

## FACULTY VITAE

Name- Jayalatsumi U

Education-

Ph. D., Quantum Computing, Dr. M.G.R. Educational and Research Institute, 2022.

M.E., Applied Electronics, Dr. M.G.R Engineering College, Anna University, 2004.

B.E., Electrical & Electronics Engineering, Alagappa Chettiar College of Engineering and Technology, Madurai Kamaraj University, 2002.

Academic Experience-

Dr. M.G.R. Educational and Research Institute, Assistant Professor and Head-ECE, Dec 2022-Present

Dr. M.G.R. Educational and Research Institute, Assistant Professor and Additional Head – ECE, Apr 2021– Dec 2022.

Dr. M.G.R. Educational and Research Institute, Assistant Professor and Deputy Head- ECE, Jan 2018 – Apr 2021.

Velammal Institute of Technology, Assistant Professor, EEE, May 2010 - Dec 2017.

Dr. M.G.R. Educational and Research Institute, Lecturer, ECE, Dec 2003- Apr 2010.

Non-Academic Experience-NIL

Certifications or Professional Registrations-

NPTEL certification on Introduction to Embedded System Design,2020.

Current membership in professional organizations-

Life Member in Indian Society of Technical Education (LM: 80794)

Honors and awards-

Received certificate of roll of honor from G-SUR (An Educational Training Institute Registered under MSME, Govt. of India),2021

Service activities (within and outside of the institution)-

Program Head

Program Chair – ISO (International Organization for Standardization)

Program Chair - National Board of Accreditation

Chairperson - Board of Studies

Member - Academic Council

Chief Superintendent - University Theory Examinations

Session chair

Briefly list the most important publications and presentations from the past five years –

K. Sujatha, N. P. G. Bhavani, U. Jayalatsumi, T. Kavitha, B. Latha, A. Ganesan & A. Kalaivani,(2023) “Smart Door Locking System Using IoT—A Security for Railway Engine Pilots”, Advances in Intelligent Systems and Computing, Vol 1432, I , B 263-E 271

K. Sujatha, T. Kavitha, N.P.G. Bhavani, C. Tamilselvi, K. Senthil Kumar, U. Jayalatsumi, V. Srividhya, B. Rengammal Sankari,(2023)," Design and development of a mobile application for level monitoring of oxygen cylinders using block chain technology"" Distributed Computing to Blockchain, Vol , I , B 415-E 424

K. Sujatha, N. P. G. Bhavani, K. Krishnakumar, U. Jayalatsumi, T. Kavitha, K. Senthil Kumar,(2023),"Renewable Energy Source Technology with Geo-Spatial-Based Intelligent Vision Sensing and Monitoring System for Solar Aerators in Fish Ponds", Enabling Methodologies for Renewable and Sustainable Energy, Vol , I , B 132-E 136 ISBN-9781003272717

K. Sujatha, R. Krishnakumar, N. P. G. Bhavani, U. Jayalatsumi, V. Srividhya, C. Kamatchi, R. Vani,(2023)," Smart Vision-Based Sensing and Monitoring of Power Plants for a Clean Environment", Intelligent Manufacturing Management Systems: Operational Applications of

Evolutionary Digital Technologies in Mechanical and Industrial Engineering, Vol , I , B 195-E 222

K. Sujatha, N. P. G. Bhavani, V. Srividhya, B. Latha, M. Sujitha, U. Jayalatsumi, T. Kavitha, A. Ganesan, A. Kalaivani, B. Rengammal Sankari & Su-Qun Cao,(2023)," Deep Learning Neural Networks for Detection of Onset Leukemia from Microscopic Images",Cognitive Science and Technology, Vol , I , B 11-E 19.

Sendilvelan Subramanian, Sujatha Kesavan, Geetha Soman, Kanimozhi Natanam, Kanya Nataraj, Rajeswary Hari, Gomathi Kannayiram & Jayalatsumi Umopathy,(2022)," Multilayer Perceptron Mode and ANN to Assess the Economic Impact and Human Health Due to Alcoholism and Its Effect in Rural Areas"" Lecture Notes in Networks and Systems, Vol , I , B 431-E 440

K. Sujatha, N. P. G. Bhavani, U. Jayalatsumi, T. Kavitha, R. Krishnakumar, K. Senthil Kumar, A. Ganesan, A. Kalaivani, Rajeswary Hari, F. Antony Xavier Bronson & Sk. Shafiya,(2022), " Indigenous Non-invasive Detection of Malnutrition-Induced Anemia from Patient-Sourced Photos Using Smart Phone App", Lecture Notes in Networks and Systems, Vol , I , B 431-E 440.

K. Sujatha, N. P. G. Bhavani, K. Krishnakumar, U. Jayalatsumi, T. Kavitha, K. Senthil Kumar, V. Srividhya & S. K. Shafiya,(2022)," A Smart Phone App with Geo-Spatial Information for Forecasting COVID-19 from Lung X-ray Images"" Lecture Notes in Networks and Systems book series Vol 881, I , B 13-E 26

U.Jayalatsumi, et.al.,(2022),"Swarm Intelligence for Diagnosis of Arrhythmia and Cardiac Stenosis",Swarm Intelligence and Machine Learning, Vol , I , B 150-E 164 ISBN-9781003240037

Briefly list the most recent professional development activities-

One day Training Programme on Generative AI at IBM, Pune,15.05.2024.

Organized ten days Online FDP on “Designing chips with low power artificial intelligence ” from 22.04.2024 to 01.05.2024 in collaboration with NIT, Warangal, and Dr.M.G.R. Educational and Research Institute, Chennai.

Attended Two days National Seminar on "Space 3.0 – Empowering Innovators & Start-ups in Space" organized by Dr.MGR-ACS Space Technology Centre and Departments of Engineering and Technology, on 1<sup>st</sup>& 2<sup>nd</sup> March 2024 at Dr. M. G. R Educational & Research Institute.

NEP- 2020 Orientation and Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) from 05.02.2024 to 13.02.2024, University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre, University of Hyderabad.

Participated in International Scientific Conference” University Science: A look into the Future” 08.02.24 & 09.02.24, Kursk State Medical University, Russia co-hosted by Dr. M. G. R E & R I, Chennai.

Presented paper in International Conference paper titled “Skin Cancer Detection using deep learning Technique”, 01.02.2024 & 02.02.2024, VIT, Chennai.

FDP on Quantum Computing using Indigenous Quantum Simulator QSim,06.05.23 to 28.05.2023, IIT-ROORKEE AND C-CAD, Hyderabad.

Books Published:

A Text Book on “Control Systems”, Dr. U. Jayalatsumi, Mr. Amuthantham ,2023 published by Charulatha Publications.

A Text Book on “Circuit Theory”, Dr. Swapna, Dr. U. Jayalatsumi, Dr. Chunchu Rambabu and Dr. G.Kavitha,2023,ISBN No: 978-93-5577-511-5, 2023 published by Charulatha Publications.