

Somaiya Vidyavihar University

Name: Dr. Vandana Jitendra Satam		E-mail: vandanam@somaiya.edu	
Contact No: 022- 66449311			
Department/Section: Electronics and Telecommunication			
College: K J Somaiya School of Engineering			
DOJ Somaiya: 28 June 2005	Career Experience:20 Yrs	Industry Experience:_Nil	Teaching Experience: 20 Yrs
Present Academic Designation: Associate Professor		Present Administrative Designation: Jt. Associate Dean Student Affairs	

Area of research/specialization and Courses Delivered	
Research domain/interests/areas 1. RF And Antenna 2. IoT Courses Delivered 1. RF Filters Antenna 2. Elements of Electrical and Electronics Engineering 3. Microwave Engineering 4. Research Methodology 5. Internet of Things 6. Control Systems 7. Antenna and Wave Propagation	

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
Details of Recognitions 1. Approved faculty and guide for UG, PG and Ph.D program under SVU 2. Approved faculty and guide for UG and PG program under Mumbai University			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Ph. D (Electronics And Communication)	SNDT Women's University	Usha Mittal Institute of Technology	2019	-
PG	Master Of Engineering (Electronics And Telecommunication)	University Of Mumbai	Vivekanand Education Society's Institute Of Technology	2010	78.32%
UG	B.E. (Electronics)	University Of Mumbai	Terna College Of Engineering	2003	68%

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Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K J Somaiya School of Engineering	Associate Professor	July 2024	Till Date	7 Months
2.	K J Somaiya College of Engineering	Assistant Professor	July 2004	June 2024	20

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: 01 (As Guide) 02 (As Co-Guide)		No of students completed Ph.D as on date: NIL
No of students completed PG thesis / Project work as on date: NA		No of students / groups completed UG projects as on date: 36
Publications Total:19	Number of Peer review Journal papers:04	Number of Conference papers:17

Details of Publications:

International Journals

1. **Satam, Vandana**, and Shikha Nema. "Six element dual polarized high gain MIMO antenna for multiband applications." *Microwave and Optical Technology Letters* 62, no. 1 (2020): 217-225.
2. **Satam, Vandana**, and Shikha Nema. "Compact, high gain, linearly polarized diversity antenna for KU band applications." *Microwave and Optical Technology Letters* 60, no. 11 (2018): 2843-2849.
3. **Satam, Vandana**, and Shikha Nema. "Two element compact UWB diversity antenna with combination of DGS and parasitic elements." *Wireless Personal Communications* 98, no. 3 (2018): 2901-2911.
4. **Satam, Vandana**, and Shikha Nema. "Dual notched, high gain diversity antenna for wide band applications." *Microwave and Optical Technology Letters* 59, no. 5 (2017): 1222-1226.

Conferences

1. M. Budania, B. Singh and **V. Satam**, "A Trident shaped EBG integrated monopole antenna for wearable applications," International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024) 15th -16th April, 2024 Organised by K J Somaiya College of Engineering, Somaiya Vidyavihar University.
2. M. Budania, B. Singh and **V. Satam**, "A compact EBG integrated slot antenna for wearable applications," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023, pp. 1-6, doi: 10.1109/MAPCON58678.2023.10463850.
3. **Satam, Vandana**, Kulkarni Chaitali, Kholapure Anudeepa, "Microstrip Antenna As a Temperature Sensor for IoT Applications", MAPCON 2022, IEEE Bangalore Section, 13th - 15th December 2022.
4. K. Aanchaliya, P. Bojalwar, **V. Satam**, A. Keskar, S. Sadani and P. Malhotra, "Mapping a Navigation System for Confined Space using CNN," *2021 Asian Conference on Innovation in Technology (ASIANCON)*, 2021, pp. 1-5, doi: 10.1109/ASIANCON51346.2021.9544781.

5. **Satam, Vandana**, and Shikha Nema. "High-gain overlapped elliptical shape diversity antenna for multiband applications." In 2018 IEEE Indian Conference on Antennas and Propagation (InCAP), pp. 1-5. IEEE, 2018.
6. **Satam, Vandana**, Shikha Nema, and Sanjay Singh Thakur. "Spanner shape monopole MIMO antenna with high gain for UWB applications." In Proceedings of International Conference on Wireless Communication, pp. 129-138. Springer, Singapore, 2018.
7. **Satam, Vandana**, and Shikha Nema. "Dual polarized four element diversity antenna for UWB applications." In 2017 IEEE International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and Satellite Applications (iAIM), pp. 1-5. IEEE, 2017.
8. **Satam, Vandana**, and Shikha Nema. "Design of multi-band planar diversity antenna for bandwidth and gain enhancement." In 2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT), pp. 1072-1076. IEEE, 2016.
9. **Satam, Vandana**, and Shikha Nema. "Defected ground structure planar dual element MIMO antenna for wireless and short range RADAR application." In 2015 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), pp. 1-5. IEEE, 2015.
10. **Satam, Vandana**, Shikha Nema, and Sanjay Pawar "Novel MSA using I shape with Vertical Slot DGS", 7th IETE Conference on Radio Frequency & Wireless-2014 (Icon RFW-14), HKBK College of Engineering, Bangalore, Karnataka, , 8th – 10th May 2014.
11. **Anerao, Vandana M.**, "Implementation of stepped impedance microstrip low pass filter" published in International Journal of Emerging Trends in Electrical and Electronics (IJETEE), ISSN 2320-9569 , Volume 2 ,Issue 2 ,April, 2013.
12. **Anerao, Vandana M.**, J. S. Pillai, J. V. Chande, and Shoba Krishnan. "Parallel coupled microstrip band pass filter." In 2009 Second International Conference on Emerging Trends in Engineering & Technology, pp. 1206-1209. IEEE, 2009
13. **Anerao, Vandana M.**, J. S. Pillai, J. V. Chande, and Shoba Krishnan. "FPGA based RASS Transmitter System" National Conference on Electronics, Communications and Computers organized by IETE, Navi Mumbai Sub Center, 13th -14th February 2009.
14. **Anerao, Vandana M.**, "Intelligent Antenna MIMO" National Conference on "Recent Trends in Wireless and Wired Communication" organized by SIES GST, Navi Mumbai 13th -14th March 2008.
15. **Anerao, Vandana M.**, "Safety Issues Of Wireless LAN", International Conference on "Emerging Technologies in Telecommunication Convergence" organized by IETE Mumbai Centre, 10th -12th January 2007.
16. **Anerao, Vandana M.**, "A Journey To DWDM", National Conference on "Technology for Societal Transformation & Emerging Trends in Electronics and Instrumentation "organized by VESIT, Mumbai, 12th -13th January 2007.
17. **Anerao, Vandana M.**, "Dense Wavelength Division Multiplexing", National Conference on "Trends in Telecom Transmission: Copper to Fiber" organized by K. J. Somaiya College of Engg., Mumbai, 17th -18th March 2006.

No of projects completed:
Rs: 33,000/-

No of Research / consultancy /
projects on-going:
Rs: Nil

No of Research / consultancy /
projects on applied as on date:
01

**Details of Research / consultancy / projects:
Completed**

1. Mumbai University minor research project on "Design and Development of Passive Antenna Temperature Sensor for IOT Application" with grant of Rs. 25,000/- (Completed in Dec 2021)
2. Completed institute level research project on "Design and analysis of Microwave Components" in year 2012. (Sponsored by K.J. Somaiya College of Engineering)

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Applied

Project proposal titled “From Connectivity Gaps to Smart Solutions: Designing 5G Networks for Rural Innovation- 5G Intelligent Villages”, to Telecom Technology Development Fund (TTDF) under the category Smart Education, September 2024 (Under Review)

Patents/Copy Rights

Antenna Based Carbon Dioxide Detector, Indian Design Patent, Application No. 386665-001 issued on 17th August 2023.

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

1. Completed “Felder Brent Effective Teaching and Learning course” organized by IUCEE, May 2024-April 2025, 12 weeks.
2. Completed NPTEL FDP on “Understanding Incubation and Entrepreneurship” coordinated by IIT Bombay Feb- April 2025.
3. Completed FDP on "Transforming Ideas into **RF** Reality: Simulation-driven Design and Testing for Antenna and **RF** Components" 16th December 2024 to 20th December 2024, organized by K J Somaiya School of Engineering, Somaiya Vidyavihar University.
4. Completed IUCEE INTERNATIONAL ENGINEERING EDUCATOR CERTIFICATION PROGRAM, Fall 2023 organised by IGIP Austria in collaboration with IUCEE.
5. Completed Faculty Development Program on “Grant Writing for Funded Research” conducted on 4th December 2023 organised by Faculty & Staff Development Centre, Somaiya Vidyavihar University.
6. National level online FDP on “Outcome Based Education and Essential AI tools for Teachers” organized by IQAC of Carmel College in association with KSHEC, 10th -18th August 2023.
7. NPTEL AICTE FDP on “Introduction to Internet of Things” coordinated by IIT Madras, July-October 2022.
8. Participated in IP Awareness training Program organized by National Intellectual Property Awareness Mission on 6th September 2022.
9. Attended three days workshop on “NAAC for University” organized by IQAC Somaiya Vidyavihar University in association with IQAC Cluster, India. 20th-22nd July 2022.
10. Course on “Engineering Ethics”, conducted by IUCEE, Nov 2021- Jan 2022.
11. FDP on “Nurturing Research Pro Mindset in Self” from 24th July 2021 to 25th September 2021, organized by IUCEE foundation in association with EduEnergy, Singapore.
12. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “Internet of Things (IoT) for Agriculture” from 19th to 23rd July 2021 at Institute of Technology, Nirma University.
13. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Green Technology & Sustainability Engineering" from 11th to 15th January 2021 at KLS Gogte Institute of Technology.
14. NPTEL Course on “Designing Learner Centric MOOCs”, Jan –Feb 2021, Organized by IIT Bombay.
15. Attended three days National Level IEEE workshop on “Internet of Things for Agriculture Applications”, Organized by P. R. Pote Patil College of Engineering, Amravati in association with IEEE Mumbai section and PANTECH Learning, 22nd -24th October 2020.
16. Online FDP on “Design Thinking”, 21st-25th September 2020, Organized by K. K. Wagh Institute of Engineering Education and Research in association with AICTE Training And Learning (ATAL) Academy
17. Technical program on “Deep Learning and Artificial Intelligence”, 27th -31st July 2020, organized by IETE Mumbai in association with PANTECH E-learning.
18. NPTEL Course on “Design, Technology and Innovation”, Feb- April 2020, Organized by

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NPTEL, IIT Bombay.

19. Faculty development program on “ Online teaching and E content”, 11th-12th June 2020, Organized by S.K. Somaiya College in association with Indian Institute of Digital Education.
20. “Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop”, 16th May 2020, organized by Teaching Learning Centre (ICT) at IIT Bombay.
21. Online FDP on “Innovation, IPR and Entrepreneurship”, 4th -10th May 2020, Organized by Pillai HOC College of Arts, Science and Commerce, Rasayani.
22. Online workshop on “Education 4.0”, 28th -30th April 2020, Organized by Atharva College of engineering, Mumbai
23. Online course on “LaTeX101x: LaTeX for Students, Engineers, and Scientists” September 2019-December 2019, Organized by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.
24. NPTEL online course on “Accreditation and Outcome based Learning” August-October 2019, Organized by IIT Madras.
25. NPTEL online course on “Effective Engineering Teaching In Practice” Jan-Feb 2019, Organized by IIT Madras.
26. NPTEL online course on “Analysis and design principals of microwave antennas” August-September 2008 (8 Week) organized by IIT Kharagpur.
27. Attended AICTE-ISTE approved STTP on “Accreditation Procedure: NAAC and NBA” at S.S. Jondhale College of Engineering, Asangaon, 2nd -6th April 2018.
28. Attended QIP workshop on "Antenna, RF and microwave system " at VJTI, Mumbai, 8th -13th March 2016.
29. Attended short term course on “Dielectric Resonator Antennas - Analysis and Design” IIT Kharagpur, West Bengal, November 17th -21st , 2015.
30. Attended "Two day workshop on IE3D software", at Terna College of Engineering, Nerul, 11th and 12th October 2014.
31. Attended a tutorial on “RF and Microwave Techniques” at HKBKCE campus, organized by IETE Bnagalore Centre, 8th May 2014.
32. Attended ADS workshop coordinated by Mr. Madhukar Chaudhary, application engineer, Agilent Technologies at EXTC department, KJSCE, Mumbai, 18-19 April, 2014.
33. Two days’ workshop on “Writing effective conference papers ” at KJSCE, Remote centre organized by MHRD Ekalavya, IITB, 18th-19th February 2012.
34. Two days seminar on “IE3D optimization Tool” at KJSCE, Viadyavihar, 21st – 22nd January 2010.
35. “STTP on Satellite Image Processing” at VESIT, Chembur, 14th -19th December 2009.
36. Orientation programme on “Radio Frequency Circuit Design” organized by Terna Engineering College, Navi Mumbai in association with University of Mumbai, 1st July 2009.
37. “STTP on RF and microwave communication” at DBIT, Kurla, Mumbai, June 30th -July 11th, 2008.
38. “Certificate Course in Personal Counseling” at Institute of Human Technology, Heart to Heart Counseling Centre, India, 1st September -9th October 2006.
39. “Induction Training Programme for Engineering College Teachers” (ITP) at NITTTR, Extn. centre, Pune, 5th -17th December 2005.
40. “ISTE approved Teachers Training Programme in Digital Communication” at K.J. Somaiya College of Engg., Mumbai, October 2005.
41. “STTP on Telecommunication Networks” at K. J. Somaiya College of Engg. Mumbai, 16th - 27th May 2005.
42. Course Attended: “Distance Education Programme on Computer Networks” at IIT Bombay, July-November 2005.

Organized

1. Organised guest lecture on “Maximizing Academic Resources” for Ph.D scholars and UG/PG students of SVU under IETE KJS ISF by Dr. Nirupama Warrior on 4th October 2024.

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2. Organised guest Lecture on “Navigating To the World of Patents” for faculty members of KJSCE in association with IQAC and SARAS LLP by Mr. Sagar Sethiya, on 24th September 2024.
3. Moderator for Navigating the AI Nexus: The 2 nd International Conference organized by Brunel University London, 8th and 9th July 2024.
4. Member of organizing committee for STTP on “Recent trends on Applied Networking and Cyber Security” in association with ISTE Teachers chapter from 6th -11th May 2024.
5. Member of organizing team for ICTEAH 2024 held in April 2024, organized by K J Somaiya College of Engineering, Somaiya Vidyavihar University.
6. Coordinated Performing Arts events for Somaiya Youth Festival in February 2024.
7. Member of organizing team for Bharat Tech Foundation TRIO Conclave held in April 2024, organized by Somaiya Vidyavihar University.
8. Member of organizing team for “AIU Vice Chancellors Conference” held in December 2023, organized by Somaiya Vidyavihar University.
9. Coordinated session for Winter School at K J Somaiya College of Engineering in December 2023.
10. Coordinated five days ISTE approved STTP on “Internet of Things: A Multidisciplinary Approach for Future Innovations” in association with ISTE teachers chapter KJSCE and IQAC KJSCE from 02-06 Jan 2023.
11. Organised guest lecture on “Intellectual Property Rights for Engineers” for faculty and students of Somaiya Vidyavihar University, under ISTE KJSCE chapter delivered by Mr. Vijay Shivpuje, Director, Patlex Solution, on 13th November 2021.
12. Organized guest lecture by alumni Miss. Sapna Thakkar Machine learning Engineer from Reliance Jio infocom limited on “Pathway to Machine Learning” for students of Somaiya Vidyavihar University, under IETE KJS ISF on 13th November 2021.
13. Organised guest Lecture on “Applications and Opportunities in RF and Microwave Domain” delivered by Dr. Shivraj Rathod, Assistant Manager, Defence R & D Kalyani Center for technology & Innovation , Pune. 21st October 2020.
14. Organised guest Lecture on “Financial Literacy” for faculty and admin department under ISTE KJSCE chapter by Mrs. Manisha Damle, on 7th February 2020.
15. Organised guest Lecture on “Self Defence” by Rakshnaya Alliance on 13th September 2019 under ISTE KJSCE chapter.
16. Organised guest lecture on “IPR and IP management for innovation and startups” under Institute Innovation Cell of KJSCE on 26th February 2020.
17. Coordinated ISTE approved STTP on "RF Antenna: Design and Analysis" during 18th June 2018 – 23rd June 2018 at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai.
18. Organized lecture on “Cell Tower Radiations: It’s Hazards and Solution” for faculty and M.E., T.E. students of the department, delivered by Dr. Girish Kumar, IITB on 5th March, 2013.
19. Coordinated Workshop on NEC open source software for T.E. students on 2nd February, 2013.
20. Organized workshop on Spoken Tutorial on Scilab on 14th Aug, 2012 and 1st Sep, 2012.

Organization of Industrial Visits:

1. Vedang Radio for LY EXTC students on 4th September 2024.
2. GMRT, Pune for LY EXTC and TY EXTC students on 2nd February 2024 and in January 2023.
3. Satellite Station, Thane Yeur for TY EXTC students in 2022.

Delivered

1. Delivered expert lecture on “Crafting and presenting Technical papers” organized by department of E & TC, RMDSSCOE on 5th October 2024.
2. Delivered expert lecture on “How to write Technical Papers?” organized by IETE KJS ISF for students and faculty members from various engineering colleges, 3rd April 2023.
3. Delivered guest lecture on Bluetooth Module HC05 as a part of IoT lab in STTP on “Internet

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of Things: A Multidisciplinary Approach for Future Innovations" in association with ISTE teachers chapter KJSCE and IQAC KJSCE, 3rd January 2023.	
4.	Delivered guest lecture on "Recent Trends in Antennas" for third year students of Department of Electronics Engineering, K J Somaiya COE, Mumbai, on 12th April 2021.
5.	Delivered lecture in webinar on the topic "Antenna Engineering" organized by Maharashtra State Police Wireless Department, Thane city on 12th December 2020.
6.	Delivered lecture on "Research trends in MIMO antenna for wireless applications" at Zoom Research Seminar titled "Somaiya Research Interventions in Engineering & Technology" organized by Somaiya Institute for Research and Consultancy (SIRAC), 29th May 2020.
7.	Delivered lecture on "Simulation of CST antenna design software" in the workshop organized for EXTC department students, K. J. Somaiya COE, Mumbai, 29th January 2020 and 5th February 2020.
8.	Delivered lecture in "One day workshop on LaTeX Software" at EXTC department, KJSCE, 8th January, 2015.
9.	Delivered lecture and hands-on on "IE3D Antenna simulation software" at one week STTP on "Advances in Antenna & MMIC/RFIC Design" 24 th June -28 th June, 2013.
10.	Delivered a lecture on "RF Transmitter for Radio Acoustic Sounding System" in Faculty Study Circle, Electronics and Telecommunication Department on 19 th September 2009.

Notable Positions and Responsibility	
1.	Jt. Associate Dean of Student Affairs, KJSCE, Since July 2021
2.	Responsibilities at University/Institute Level 1. EXTC department member for Faculty and Staff Development Center of Somaiya Vidyavihar University.(Institute level) Since 2023 2. Member of Financial Aid Committee (University level) Since July 2021 3. Incharge NAAC Criteria 5 (Institute Level) 4. Coordinator for Research Methodology subject for Ph.D. programme since 2020 5. Handling social media accounts (Facebook and Instagram) of KJSCE for publicity (University Level) since 2019-2020 6. Coordinator of Certificate and PG diploma programme (Institute Level) for 2020-2022 7. Member of IRRS for UG projects for the department of Information Technology (Institute level) 8. IRRS: UG Project / PG Thesis External Examiners Appointment Committee Since 2020-21 9. Member of Institute Innovation Cell Since 2022
3.	Responsibilities at Department Level 1. Coordinator of Department student chapter IETE KJS ISF 2. EXTC Department representative for ISTE Teachers Chapter KJSCE Since 2021 3. Coordinator of website committee 4. Member of departmental publicity committee 5. Member of NAAC / IQAC committee 6. Member of departmental student activity records 7. Member of FY in-charge and faculty advisor of FY students 8. Member of activity committee for faculty, staff, students training and workshops 9. Mentor for Internal and External internships done by students 10. Syllabus setter for UG/PG, audit course as well as certificate courses 11. Guide for research scholar 2024-2025, Co-guide for research scholar (admitted in academic year 2020-2021, 2022-2023)

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	12. Member of Departmental time table committee
4.	Interaction outside world: 1. Co-opted member of Executive Committee 2024-2025 of IETE Mumbai Center. 2. Ph.D thesis reviewer for thesis of Assam Don Bosco University February 2025. 3. Member of selection committee as subject expert not connected to University of Mumbai for appointment of Assistant Professor for BS.C in AI at Vivekanand Education Society's College of Arts, Science and Commerce, Affiliated to University of Mumbai on 18th July 2024. 4. Moderator for The 2nd International Conference of Navigating the AI Nexus 8th and 9th July 2024 organised by Brunel University London. 5. Exam auditor for ESE question papers for SPIT, Mumbai, 11th March 2022. 6. Primary evaluator for Toycathon 2021. 7. Reviewer for national conferences, International conferences, and journals like IEEE letters, International Journal of Microwave and Wireless Technologies, wireless personal communication, Journal of Engineering Education Transformations etc. 8. External examiner for project oral as well as subject oral examinations. 9. Guided students from Mumbai University for project related to antennas.
5.	Awards/Recognition: Received Women Achiever Award for “Excellence in Educational Research” in Konkan region by Maharashtra Book of Records.

Dr. Vandana Satam

Date: 1/08/2025

Signature of Faculty Member