FACULTY PROFILE

Department: Electronics & Instrumentation Engineering

1. Personal Details

NAME	Mrs. Sowmya M S	
DEPARTMENT	Electronics & Instrumentation Engineering	
DESIGNATION	Assistant Professor	
PHONE	+91 9743103678	
EMAIL ID	Sowmya_ms@jssateb.ac.in	
Date of Joining (JSSATEB)	01-10-2016	

2. Experience

Total Experience in Years	Teaching: 10 Years	Industry: Nil	Research:

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Instrumentation Technology	2012	Instrumentation Technology	Visvesvaraya Technological University
M.Tech.	Electronics and communication engineering	2014	Industrial Electronics	Visvesvaraya Technological University
Ph.D	Biomedical Image processing	Pursuing	JSS Science and Technology University	JSS Science and Technology University

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: Nil	National: Nil
Papers Published in SCOPUS indexed Journals	International: Nil	National: Nil
Papers Published in other Journals	International: 8	National: Nil
Papers Presented in Conferences / Symposium	International: 1	National: Nil

5. Research Guidance

PhD Guide? Give field & University	No	
PhDs / Projects Guided	Ph.D. Awarded: Guiding:	Projects at Master's Level: Projects at Bachelor's Level:

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Floating Waste Scooper Robot	7,000/-	11.05. 2022	6months	KSCST
Pre- Emptive Smart Fan System to Avoid Suicide	5,000/-	14.07.2022	6months	VTU
Novel Approach For COVID-19 Viral Alert System: VIRALERT	5,000/-	02.10.2021	6 months	VTU

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

7. Awards Received

8. Publications
i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	" Comparative Study on Braille Image Enhancement Using Spatial Domain Enhancement Techniques "	Sowmya M S and Dr. Shreekanth.T	International Journal of Engineering Science and Innovative Technology (IJESIT)	Vol. No.3 Issue No.1 pp:296-306 Year:2014			
2	"Review on IOT in agricultural crop protection and power generation"	Sowmya M S, Anjana M, Charan Kumar A Monisha R Sahana R H	International Research Journal of Engineering and Technology (IRJET)	Vol. No. 6 Issue No. 11 pp: 2339-2343 Year: 2017			
3	"Review on Eye	Sowmya M S,	International	Vol. No. 7			

			l Journal for Scientific Research and Development(IJSRD)	Issue No. 10 pp: 560-562 Year: 2017			
4	"IOT in Agricultural Crop Protection and Power Generation"	Sowmya M S, Anjana M, Charan Kumar A Monisha R Sahana R H	International Journal of Engineering Research & Technology (IJERT)	ISSN: 2278-0181			
5	"Eye Gaze Controlled Wheelchair"	Sowmya M S, Anagha Dwajan B Bhavani S Priya Reddy N Usha M R	International Journal of Engineering Research & Technology (IJERT)	ISSN: 2278-0181			
6	"A Detailed Review of Smart Technologies to tackle Viral Pandemic"	Sowmya M S, Deeksha S Kodige, Apoorva Hegde, Navya Sree MR and Anjali J Makwana	Journal of Huazhong University of Science and Technology	ISSN-1671-4512			
7	"Implementation of solar energy and IoT for water waste management:A review"	Vishwas G Rao, Sowmya M S, Chandini C, Vinay M, Yamini K J	JSS Journal of Scientific Studies	Vol.1 Issue1, July 2022, pp 88-95			
8	"Pre-Emptive Smart Fan System to Avoid Suicide by Hanging"	Anoop sai S, B.Harshith, Suma Udnoor, SushmaShivani K S and Sowmya M S	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT),	Volume 2, Issue 2,July 2022, pp 169-174			

ii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	" Sensor based smart dustbin for waste segregation	Sowmya M S, Shubhanka S P, Megha Closepet Sirish G	International conference on Signal, Image processing,	pp:95-101 Year: 2017			

and status alert"	Communication and Automation(IC SIPCA)

iii. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1.	Two days FDP on "Sustainable Development Goals"	Organized by – Department of Management Studies, JSS Academy of Technical Education, Bengaluru .	28-06-2024 to 29-06-2024
2.	Two week ISTE approved online STTP on "Recent Trends in AI, ML and IOT "	Organized by – Department of Electronics & Telecommunication Engineering, Sinhgad Technical Education Society's Smt. Kashibai Navale College of Engineering, Pune.	12-06-2024 to 25-06-2024
3.	Five days online Workshop on Workshop Arm India VLSI to System Design: Silicon to End Application Approach	Organized by – All India Council for Technical Education (AICTE), Arm Education and STMicroelectronics, New Delhi.	31-07-2023 to 04-08-2023
4.	Online FDP on "Artificial Intelligence and its Role in Future Communications, Signal Processing and Computing Applications"	IIT Warangal & University of Kashmir, Srinagar	01-05-2023 to 10-05-2023
5.	Five days online Workshop on Workshop Arm India VLSI to System Design: Silicon to End Application Approach	– All India Council for Technical Education (AICTE), Arm Education and STMicroelectronics, New Delhi	31-07-2023 to 04-08-2023
6.	Online Faculty Development Program on "AI Applications to Power Systems"	Department of Electrical & Electronics Engineering, Siddaganga Institute of Technology, Tumakuru.	17-01-2022 to 22-01-2022
7.	NSTEDB-DST sponsored FDP on "Opportunities and Challenges in Entrepreneurship"	JSS Academy of Technical Education, Bengaluru	15-03-2021 to 27-03-2021
8.	Online Elementary FDP on " NEP 2020: Managing Change in Organisations"	AICTE Training And Learning (ATAL) Academy, Government College of Pharmacy, Karad.	23-08-2021 to 27-08-2021
9.	Online Elementary FDP on "MEMS Technology & Microsensors"	AICTE Training And Learning (ATAL) Academy, National	26-07-2021 to 30-07-2021

		Institute of Technology Meghalaya.	
10.	Short Term Training Program on "Speech, Audio and Music Processing"	Dept. of E&CE, National Institute of Technology Karnataka, Surathkal	28-01-2020 to 01-02-2020
11.	FDP on Machine Learning and Data analytics using python	IIT Roorkee	23-04-2020 to 01-05-2020,
12.	Webinar on "The Wörld of Circuit Simulation"	Dept. of ECE., JSSATE, Bengaluru	04-06-2020
13.	Webinar on "Sensor Technology in IoT"	Dept. of ECE., School of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.	06-07-2020
14.	Faculty Development Program on "Research Proposal Writing and Opportunities in the field of Science, Engineering and Management"	R & D Centre, Bangalore Institute of Technology, Bengaluru.	06-07-2020 to 11-07-2020
15.	Webinar on "Digital Transformation in Banking"	Dept. of CSE., Vidya Vardhaka College of Engineering, Mysuru.	09-07-2020
16.	Webinar on "Recent Trends in Machine Learning"	Department of Electronics and Communication Engineering, Siddaganga Institute of Technology, Tumakuru	17-07-2020
17.	One Week Online Faculty Development Program on "Research Avenues in Health care Technology"	Dept. of EIE., JSS STU, Mysuru	21-07-2020 to 25-07-2020
18.	Three days online Faculty Development program on " Emerging Trends in Automotive Embedded systems"	Dept. of Electronics and telecommunication engineering, Bangalore Institute of Technology.	12-08-2020 to 14-08-2020
19.	Six days Online STTP on "Developing Research and Development Culture in Industry Institute Interaction Oriented Modern Teaching Learning and Project Based Learning"	Dept. of ECE., Francis Xavier Engineering College, Tamilnadu	14-09-2020 to 19-09-2020
20.	Faculty Development Program on "Internet of Things (IoT)"	AICTE Training And Learning (ATAL) Academy, Indian Institute of Technology (BHU).	21-09-2020 to 25-09-2020,
21.	Faculty Development Program on "Cyber Security and Cryptography"	Organized by IIT Roorkee	07-10-2020 to 11-10-2020,
22.	Faculty Development Program on "Recent Advances in wireless communication systems"	JSS S&TU, Mysore	01-07-2019 to 05-07-2019

23.	Workshop on " Research Methodologies"	JSS S&TU, Mysore	18-11-2017 to 19-11-2017
24.	One day workshop on Big data analytics	JSS S&TU, Mysore	23-09-2017
25.	Faculty Development Program on "Artificial Intelligence, Signal & Image Processing using NI Labview"	National Institute of Technology Rourkela	15-06-2017 to 24-06-2017
26.	Faculty Development Program on "Internet of Things(IOT) and its applications"	SJCE, Mysuru	08-09-2016 to 12-09-2016

iv. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Hands-on ROS based Robotics applications	Dept of E&IE	28-08-2023 to 02-09-2023	Organizer

v. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	1st International Clini-Tech Conference "NeuroTechCon-2024" on theme "Disrupting Neuro Rehabilitation Uniting functional Neuroscientists, Rehab professionals Technologists and Data Scientists"	Newro KAAYA, PRS Neuroscience, at NIMHANS Convention Centre, Bengaluru on	18h May 2024

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Natural Language Processing in TensorFlow	DeepLearning.AI and offered through Coursera	30/06/2020	
2	Introduction to Machine Learning,	Duke University and offered through Coursera	15/06//2020	
3	Introduction to Machine Learning,	NPTEL, IITKGP	16-10-2019	

10. Membership of Professional Bodies:

1.	Life Membership in Indian Society for Technical Education (ISTE)

11. Any other information you will like to share about your professional experience

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