Department of Electronics and Communication Engineering
UCE- BIT Campus
Tiruchirappalli-24
Contact no: 9942745761
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                                           Mrs: R.Jayarani
                                               Assistant Professor

➤ **Research Area: Control System, Signal Processing**

➤ **Educational Qualifications:**

Qualification	Department	Year (From -To)	Percentage	Class
BE	ECE	1994-98	64.2	First
ME	Process control and Instrumentation Engg.	2002-04	7.97(CGPA)	First
Ph.D	Electrical	2017	Pursuing	

➤ **Experience:**

Name of Company / Institutions	Designation of Post	From	To	Relived on	Experience in Year
Jayam College of Engg & Tech, Dharmapuri	Lecturer	24-07-2004	31-05-2007	31-05-2007	2.11
Mookambigai college of engineering, Pudukkottai	Lecturer	27-07-2007	19-08-2008	19-08-2008	1.2
Anna university BIT Campus Trichy	Lecturer	20-08-2008	18-08-2009	18-08-2009	1
Anna university BIT Campus Trichy	Asst. Professor	19-08-2009	Till date		14.1

➤ **Awards: NIL**

➢ Additional / Academic Responsibilities at University:

1. Certificate distribution committee member of ECE students in the Graduation day celebration in the year of 2014, 2015, 2016 and 2017.

2. Member of Affiliation Inspection Committee.

3. Internal & External Examiner for university practical   examination conducted by the Anna University.

4. Question paper setter for university practical & theory examination conducted by the Anna University.

5. Hall superintendent for university examination.

6. Member of Squad for university theory examination conducted by the Anna University.

7. Member of Anna University Representative (AUR) for university theory examination conducted by the Anna University Trichy.

➢ Professional Activities:

1. **Class Coordinator**: 2007-2011 Batch students
   2011-2015 Batch students
   2015-2019 Batch students

2. **Assessment Test Coordinator: August 2008 to June 2012**

3. **Student Councilor**: 15 Students

4. **TEQIP Coordinator**: 2013 to till date.

5. **Faculty in-charge**: (i) Digital Signal Processing Laboratory from the year of 2008 to till date (ii) Basic Circuits Laboratory from 2010-2014.

6. **Instrumental** in the purchase of laboratory equipments towards the establishment of Digital Signal Processing Laboratory and Optical Communication Laboratory during 2008-09.

7. **Purchased Multisim** software for Electronic Circuits laboratory in 2011 and **MATLAB** software for Digital Signal Processing Laboratory in 2013

8. **Module coordinator** for NBA

9. **In-charge** of Criterion –I for NBA process

10. Acted as **Session Chair** in two days International Conference on "Advancement in Computing and Communication Technologies", organized by Dept. of MCA Anna University BIT Campus Trichy during 10th-11th April 2015.

11. **Delivered** a Guest lecture on "Digital Signal Processing" for the dept. of EEE, Ganadipathi Tulsi's Jain Engineering College, Vellore during 9th-10th May 2016.

12. **Presented** a lecture on Criterion –I of NBA at dept. of ECE Anna university BIT campus Trichy.

➢ **Membership of Scientific and Professional Societies:**

Life Member of the Institution of Engineers (India) No: M-1564964

➢ **Fellowships and Grants:**

1. **Conference Grant**
   - ➢ Name: **Nascent Technologies in Signal Processing and Communication**
   - ➢ Date & Duration: 17th & 18th March 2011(2 Days)
   - ➢ Role: Organizer
   - ➢ Agency : **CSIR**
   - ➢ Amount: Rs.25,000/-
2. FDP
   - ➢ Name: **Nascent Technologies in Signal Processing**
   - ➢ Date & Duration: 11th & 17th December 2013(7 Days)
   - ➢ Role: Organizer
   - ➢ Agency : **TEQIP-II**
   - ➢ Amount: Rs.1,00,000/-
3. Conference
   - ➢ Name: **Nascent Technologies in Signal Processing and Communication**
   - ➢ Date & Duration: 27th & 28th November 2014(2 Days)
   - ➢ Role: Organizer
   - ➢ Agency : **TEQIP-II**
   - ➢ Amount: Rs.1,00,000/-
4. Workshop
   - ➢ Name: **VLSI Design using Cadence Tool**
   - ➢ Date & Duration: 25th & 26nd February 2016(2 Days)
   - ➢ Role: Organizer
   - ➢ Agency : **TEQIP-II**
   - ➢ Amount: Rs.50,000/-
5. Conference

- ➢ Name: **Nascent technologies in Signal Processing and Communication**
- ➢ Date & Duration: 1st & 2nd September 2016(2 Days)
- ➢ Role: Organizer
- ➢ Agency : **TEQIP-II**
- ➢ Amount: Rs.1,00,000/-

➢ **Completed B.E/M.E Projects:**

   a. Number of ME Projects Completed: 3

   b. Number of BE Project Completed: 20

➢ **PhD Research Projects (Completed): NIL**

➢ **PhD Research Projects (Ongoing): NIL**

➢ **Sponsored Research Activities:**

   *** **Fuzzy based Water Saving System using Wireless Sensor Network*****
   Duration: 6 Month
   Role: Supervisor
   Agency: **TEQIP**
   Amount: Rs.10, 000/-

➢ **Consultancy Activities: NIL**

➢ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

   1. SDP (2006), "AICTE Sponsored Staff Development Program on Mobile Computing", organized by KSR College of Technology Tiruchengode during 13-07-2006 to 24-07-2006(12 Days).

   2. FDP (2006), "AICTE Sponsored Staff Development Program on VLSI Signal Processing", organized by Muthayammal Engineering College Rasipuram during 20-11-2006 to 01-12-2006(12 Days).

   3. Workshop (2010), "Two Days Workshop on Networking Simulator Tools", organized by dept. of ECE BIT Campus Trichy during 17-07-2010 to 18-07-2010(2 Days).

   4. Seminar (2010), "Speech Processing and its Applications ", organized by dept.of ECE BIT Campus Trichy during 23-07-2010 to 24-07-2010. (2 Days)

5. Seminar (2010), "Software Defined Radio", organized by Dept. of ECE Oxford Engineering College Trichy during 27-08-2010 to 28-08-2010. (2 Days)

6. Workshop (2010), "National Level Workshop on Discrete Event Simulation for Protocol Design in Wireless Networks" organized by Anna University BIT Campus Trichy on 22-12-2010(1 Day).

7. Training (2011), "Train the Trainers-2011", organized by Dept. of English Anna University BIT Campus Trichy on 08-01-2011 (1 Day).

8. Seminar (2011), "Design Issus and Research Challenges of OFDM in Wireless Network", organized by Dept. of ECE BIT Campus Trichy during 04-02-2011 to 05-02-2011. (2 Days)

9. Workshop (2011), "IETE and CSIR sponsored National workshop on Signal Processing for Biomedical Application" organized by the dept. of ECE and Amrita biomedical engineering research center during 14-12-2011 to 17-12-2011(4 Days).

10. Orientation program(2012), "77th Orientation Program", organized by Bharathidasan University Trichy during 15-11-2012 to 12-12-2012(28 Days)

11. FDP (2013), "Faculty Development Training Programme for TEQIP-II Institutions on Signals and Systems", organized by Anna University Chennai during 15-07-2013 to 19-07-2013(5 Days).

12. Workshop (2014), "Two Days National Workshop on System Design using LABVIEW", organized by Dept. of ECE Anna University BIT Campus Trichy during 13-03-2014 to 14-03-2014(2Days).

13. Workshop (2014), "ISTE sponsored two week workshop on computer networking" , organized by IIT Bombay during 28-05-2014 to 05-07-2014(39 Days)

14. FDP (2015), "Emerging Trends in Mathematical Modeling and Simulation", organized by dept. of Maths BIT Campus Trichy during 08-05-2015 to 14-05-2015. (7 Days)

15. FDP (2015), " TEQIP-II sponsored FDP on role of renewable energy in Indian power sector", organized by Dept. of EEE Anna University Trichy during 21-09-2015 to 27-09-2015(7 Days)

16. Training program (2016), "DST sponsored training program on Big Data Analytics", organized by dept. of MCA Anna university trichy during 14-07-2016 to 23-07-2016(10 Days).
17. Workshop (2017), "IoT-LORa", organized by Dept. of ECE Anna University BIT Campus Trichy during 01-09-2017 to 02-09-2017(2Days).
18. Workshop (2017), "Asana and breathing Exercise", organized by dept. of Physical Education, Anna University BIT Campus Trichy on 07-02-2018(1Day).
19. Symposium (2018), "Impedance Measurement, IOT Devices Measurement, RF Design and Simulation and Material Measurement", organized by Keysight Technologies on 20-04-2018(1 Day).

➢ **International Conferences Participated: NIL**

➢ **Publications :**

   a. **Books:**

   ➢ Editor for proceedings of **CSIR** sponsored National conference on Nascent Technologies in Signal Processing and Communication, organized by dept of ECE Anna university BIT Campus Trichy during 17-03-2011 to 18-03-2011(2 Days)
   ➢ Editor for proceedings of **TEQIP-II** sponsored National conference on Nascent Technologies in Signal Processing and Communication, organized by dept of ECE Anna university BIT Campus Trichy during 27-11-2014 to 28-11-2014(2 Days)
   ➢ Editor for proceedings of **TEQIP-II** sponsored National conference on Nascent Technologies in Signal Processing and Communication, organized by dept of ECE Anna university BIT Campus Trichy during 01-09-2016 to 02-09-2016(2 Days),ISBN:978-93-80622-16-3

   b. **International Journals: NIL**

   c. **National Journals: NIL**

➢ **Conferences**

a. **International Conferences:**

1. **R.Jayarani**, K.Kavitha Devi, T.Chithra (2012), "Secret Communication based on Double compression scheme", International Conference on VLSI and Signal Processing during 4-5 May 2012, pp 255-258 at Bangalore.

2. **R.Jayarani**, R.Sowmyalakshmi, S.Kulasekarapandian,R.Nandhitha(2016), "Fuzzy based water saving system using WSN", TEQIP-II sponsored International conference on Emerging trends in Electrical Electronics and communications systems organized by dept. of ECE & EEE, Anna university BIT campus Trichy during 23-10-2016 to 25-10-2016(3 Days)pp.15-19, ISBN:819211289-6.

3. R.Sowmyalakshmi, S.M Girirajkumar , **R.Jayarani,** S.Parameswari(2016), "Significant interclass feature vectors for Ear Biometrics"**,** TEQIP-II sponsored International conference on Emerging trends in Electrical Electronics and communications systems organized by dept. of ECE & EEE, Anna university BIT campus Trichy during 23-10-2016 to 25-10-2016(3 Days)pp. 135-139,ISBN:819211289-6.

b. **National Conferences:**

1. **R.Jayarani**, T.Chithra (2012), "Computer Aided segmentation of human airway tree using differential geometric approach", National Conference on ETPECS.

2. R.Sowmyalakshmi,M.R.Anandha Padmanaban, **R.Jayarani** R.Sreevashini(2016), "A comprehensive overview of welding defects detection using image processing techniques", TEQIP-II sponsored National conference on Nascent technologies in signal processing and communication , organized by dept of ECE Anna university BIT Campus Trichy during 01-09-2016 to 02-09-2016(2 Days) pp.149-152, ISBN:978-93-80622-16-3.

3. **R.Jayarani**, R.Kanmani, M.Kiruthika (2018), "Control of Mobile Two Wheeled Inverted Pendulum using type-2 Fuzzy logic" , National conference

on Alternate Technologies for Energy , organized by dept. of EEE , Govt. College of Technology Coimbatore on 27-04-2018.