K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE – 637 215.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FACULTY PROFILE

01. **Name** : Dr.**R.**ESWARAMOORTHI

02. **Designation** : PROFESSOR

03. **Date of Birth** : 04.06.1969

04. **Date of Joining** : 24.09.2007

05. **Qualification & Designation** :

	At the time of Joining	Now
Qualification	M.E	Ph.D
Designation	LECTURER	PROFESSOR

06. **Specialization** : Applied Electronics

07. **Area of Interest** : Wireless Communication

08. **Experience & Promotion Details** (Chronological):

SL.NO.	Name of the Organization	Designation	Period From	Period To
1	K.S.R. College of Engineering	Professor	01.08.2018	Till date
2	K.S.R. College of Engineering	Associate Professor	01.07.2016	31.07.2018
3	K.S.R. College of Engineering	Assistant Professor (Sr)	01.07.2010	30.06.2016
4	K.S.R. College of Engineering	Senior Lecturer	01.07.2009	30.06.2010
5	K.S.R. College of Engineering	Lecturer	24.09.2007	30.06.2009
6	K.S.Rangasamy Institute of Technology	HOD	06.06.2002	23.09.2007

09. **Publication Details:-**

	*National Level		*International Level	
	Journal(s)	Conference(s)	Journal(s)	Conference(s)
KSRCE	NIL	03	7	7
Others	NIL	01	NIL	NIL

   *-Annexure

10. **Details of Proposal**

Sl.NO	Title of the Proposal	Funding Agency Details	Date & Duration	Status
1	Micro Strip Patch Antenna Design for 5G Applications	Embuzz Technologies Pvt Ltd, Coimbatore	23/09/2019 to 14/09/2020 One Year	Completed

11. Details of Winter/Summer Schools Attended

Sl.NO	Name of the programme	Organized by	Duration
1	Embedded System Design Using Microcontroller	Indian Institute of Science, Bangalore	24.11.2008 To 28.11.2008
2	Engineering Optimization	Indian Institute of Science, Bangalore	15.07.2019 To 19.07.2019

12. Details of Workshops/ Seminars Attended

Sl. No	Name of the programme	Organized by	Duration
1	Industrial Automation on Neuro Fuzzy and Its Applications	Kavery Engineering College, Machery	28.05.2008 To 29.05.2008
2	Artificial Neural Networks	Kongu Engineering College, Perundurai	19.09.2008 & 20.09.2008
3	Advancements in Digital Signal and Processing.	K.S.R College Of Engineering, Tiruchengode.	03.02.2009
4	Embedded Systems	Anna University, Chennai	20.02.2009
5	Digital Image Processing Using Wavelets	K.S.R College Of Engineering, Tiruchengode.	03.08.2009 To 14.08.2009
6	Research Trends in Wireless Networks	Easwari Engineering College, Chennai	22.08.2009
7	XII ISTE Students National Convention 2009-Global Opportunities and Challenges of Technical Students.	ISTE New Delhi & Bannari Amman Institute of Technology, Sathyamangalam.	03.10.2009 To 04.10.2009
8	Emerging Security Challenges In Cyberspace.	PSG College of Technology, Coimbatore.	14.09.2011
9	Research Methodology and Techniques in Soft Computing	K.S.R College Of Engineering, Tiruchengode.	28.09.2011
10	Renesas 16 Bit RL78 Microcontrollers	Government College of Engineering Salem	01.03.2012
11	Laptop Chip Level Service	Sengunthar College of Engineering Tiruchengode	13.03.2012
12	A Wireless Sensor Network for the Surveillance of Nuclear Radiation	K.S.R College Of Engineering, Tiruchengode.	18.06.2012 To 19.06.2012
13	Research Methodology, Techniques of Writing Research Articles and Thesis Preparation	Anna University, Chennai	02.03.2013
14	National Seminar on Signal Processing	Sree Narayana Guru Institute of Science and Technology, KOCHI.	15.02.2013 To 16.02.2013
15	FDP on Security Issues in Utility Computing	K.S.R College Of Engineering, Tiruchengode	17.05.2013 To 30.05.2013
16	Two- Week ISTE Workshop on Analog Electronics.	IIT Kharagpur	04.06.2013 To 14.06.2013
17	International level workshop on "Journal paper writing and preparation of winner research proposal".	K.S.R College Of Engineering, Tiruchengode	19.08.2015 To 20.08.2015
18	FDP on EC6201- Electronic Devices	Mahendra College of Engineering, Salem	23.11.2015 To 29.11.2015

19	FDP on CS 6551- Computer Networks	Kongunadu College of Engineering and Technology	14.12.2015 To 20.12.2015
20	FDP on EC6801-Wireless Communication	M. Kumarasamy college of Engineering.	19.12.2016To 25.12.2016
21	FDP on EC6702-Optical Communication and Networks	M. Kumarasamy college of Engineering	23.06.2017 To 29.06.2017
22	IEEE XPLORE Digital Library Training Programme.	K.S.R College Of Engineering, Tiruchengode	04.07.2018
23	FDP by TCS	IIT Madras Research Park, Chennai	20.12.2018
24	Workshop on J Gate-An Electronic Gateway for Research	K.S.R College Of Engineering, Tiruchengode	10.07.2019
25	Online Elementary FDP on "Cyber Security".	ATAL Academy	24.08.2021 To 28.08.2021
26	Online Elementary FDP on "IoT Framework Development for Agriculture Sector".	ATAL Academy	06.09.2021 To 10.09.2021
27	Online Elementary FDP on "Outcome based Curriculum and Examination Reforms".	ATAL Academy	25.10.2021 To 29.10.2021

13. Details of Winter/Summer Schools/Workshops/Seminars organized:

Sl. No	Name of the programme	Sponsored by	Acted as	Duration	Coordinator
-	-	-	-	-	-

14. Details of the Subjects Handled (in KSRCE):

Sl. No	Academic Year	Semesters	Name of the Subjects	Class	% of Pass
1	2022-2023	Even	Microprocessors and Microcontrollers	II-B.E-ECE(B)	
			Internet of Things	II-M.E -CS	
		Odd	Digital Principles and System Design	II-B.Tech-IT	
			High Speed Switching Architecture	II-M.E -CS	
2	2021-2022	Even	Microprocessors and Microcontrollers	II-B.E-ECE	83
			Internet of Things	I-M.E-CS	100
		Odd	Digital Principles and System Design	II-B.Tech-IT	100
			High Speed Switching Architecture	II-M.E -CS	100
3	2020-2021	Even	Microprocessors and Microcontrollers	II-B.E-ECE	100
			Internet of Things	I-M.E-CS	100
		Odd	Digital Principles and System Design	II-B.Tech-IT	98
			High Speed Switching Architecture	II-M.E -CS	100

4	2019-2020	Even	Microprocessors and Microcontrollers	II-ECE	100
			Microprocessor and its Applications	I-MCA	100
			Internet of Things	I-M.E-CS	100
		Odd	Electronic Instrumentation	III- ECE(A)	85
			Electronics and Microprocessor	III-Mech-A	81
			High Speed Switching Architecture	II-M.E -CS	100
5	2018-2019	Even	Internet of Things	I-M.E -CS	100
		Odd	Electronic Instrumentation	III- ECE (A)	98
			CMOS VLSI Design	II-M.E VLSI	100
6	2017-2018	Even	Microprocessors and Microcontrollers	II-ECE (B)	98
		Odd	Electronic Instrumentation	III- ECE (A)	91
7	2016-2017	Even	Microprocessor and its applications	I-MCA	100
		Odd	Electronic Instrumentation	III- ECE(B)	98
			Microprocessor and its Applications	II-MCA(B)	100
8	2015-2016	Even	Linear Integrated Circuits	II- ECE(A)	90
		Odd	Electronic Instrumentation	III- ECE(A)	98
9	2014-2015	Even	Linear Integrated Circuits	II- ECE(B)	95
		Odd	Electronic Instrumentation	II- ECE(A)	94
10	2013-2014	Even	Linear Integrated Circuits	II- ECE(C)	94
		Odd	Computer Architecture & Organization	III- ECE(B)	91
11	2012-2013	Even	Microcontroller and RISC Architecture	III- ECE(A)	95
		Odd	Digital Principles and System Design	II- IT	71
12	2011 -2012	Even	Electronics and Microprocessors	II - Mech	86
		Odd	Digital Principles and System Design	II- IT	89
13	2010-2011	Even	Electronics and Microprocessors	II - Mech	90
		Odd	Advanced Digital System Design	I-M.E (EST)	100
14	2009-2010	Even	Computer Architecture	I-M.E (EST)	100
		Odd	Fundamentals of Computing & Programming	I- ECE (A)	96

15	2008-2009	Even	Computer Architecture	III- ECE(A)	92.3
		Odd	Digital Principles and System Design	II-CSE (A&B)	97
16	2007-2008	Even	Computer Architecture	III- ECE(A)	86
		Odd	Digital Principles and System Design	II-CSE (B)	84
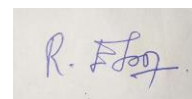
15. Additional Responsibilities:-

Sl. No	Details of Work	Work allotted by	Duration
1	Special Mentor	Head of the Department	July 2020- June 2021
2	Programme Coordinator-M.E-CS	Head of the Department	July 2017 to till date
3	DCOE	Principal	July 2015 to till date
4	EMS Coordinator	Principal	April 2009 to June 2015
5	ESD Lab In charge	Head of the Department	June 2008 to June 2009
6	Class Advisor	Head of the Department	June 2008 to June 2009

16. Self-Appraisal

3 Major Strengths: 1. Motivation
                      2. Helping Tendency
                      3. Punctuality

3 Major Weaknesses:
                      1. Fearness
                      2. Selfish
                      3. Less follow up

Signature.

LIST OF PUBLICATIONS

National Conference: 04

1. R.Eswaramoorthi, "Skills to Students to Integrate Technical Education", A National Conference on "Best Practices in Engineering Education" Organized by Engineering Education Foundation in Association with Sinhgad Technical Education Society's Engineering Institutes, Pune, 2nd & 3rd February 2007.

2. R.Eswaramoorthi, "Design and Realization of Embedded Image Transmission System Based on GPRS", National conference on "Recent Trends in Electrical, Electronics, Instrumentation and Communication Engineering" at Mahendra Engineering College, 28th March 2008.

3. R.Eswaramoorthi "EMI / EMC Aspects of Mixed Radio Frequency – Digital Circuits", First National conference on "Signal Processing and Communication Technologies", at Kamaraj College of Engineering & Technology, 11th April 2008.

4 R Eswaramoorthi, "Environmental Monitoring System", National Conference on "Innovation in Engineering and Technology", at Narasu's Sarathy Institute of Technology, 23rd March 2018.

International Conference: 7
1. R.Eswaramoorthi, G.Deepika "Efficient Algorithms for Extension of Mobile Backbone Networks", International Conference on "Emerging Trends in Computer and Communication Technologies", 16th & 17th February 2012.
2. Seethal Thomas, R.Eswaramoorthi, "Secure Communication using Adaptive Pixel pair Matching Embedding method and Nymble System", "International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal processing", 1st & 2nd March 2013.
3. S.Kurinjivendhen, R.Eswaramoorthi, "Enhancing the throughput using sleep scheduling mechanism in Wireless Sensor Networks", Second International Conference on "VLSI Computation, Networking, Drives, Image Processing & System Design" 26th March 2015.
4. A. Gayathri, R.Eswaramoorthi "Minimizing Transmission Cost and Security Enhancement for Third Party Information Exchange with Network Coding and Set Protocol", Second International Conference on " Advanced Engineering and Technology for Sustainable Development", 19th & 20th February 2016.
5 R.Eswaramoorthi, G.Singaravel "PAPR Reduction Techniques in OFDM System" International Conference on Emerging Trends in Science and Engineering (ICETSE-2017) on 11.05.2017 & 12.05.2017
6 R. Eswaramoorthi, "Monitering and Controlling the Industrial Boiler Temperature using GSM Technology"Sixth International Conference on Emerging Trends in Engineering and Technology, 15th & 16th March 2019.
7 R Eswaramoorthi, "Live Streaming using Drone" 10th International conference on

Advanced Science and Engineering Research-2021,16/04/2021.

National Journal: Nil.

International Journal: 7

1. Eswaramoorthi,R, Deepika,G "Efficient Algorithms for Extension of Mobile Backbone Networks", "International Journal of Electronics and Computer Science Engineering (IJECSE)", Volume1, Number2, ISSN 2277-1956, pp. 665-670. Year 2012.
2. Seethal Thomas, R. Eswaramoorthi, "Secure Communication using Adaptive Pixel pair Matching Embedding method and Nymble System", "International Journal of Emerging Trends in Engineering and Development", Issue 3, Volume 2, ISSN 2249-6149. May 2013. Pp 335-343.
3. Kurinjivendhen,S, Eswaramoorthi,R. "Enhancing the throughput using sleep scheduling mechanism in Wireless Sensor Networks", "International Journal of Advanced Information Science and Technology(IJAIST)", Volume 34, Number 34, ISSN 2319:2682. February 2015.
4. A.Gayathri, R.Eswaramoorthi "Minimizing Transmission Cost and Efficient Routing for Third Party Information Exchange with Network Coding", International Journal of Advanced Research in Biology Engineering Science and Technology(IJARBEST)," Volume II Issue I, ISSN 2395-695X. January 2016. pp 14- 18.
5. Eswaramoorthi R, Singaravel G, Rithanyhaa R.E "PAPR Reduction Techniques in OFDM System" International Journal of Emerging Research in Management and technology. (ISSN-2278-9359). Volume-6, Issue-5, May 2017, pp182- 187.
6. R.Eswaramoorthi, and G.Singaravel, "Improved Artificial Bee Colony Optimization Approach in UWBOFDM for Frequency Offset Estimation," *Journal of Testing and Evaluation*, (ISSN 0090-3973) Vol. 46, No. 1, JAN 2018, pp. 317-330.
7. R Eswaramoorthi, M Leeban Moses, JB Sahul Hameed, B Ghanti, "Deep Graph Neural Network Optimized with Fertile Field algorithm based detection model for uplink multiuser massive multiple input and multiple output system" Transactions on Emerging Telecommunications Technologies, published online on 31/07/2022.

Patent Published: 4

1) Multifunctional Cart for Health Monitoring and Movement of Patient. Application Number 202011004563A filed on 02/02/2020 and published on 14/02/2020.

2) Poultry Chicken Gender Classification using Deep Learning Models. Application Number 202141009555 filed on 08/03/2021 and published on 12/03/2021.

3) IoT and Cloud computing based Child Tracking System by using ESP-8266. Application Number 202141055634A filed on 01/12/2021 and published on 10/12/2021.

4) Android document sharing system using Blockchain Technology, Application Number 202241019701 A filed on 31/03/2022 published on 15/04/2022.

NPTEL Courses Completed: 04

Sl. No	Name of the Course	Duration	Score
1	Computer Organization and Architecture.	July-October 2017 12 Weeks	81%
2	Digital Circuits.	July-October 2018 12 Weeks	79%
2	Microprocessors and Microcontrollers.	January-April 2019 12 Weeks	77%
4	Accreditation and Outcome Based Learning.	August- October 2022 8 Weeks	80%