

Dr.K.Helenprabha



E-mail

hodece@rmd.ac.in

Qualification

- B.E. in Electronics and Communication Engineering from Bharathiar University, GCT Coimbatore.
- M.E.in Applied Electronics from Bharathiar University, CIT, Coimbatore.
- Ph.D from Anna University, Chennai.

Specialization

- Bio Medical Signal Processing
- Applied Electronics.

Research Interest

- Artificial Neural Networks
- Biomedical instrumentation
- Soft Computing
- Wireless Sensor Network
- Image Processing
- Bio Signal Processing
- Digital Signal Processing

Publications

[Click here](#) to view the list of National / International Conference Publications.

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Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
R.M.D. Engineering College Kavaraipettai	Professor & Head	2.1.2009	Till date	14	11	09
Kongu Engineering College , Perundurai	Assistant Professor	11.8.1997	31.12.2008	11	4	21
Mookambigai Engineering college, Pudukottai	Lecturer	27.6.1994	08.08.1997	3	1	12
Total				29	5	12

Ph.D Guidance

S.N	Name of the Scholar	Title	Status
1.	Ms.S. Hemajothi	Analysis of Fetal Electrocardiogram signal extraction using ANFIS techniques"	Awarded
2.	Ms.I.Chandra	Scheduling Based QoS Enhancement Techniques in wireless Networks during Vertical Handover	Awarded
3.	Ms.M.Pradeepa	Performance analysis of multirate Signal processing with ANFIS for Fetal ECG extraction from noisy Environment	Awarded
4.	Mrs.Srigitha.S. Nath	Reliable energy efficient routing Protocols for heterogeneous Wireless sensor networks based on Asymmetric links	Awarded
5.	Mr.N.SivaKumar	Analysis of Fusing CT and MRI Images using Hybrid Transformation Techniques	Awarded
6.	Mr.C.Navaneethan	Automatic modulation of cluster Based wireless sensor network for Energy consumption with multi-level Security	Awarded
7.	Mr.M.N.Vimal Kumar	Classification and Diagnosis of Breast Cancer Using Mammographic Images by Optimization Techniques	Awarded
8.	Mr.T.Senthil Kumar	An efficient clustering approach for Network lifetime enhancement in Heterogeneous wireless sensor Network	Awarded
9.	Mr.N.G.Praveena	Energy efficient routing to enhance network lifetime in wireless Sensor networks	Awarded
10.	Mrs.C.Shobana Nageswari	Analysis And Investigation Of Hydrops Fetalis And Curvature Of Fetal Heart Chambers Using Ultrasound Images	Awarded
11.	Ms.S.Manju	Analysis of vegetation classification On hyper spectral images using Swarm optimization techniques	Awarded
12.	Mr.R.Suresh	Design And FPGA Implementation of Relaxed Look Ahead Pipelined Adaptive IIR Filter For Extraction of ECG From Noisy Environment	Awarded
13.	Mr.P.Arul	Design and Implementation of VLSI circuits using DG-CNFET for reduction of short channel effects over DG-MOSFET.	Viva Voce on 08.12.2023
14.	Ms.M. Shakunthala	Analysis of Cerebral Venous Sinus Thrombosis on MRI Images using an Optimization Technique	Viva Voce to be Scheduled
15.	Ms.R.Aarthi	Enhanced detection of Brain Neoplasm in Magnetic Resonance Images using Improved Segmentation Techniques.	Viva Voce on 17.11.2023
16.	Ms.M.Leela	Image Fusion using CT and MRI Images	Synopsis Submitted
17.	Ms.P.Poonkuzhali	Classification of Hyper Spectral image	Confirmation Completed
18.	Ms.P.Santhoshini	Analysis of OLED using Micro/Nano structures	Confirmation Completed
19.	Mr. V.Kumaravel	Classification of Neurological Disorder Using Signal Processing	Course Work Completed
20.	Mr.J.Jagan Babu	Preoperative Breast Cancer Classification using Machine Learning Techniques	Course Work Completed

Funded Projects

Research Projects

S.No	Title of the Project	Funding Agency	Amount in Rs	Duration	Status
1	Optical Model Design for enhancement of light Extraction and Out-Coupling Efficiency in Thin film OLED Structures	SERB-Core Research Grant	22,86,000	36 Months	Accepted for Evaluation
2	Numerical Analysis of Physical Mechanism in OLED using Stretched Exponential Decay Model.	SERB - MATRICS	6,00,000	36 Months	Accepted for Evaluation
3	Analysis of OLEDs using Micro/Nano structures in thin films.	DST - Advanced Materials and Energy Storage Technology (AMEST) Scheme.	63,68,000	24 Months	Applied
4	Smart Companion Robot for Elders	DST-TIDE	21,71,800	2019-20	Under Review
5	Drone Disinfectant to fight COVID-19	TNSCST	3,97,500	2020-21	Under Review
6	Determination of Optimized Shortest Path in Asynchronous Network-on-Chip using Metaheuristic Algorithms	CRG-SERB	17,26,000	2020-21	Applied

Other Projects

S.No	Title of the Project	Funding Agency	Amount in Rs	Duration	Research Progress
1	Modernization Of Optical Communication Laboratory	AICTE under MODROBS	10,00,000	2010-2011	Completed
2	Seminar / FDP	AICTE and Anna University	1,10,000	2010-2011	Completed
3	Multimedia Signal Processing	AICTE under MODROBS	8,00,000	2013-2014	Completed
4	Modernization of Advanced VLSI Design Lab	AICTE under MODROBS	2,00,000	2018-2019	Completed

Entrepreneur Innovation Projects

S.No	Title of the Project	Funding Agency	Amount in Rs	Duration	Research Progress
1	Aqua Catherisis Using GSM Technology	DST under IEDC	1,00,000	2013-2014	Completed
2	Smart Grid Robot	DST under IEDC	1,00,000	2014-2015	Completed
3	MEEP	DST under IEDC	1,00,000	2017-2018	Completed
4	Sign Language Translator Using ML	DST under IEDC	1,00,000	2018-2019	Completed

Consultancy Projects

S.No	Title of the Project	Company Name	Amount in Rs	Duration	Research Progress
1	Smart Hospital	Aptech Solutions	26,000	2022-2023	Completed
2	PCB Design for their projects	Green Circuits, Chennai	25,500	2022-2023	Completed
3	Setting up automatic timing belt tensioners	BGS International, Chennai	40,000	2021-2022	Completed
4	Automization of Variable Scooter Belts and Multi Rib Belts (EPDM) using DP Technology	BGS International, Chennai	1,00,000	2019-2020	Completed

Patent Applied

S.No	Name of the Inventor	Title of the Invention	Date of filing of application	Publication Date	Application No.
1	Dr.K.HelenPrabha & Mrs.G.Karthika R.M.D Engineering College	Covid Protection Device	22/12/2021	31/12/2021	202141059877 Granted on 10/07/2023
2	Dr.K.HelenPrabha & Mr.B.Jaiganesh R.M.D Engineering College	Augmented Reality Based Virtual Trail Room For Ready Made Clothing Showrooms	03/07/2021	24/12/2021	202141055990
3	Dr.K.HelenPrabha & Dr.C. Shobana Nageswari R.M.D Engineering College	Investigation of Hydrops Fetalis and Curvature of Fetal Heart Chambers	13/08/2020	30/10/2020	202041034671
4	Dr.K.HelenPrabha & Dr.M.N.Vimal Kumar R.M.D Engineering College	Classification and Diagnosis of Breast Cancer Using Mammographic Images (FER received)	19/09/2018	5/10/2018	201841035246 A
5	Dr.K.HelenPrabha R.M.D Engineering College	System & Method of extracting and Improve the quality Foetal ECG from Abdomen ECG Signal- (FER received)	26/04/2018	5/10/2018	2018410157 67 A Granted on 11/04/2022

Members in Professional Bodies

- Senior member in IEEE **Membership No 99107881**
- Life member in ISTE **Membership No LM 27841**
- Life member in IAENG **Membership No 170924**
- Life member in SCIEI **Membership No 20160401001**
- Life member in CSTA **Membership No 0432545**
- Life member in SDIWC

Reviewer in Journal/Conference

- Reviewer for Springer Elsevier
- Reviewer for the Journal of Medical and Biological Engineering – Springer
- Reviewer for IEEE Conferences

Academic and Administrative Responsibilities Held

- Head of the Department
- Advisory Committee of International Conferences.
- Conference Chair for Various National Conferences.
- Anti-Ragging Committee Member

Member of Academic Bodies like BOS, Senate, etc of University/other institutes

- Member of Board of Studies Anna University of Technology
- Member of Board of Studies Anna University
- Advisory Committee Member of C. Abdul Hakeem College of Engineering and Technology
- IETE Students Chapter Coordinator

Awards and Achievements / Outside the world

S.No	Name of the award, fellowship, received from Government or recognized bodies
1.	ISTE Periyar Award for Best Engineering College Teacher 2022
2.	Fellow member in IE
3.	Fellow member in IETE

Contact Address

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