




## FACULTY PROFILE

### 1. Personal Details

NAME	Mr. SHIVAJI SINHA	
DEPARTMENT	ELECTRONICS & COMMUNICATION ENGINEERING	
DESIGNATION	ASSISTANT PROFESSOR-II	
PHONE	09716981568	
EMAIL ID	shivaji.sinha@jssaten.ac.in	
Date of Joining (JSSATEN)	01/10/2003	

### 2. Experience

Total Experience in Years: 18	Teaching: 18 years	Industry: Nil	Research: 03 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics & Communication	2003	G B Pant Engineering College, Pauri Garhwal,	H N Bahuguna Central University, Uttarakhand
M.Tech.	VLSI Design	2011	G C E T, Greater Noida T	Gautam Buddha Technical University, Lucknow
Ph.D.	Free Space Optics	Pursuing	School of USICT	Guru Gobind Singh Indraprastha University, New Delhi
Post Doc.	-	-	-	-

### 4. Research & Publications

Papers Published in Web of Science indexed	International: 01	National: 00
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Journals		
Papers Published in SCOPUS indexed Journals	International: 00	National: 00
Papers Published in other Journals	International: 03	National: 00
Papers Presented in Conferences / Symposium	International: 11	National: 00
Books / Book chapters Published	02	
	Name of the book: <b>FPGA Implementation of LMMSE detection for MIMO OFDM System</b> Publisher: VDM Verlag Dr. Muller, Germany Year of Publication: 2011  Name of the Work <b>Online resource for GATE, PSUs for the Subject Electromagnetic Field Theory</b> Publisher: Online Resources of Oxford University Press, New Delhi for the Year of Publication: 2010	

## 5. Research Guidance

PhD Guide? Give field & University	No	NA
Ph.D.s / Projects Guided	Ph.D. Awarded: No Guiding: NIL	Projects at Master's Level: 02 Projects at Bachelor's Level: 36

## 6. Grants

### i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
-	-	-	-	-

### ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1.	Design of Smart Wireless Charging system for electric vehicles using WPT Technology	Application No: 202121007129 <b>Published</b>

### iii. Consultancy

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

### 7. Awards Received

Award	Details
Best Paper Award	Nil
Topper in U P Board	District Topper in High School Board examination. & Scholarship holder
Best Faculty Award	Best teaching certification from the Principal of JSS Academy of Technical Education, Noida based on student feedback for a course taught in 2017-18.
Best Faculty Award	Best teaching certification from the Principal of JSS Academy of Technical Education, Noida based on student feedback for a course taught in 2007-08.

### 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.	Multi-Objective ANT Lion Optimization Algorithm Based Mutant Test Case Selection for Regression Testing	Aprna Tripathi, Shilpa Srivastava Himani Mittal, Shivaji Sinha, Vikash Yadav	Journal of Scientific and Industrial Research (JSIR) <a href="http://nopr.niscair.res.in/handle/123456789/57976">http://nopr.niscair.res.in/handle/123456789/57976</a>	Vol. 80, July 2021, pp. 582-592	WoS	1.056	NATL INST Science, New Delhi
2.	Error Performance of an STC WCDMA System on a frequency selective MIMO Fading	Sinha S., Kansal A	International Journal of Advances in Electrical and Electronics Engineering (IJAE)EE)	Volume 1, November 2, 2012 ISSN: 2319-1112, page No 79	-	-	-

	channel						
3.	Wavelet and FFT Based BER Analysis For Multicarrier Communication	Sinha S., Kumar C	Journal of Telecommunication (JOT) U.K	Volume 18, Issue 2, February 2013 ISSN: 2042-8839	-	-	-

## 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 Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1.	Energy Detection of Unknown Signals over Rayleigh Fading Channels	Sinha S, Mehfuz S., Urooj S	Issues and Challenges in Intelligent Computing Techniques (ICICT-14), , KIET,	pp. 303 – 307, Accession Number: 14210983, DOI: 10.1109/ICICT.2014.6781297 07-08 Feb 14	-	-	IEEE
2.	Wireless Body Area Networks-: A Review with Intelligent Sensor Network-based Emerging Technology	Mehfuz S., Urooj S., Sinha S	Information Systems Design and Application-2015 (INDIA 2015)	vol. 339, 21 Jan 2015	Scopus	-	Springer
3.	Evolutionary Algorithm Based Self-Reconfigurable Adaptable	Prasada Kumari.K.S, Sampath Kumar. V, Shivaji Sinha	ICRIE-2016	January 2016. ISB N:978-93-	-	-	Science Direct

	Systems for Image Processing: A Survey of Progress			5254-986-3 pp 96-100			
4.	VLSI Systems Energy Management from a software Perspective- A Literature survey	Prasada Kumari.K.S, Sampath Kumar. V, Shivaji Sinha	International conference on Recent trends on engineering and material sciences (ICEMS-2016)	Vol 8, pp 611-613, Sept 2016	-	-	Science Direct
5.	Performance comparison of channel estimation techniques using OFDM	Shivaji Sinha & Prof Dinesh Chandra	conference on sixty years of the transistor and its impact	22-24 Oct 09	-	-	Aurora's Technological and Research Institute, Hyderabad
6.	Comparison of different QAM modulation schemes in OFDM system	Shivaji Sinha	National Conference on Information Management in Knowledge Economy	20th March 2010	-	--	Macmillan Publishing India Limited, New Delhi
7.	Analytical Evaluation of BPSK, QAM-4 & QAM-16 modulation schemes in OFDM system	Shivaji Sinha	National Conference on Information Sciences	Guru Govind Singh Indraprastha University, Delhi conducted by IEEE, IETE, Computer Society of India 23 & 24 April 2010 ISBN NO: 023-032-936-5 page No: 102-	-	-	Manipal University, Manglore, Karnataka

				107			
8.	Performance Analysis of Sub Carrier Spacing Offset in Orthogonal Frequency Division Multiplexing System”	Shivaji Sinha, Prof. Dinesh Chandra	National Conference on Signal Processing and Real Time Operating Systems (SPROTOS-11)	March 26-27 2011 at	-	-	H.B.T.I. Kanpur
9.	Implementation of IEEE 802.16e OFDM Physical Baseband layer	Shivaji Sinha, Nitin Jain	National Conference on Advances in wireless cellular Telecommunication: Technologies & Services	4-15 April 2011	-	-	Institute of Communication Engineers & Information Technologies, New Delhi.
10.	Performance Analysis Of Flat Fading Channel With & Without Equalization”,	Shivaji Sinha	National Conference on Quality Improvement Tools in Dynamic Market Scenario	May 6 - 7, 2010	-	-	Delhi Business School, New Delhi.
11.	A Novel Approach for Performance Comparison of Flat Fading and Frequency Selective Fading Channel uses Image Processing	Shivaji Sinha, Lalit Kumar	National Conference on Emerging Technologies in Electrical Engineering (NCEEE-2010)	June 11-12, 2010)	-	-	Adam’s Engineering College, Khammam, Andhra Pradesh

#### iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Human values & Professional Ethics	Indian Institute of Technology (IIT) Kanpur,	May 21-27, 2009.
2	Recent Trend in Wireless Communication	AICTE & Galgotia University, Greater Noida	2 July 2012 to 15 July 2012
3	Wireless LAN's	AICTE & (NITTTR), Chandigarh	30 July 2012 to 4 August 2012
4	Signals and Systems	MHRD & IIT Kharagpur & IIT Mumbai	2 Dec to 12 Dec 2014.
5	Machine Learning and its application	ICT Electronics and ICT Academy and IIT Roorkee	4 May-14 May 2020
6	Outcome based Education: A step towards excellence	AICTE, & Government Engineering College Karad	11-15 May 2020
7	Machine Learning and Deep Learning Applications in Engineering & Science	TEQUIP-III, Government Engineering College Karad and Rajkiya Engineering College Azamgarh	16 May- 20 Mat 2020
8	SCILAB	Spoken Tutorial IIT Bombay and JNTU, Hyderabad	25 May – 30 May 2020
9	Next Generation Software tools and trends for industrial solution	TEQUIP III, Government Engineering College, Aurangabad	13 June- 17 June 2020
10	Big Data and Hadoop	AICTE & IPS Academy Institute of Engineering and Science, M.P	20th -25th July, 2020
11	Recent Research Trends in Electronics and Communication Engineering	TEQIP-II, G B Institute of Engineering and Technology, Pauri Garhwal	18 August 028 August 2020.

12.	Teaching Learning Pedagogies	AICTE(AQIS), A G Patil polytechnic, Sholapur	7th to 12 th September 2020
13.	Advancements in Signal Processing and Optimization Techniques in WSN.	TEQIP-III, Rajasthan Technical University, Kota	21 Sept-25 Sept 2020
14.	Artificial Intelligence and 5 G Communication Technology	AICTE(AQIS), Poornima College of Engineering , Jaipur	7th to 12 th September 2020
15	Recent Trends in Beyond 5G in WSN	TEQIP-III, Ujjain Engineering College, M.P.	19 - 23 September 2020

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

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	12 <sup>th</sup> IEEE International Conference INDICON	Deptt of Electrical Engineering, Jamia Millia Islamia Central University, Delhi.	17-20 December 2015	Organizer
2.	Next Generation Wireless Networks and Standard	Deptt of Electronics Engineering, JSS Academy of Technical Education, Noida	29 Feb to 5th March 2016	Organizer
3.	Online FDP on PYTHON	Spoken Tutorial IIT Bombay and Department of ECE JSSATE, Noida	22 <sup>nd</sup> June – 04 July 2020	Organizer

**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.	Digital Communication	NPTEL IIT Delhi	December 2020	65

### 10. Membership of Professional Bodies:

1. IEEE-92987405
2. The Indian Society for Technical Education ( LM 78192)
3. The Institute of Electronics & Telecommunication Engineers -212139 M
4. Member of International Associations of Engineers (121458)
5. The Institution of Engineers (AMIE- AM099753-9)
6. ICEIT-1100213 L
7. IACSIT-80345113
8. CSTA-4803139

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

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