



**Name:** Mrs.P.Padmapriya, M.E, (PhD)  
**Designation:** Assistant Professor  
**Department:** Biomedical Engineering, SRM-IST Ramapuram  
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**Research area:** Rehabilitation Engineering, Sensor Networks, BioInstrumentation, Systems physiology, Bio-Signal Processing, Neural Networks, Machine Learning.

### Academic Experience

Sl. No	Institute Name	Position	Period
1	Hindustan Institute of Technology & Science	Assistant Professor (SG) in the Department of <b>Electronics and Communication Engineering</b>	1yr 7Months
2	SKR Engineering College	Assistant Professor in the Department of <b>Biomedical Engineering</b>	2yr 6Months
3	Vel Tech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Assistant Professor in the Department of <b>Biomedical Engineering</b>	3yr 6Months
4	Dhanalakshmi Srinivasan Engineering College	Assistant Professor in Department of <b>Biomedical Engineering</b>	1yr 6Months

### Academic credentials

PhD Program			
Area of Specialization		Signal Processing	
University		Anna University	
Status		On-going	
Course	Institution	YOP	Percentage or CGPA
M.E(Medical Electronics)	Rajalakshmi Engineering College, Chennai	2013	7.9(CGPA)
B.E (Electronics and Communication)	SKR Engineering College, Chennai	2011	74.3%
XII	Ramakrishna Vidhyalaya Matric. Hr. Sec. School, Villupuram	2007	82%
X	Ramakrishna Vidhyalaya Matric. Hr. Sec. School, Villupuram	2005	83.49%

### Roles And Responsibilities

Role	Responsibilities
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Department NBA coordinator	Worked in the presentation and documentation of various criteria's scrutiny members in inter departments for checking the works done
Institutional level NAAC coordinator	Involved in the presentation and documentation of various criterions. Proud to say that my institution awarded A+
Assistant Hod	Take care of departmental activities and be mentor for the faculty members during the absence of Hod
Department ISO coordinator	Contributed in the presentation and documentation of various criteria's
Department Alumni coordinator	The details of alumni are maintained, alumni are invited for the alumni meet, and various placements are arranged by them.
Project guide	Guided students for mini project and project in their academic through innovation techniques, made them to do innovative projects and applied for many contests such as Motorola Award, TIDE Contest, CII Award etc. won prizes, and some published paper in good journals.
Exam Cell in-charge	Prepared exam time table for unit test, internal test and model exam. Allocating halls, faculties for duties and monitoring the web portal after examination
In-plant training coordinator	Internship and in-plant training programs are been arranged for the students.
Overall college placement and training coordinator	Handled responsibilities of conducting placement online test, mock exams, organized many training programmes and held up with placement drive in the campus.
Overall college innovation coordinator	Handled various responsibilities in innovation and project expo by being as an innovation coordinator in the department
Department Time table in charge	Prepared Time Table for the department and maintained hour-based attendance in portal
Department Cultural coordinator	Involved in various cultural activities in college and made the students to participate inter and intra college event.
Deputy Girls Hostel Warden	Maintained hostel girl's database, attendance and monitored them

### **Organizer**

1. Organised Technical Talk, "Embedded System and it's Real Time Applications", by "Dr.Partheepan Rudrapati", CEO, Knowledge Xchange Community & Academic2IT, Entrepreneur & Industry Solutions Architect, AWS Solutions Architect-Associate (Cloud), Director-Swami Vivekananda Educational Guidance of Tamil Nadu, 9<sup>th</sup> Feb 2023, for ECE & EEE students, HITS.
2. Organised Awareness Program "Green Energy (Solar)-A Step Towards Better Future", Mr.B.Satheesh, A.Kameswaran, Mrs.Elakiya Maheswaran, Mr. Allan Cristopher, Founder & Head-Public Relationship, Head-Operations, Head-Technical Renewable Energy, for ECE, MECH & EEE students, HITS.
3. Organised Guest Lecture on "Fundamentals of Information Security", by Ms.Aswini Priyanka, Chief Operations Officer, Neurity Solutions for ECE students, HITS.

### **Invited as Resource Person - Webinar**

1. Received Honor Certificate for Being a Speaker in Webinar on "Jobs, roles and responsibilities of Biomedical as a Quality Engineer" to international fovea-Z Biomedical Association Followers on 8<sup>th</sup> April 2023.
2. Conducted Webinar for Biomedical Students of Saveetha Engineering College on the topic "Patient Monitoring System and its Applications", 12<sup>th</sup> April 2023

- Invited as a speaker for Webinar on “Electrical Hazards and Safety Measures” for Biomedical III year Students at Saveetha Engineering College, 23<sup>rd</sup> April 2023.
- Invited as a delivering the speech on “Ventilator” for Biomedical Students in Saveetha Engineering College, 30<sup>th</sup> May 2023.

### Patents

- Filed and Published Patent with the title “An Unmanned Aerial Vehicle (UAV) Assembly for Monitoring Agricultural Waste by Image Processing System and Method”, 2023.
- Filed and Published Patent with the title “Machine Vision based IoT enabled Spinach Harvesting Robot with Semi-Manual Control”, 2022.
- Filed for Patent Registration with the title “Design and Implementation of Metropolitan Bus Access System for Visually Impaired Persons”, 2017.
- Filed for Patent Registration with the title “Design of a Personal Healthcare Device for Early Detection of Labor by Monitoring Physiological Parameters”, 2016.

### Books Published

- Published a Chapter on “Infrared Thermal Sensor for a Low Cost and Non-invasive Detection of Skin Cancer”, Springer, SingaporeBook in ECCE2019.
- Robot-Assisted Therapy for Learning and Social Interaction of Children with Autism Spectrum Disorder, P.Padmapriya, “Automation and Robotics”, 2022, ESN Publication.

### List of Publications

Sl. No	Name of the Journal/Conference	Title	Doi/Vol/Issue/ISBN/PageNo
1	2 <sup>nd</sup> International Conference on Innovations in Electronics and Communication Systems (ICIECS-2022)	An Effective Garbage Monitoring System and Metal Detection for the Welfare of Society using IoT	Year 2023/p:74-81
2	Springer, SingaporeBook InECCE2019	Infrared Thermal Sensor for a Low Cost and Non invasive Detection of Skin Cancer	Year 2020/p:77-85
3	International Journal of Pure and Applied Mathematics	A Survey on Skin Cancer Detection Using Skin Temperature Variation Analysis	Volume119/Issue15/Pg:1199-1213/2018
4	ELSEVIER	Recent Advances in Nano-Patterning and Nano- Imprint Lithography for Biological Applications	Doi:10.1016/j.proeng.2014.12.420
5	Royal society of Chemistry	Skin cancer detection using non-invasivetechniques	Doi: 10.1039/C8RA04164D (Review Article) RSCAdv., 2018, 8, 28095-28130

6	International Journal of Science and Technology	Detection and Classification of Brain Tumor Using Radial Basis Function	Volume 9, Issue 1, 2016, Article number 85758
7	International Journal of Science and Technology	Design and Development of a Foot Pressure Scanner for Diabetic Patients	Volume 9, Issue 2, 2016
8	12th Global Congress on Manufacturing and Management- GCOMM –2014	Recent Advances in Nano-Patterning and Nano- Imprint Lithography for Biological Applications	-
9	International Journal of Pure and Applied Mathematics	A Survey on skin Cancer Detection using Skin Temperature Variation Analysis	0972-9828
10	International Journal of Pure and Applied Mathematics	Sign Language Communication using Micro Touch Sensor	0972-9828
11	International Journal of Engineering Research & Technology	Analysis of Electroencephalogram Using Radial Basis Function	-
12	International Conference on Science, Engineering and Management in Srinivasan Engineering College	Analysis of Electroencephalogram Using Radial Basis Function	-
13	International Conference on Intelligent Computing Methods, Optimization & Robotics- University of Bradford, UK, Srinivasan Engineering College	Classification and Analysis of Electroencephalogram Using Radial Basis Function	ICICMOR-EC009
15	International Journal of Control Theory and Applications	Surface Modification of Titanium with Chitosan Extraction from Crab Shell by Spin Coating	0974-5572, pp. 4027-4032
16	International Journal of Control Theory and Applications	Blood Microscopic Image Analysis for Acute Leukemia Detection	0974-5572, pp. 3731-3735
17	National Conference-"A" BEST-2016, Karpagam Vingayaga Engineering College	Design and Implementation of Independent Metropolitan Bus Access for VIP using ZIGBEE	-
18	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Blind Vision Restorer- An Electronic Eye	ISBN 978-93-81208-62-5 pp-19
19	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Novel Design for Artificial Heart	ISBN 978-93-

			81208-62-5
20	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Residual Limb Controlled Myoelectric Prosthesis	ISBN 978-93- 81208-62-5
21	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Determination of Amount of Bilirubin Content in Urine Using Boiled Rice by Spectrophotometry Method	ISBN 978-93- 81208-62-5
22	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Smart Wearable Body sensors for Measuring Various Biological Parameters	ISBN 978-93- 81208-62-5
23	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	A Novel & Smart Self Monitoring System Using GSM Technology	ISBN 978-93- 81208-62-5
24	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Design of a Personal Healthcare Device for Early Detection of Labor by Monitoring Physiological Parameters	ISBN 978-93- 81208-62-5
25	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Digestive Tracker	ISBN 978-93- 81208-62-5
26	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Body Temperature Controlled Air Ventilation System	ISBN 978-93- 81208-62-5
27	National Conference (NTBEECOM), VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Modern Approach to Cure Vitiligo	ISBN 978-93- 81208-62-5
28	International Conference on Science, Engineering and Management Research (ICSEMR 2018), Held at VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	High Speed Multispectral Iris Image Capture's Device	Pp No:5
29	International Conference on Science, Engineering and Management Research (ICSEMR 2018) Held at VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College	Detection and Analysis of Skin Cancer Dynamics Using Infrared Thermal Sensor	Pp No:5

30	International Conference held at Saveetha Engineering College	Sign Language Communicator for Disabled Person's	Pp No:15
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### Achievements

1. **“Detection and Analysis of Skin Cancer Dynamics Using Infrared Thermal Sensor”** project was selected, presented and awarded runner up for **“FAER Contest”** June 2018.
2. **“Design and Implementation of Independent Metropolitan Bus Access for VIP using ZIGBEE”** was selected in the **“Smart India Hackathon Contest”**, 2016-2017 and proud to say that we are the only batch in south India who selected in top 5 finalist.
3. **“Design of Portable T-Rays Device”** was selected in the **“FAER Contest”** in 2016-2017 and presented that project in MSJIRT, Bangalore on June 22nd & 23rd 2017.

### Other Contributions

- Got **“Best Teacher Award”** by Radio Mirichi FM station
- Got **“Best NBA Coordinator”** in Veltech Multitech Dr.RR Dr.SR Engineering College
- Got **“Best Paper Award”** for publishing paper in International Journal conducted by Srinivasan Engineering College by publishing with the title **“Classification and Analysis of Electroencephalogram Using Radial Basis Function”** in 2013.
- **“Design and Implementation of Independent Metropolitan Bus Access for VIP using ZIGBEE”** is been selected in the **“Smart India Hackathon Contest”**, 2016-2017 and proud to say that we are the only batch in south India who selected in top 5 finalist.
- Won **“1st prize”** in the **“All India Level Drawing Competition”** in school level for Mahatma Gandhi Birthday.