FACULTY PROFILE

Department: Electronics & Instrumentation Engineering

1. Personal Details

NAME	N. Nagarathna
DEPARTMENT	Electronics & Instrumentation Engineering
DESIGNATION	Assistant Professor
PHONE	+91 9964200232
EMAIL ID	nagarathna@jssateb.ac.in
Date of Joining (JSSATEB)	01-06-2007

2. Experience

Total Experience in Years	Teaching: 9 Years 4 months	Industry: 4 Years 7 months	Research: Nil

3. Qualifications

COURSES	SPECIALIZATION	YEAR OF AWARD	INSTITUTION	UNIVERSITY
B.E.	Electronics & Communication Engineering	2001	Sri Jayachamarajendra College of Engineering (SJCE), Mysore Karnataka INDIA	Mysore University, Mysore, Karnataka
M.Tech.	Digital Electronics & Communication	2013	A.M.C. Engineering College Bangalore, Karnataka INDIA	Visvesvaraya Technological University (VTU), Belgaum, Karnataka

4. Research & Publications

Papers Published in other Journals	International: 06	National: -
Papers Presented in Conferences	International:02	National: 02

5. Research Guidance

6.   Grants

i.   Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Energy Efficiency Enhancer forSolar Water Heater using Sensors and Smart Controllers	Rs. 5,000/-	05-10-2021	20-01-2021 to 28-01-2021 (6 months)	VTU, Belagavi
KSCST: 46th Series of Student Project Programme (SPP): Sponsored Project by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bengaluru.	Rs.5,000/-	24-04-2023	October 2022 to May 2023 (6 months)	KSCST, Bengaluru
KSCST: 47th Series of Student Project Programme (SPP): Sponsored Project by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bengaluru.	Rs. 5,500/-	19-04- 2024	November 2023 to May 2024 (6 months)	KSCST, Bengaluru

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

Sl. No.	Title Details	Details of award of patent / Filed
1	**"Smart Jacket for Soldiers"** Department of Information Science and Engineering organized "9th - National Conference on Advancements in Information Technology NCAIT-2023" on 3rd MAY-2023 in collaboration with Internal Quality Assurance Cell, JSS Academy of Technical Education, Bengaluru.	NCAIT-2023: BEST PAPER/POSTER AWARD, 03-05-2023
2	**"IOT Based Multifunctional Agriculture Machinery Robot"** Student's participation in the Open Day Project Exhibition -2023 organized by the department of Electronics & Instrumentation Engg. JSS Academy of Technical Education, Bengaluru.	Won 1st Prize in the Open Day Project Exhibition – 2023, 09-06-2023
3	**"SMART GUARD:** Revolutionising Industries with IoT based Environmental Oversight and Pollution Mitigation" Student's participation in the Open Day Project Exhibition-2024 organized by the department of Electronics & Instrumentation Engg. JSS Academy of Technical Education, Bengaluru.	Won 2nd Prize in the Open Day Project Exhibition – 2024, 04-05-2024
4	**"A Wearable Device for Monitoring Joint Recovery Based on Angle, Stress, and Time"** Student's participation in the Open Day Project Exhibition-2025 organized by the department of Electronics & Instrumentation Engg. JSS Academy of Technical Education, Bengaluru.	Won 3rd Prize in the Open Day Project Exhibition – 2025, 03-05-2025

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	BER Analysis of FSK Transceiver for Cognitive Radio Applications	1. N. Nagarathna 2. Preethi G. Biradar 3. Himanshi Budhiraja 4. Susham K. Rao	International Journal of Recent Technology and Engineering (IJRTE)	Volume No. :2 Issue :3 Month & Year : July 30, 2013			International Journal of Recent Technology and Engineering (IJRTE)
2	Review on Anti-Piracy Screening System	1. N. Nagarathna 2. Sanath Shantinath. Ankalage 3. Nama Sandeep 4. Venu L	International Research Journal of Engineering and Technology (IRJET)	Vol. No. 06 Issue No.12 pp: Year: Dec 2019 ISO 9001:2008 Certified Journal			International Research Journal of Engineering and Technology (IRJET)
3	Anti-Piracy Screening System	1. N. Nagarathna 2. Sanath Shantinath. Ankalage 3. Nama Sandeep 4. Venu L	International Journal of Engineering Research & Technology (IJERT)	Vol. No. 09 Issue No.5 pp: Year: May 2020 ISSN: 2278-0181			International Journal of Engineering Research & Technology (IJERT)
4	A Detailed Review of Energy Efficiency Enhancer for Solar Water Heater Using Sensors and Smart Controllers	1. N. Nagarathna 2. Yashwanth Gowda 3. Priyanka K 4. Keerthi R C 5. Divya M	Journal of Huazhong University of Science and Technology	Vol. No. 50 Issue No.3 pp: Year: 14-4-2021 PP: 1-6 ISSN: 1671-4512			Journal of Huazhong University of Science and Technology

   ii. National 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

   iii. 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	FSK Transceiver for Cognitive Radio using LabVIEW VLSI, Communication & Computer Networks" (VCCN-1)	N. Nagarathna	VLSI, Communication& Computer Networks" (VCCN-1)	AMC Engineering College, Bangalore heldon 3rd May 2013 conducted by the Department of Electronics and Communication Engineering.			AMC Engineering College, Bangalore

2	Comparative Performance Analysis of M- FSK and M-PSK transceiver for cognitive radio applications	1. N. Nagarathna 2. Dr. D. Mahesh Kumar	International Conference on Signal, Image Processing, Communication and Automation (ICSIPCA)	Month & Year : July 6th & 7th, 2017 Grenze ID: 02.ICSIPCA.2017.1.17 © Grenze Scientific Society, 2017			Mc Graw Hill
3	Table Top Model of Tilting Furnace	1. N. Nagarathna 2. Meghana kulakarni 3. Divya M 4. Prathiba S 5. Soni kumara	International Conference on Signal, Image Processing, Communication and Automation (ICSIPCA)	Month & Year : July 6th & 7th, 2017 Grenze ID: 02.ICSIPCA.2017.1.20 © Grenze Scientific Society, 2017			Mc Graw Hill
4	"Smart Jacket for Soldiers"	1. N. Nagarathna 2. K R Sai Raksha 3. Sindhu S H 4. Varshahsree V 5. Yogeshwar Chowdary P	Department of Information Science and Engineering organized "9th - National Conference on Advancements in Information Technology NCAIT-2023" in collaboration with Internal Quality Assurance Cell, JSSATEB.	NCAIT-2023" on 3rd MAY-2023			
5	LPG Leakage Detection System	1. N. Nagarathna 2. Akshatha V 3. Lekhana H G 4. Pushpavalli K	Department of Electronics and Communication Engineering organized "National Conference on Applied Computational Intelligence-NACI-2023" sponsored by Indian National Science Academy, New Delhi, and JSSATEB	NACI-2023" on 21st Dec 2023 & 22nd Dec 2023			
6	Reviewer	N. Nagarathna	First International Conference on Intelligent Computing and Communication Systems (CICCS-2025), Organized by JSS Academy of Technical Education, Bengaluru, in collaboration with IIT Guwahati and IEEE Bangalore from 18/09/2025 to 20/09/2025.	18/09/2025 to 20/09/2025			

7	AI-Based Rough Terrain Rover for Search and Reconnaissance	1. N. Nagarathna 2. Tejas S 3. Vikram Kharvi 4. Namratha B S 5. Vivekanand	First International Conference on Intelligent Computing and Communication Systems (CICCS-2025) on 19/09/2025, organized by JSS Academy of Technical Education, Bengaluru, in collaboration with IIT Guwahati and IEEE Bangalore.	19-11-2025			
8	Sign Language to Text Conversion	1. N. Nagarathna 2. Swikruthi C Shetty 3. B Priyanka 4. Vaishnavi R C 5. Likitha T	First International Conference on Intelligent Computing and Communication Systems (CICCS-2025) on 19/09/2025, organized by JSS Academy of Technical Education, Bengaluru, in collaboration with IIT Guwahati and IEEE Bangalore.	19-11-2025			

iv. **Workshops /Conferences Attended**

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	FDP on "Strengths Based Personality Development"	SJCE Mysore	28-12-2016 & 31-12-2016 to 03-01-2017
2	Short term Course- "Enhancing Pedagogical Skills"	JSS Academy of Technical Education, Bengaluru	17-1-2017 to 21-1-2017
3	Short term Course- "5G Wireless Communication Networks: Fundamentalsand Implementation Issues"	NIT, Kurukshetra	10-7-2017 to 15-7-2017
4	Conference/Symposium- National symposium on 'Internet of things - Trendsand opportunities"	JSS Academy of Technical Education, Bengaluru	4-7-2018 to 5-7-2018
5	Short term Course- "Medical Image computing: Machine-learning Methods & Advanced-MRI applications"	IIT, Bombay	23-7-2018 to 27-7- 2018
6	Short term Course "MATLAB and Lab VIEW for Engineering Applications"	IIIT D&M, Kancheepuram, Chennai	17-12-2018 to 21-12-2018
7	Short term Course- "Deep Learning forBig Data and Cyber Security Applications"	NITK, Surathkal	1-7-2019 to 5-7-2019
8	One week workshop "Artificial Intelligence and Deep Learning"	RNSIT, Benaguluru	27-1-2020 to 31-1-2020
9	Industrial Visit	Kerala State Coir Machinery Manufacturing Company (KSCMMC) and Kerala Agro Machinery Corporation Limited.	18-9-2019 to 22-9-2019
10	One week FDP on "Artificial Intelligence using Pyhon"	Organized by Dept. of CSE, ST. Mary's Integrated Campus Hyderabad	14-9-2020 to 19-9-2020

11	AICTE Sponsored six days STTP program on "Machine Learning & Deep Learning Models for Medical DomainApplications"	Organized by Dept. of CSE, Manipal Institute of Technology, MAHE, Manipal.	5-10-2020 to 10-10-2020
12	A National level one week FDP on " Computational Intelligence for cyber security"	Organized by Dept. of E & TC Engineering of AISSMS Institute of Information Technology, Pune.	26-10-2020 to 2-11-2020
13	Short Term Course on Python and Machine Learning	Organized by Bootcamp with Shape AI,in collaboration with Microsoft Learn Student Ambassador Program and AES Students Club.	5-02-2021 to 12-02-2021
14	AICTE Sponsored One Week STTP program on "Applied Soft Computing andVision Machine Techniques"	Organized by Departments of EEE & ECE of Dr. M.G.R. Educational and Research Institute in association withAll India Council for Technical Education (AICTE)	15-02-2021 to 20-02-2021
15	Workshop on Building Research Eco System	Organized by Department of Mechanical Engineering, JSS Academy of Technical Education, Uttarahalli-Kengeri Main Road, Srinivaspura-Post, Bengaluru – 560 060, Karnataka, India	02-03-2021 to 04-03-2021
16	FDP on Opportunities and challenge in entrepreneurship	Organized by Department of Electronics& communication Engineering and Department of Electronics & Instrumentation Engineering, JSS Academy of Technical Education, Uttarahalli-Kengeri Main Road, Srinivaspura-Post, Bengaluru – 560 060, Karnataka, India	15-03-2021 to 27-3-2021
17	FDP Data Analysis and Data Dashboardsin Excel Bootcamp	Organized by Shape AI in collaborationwith Google developer group (GDC) Ranchi.	15-6-2021 to 21-6-2021
18	Online National level One week FDP on "Multi Technologies"	Organized by the Dept. of E & TC Engg., AISSMS Institute of information technology, Pune, in collaboration with National Youth Council of India & Brain vision Solutions India Pvt. Ltd. and IETE, Pune section.	28-6-2021 to 3-7-2021
19	Two days FDP Digital Design Pedagogy Skill Training	Organized by the Department of Commerce (SF), V.H.N.Senthikumara Nadar College (Autonomous), Virudhunagar on 12 and 13 August 2021	12-8-2021 & 13-8-2021
20	Five days ATAL Academy Sponsored Online FDP on "Artificial Intelligence and Geospatial Technology in Surveillance for Infectious Disease"	Organized by the Department of Electronics & Communication Engineering at KCG College of Technology, Chennai - 97.	23-8-2021 to 27-8-2021
21	Five days ATAL Academy Sponsored Online FDP on "Artificial Intelligence Enabled Sensors and Networks for 5G Wireless Communications"	Organized by the Department of Electronics & Communication Engineering at Mahendra Engineering College.	06-12-2021 to 10-12-2021
22	One Week Training Programme for Teachers on "An Overview of Teaching Techniques in Innovation and Design Thinking"	AICTE-VTU Joint Training Programme for AICTE Approved & VTU Affiliated Technical Institutions Teachers, VTU-HRDC at PG Center, Muddenahalli, Chikkaballapur-562101	27-12-2021 to 31-12-2021
23	One Week online FDP on "AI Applications to Power Systems"	Organised by Department of Electrical & Electronics Engineering, Siddaganga Institute of Technology, Tumakuru.	17-01-2022 to 22-01-2022
24	Five days Online ATAL FDP on "Control System and Sensor Technology"	Organized by the Department of Electrical Engineering, National Institute of Technical Teachers' Training & Research	28-02-2022 to 04-03-2022

		(NITTTR), Kolkata Block – FC, Sector-III, Salt Lake City, Kolkata – 700 106	
25	One week International Level FDP on "Amazon Web Services"	Organized by E&TC Department, AISSMS Institute of Information Technology, Pune in collaboration with Brainovision Solutions India Pvt. Ltd & All India Council For Technical Education - AICTE, Ministry of Education, India	22-08-2022 to 27-08-2022
26	One Week Online Faculty Development Program on "Machine Learning"	Organized by the Department of Information Technology, Sinhgad Institute of Technology, Lonavala, Pune.	07-12-2022 to 11-12-2022
27	5 Day's Online International Level Faculty Development Program on Data Science using Machine Learning	Organized by Pravara Rural Engineering College in Collaboration with ExcelR Dr. S. M. Gulhane Principal PREC Loni Ram Tavva CEO, ExcelR Solutions	02-01-2023 to 06-01-2023
28	Three days Training Programme on "Labview Programming"	Organized by Department of Electronics and Telecommunication Engineering, Sandip Foundations, Sandip Institute of Engineering and Management, Nashik, Noida, Uttar Pradesh.	27-01-2023 to 29-01-2023
29	Ten days online FDP on Artificial Intelligence and its Role in Future Communications, Signal Processing and Computing Applications	Jointly Organized by Department of ECE, EICT Academy NIT Warangal - Telangana and Department of Electronics and Instrumentation. Technology, University of Kashmir, Srinagar, Jammu & Kashmir.	01-05-2023 to 10-05-2023
30	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 4-08-2023
31	ISTE approved one-week Online STTP on Cloud Computing and its services	Organized by – Department of Information Technology, A. C. Patil College of Engineering, Kharghar Navi Mumbai.	01-01-2024 to 06-01-2024
32	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
33	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
34	5 Days International FDP on Awarded to Gen-AI and Prompt Engineering Using Microsoft Co-Pilot.	Organized by BNM Institute of Technology Bangalore (BNMIT) – Karnataka, D.Y. Patil Agriculture and Technical University Talsande – Maharashtra, and Marwadi University Rajkot - Gujarat in Collaboration with ExcelR Edtech Pvt. Ltd.	16 to 20-09-2024
35	1 month FDP on Internet of Things Organized by SkillDzire in collaboration with AICTE	Organized by SkillDzire in collaboration with AICTE	03-09-2024 to 03-10-2024 1 month
36	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Nanomaterials	Organized by – AICTE Training and Learning (ATAL) Academy Faculty Development Program Nelson Mandela Marg, Vasant Kunj, New Delhi, in collaboration with JSS Science and Technology University, Mysore.	06/01/2025 to 11/01/2025 6 days
37	PDP on Scaling the future trends and challenges in semiconductor technology	PDP on Scaling the future trends and challenges in semiconductor technology	09/01/2025 and 10/01/2025 2 days

38	2 Weeks FDP on VLSI Organized by SkillDzire in collaboration with AICTE	Organized by SkillDzire in collaboration with AICTE	17-Mar-2025 to 31-Mar-2025_2 Weeks
39	Two-weeks Faculty Development Programme on AI in Medical Imaging and Diagnostics: Current Trends and Challenges"	Organized by Electronics and ICT Academy, NIT Patna, IIITDM Jabalpur, IIT Guwahati, MNIT Jaipur, IIT Kanpur and IIT Roorkee under the "Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)" by the Ministry of Electronics and Information Technology (MeitY), Government of India from 07th July, 2025 - 18th July, 2025.	07 July 2025 to 18 July 2025
40	2 Weeks FDP on Embedded Systems Organized by SkillDzire in collaboration with AICTE	Organized by SkillDzire in collaboration with AICTE	18-Aug-2025
41	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Autonomous Mobility and Digital Infrastructure for Future Ready Cities	Organized by Department of Electrical and Electronics Engineering, A.V.C. College of Engineering, Mannampandal, Mayiladuthurai District, Tamilnadu, India, Pin – 609305.	25-08-2025 to 30-08-2025

V. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role

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

Sl. No.	Name of the workshop / Conference	Organizer	Date

9.   Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Computer Networks	SWAYAM NPTEL	13 November 2019	79%
2	Introduction to Internet of things	SWAYAM NPTEL	20 December 2020	58%
3	Cloud Computing	SWAYAM NPTEL	July – Oct 2025	58%

10.   Membership of Professional Bodies:

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

N. Nagarathna
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