




**JSS MAHAVIDYAPEETHA**  
**JSS ACADEMY OF TECHNICAL EDUCATION**  
JSSATE Campus, C-20/1, Sector – 62, NOIDA, U.P. 201301  
**Department of Electrical and Electronics Engineering**

**FACULTY PROFILE**

Department: Electrical and Electronics Engineering

### 1. Personal Details

NAME	Dr.K.S. Sujatha	
DEPARTMENT	Electrical and Electronics Engineering	
DESIGNATION	Associate Professor, HoD EEE	
PHONE	9791350740	
EMAIL ID	<a href="mailto:hodeee@jssaten.ac.in">hodeee@jssaten.ac.in</a> , <a href="mailto:sujathaks@jssaten.ac.in">sujathaks@jssaten.ac.in</a>	
Date of Joining (JSSATEN)	03.08.2017	

### 2. Experience

Total Experience in Years	Teaching: 23 Years	Industry: 3	Research: 12 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
Ph.D.	Information and Communication Engineering	2013	PSG College of Technology Coimbatore	Anna University Chennai
M.E.	Applied Electronics	2008	PSG College of Technology, Coimbatore	Anna University Chennai
B-Tech	Electrical and	1991	Government	University of

	Electronics Engineering		Engineering College, Thrissur	Calicut
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#### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International:01	National: nil
Papers Published in SCOPUS indexed Journals	International:06	National: nil
Papers Published in other Journals	International:02	National:
Papers Presented in Conferences / Symposium	International:05	National:
Books / Book chapters Published	Name of the book: Advancements in Automation, Robotics and Sensing (One of the editors of the Post conference Proceedings of ICAARS 2016 Publisher: Springer Year of Publication:	
	Name of the book: Proceedings on Smart Energy Systems - NCSES 2019 Publisher:ISBN No: 978-93-5361-694-6 Year of Publication: 2019	
	Name of the book: Proceedings on Intelligent Control and Computation for Smart Energy and Mechatronic System Publisher: ISBN No: 978-82-940224-0-4 Year of Publication: 2020	

#### 5. Research Guidance

PhD Guide? Give field & University	Yes, Co-guide Detection and Grading of Glaucoma Using Deep Learning Method, Pattern Recognition and Machine Learning Algorithms	University: Amity University
PhDs / Projects Guided	Ph.D. Awarded: Guiding:	Projects at Master's Level: 04 Projects at Bachelor's Level: 50

#### 6. Grants

### **i. Funds Received (Projects)**

<b>Project Name</b>	<b>Grant Amount</b>	<b>Date of receiving the Grant</b>	<b>Duration</b>	<b>Grant issuing authority/ Body / Organization</b>
Visual Intuition and Scene Categorization for MAV Navigation	Rs.48.2195 Lakh	22.03.2014 10.07.2014	2014-2016	DST- SERB
A Computational Intelligence Approach to EEG Analytics for characterizing different levels of intellectual disability and characterization of Yoga Protocol for mild disabled children	Rs.3 Lakhs	24.07.2019	2019-2020	AKTU -CRIP-TEQIP III

### **ii. Patents**

<b>Sl. No.</b>	<b>Title Details</b>	<b>Details of award of patent / Filed</b>
1	Machine Learning-based Solar Tracking System and Method Thereof	Patent number: 2021100895 IP Australia

### **iii. Consultancy**

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

## **7. Awards Received**

<b>Awards “Best Paper Award”</b>	Best paper and Inter science Scholastic Award for the paper titled "Evaluation of Bag of Visual Words for Category level Object Recognition" at the International Conferences on Electrical and Electronics Engineering, conducted by (IOAJ) Interscience Open Access Journal at Coimbatore during April 22nd 2012. Awarded CMI Level 5 Certificate in Management and Leadership from Chartered Management Institute London UK
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## 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.	Minimization of power losses with different types of DGs using CSA	Anand Kumar Pandey, Sujatha K S and Sheeraz Kirmani	International Journal of Renewable Energy Research	Vol.10(4), pp. 1986-1997, Dec. 2020	WOS and SCOPUS both	5.127	International Journal of Renewable Energy Research
2.	Allocation of PV unit in distribution network using Analytical method	Ritesh kumar Rai, Anand Kumar Pandey, Anshu Parashar and Sujatha K S	International Journal of Recent Technology and Engineering	ISSN:2277-3878, Vol.9(2), pp.1200-1207, July2020	SCOPUS	0.158	Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
3.	Compressed Image Classification using Bag of Visual Words”, Journal of Engineering	Sujatha, K.S., Indrajit, M. and Vinod, B	Journal of Engineering and Applied Science Faculty of Engineering, Cairo University,	Vol. 59, No. 5, Oct. 2012, pp. 439-456	SCOPUS		Springer



### iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1.	Bag of Visual words with Spectral Clustering	Sujatha, K.S., Karthiga, G.M. and Vinod, B	International Conferences on Electrical and Electronics Engineering, conducted by (IOAJ)	2012			Inderscience
2.	Fuzzy based multiple dictionary Bag of Words for image Classification	<b>Sujatha, K.S.,</b> Keerthana, P., SugaPriya, S., Kaavya, E. and Vinod, B	International Conference on Modeling Optimisation and Computing, Noorul Islam University	2012			Procedia Engineering
3.	Performance Evaluation of GK and proposed GK soft Clustering Algorithms for Bag of Words Model	<b>Sujatha, K.S.,</b> Keerthana, P., SugaPriya, S., Kaavya, E. and Vinod, B	Second National Conference on Research Challenges in Communication Systems and VLSI Design, Dept. of ECE, PSGCT	2012			Dept. of ECE, PSGCT
4.	Bag of Visual words with Spectral Clustering	Sujatha, K.S., Karthiga, G.M. and Vinod, B.	Second National Conference on Research Challenges in Communication Systems and VLSI Design, Dept. of ECE, PSGCT	2012			Dept. of ECE, PSGCT

### iv. Workshops /Conferences Attended

S. No.	Name of the Workshop/conference	Organizer	Date
1.	Industrial Automation with Robotics and 3D Printer	ICE Department JSSATEN	04 <sup>th</sup> -9 <sup>th</sup> June 2018
2.	FDP Programme Entrepreneurship	NSTEDB, DST, NIESBUD	12 <sup>th</sup> - 26 <sup>th</sup> February 2018
3.	FDP on Sustainable an Reliable Solutions to Power Quality Problem in Smart Power System Network	EE Department JSSATEN	08 <sup>th</sup> -13 <sup>th</sup> October June
4.	A workshop on Improving Research Planning & Writing Skills at Technical Institutes	Customer Consultant, Elsevier, Delhi	28 <sup>th</sup> April 2020
5.	"Machine Learning and Its Applications	Bandenawaz Bagawan(Devarty Technologies) IIT Roorkee	04-May-20 to 12-May-20.

#### v. Workshops / Conference (Organized)

S. No.	Name of the Workshop/conference	Organized By	Date
1.	Industry Interaction with students Title: "Current Trends and Opportunities for Young Graduates"	EEE, JSSATE NOIDA	30 <sup>th</sup> July, 2021
2.	Live webinar on Profile building for Higher Education and Placements	EEE, JSSATE NOIDA	02 <sup>nd</sup> July 2021
3.	MoU Signing Ceremony with JSSATE, Noida and CARES Renewables Private Limited.	EEE, JSSATE NOIDA	16 <sup>th</sup> June, 2021
4.	Workshop on Arduino and Introduction to Artificial Intelligence	EEE, JSSATE NOIDA	28 <sup>th</sup> -30 <sup>th</sup> April, 2021
5.	A Guest Lecture on Internet of Things	EEE, JSSATE NOIDA	12 <sup>th</sup> February, 2021
6.	Workshop on Hands on Session on “ Role of IoT in Energy Saving Systems ”	EEE, JSSATE NOIDA	01 <sup>st</sup> February, 2021
7.	AICTE Sponsored STTP on Solar PV and Storage System	EEE, JSSATE NOIDA	Dec 7th to Dec 12th 2020 (Slot-1) Dec 14th to Dec 19th

			2020 (Slot-2)
8.	International Webinar "Evolution of RF Technology-Role of Academia and Industry"	EEE, JSSATE NOIDA	22 <sup>nd</sup> -25 <sup>th</sup> June,2020
9.	Webinar on "Job Search Market These Days"	EEE, JSSATE NOIDA	13 <sup>th</sup> June,2020
10.	Real time modeling and control of Energy systems and devices	EEE, JSSATE NOIDA	11 <sup>th</sup> to 12 <sup>th</sup> June, 2020
11.	Combatting COVID-19 Pandemic with AI and Robotics: Innovative Indian Startups	EEE, JSSATE NOIDA	8 <sup>th</sup> –10 <sup>th</sup> June, 2020
12.	Smart India Hackathon 2020	EEE, JSSATE NOIDA	14 <sup>th</sup> and 15 <sup>th</sup> March 2020
13.	Internal Hackathon – software Edition for Smart India Hackathon 2020	EEE, JSSATE NOIDA	21 <sup>st</sup> January, 2020
14.	Seminar on Learnings from doing a hard ware start up in India	EEE, JSSATE NOIDA	24 <sup>th</sup> September, 2019
15.	A workshop on Industrial Automation Products(PLC, HMI, VFD,Servo drive System)	EEE, JSSATE NOIDA	20 <sup>th</sup> September, 2019
16.	“ National Conference on Smart Energy Systems (NCSES-2019)”	EEE, JSSATE, NOIDA	14-15 <sup>th</sup> June,2019
17.	Smart India Hackathon (SIH-2019)	MHRD & JSSATE,NOIDA	2 <sup>nd</sup> -3 <sup>rd</sup> March,2019
18.	Smart India Hackathon-2019	EEE, JSSATE NOIDA	2 <sup>nd</sup> and 3 <sup>rd</sup> March 2019
19.	Workshop on Virtual Lab	EEE, JSSATE NOIDA	17 <sup>th</sup> November, 2018
20.	workshop on “Solar PV System”	EEE, JSSATE NOIDA	28 <sup>th</sup> September, 2018
21.	seminar on “ROBOTICS”	EEE, JSSATE NOIDA	25 <sup>th</sup> September, 2018
22.	One week FDP on Recent Developments in Electrical Power System	EEE, JSSATE NOIDA	11 <sup>th</sup> June – 15 June, 2018
23.	Smart India Hackathon 2018	EEE, JSSATE NOIDA	30 <sup>th</sup> to 31 <sup>st</sup> March, 2018

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

S. No.	Name of the Workshop/conference	Organizer	Date
1	UKIERI Leadership and	AICTE	September 2018 to June



	Management Programme		2019
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### **9. Details of NPTEL / COURSEERA courses completed**

S. No.	Name of the Subject	Organized By	Date of Completion Award	Grade/Marks

### **10. Membership of Professional Bodies:**

1.Institute of Smart Structures and Systems LM -465
2.IEEE Membership-IEEE Membership No. 97669870 Member

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

**Name: Dr.K.S. Sujatha**

**Designation: HoD EEE, Dean R&D**

**Department: Electrical and Electronics Engineering**

**JSSATEN**