approach to detect Renal Calculi”** presented in International Conference conducted by Sri Raaja Raajan College of Engineering and Technology – Karaikudi held on 10th January 2024.
6. Presented a paper on **“Detection of Retinal diseases using deep learning”** in International Conference conducted by Vellamal College of Engineering And Technology-Madurai held on 4th March 2025.
7. Presented a paper on **“BiLSTM Network based Model for Stroke Detection in CT Images”** in International Conference conducted by Global Society for Technical Education held on 23rd December 2025.
8. Presented a paper on **“Smart Assistive Nurse Robot for Distance Health Care”** in International Conference conducted by Mother Terasa College of Engineering and Technology held on 23rd January 2026.

NATIONAL CONFERENCE:

1. Presented a paper on **“Segmentation of Polyps and Ulcers with root nerves in Endoscopy images using iterative pixel method”** in National Conference conducted by Excel College of Technology, Pallakapalayam, Tiruchengode held on 18-02-2012.
2. Presented a paper on **“Embedded Based Home Operate GSM Control System”** in National Level Conference on Recent Trend in Industrial Automation “ELECTRONIKA-2K19” conducted by Aishwarya College of Engineering and Technology, Bhavani. Erode District held on 15th March 2019.
3. Presented a paper on **“Study on Recent Trends and Future Challenges In Free Space Optical (FSO) Communication System”** in 11th National Conference on Signal Processing Communication & VLSI Design (NCSCV'19) conducted by Anna University Regional Campus, Coimbatore held on 4th and 5th April 2019.
4. Presented a paper on **“IoT Design to Prevent Vehicular Accidents”** in Virtual National Conference on Artificial Intelligence for IoT and Power Grid Network's (NCAIIPGN'2020) conducted by SRM TRP Engineering College, Trichy held on 3rd July 2020.
5. Presented a paper on **“An optimized AI model to diagnose plant leaf disease”** in National Conference conducted by Knowledge Institute of technology – Salem, held on 4th April 2025
6. Presented a paper on **“An Optimized Battery Storage Based Solar Floor Cleaning Robot”** in National Conference conducted by Mookambigai College of Engineering and Technology held on 31st October 2025.

FDTP ATTENDED:

1. Two Days Seminar & FDP on **“Advanced Digital Image Processing”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 17th and 18th April 2015.
2. Three Days FDP on **“Recent Trends in “Signal and Image Processing using Labview”**. Organized by Department of ECE in association Mahendra Engineering College -NI Lab VIEW

Academy, Mallasamudram held on 31st October to 2nd November 2018`.

3. Five Days FDP on **“Machine Learning”**. Organized by Department of Information Technology, Mahendra Engineering College, Mallasamudram held on 22nd to 26th April 2019.
4. 13 Days FDP on **“Adaptive Arrays For “Mobile Communication Applications”** Organized by Department of ECE, Muthayammal Engineering College, Rasipuram held on 19th to 31st August 2019.
5. One Day FDP on **“How to Write Research Proposal to Funding Agencies”** organized by the Department of Information Technology held on 14th December 2019.
6. Five Days FDP On **“New Horizons in Artificial Intelligence”** organized by Jansons Institute of Technology held on 8th January to 12th January 2024.
7. Two days FDP on **“Navigating roles & responsibilities in Higher Education”** “organised by Dr. MGR Educational and Research Institute held on 26th December 2023 to 29th December 2023.
8. Five days online FDP on **“Artificial intelligence’s impact on Transforming software, robotics, electrical electronics & Mechanical fields”**. Organized by Dhaanish Ahmed College of Engineering held on 29th August 2024 to 3rd September 2024.
9. Six days AtalFdp on **“Semiconductors and Microelectronics: Pioneering Innovations and Future Applications”**, Organized by Periyar Maniammai Institute of Science and Technology held on 6th January to 11th January 2025.
10. Six days AtalFdp on **“Developing Low- Power Wireless IOT Applications Using MRuby”**. Organized by Jerusalem College of Engineering held on 20th January to 25th January 2025
11. Five days online FDP on **“Innovative Researching, Teaching And Learning Pedagogy”**, organized by Christian College of Engineering and Technology, Dindigul held on 28th July to 1st August 2025.
12. Five days online FDP on **“Emerging Trends in IoT Applications and Integration with 5G and Cloud Computing”** organized by MS Engineering College, Bengaluru held on 24th November to 28th November 2025.
13. Five days online FDP on **“Innovations in Data Science and Big Data Analytics for Smart Decision Making”** organized by Cambridge Institute of Technology North Campus, Bengaluru held on 15th December to 19th December 2025
14. Five days online FDP on **“Recent Trends in Robotics, AI, IOT and Industrial Automation”** organized by St. Joseph’s College of Engineering and technology held on 10th March to 14th March 2026.
15. One Day National Level FDP on **“Human AI Collaboration for Smarter Communication Workflows”** organized by J.P College of Engineering, Tenkasi held on 6th July 2026.

WORKSHOP ATTENDED:

1. Two Days National Workshop on **“Recent Trends in Communication Technology”**, conducted by ECE Department, Sudharsan Engineering College, Sathiyamangalam, Pudukottai District held on 24th and 25th September 2010.

2. One Day National Workshop on **“Analog and Mixed Signal IC Design”**, conducted by ECE Department, Sudharsan Engineering College, Sathiyamangalam, Pudukottai District held on 11th February 2012.
3. Two Days Training Programme on **“MSP430 Ultra Low Power Microcontroller”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 25th and 26th September 2014.
4. One Day Workshop on **“TI Beagle Bone Board”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 27th February 2015.
5. Two Days Workshop on **“Antenna Design & Analysis using ESI’S CEM Solution tool”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 3rd and 4th December 2015.
6. One Day Hands-on Training on **“Python”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 18th March 2016.
7. Two Days workshop on **“IoT using Raspberry Pi and MATLAB”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 23rd and 24th March 2016.
8. One Day Hands-on Training On **“Integration of MATLAB Simulink and Xilinx for Image Processing Applications”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 29th July 2016.
9. One Day Hands-on Training on **“Integration of Keil and Proteus for Microcontroller Based Applications”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 30th August 2016.
10. Two Days workshop on **“VLSI Design using Open-Source EDA”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 08th and 09th September 2016.
11. Two Days Hands-on workshop on **“Image Processing using OpenCV”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 3rd and 4th March 2017.
12. Two Days Workshop on **“Optimization techniques for Image Processing applications”**, conducted by ECE Department, Anna University Regional Campus Coimbatore held on 22nd and 23rd September 2017.
13. Two Days Workshop on **“Machine Learning”** conducted by ECE Department, Mahendra Institute of Technology Mallasamudram, Tiruchengode held on 7th and 8th February 2019.
14. One Day Workshop on **“Art of Writing Research Paper”** conducted by mechanical Department, Mahendra Institute of Technology, Mallasamudram held on 18th October 2019.
15. One Day Workshop on **“Intellectual Property Rights”** conducted by RD Cell, Annapoorana Engineering College, Salem held on 29th February 2020.
16. Three Days National Workshop with Hands-on Session in **“Signal and Image Processing: Practice to Research”** organized by the Department of Instrumentation, School of Electrical Engineering, Vellore Institute of Technology, Vellore held on 5th, 6th and 7th March 2020.

17. One Day CSIR Sponsored National Level Seminar on “**Grading process for Agricultural Foods by Artificial Intelligence Techniques**” conducted by ECE Department, N.S.N College of Engineering and Technology, Karur held on 9th March 2020.
18. One Day National level workshop on “**Research Paper Writing**”. Conducted by CARE College of Engineering held on 22nd December 2023.
19. One Day Workshop on “**Integration of Artificial Intelligence in Electrical Technologies**” Conducted by St. Joseph’s College of Engineering and technology, Thanjavur held on 29th October 2025.

PROGRAMME ORGANIZED:

1. Organized and Conducted One day IPR seminar on “**Methodologies for Generating Revenue Through Research With Patents & IPR**” held on 28th January 2019.
2. Organized and Conducted Two days hands on workshop on “**Robotics**” held on 13th and 14th August 2019.
3. Organized and Conducted Hands on Training Workshop on “**Building IoT system using Raspberry Pi**” held on 29th April 2025.
4. Organized and Conducted Hands on Training workshop on “**Smart IoT with AI**” held on 20th February to 21st February 2026.

INTERPERSONAL SKILLS:

- **Self-motivated** with a proactive approach to learning and professional growth.
- **Strong interpersonal skills**, enabling effective collaboration with team members and management.
- **Proven ability to coordinate and foster a high-performing environment** among students and colleagues.
- **Quick learner** with excellent analytical, learning, and grasping abilities.
- **Effective communication skills**, with the ability to convey ideas clearly in both academic and professional settings.

SUBJECTS HANDLED:

- Electronic Devices and Circuits.
- Principles of Management.
- Linear Integrated Circuits.
- Digital Systems Design.
- Mechatronics and IoT.
- Embedded Systems and IoT Design.
- Transmission Lines and Waveguides.
- Sensors.
- Satellite Communications.
- Digital Image Processing.
- Optical Communications and Networks.
- Digital Logic Circuits.
- Signals and Systems.
- Communication Systems.
- Digital Communication.
- Microprocessors and Microcontroller.
- Networks and Security.
- Basic Electrical & Instrumentation Engg.
- IoT Concepts and Applications.
- Wireless Communications.