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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PROFILE

01. Name   : Mahendran P

02. Designation   : Assistant Professor

03. Date of Birth   : 26.11.1983

04. Date of Joining   : 03.12.2010

05. Qualification & Designation   :

	At the time of Joining	Now
Qualification	**M.E**	**Ph.D.**
Designation	**Assistant Professor**	**Assistant Professor**

06. Specialization   : Electronics and Control

07. Area of Interest   : VLSI Design

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

Sl.NO.	Name of the Organization	Designation	Period From	Period To
1.	K.S.R College of Engineering	Assistant Professor	03.12 2010	Till date
2.	Dhaanish Ahmed College of Engineering	Assistant Professor	24.11.2008	30.11. 2010
3.	Veltech Engineering College	Lecturer	13.05.2006	21.11.2008

09. **Publication Details:-**

	*National Level Journal(s)	*National Level Conference(s)	*International Level Journal(s)	*International Level Conference(s)
KSRCE	-	4	7	5
Others	-	-	-	-

*-Annexure

10. Details of Proposal

Sl.NO	Academic Year	Title of the Proposal	Funding Agency Details	Grant Received (INR)	Project Coordinator	Status
1.	2009 - 2010	National Conference	CSIR	Rs. 20,000/-	Mrs.K.P.Sampoornam Asso.Prof/ECE	Completed
2.	2020 - 2021	MODROB	AICTE	Rs.696078/-	Dr.P.S.Periasamy Prof.& Head/ECE	Completed
3.	2021 - 2022	RPS	AICTE	-	Dr.S.Karthikeyan Prof./ECE Dr.P.Mahendran Asst.Prof./ECE	Applied

11. Details of Winter/Summer Schools Attended

Sl.NO	Name of the programme	Organized by	Duration
1.	Faculty Development Training Programme on "EC 2252-Communication Theory"	K.S.R. College of Engineering, Tiruchengode	28th November to 5th December 2012
2.	Faculty Development Training Programme on "EC-2352 Computer Networks"	Kongunadu College of Engineering & Technology	16th December to 22nd December 2013
3.	3 days Faculty Empowerment Workshop on "Antenna & Wave Propagation"	K.S.R Group of Institutions	11th – 13th December 2014
4.	Two days Faculty Development Programme on "EC6502-Principles of Digital Signal Processing"	K.S.R. Institute for Engineering and Technology	15th & 16th June 2017
5.	Online Certification course on "Introduction to Internet of Things"	NPTEL	July-October 2017
6.	Online Certification course on "Microprocessors and Microcontrollers"	NPTEL	January-April 2018
7.	Two Week Faculty Development Programme on "Advanced RF Circuit Design and Software Defined Radio"	Government College of Engineering, Salem	12th – 25th June 2019
8.	One Week Faculty Development Programme on "Evolution of IoT and its Real Time Applications	Malla Reddy Institute of Technology and Science	13th to 17th July 2020

Sl.No.	Name of the programme	Organized by	Duration
9.	One Month Internship Training on "Python Made Simple (Basic & Advanced)"	AICTE – INSPIRE	13th July to 13 August 2022
10.	9 Days Faculty Development Programme on "Design and Development of Industry led Curriculum in Technological Era"	AMET University	14th – 22nd December 2022
11.	One Week Faculty Development Programme on "Energy Efficient and Decarbonisation Technologies"	NITTTR, MoE, Government of India	05th – 09th June 2023
12.	One Week Faculty Development Programme on "The Futuristic View of Semiconductor Devices in Healthcare Applications Using AI & ML: Research Issues and Challenges"	AICTE Training and Learning (ATAL) Academy	16th October 2023 to 21th October 2023
13.	One Week Faculty Development Programme on "Design Challenges and Realization of Wearable Antennas From An Antenna Engineer Perspective"	AICTE Training and Learning (ATAL) Academy	18th December 2023 to 23rd December 2023
14.	One Month Course on "Basics of Embedded Systems and Robotics"	e-Yantra Lab Setup Initiative (eLSI).	15th June to 22nd July 2023

12. Details of Workshops/ Seminars Attended

Sl.No.	Name of the programme	Organized by	Duration
1.	One day workshop on "Reconfigurable Technology and its Applications"	National Institute of Technology,Tiruchirappalli	17th November 2011
2.	Two Days Workshop on "Solid State Device Modeling and Simulation"	KPR Institute of Engineering and Technology	17th & 18th November 2012
3.	Two Days Workshop on "Basics of Laboratory Virtual Instrumentation Engineering Workbench"	K.S.R. College of Engineering, Tiruchengode	18th & 19th October 2013
4.	One day Seminar on "Writing Effective Research Paper(s) and Thesis"	K.S.R. College of Engineering, Tiruchengode	19th July 2014
5.	Two Days Workshop on "Virtual Instrumentation Using Lab-View"	K.S.Rangasamy College of Technology	6th & 7th August 2014
6.	National Level Workshop on "Blooms Taxonomy and its Assessments"	K.S.R. College of Engineering, Tiruchengode	20th March 2015
7.	Two days Workshop on	PSG College of	10th & 11th July

	"Embedded Robotics"	Technology,Coimbatore	2015
8.	Two days Workshop on "Journal paper writing & preparation of winner research proposal"	K.S.R. College of Engineering, Tiruchengode	19th & 20th August 2015
9.	One day workshop on " Embedded C Programming using KEIL – IDE"	K.S.R. College of Engineering, Tiruchengode	23rd September 2015
10.	One day training programme on "Accreditation Board of Engineering and Technology"	K.S.R. College of Engineering, Tiruchengode	13th October 2017
11.	Two day National Seminar "Platform for Young Electronics Engineers to be an Entrepreneur"	K.S.R. College of Engineering, Tiruchengode	18th & 19th January 2018
12.	One day training programme on "How to access e-Resources"	K.S.R. College of Engineering, Tiruchengode	23rd January 2019
13.	One day National Seminar on "Recent Developments in Smart Framing based on Internet of Things and Robotics"	Nandha Engineering College, Erode	5th April 2019
14.	One day International Level Online Quiz on "Python Programming"	Malla Reddy College of Engineering and Technology	6th June 2020
15.	Two-Day National Level Online Workshop on "Learning Management System"	Siddhartha Institute of Engineering and Technology	8th – 9th July 2020
16.	One day International Webinar on "Navigation Satellites for Modern Telecommunications"	Malla Reddy Institute of Technology and Science	11th July 2020
17.	One day Webinar on Renewable Sources of Energy	Mohamed Sathak A J College of Engineering	11th July 2020
18.	National Level Webinar on "Artificial Intelligence - The Futuristic World"	Arignar Anna Govt. Arts College For Women Walajapet	11th July 2020
19.	One day National Level Quiz on "Mind Freaks - 7" – Microwave Engineering	Nalla Narasimha Reddy Group of Institutions	15th July 2020
20.	Four days National Level Quiz on "HTML & CSS"	MANDSAUR University	14th to17th July 2020

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

Sl.No.	Name of the programme	Sponsored by	Acted as	Duration	Coordinator
1.	Conference	CSIR	Co- Cordinator	06.02.2012	Mrs.K.P.Sampooranam

2.	Two days seminar on Emerging Tools to analyze brain waves for Artificial Limb Technology	ICMR	Coordinator	06.11.2015 & 07.11.2015	Mr.P.Mahendran
3.	Symposium	KSRCE	Co- Cordinator	06.10.2016	Mrs.J.Gnambigai
4.	Symposium	KSRCE	Co- Cordinator	15.09.2017	Mrs.J.Gnambigai
5.	Tronix (Magazine)	KSRCE	Coordinator	2018-2019 ODD	Mr.P.Mahendran
6.	Tronix (Magazine)	KSRCE	Coordinator	2018-2019 EVEN	Mr.P.Mahendran
7.	Webinar on Low Power VLSI Dessign	KSRCE	Coordinator	29.08.2020	Mr.P.Mahendran

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

Sl.No	Academic Year	Semesters	Name of the Subject	Class	% of Pass
1.	2021-2022	VI	Python Programming	ECE	98.57
2.		V	Computer Networks	ECE	98.59
3.	2020-2021	VI	Embedded Systems	ECE	100
4.		V	Computer Networks	ECE	100
5.	2019-2020	VII	High Performance Networks	ECE A & B	100
6.		V	Computer Networks	ECE B	95.35
7.	2018-2019	VI	Embedded Systems	ECE B	100
8.		VI	Ad hoc and Sensor Networks	CSE A & B	84.30
9.	2018-2019	VII	High Performance Networks	ECE B	80
10.	2017-2018	VI	Electronics and Microprocessor	MECH D	84.5
11.	2017-2018	VII	High Performance Networks	ECE B	92.42
12.	2016-2017	VI	Electronics and Microprocessor	MECH C	88.45
13.	2016-2017	VII	Computer Hardware and Interfacing	ECE C	100
14.	2015-2016	VI	Antenna & Wave Propagation	ECE A	98.24
15.	2015-2016	VII	Computer Hardware and Interfacing	ECE B	95.52
16.	2014-2015	VI	Antenna & Wave	ECE A	82.81

			Propagation		
17.	2014-2015	V	Computer Networks	ECE B	94.02
		VII	High Speed Networks	ECE B	88.70
18.	2013-2014	VI	Antenna & Wave Propagation	ECE A	86.76
19.	2013-2014	V	Computer Architecture and Organization	ECE A	88.4
				ECE C	83.82
20.	2012-2013	VI	Antenna & Wave Propagation	ECE A	86.95
21.	2012-2013	V	Computer Networks	ECE B	82.85
		III	Network Management	M.E(CS)	88.88
22.	2011-2012	VI	Antenna & Wave Propagation	ECE A	92.31
23.	2011-2012	V	Computer Networks	ECE A	100
			Computer Networks	ECE B	88.88
24.	2010-2011	VI	Antenna & Wave Propagation	ECE A	84.50

21. Additional Responsibilities:-

Sl.NO	Details of Work	Work allotted by	Duration
1.	Faculty Contribution In charge	Head of the Department	July 2018 to till date
2.	Tronix Magazine	Head of the Department	Dec 2019 to till date
3.	Overall Ranking Co-In charge	Principal	July 2018 to till date
4.	Association Co-In charge	Head of the Department	June 2016 to June 2018
5.	FDP / Seminar Grant	Principal	June 2016 to Dec 2017
6.	R&D coordinator for the Department	Head of the Department	June 2015 to Dec 2017
7.	Time Table In charge	Head of the Department	Jan 2015 to till date
8.	Microprocessor Lab In charge	Head of the Department	Dec 2014 to June 2015, July 2018 to till date
9.	Subject Allocation Co-In charge	Head of the Department	June 2013 to Jan 2016 Dec 2019 to till date
10.	Networks Lab-In charge	Head of the Department	June 2011 to Jan 2013
11.	Class Advisor	Head of the Department	June 2011 to June 2015

16. Self-Appraisal

3 Major Strengths: 1. Flexible
                                   2. Responsible
                                   3. Leadership

3 Major Weaknesses:
                                   1. Ideal Goals
                                   2. Calm
                                   3. Generosity

Signature.

<div align="center">**Annexure**</div>

<div align="center"># LIST OF PUBLICATIONS</div>

National Conference: **04**

1. R.Santhosh kumar, M.Dinesh, **P.Mahendran, "**Implementation of XOR logic based high area efficient full adder", National Conference on recent trends in Communication, Computation and Security, 9th March 2012.

2. B.Jai kumar, **P.Mahendran, "**GSM based Real Time Industrial Monitoring system using GPS", National Conference on Innovations in Computing and Communication, 16th March 2013.

3. M.Senthamil selvi, **P.Mahendran, "**Low Power and Delay Efficient Carry Select adder using MGDI Technique", National Conference on Trends in Automotive Parts Systems and Applications, 20th & 21st March 2015.

4. **P.Mahendran,** "Valet Car Parking(E Yantra)", National Conference on Advancement in Electrical Power, Signal Processing & Communication Network System, 23rd March.

International Conference: **05**

1. B.Jaikumar, **P.Mahendran, "**Automated Management of Home Appliances Using RTOS", International Conference on Emerging Trends in Computer and Communication Technologies, 16th & 17th February 2012.

2. R.Santhosh kumar, M.Dinesh, **P.Mahendran, "**Implementation of XOR logic based high area efficient full adder", International Conference on Computing Techniques, Embedded Systems & Drives, 7-9th March 2012.

3. **P.Mahendran,** "Efficient Multiplier Design with Adaptive Hold Logic(AHL)", International Conference on Electrical, Electronics & Computer Engineering,22nd & 23rd March 2016.

4. **P.Mahendran,** "Implementation of students attendance monitoring system using RFID and GSM" , International Conference on Recent Innovations in Engineering, Technology and Management, 22nd March 2019.

5. **P.Mahendran,** "Multi-objective sensor placement using the effective independence model for wireless sensor networks in machine health monitoring", International Conference on Recent Innovations in Engineering, Technology and Management, 22nd March 2019.

National Journal: **Nil**

International Journal: **10**

1. **P.Mahendran,** B.Jaikumar, **"**Automated Management of home appliances using RTOS", International Journal Of Communication And Computer Technologies, Volume 1, pp 20-25, issue 1, July 2012.

2. **P.Mahendran,** M. Senthamilselvi, **,** " High Performance Adder Circuit In Vlsi System", International Journal of Technology Enhancements and Emerging Engineering Research, Volume 2, pp 80-83, issue 3, 2014.

3. **P.Mahendran**, S.Pavithra, "Low Power and Delay Efficient Carry select Adder using MGDI technique", International Journal of Engineering Research and Science & Technology, Volume 3, issue 3, May 2015.

4. **Mahendran P**, Periasamy P.S, "Design and Performance Analysis of Single bit Full Adder Circuit using Hybrid Technique", Journal of Electrical Engineering, Volume , Issue, pp. , 2018.

5. **Mahendran P,** NaveenKumar K, Prasanth G, Soundharya M S, Vidhyashree S, " Implementation of students attendance monitoring system using RFID and GSM", International Journal of Intellectual Advancements and Research in Engineering Computations, Volume 7, Issue 1, pp.1520-01529,2019

6. **Mahendran P,** Sabarinathan C, Santhanalakshmi G, Sowmya N, Vinoth M, " Multi-objective sensor placement using the effective independence model for wireless sensor networks in machine health monitoring", International Journal of Intellectual Advancements and Research in Engineering Computations, Volume 7, Issue 1, pp.1484-1492,2019

7. **Mahendran P,** Ms. Aarthi, Ms. Bharani, Ms. Logeswari, Ms. Praveena, "Smart Attendance System using GSM Module", International Journal of Advanced Science and Engineering Research, Volume 5, Issue 1, pp.136-140,2020.

8. **Mahendran P,** Mohan kumar B, " IoT Enabled Intelligent Transportation System for Emergency Services", Journal of Emerging Technologies and Innovative Research, Volume 10, Issue 4, pp.h525-h530, 2023.

9. **Mahendran P,** M.S. Kavitha, R.Radhika, C.Kotteeswaran, "Design of all pass make over based capricious digital filter using eminent speed dual carry select adder and truncation and rounding approximate multiplier for image processing application", Concurrency Computation and Practice, Volume 35, Issue 6, pp.1-17, 2023.

10. **Mahendran P, Aravinthan T**,Diwahar S, Sharan S, Sneha Y "Automatic Electrical Appliance Fault Detection System with Remote Monitoring Through IoT", International Journal of New Innovations in Engineering and Technology, Volume 22, Issue 1, pp.860-865, 2023.

Patent: 01

S.No	Name of the Inventor(s)	Title of Invention	Date of filing	Patent No (or) application No	Status of the Indian patents
1	Dr.R.Marappan Dr.A. Karthikeyan Dr.K.Paramasivam Mr.P.Sabarinath Mr.T.Santhosh Kumar Mr.C.M.Dinesh Mr.K.Karuppanasamy Ms.Lavanya Mr.P.Mahendran	An Improved Artificial Hand	13/03/2015	1244/CHE/2015	Published