

Name	T.YAMUNARANI		
Department	BIOMEDICAL ENGINEERING		
Qualification	M.E., (Ph.D).,		
Area of Specialization	BIOMEDICAL INSTRUMENTATION		
Date of Joining (KSRIET)	01.08.2022		
Experience (as on 01.03.2023)	Teaching: 8.6 Yrs	Industry: -	Others: -
Number of Papers Published	National Journals: -	International Journals: 03	
Number of Papers Presented	National Conferences : 02	International Conferences:08	
Books Published	National Publisher:	International publisher: 01	
Contact Details	E Mail: yamunarani_bme@ksriet.ac.in		Mobile:9942953580

PUBLICATIONS (International Journals)

1. Ravikumar, P., Bharathiraja, E., Tharani, V., Yamuna, R., & Yamunarani, T. (2011). Design and analysis of coronary stent. International Journal of Healthcare Technology and Management, 12(5-6), 447-456.
2. Yamunarani, T., & Kanimozhi, G. (2018). Hand gesture recognition system for disabled people using arduino. International Journal of Advance Research and Innovative Ideas in Education (IJARIIE), 4(2), 3894-3900.
3. Yamunarani, T. (2018). Analysis of Skin Cancer Using ABCD Technique. International Research Journal of Engineering and Technology, 5(04), 1864-1870.

PUBLICATIONS (National Journals)- NIL

BOOK PUBLICATION

1. R.Prabu, Mr.B.B.Sangameswaran, **Mrs.T.Yamunarani**, Mrs.M.Brindha, Understanding Human anatomy and physiology: A comprehensive guide,2023, ISBN 978-81-19359-23-3, Cosmas Scientific Publications.

PUBLICATIONS (International Conferences)

1. Controller Design for Earthquake Excitations Using Smart Base-Isolated Structure, International Conference on Sustainable Communication Networks and Application (ICSCNA) (pp. 540-545). IEEE, Nov., 2023.
2. EEG-Based Bipolar Disorder Deduction Using Machine Learning, First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI) (pp. 1-8). IEEE, Oct 2023.
3. Personal wireless healthcare diagnosing kit based on IOT sensor using arduino and MATLAB, International Conference on Recent Innovation in Engineering and Technology(ICRIET 2023), Pg. no.11, 5th and 6th April 2023, ISBN: 978-81-961178-7-0.
4. Development of wearable for pain relieving treatment, International Conference on Recent Innovation in Engineering and Technology(ICRIET 2023), Pg. no.17, 5th and 6th April, 2023, ISBN: 978-81-961178-7-0.
5. Advanced wearable pregnant women monitoring system, International Conference on Recent Innovation in Engineering and Technology(ICRIET 2023), Pg. no.19, 5th and 6th April, 2023, ISBN: 978-81-961178-7-0.
6. Smart syringe infusion pump, International Conference on Recent Innovation in Engineering and Technology(ICRIET 2023), Pg. no.19, 5th and 6th April, 2023, ISBN: 978-81-961178-7-0.
7. Smart Authentication using Human Ear, 2nd International Conference for Innovation in Technology (INOCON) (pp. 1-6). IEEE, March 2023.
8. Fuzzy aided baseline controller for active vibration control of non-linear hysteretic base isolation buildings, International Conference on Cognitive Computing and Information Processing (CCIP) (pp. 1-6). IEEE, March 2015.

PUBLICATIONS (National Conferences)

1. Modern Tendencies in Vehicle based condition monitoring of Railway Track, National Conference on Occupational Radiation Protection, Safety Measures and Management in Healthcare, sponsored by AERB, organized by Karpaga Vinayaga College of Engineering and Technology, 09.11.23 & 10.11.23
2. Radiation Protection: Safeguarding Health and Safety in Hospitals and Industries, National Conference on Occupational Radiation Protection, Safety Measures and Management in Healthcare, sponsored by AERB, organized by Karpaga Vinayaga College of Engineering and Technology, 09.11.23 & 10.11.23

PATENTS PUBLISHED:

S. No	Patent ID	Title of the Patent	Patent Level / National	Publication Date
1.	202341051189	Machine Learning Models and Artificial Intelligence Frameworks in Prediction and Resuscitation of Cardiac Arrest	National	01.09.2023
2.	202321019566A	Understanding the effect of Singing Bowl Meditation on Cardiovascular activity: A Heart rate variability (HRV) Approach	National	07.04.2023

PROFESSIONAL LIFE-MEMBERSHIP

- ✓ Indian Society for Technical Education, New Delhi.
- ✓ International Society for Research and Development
- ✓ IGEN GREEN9ENSAV CLUB

ACHIEVEMENTS

ISAC Certified Cyber Crime Intervention Officer qualifies to be empaneled in the cadet level of the National Security Database, awarded to credible and trustworthy information security experts with proven skills Unique ID:CBZTUVGM, 10.06.23

FUNDED RESEARCH PROGRAMME

S.No	Title	Funding Agencies	Amount Sanctioned	Role
1.	National conference on Recent Advances of Nanoscience in Healthcare	Indian National Science Academy	Sanctioned Rs.30,000	Co-PI

PROGRAMMES ORGANIZED (Seminar/Conference/Workshop/FDP/STTP/Other)

S. No.	Title of the Program	Type of Program	Duration	Sponsored by	Beneficiary
1.	National conference on Recent Advances of Nanoscience in Healthcare (RANH'23)	Conference	2.11.23 – 3.11.23	INSA	Faculty Members & Students

ONLINE CERTIFICATION

S. No.	Course	Conductedby	Date	Grade
1.	Accreditation and Outcome Based Education	NPTEL & SWAYAM	JUL to OCT - 2019	Gold + Elite
2.	Basic Electrical Circuits	NPTEL & SWAYAM	JUL to OCT - 2019	Elite
3.	Electrocardiogram - Interpretation and application in clinical practice	NPTEL & SWAYAM	JUL to AUG - 2022	Completed
4.	Digital Teaching Techniques	R Systems Women Educators Empowerment Programme	02.02.23 – 17.02.23	Completed
5.	Teaching And Learning in Engineering (TALE)	NPTEL & SWAYAM	JAN to FEB – 2023	Silver + Elite
6.	Learning Analytics Tools	NPTEL & SWAYAM	JUL to OCT - 2023	Silver + Elite

PROGRAMMES ATTENDED (Seminar/ Workshop/ FDP / STTP others)

S. No.	Title of the Program	Type of Program	Date & Duration	Organized by
1.	New Research of AI & ML in application of Computer Image, Intelligent Driving system	Webinar	14.08.22	Educare Taiwan
2.	Workplace Communication	Workshop	27.08.22	K S R Institute for Engineering and Technology,
3.	IoT and it's applications	Webinar	19.10.22	Nandha Engineering College in association with IEI-Erode Local Center.
4.	National Intellectual Property Awareness Mission	IP Awareness/Training program	23.11.22	Intellectual Property Office, India

S. No.	Title of the Program	Type of Program	Date & Duration	Organized by
5.	Digital Image Processing Techniques	FDP	05.12.22-09.12.22	Sreenivasa Institute of Technology and Management Studies
6.	Electrocardiogram - Interpretation and Application in Clinical Practice	FDP	4 WEEK COURSE	NPTEL-AICTE
7.	Recent trends on "Digital Image Processing Techniques	FDP	05.12.22 - 09.12.22	Sreenivasa Institute of Technology and Management Studies
8.	Hands-on with ATmega Controller	Workshop	18.02.23	SKILL LYNC
9.	Research Opportunities and Futures of Additive Manufacturing Engineering	FDP	30.01.23 - 03.02.23	Sri Manikula Vinayagar Engineering College
10.	Innovation Ambassador	Training	2022-23	MoE's Innovation Cell & AICTE
11.	Teaching and Learning in Engineering	FDP	Jan-Feb 2023	NPTEL
12.	Inculcating Universal Human Values in Technical Education	FDP	03.04.23-07.04.23	AICTE
13.	Professional Ethics at Workplace	Course	10.06.23	Cleanexit, Ethixcard, AICTE
14.	Current trends in Engineering, Science and Technology	FDP	03.07.23-08.07.23	Sree Sakthi Engineering College
15.	BM8702 Radiological Equipments	FDP	24.07.23-29.07.23	Kings Engineering College

S. No.	Title of the Program	Type of Program	Date & Duration	Organized by
16.	Scientific, Writing and Publishing	STTP	31.07.23-04.08.23	Sarala Birla University
17.	Artificial Intelligence and Machine learning for Medical Image Analysis using Python	FDP	21.08.23-25.08.23	CMR Institute of Technology, Bengaluru
18.	Learning Analytics Tools	FDP	July-Oct 2023	NPTEL
19.	Research Funding Opportunities in India and Abroad	Guest Lecture	15.11.23	KSR Institute for Engineering and Technology(KSRIET)
20.	Machine Learning and Deep learning for Biomedical Applications	Workshop	19.12.23-20.12.23	B.S.Abdur Rahman Crescent Institute of Science and Technology
21.	Emerging Trends in Computer science(IWETCS'23)	International Webinar	12.01.24	Jayaraj Annapackiam College for Women
22.	Artificial Intelligence and Machine learning	FDP	08.01.24-12.01.24	KSRIET with Neuraai Solutions PVT. Ltd.