




FACULTY PROFILE

1. Personal Details

NAME	Dr. SANGEETA MANGESH KARYAKARTE	
DEPARTMENT	ELECTRONICS & COMMUNICATION ENGINEERING	
DESIGNATION	ASSISTANT PROFESSOR -3	
PHONE	9810334904	
EMAIL ID	sangeetamangesh@jssaten.ac.in	
Date of Joining (JSSATEN)	16 -01-2012	

2. Experience

Total Experience in Years: 28	Teaching: 24 Years	Industry: 4 Years	Research: 4 Years
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics & Communication Engineering	1989	College of Engineering	Marathwada University Aurangabad (MS)
M. Tech,	VLSI Design	2009	Uttar Pradesh Technical University Lucknow.	Uttar Pradesh Technical University Lucknow.
Ph.D.	Nano-Electronics	2021	Dr APJ Abdul Kalam Technical University Lucknow	Dr APJ Abdul Kalam Technical University Lucknow
Post Doc.	-	-	-	-

4. Research & Publications

Papers Published in Web of Science indexed Journals	International:03	National:00
Papers Published in SCOPUS indexed Journals	International:04	National:00
Papers Published in other Journals	International:13	National:01
Papers Presented in Conferences / Symposium	International:8	National:03
Books / Book chapters Published	Name of the book: Industry 4.0, AI, and Data Science: Research Trends and Challenges- Chapter-7- Machine Learning Approach for Breast Cancer Early Diagnosis Publisher: CRC Press Year of Publication:2021	
	Name of the book: Advances in Intelligent Systems and Computing book series (AISC, volume 757) Publisher: SPRINGER Year of Publication:2019	

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: 16 Projects at Bachelor's Level: 68

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
-	-	-

iii. Consultancy

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

Awards “Best Paper Award”	Best Paper Award at the online National Conference on “ Smart Energy VLSI & Embedded Systems (NCSEVES-2021) ’ jointly organized by Department of Electronics & Communication Engineering, Electrical & Electronics Engineering and Electrical Engineering , JSS Academy of Technical Education, Noida in collaboration with Construction Industry Development Council (CIDC) on 24th September 2021.
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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	Analysis of Extended Pile Gate Trapezoidal Bulk FinFET - https://www.tandfonline.com/DOI/full/10.1080/03772063.2019.1579678	Sangeeta Mangesh, P.K. Chopra, K.K. Saini	IETE Journal of Research	2019	Both	1.125	Taylor & Francis
2	Stacked Gate FinFET with Gate Extension for Improved Gate Control https://link.springer.com/article/10.1134/S1063739718660010	Sangeeta Mangesh, P.K. Chopra, K.K. Saini	Russian Microelectronics	Volume 47, Issue 6, 2018	Both	0.66	Springer
3	A Trapezoidal	Sangeeta Mangesh, P.K.	International Journal of	Vol. 10, No. 1,	Both	0.712	The Science

	Cross-Section Stacked Gate FinFET with Gate Extension for Improved Gate Control	Chopra, K.K. Saini	Advanced Computer Science and Applications	2019			and Information (SAI) Organization Limited.
4	Modelling Quantum Transport in Nanostructures-	Sangeeta Mangesh, Shweta Khanna, K.K Saini -	IOSR Journal of Electronics and Communication Engineering	Volume 10, Issue 6, (Nov - Dec .2015	-	-	IOSR Journals.org
5	Study on various GDI Techniques for Low Power, High Speed Full Adder Design	Haseeb Pasha Sangeeta Mangesh	IJSRD - International Journal for Scientific Research & Development	Vol. 3, Issue 12, 2016 (ISSN (online): 2321-0613)	-	-	IJSRD
6	Design of Low Voltage Low Dropout Regulator	Devyani Baliyan Sangeeta Mangesh, Sampath Kumar V.	International Journal & Magazine of Engineering Technology, Management and Research,	Volume 2 Issue 12 Dec-2015	-	-	Yuva Engineers Publications
7	Comparison Of Conditional Techniques for Implicit and Explicit Pulsed-Triggered Flip-Flops In Terms Of Power And Delay	Lalita Gupta, Sangeeta Mangesh	International Journal of Advanced Technology in Engineering and Science (IJATES)	Vol. No. 03- Issue 8 Aug 2015	-	-	A R Research Publication
8	Implementation of UART with CALBO	Nishtha Singh and Sangeeta Mangesh	STM Journal of Microelectronics and Solid State Devices,	Volume 2, Issue 1, 2015	-	-	Consortium e-Learning Network Pvt. Ltd
9	Power Analysis and Synthesis of BIST	Nishtha Singh, Sangeeta Mangesh	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)	Volume 4, Issue 6, Ver. II (Nov -	-	-	IOSR Journals.Org

	Technique on UART			Dec. 2014			
10	Design and Implementation Of 4T, 3T and 3T1D DRAM Cell Design On 32 Nanometer Technology	Prateek Asthana and Sangeeta Mangesh	International Journal of VLSI design & Communication Systems (VLSICS)	Vol.5, No.4, August 2014	SCOPUS	-	AIRCC Publishing Corporation
11	Top of Form Bottom of Form Power Analysis Comparison of Gated Diode Dram Cell Design On 32 Nm Technology	Prateek Asthana and Sangeeta Mangesh	Journal of VLSI Design Tools & Technology	Vol5, Issue-1 ,2015	-	-	Consortium e-Learning Network Pvt. Ltd.
12	Performance analysis of LSDCCFF at 90 nm technology	Misbah Saad & Sangeeta Mangesh.	IJSRD - International Journal for Scientific Research & Development	Vol. 2, Issue 04, 2014	-	-	
13	Analysis of LSDCCFF at 0.09 μ m Technology DOI: https://doi.org/10.37591/joedt.v5i2.4871	Misbah Saad & Sangeeta Mangesh.	STM Journal of Electronic Design Technology	Vol-5 No-2 ,2014	-	-	Consortium e-Learning Network Pvt. Ltd.
14.	Efficient Design of Pseudo-Random Pattern Generator with High	Gargi Kaushik, Sangeeta Mangesh, Prof Dinesh Chandra.	STM Journal of Solid State, Electronic & Devices	Vol 1, No 2 (DEC-2014)	-	-	Consortium e-Learning Network Pvt. Ltd

	Fault Coverage						
15.	Design Of Low-Voltage High-Gain Current mode Operational Amplifier	Shyam Garg ,Sangeeta Mangesh	International Journal of Advanced Scientific and Technical Research	Issue 3 volume 4, July-August 2013	-	-	R S Publications
16.	Active Inductor based VCO for High Tuning Range	Rashmi Srivastava & Sangeeta Mangesh	International Journal of Applied Information Systems (IJAIS) –	Volume 4– No.3, September 2012 ISSN:2249-0868	Scopus	-	Foundati on of Compute r Science FCS, New York, USA-"

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
1	Performance Metrics and Temperature Variability in a 16 nm Spacer FinFET-	Sangeeta Mangesh, Krishan K Saini, PK Chopra-	i-Manager's Journal on Electronics Engineering	Vol 8 Issue 4, June 2018	(UGC Approved Journal).	-	i-manager Publications

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	Space FinFET for Low Power Applications	Sangeeta Mangesh, Pradeep Chopra, Krishan Saini, Sangeeta Kurundkar	National Conference on “Smart Energy VLSI & Embedded Systems (NCSEVES-2021)	24 th Sept 2021	-	-	-
2	Text Segmentation technique for Smart City Applications	Sangeeta Mangesh, Chhaya Grove, Vedvasu Sharma	International Conference on Intelligent Control and Computation for Smart Energy	25-26 September 2020 at JSSATE NOIDA INDIA	-	-	-

			and Mechatronic Systems				
3	Exploring Low Power Design Through Performance Analysis of FinFET for Fin Shape Variations	Sangeeta Mangesh, P. K. Chopra, K. K. Saini, Amit Saini	Innovations in Infrastructure Proceedings of ICIIF 2018	18-19 May 2018 , IITRAM, Ahmedabad (Gujrat, INDIA)	Both	-	Springer
4	Quantum effect in Nanoscale SOI FINFET device structure: a simulation study- - https://ieeexplore.ieee.org/document/8074062	Sangeeta Mangesh, PK Chopra, KK Saini	IEEE Electronic Device Society Conference paper 2017 (DevIC17)	23,24 March 2017, Kalyani Govt. Engineering College, Kalyani, West Bengal, INDIA	Scopus	-	IEEE
5	Analysis of test pattern generators for BIST”,	Nishtha Singh and Sangeeta Mangesh	National Conference on Broadband and Optical Fiber Technologies,	March 13 – 14, 2015, ABES Engineering College, Ghaziabad , India	-	-	-
6.	Capacitor less DRAM cell design for high-performance Embedded System" DOI 0.1109/ICACCI.2014.6968474 Publisher: IEEE	Prateek Asthana & Sangeeta Mangesh	International Conference on Advances in Computing, Communications and Informatics- (ICACCI, 2014)"	24-27 Sept 2014, Delhi, INDIA	Scopus	-	IEEE
7	Performance Comparison of 4T, 3T And 3T1D DRAM Cell Design On 32 nm Technology-	Prateek Asthana, Sangeeta Mangesh	Fourth International Conference on Computer Science, Engineering and Applications (ICCSEA 2014),	July 26 ~ 27 - 2014 Chennai, India-	Scopus	-	IEEE

8	Stability analysis of different low power SRAM structure using nanometer scale-	Lovneet Mishra, Sampath Kumar V., Sangeeta Mangesh	4th Students' Conference on Engineering and Systems 2015 (SCES2015)	Nov 2015 MNIT Allahabad	Scopus	-	IEEE
9	Digital Image Processing: Gizmo in CIN Diagnosis'- This paper is also published in International Journal of Advances in Electronics Engineering (open access journal) at the link- 'seekdlib.uacee.org/files/d582.pdf'	Sangeeta Mangesh	International Conference held by UACEE at	2 nd June 2011, Chandigarh, INDIA	-	-	-
10	ESD protection design in Integrated Circuits',	Sangeeta Mangesh, Prof Dinesh Chandra	National Conference on Emerging trends and advances in Electrical Engineering and Renewable Energy (NCEEERE - 2008)	22-24 Dec, 2008, SMIT Majhitar, Sikkim	-	-	-
11	ESD protection in Integrated circuits-trends and challenges	Sangeeta Mangesh, Prof. Dinesh Chandra	National Conference sponsored by IEEE UP Chapter	5-7 th Sept 2008 AKGEC Ghaziabad INDIA	-	-	-

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Examination Reforms- FDP	AICTE & Chitkara University	26 th -28 th July2021
2	Workshop on Intellectual Property Rights	Cell for IPR Promotion & Management (CIPAM) & Dept of Management Studies JSSATEN	1 st -6 th March 2021
3	Attended Hands on training on Image Recognition using Tensor Flow	Vodafone India foundation Bangalore.	31 Oct 20
4	Fourth JNU Workshop for Empowering Teaching through Online Mode (JNU-WETOM IV) on the theme 'Going Online: Classroom, Field Work & Research '	JNU New Delhi	11-12 July 2020
5	Faculty Development Program on "Effective Teaching Pedagogy"	IPEC, Ghaziabad	20-22 nd July 2020
6	One Week International Faculty Development Program on Digital Learning with Multidisciplinary Approaches (DLMA	Department of MCA, JSSATE Noida	12 th -17 th June 2020
7	FDP on "Introduction to Data Analytics Using R: Hands on Approach"	Indore Institute of Management & Research, Indore (M.P)	1 st -5 th June 2020
8	Two -week FDP on Programming on PYTHON- Under spoken tutorial project IIT Bombay and Dept of ECE JSS ATE N from 22 nd June -4 th July 2020	spoken tutorial project IIT Bombay and JSS ATE Noida	22 nd June -4 th July 2020
9	5-Day Global E-Symposium on "Global Pandemic Outbreak: Role of Technology & Automation "organized	CSE Dept JSSATE Noida	1 st -5 th June 2020
10	Hands on workshop on 'Effective and Efficient Online Teaching in the Age of Corona,	NMEICT IIT Bombay	17 th May 2020
11	NMEICT IITBX-One day Workshop on eSim, a First	NMEICT IITB	Sept 2019

	Course in the IoT Series for Teachers'-Sept 2019		
12	CMOS Mixed-Signal and RF VLSI Design- Two Week FDP	NMEICT IIT Kharagpur	Feb 2017
13	INUP hands-on training on 'Nano Fabrication Technologies' -Two week	Center for Nanoscience & Engineering at IISC Bengaluru	July 2015
14	Summer School in Image Processing	NIT Kurukshetra	June 2015
15	NBA Training For Stakeholders	JSSATE Noida	Feb-March-2014
16	On hand Software Training Program for FDTD Solutions	Lumerical software Solutions and IEEE photonic Society Bangalore-at SPECTRUM, Sector 2 , Noida	Jan 2014
17	ISTE Workshop on Research Methods in Education Technology- Conducted by IITB	IIT Bombay	Jan-Feb 2013
18	QIP STC on 'Essentials of Nanotechnology and Nano-Sciences'	IIT Roorkee	Feb 2013

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	National Conference on "Smart Energy VLSI & Embedded Systems (NCSEVES-2021)' on 24 th September 2021	jointly organized by Department of Electronics & Communication Engineering, Electrical & Electronics Engineering and Electrical Engineering , JSS Academy of Technical Education, Noida in collaboration with	24 th Sept 2021	Core committee member- Graphics Design

		Construction Industry Development Council (CIDC)		
2	Online International Conference on Intelligent Control and Computation for Smart Energy and Mechatronics Systems (ICCSEMS - 2020)	JSS Academy of Technical Education Noida	25-26 Sept 2020	Core Committee-Organization of Technical Session
3	Online International Webinar pon "Emerging Trends In Electronics, Communication And Information Technology"	Department of Electronics and Communication Engineering, JSSATE, Noida.	2nd July 2020-7th July 2020,	Core Committee Member
4	FDP on "Signal Processing and its Applications"	JSSATE Noida Sponsored by Dr APJ Abdul Kalam Technical University Lucknow	23rd April-28th April 2018,	Core Committee Member
5	Zonal Level Technical-Management and Cultural Fest -2016	Dept of EC, JSS ATE Noida sponsored by AKTU	22-27 th Feb 2016	Core committee Member

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

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Nanomaterials and Nanotechnology- through AICTE Training & Learning (ATAL) Academy	Defense Institute of Advance Technology Pune	20-24 Sept 2021
2	Artificial Intelligence and green power technology- through AICTE Training & Learning (ATAL) Academy	KNIT Sultanpur	14 th -18 th June21
3	IoT and Machine Learning- AICTE Sponsored FDP	Indraprastha Engineering College, Ghaziabad.	3 rd -8 th May 2021
4	AICTE sponsored	JSSATE NOIDA	7 th -12 Dec

	STC on Solar PV and Storage Systems		2020
5	Computational Techniques in Image and Signal Processing AICTE-QIP STC	SLIET Longowal	28 th Sept- 3 rd Oct 2020

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Introduction to Professional Scientific Communication	IIT Kanpur-NPTEL	JAN-FEB2021	SILVER
2	Learning Analytics' Tools	IITB-NPTEL	Sept-Dec 2020	ELITE
3	Teaching And Learning in General Programs: TALG	IISC Bengaluru-NPTEL	Sept-Dec 2020	SILVER
4	Designing learner-centric e-learning in STEM disciplines	IITB-NPTEL	Sept-Dec 2020	SILVER
5	Microelectronics: Devices to Circuits	IIT Roorkee-NPTEL	July-Oct-2019	ELITE
6	Designing Learner-Centric MOOCs	IITB-NPTEL	July-Aug- 2019	SILVER
7	Stress Management	IIT-Kharagpur-NPTEL	Aug-Sept 2018	ELITE
8	Educational Leadership	IIT-Kharagpur-NPTEL	Aug-Sept 2018	GOLD
9	Effective Engineering Teaching in Practice	IIT Chennai-NPTEL	Feb-March -2018	ELITE
10	Outcome Based Pedagogic Principles for Effective Teaching	IIT-Kharagpur-NPTEL	Feb-March -2018	SILVER
11	Introduction to Research	IIT Chennai-NPTEL	July-Sept2016	SILVER
12	Cloud computing	IIT- Kharagpur-NPTEL	Feb-Apr-2020(COVID-19-Pandemic phase)	Modified pass certificate (93%)
13	CMOS Digital VLSI Design	IIT-Roorkee-NPTEL	Jan-March-2020 (COVID-19 pandemic phase)	Modified pass certificate (93%)
14	Analog Circuits and Systems through	IIT Kharagpur-NPTEL	Jan-Apr-2020 (COVID-19	Modified pass certificate

	SPICE Simulation		pandemic phase)	(95%)
15	Do Your Venture- Women Startup Program-IIMBx - EP101x	IITBX+NSRCEL	Dec-2016-Jan 2017	Course certificate
16	LaTeX for Students, Engineers, and Scientists-LaTeX101x:	IITBX	July-Dec 2020	A+ Grade

10. Membership of Professional Bodies:

ISTE - LM77303

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

Developed a course on subject 'VLSI Technology -KEC 054' for B. Tech.(EC/EN/EI) 5th Semester for SWAYAM PRABHA -Group of 34 DTH channels devoted for educational programs under AKTU digital Education initiative. The video lectures were telecasted from Nov 2020 onwards regularly. Lectures are available on AKTU Digital Education Channel at [AKTU Digital Education - YouTube](#).