Somaiya Vidyavihar University

Name:	Dipak Kulkarni		E-mail:dipakkulkarni@somaiya.edu
Contact No:	**02266449312**		
Department/Section: EXTC			
College: K J Somaiya College of Engineering			
DOJ Somaiya: 01/08/2002	Career Experience: 23 Yrs	Industry Experience:__- Yrs	Teaching Experience:__23_Yrs
Present Academic Designation: Assistant Professor		Present Administrative Designation: -	

Area of research/specialization and Courses Delivered
Research domain/interests/areas 　　RF microwave 　　AR/VR Metaverse 　　Optical fiber communication Courses Delivered 　　Microwave Engineering 　　RF Filters and Antennas 　　Electromagnetic Field Theory 　　Optical Fiber Communication 　　Millimeter Wave Communication

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : No
Details of Recognitions 　1. UGC approved teacher of Mumbai University for UG 　2. UGC approved teacher of Mumbai University for PG			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D					
PG	M.E (Electronics and Telecommunication)	Mumbai University	K. J. Somaiya college of Engineering	2013	70 %
UG	B. E (Electronics and Telecommunication)	NM University	SES College of Engineering	1999	66%
Diploma					
NET/SET/Other					

Notable Experience Details				
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K. J. Somaiya college of Engineering	Assit. Prof	01/08/2002	Till date	22
2.					

Somaiya Vidyavihar University

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: -	No of students completed Ph.D as on date:-	
No of students completed PG thesis / Project work as on date: 10	No of students / groups completed UG projects as on date: 35	
Publications Total: 8	Number of Peer review Journal papers: 1	Number of Conference papers: 7

Details of Publications:

International Journals

"A 2-Way Radial Power Combiner", International Journal of Innovative Science, Engineering & Technology, Vol. 8 Issue 6, June 2021, ISSN (Online) 2348 – 7968

Conferences

"Acousto-Optic Tunable Filters for WDM Technology," National Conference on Trends in Telecom Transmission: Copper to Fiber, Mar 17-18, 2006,at Department of Electronics and Telecommunication Engineering, KJSCE, Mumbai-77.

"Analysis of Real Time Biometric system for Object Recognition and Tracking" International conference on Sunrise Technologies, Jan 13-15, 2011 Icost-2011, at SSVPS college of Engg. Dhule.

" Ultra Wideband Microstrip Antenna with Single Notched Characteristics" National Conference on Communication, Antenna and Signal Processing, Dec 23-24, 2011, at Dr.Babasaheb Ambedkar Technological University, Lonere.

" Energy Harvesting using Rectenna Technique and Wireless Power Transmission" National Conference on Innovation and Advancement in Information Technology (NCIAT 2016),ISBN 978-81-925114-8-1,Feb 20, 2016, SIES college of Engg.,Mumbai.,

"Ultra wideband microstrip antenna with dual notched characteristics using SSR," International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2012, The Association of Computer Electronics and Electrical Engineers (ACEEE) Bangalore, India, Oct 19-20, 2012. Published in IET Digital Library.

"A Compact Planar Antenna for Low Frequency Mobile Communication", International Conference on Electronics, Communication and Aerospace Technology (ICECA 2017), IEEE Conference, ISBN:978-1-5090-5686-6/17, 20,21,22 April 2017, RVS technical campus Coimatore, India.

" Modeling of Half Impulse Radiating Antenna (HIRA) for different Feed Arm Angles", International conference on Recent Advances in Engineering Science and Technology (ICRAEST 2018), IEEE Conference, ISBN:9788193221303, Nov 2018, Pune.

"Deep Learning-Based Signature Authentication Using Siamese CNN", International Journal on Science and Technology (IJSAT), Volume 16, Issue 2, E-ISSN: 2229-7677, April–June 2025, DOI: 10.71097/IJSAT.v16.i2.3502.

No of Research / consultancy / projects completed: Rs: 80000	No of Research / consultancy / projects on-going: Rs: -	No of Research / consultancy / projects on applied as on date: Rs: -

Details of Research / consultancy / projects:

Completed

1. Completed in house funded project on topic "Object recognition and Tracking Robot", in year 2009-2010.
2. Completed research project on "Design and development of active & passive devices for enhancement of Antenna & Microwave laboratory facility", Minor research Grant sanctioned by University of Mumbai for the financial year 2016-17.
3. Completed research project on "Automated Drip Irrigation System for Home Gardening", Minor research Grant sanctioned by University of Mumbai for the financial year 2018-19.
4. Completed research project on "Design and Development of Radial power combiner and

divider for high power microwave applications", Minor research Grant sanctioned by University of Mumbai for the financial year 2019-20.

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

Attended:

Attended two day seminar on "Circuit Simulation" during 31st Jan and 1st Feb, 2003,Organized by department of Electronics Fr. C. R. C. E., Mumbai -50.

Attended two day seminar on" Lasers and Applications" during 30 – 31 Jan, 2006, Organized by Shah and Anchor Kutchhi COE, Mumbai in   association with Bhabha Atomic Research Center, Mumbai.

Attended two day seminar on" MATLAB and Simulink" during 7- 8 Oct, 2005, Organized by MIT Engineering College, Pune.

Attended ISTE approved Short Term Training Program on "Telecommunication Networks," during 16 – 27 May, 2005, Organized by   Department of Electronics and Telecommunication Engineering, KJSCE Mumbai-77.

Completed ISTE approved Short Term Training Program on "Microwave Integrated Circuit Design," during 8 – 14 Jan, 2007, Organized by   K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22

Completed ISTE approved Short Term Training Program on "Laboratory Tools and Practices in Microcontrollers and Signal Processing," during   3 – 13 July, 2007, Organized by Department of Electronics and Telecommunication Engineering, KJSCE, Mumbai-77

Attended Three days INUP Familiarization Workshop on "Nanofabrication Technologies" during December 16–18, 2015. at IIT Bombay.

Completed Two week ISTE approved workshop on "CMOS, Mixed Signal and Radio Frequency VLSI Design" during January 30 - February 4, 2017 at KJSCE remote center, organized by IIT Kharagpur, under National Mission on Education through ICT, a MHRD project.

Completed Two week AICTE appeoved FDP101x on " Foundation Program in ICT for Education", during Aug. 3, 2017 to Sep. 7, 2017 at KJSCE remote center orgnasied by IIT Bombay under National Mission for Teachers and Teaching, MHRD, GOI.

Completed Two week AICTE appeoved FDP201x on " Pedagogy for Online and Blended Teaching Learning Process", during Sep. 14, 2017 to Oct. 12, 2017 at KJSCE remote center orgnasied by IIT Bombay under National Mission for Teachers and Teaching, MHRD, GOI.

Completed An online course on "Work Place Communication", Oct. 04, 2018 to Nov. 12, 2018, Under College TO Corporate program, an initiative of IITB.

Completed An online course on "Soft Skills", Sep. 06, 2018 to Oct. 04, 2018, Under College TO Corporate program, an initiative of IITB.

Completed An online course on "Effective use of IT for Professional Activities", Sep. 06, 2018 to Nov. 11, 2018, Under College TO Corporate program, an initiative of IITB.

Completed One week workshop on " Practical RF/Microwave Active Circuit Design" during Jan. 2-6,

2019 at Bits Pilani, Hyderabad.

Completed NPTEL online certification on "Introduction to Research". Aug-Oct 2019 (8 weeks), organized by IIT Madras.

Completed One week online STTP on "Sensor, IoT & Machine Learning", 1st June 2020 to 5th June 2020 conducted by K. J. Somaiya College of Engineering, Vidyavihar, Mumbai.

Completed Two day webinar on "Antenna Designing and Troubleshooting using CST Studio Suite", June 16-17, 2020, conducted by Dept. of Electronics & Communication Engineering, Graphic Era (Deemed to be University), Dehradun in association with Jyoti Electronics, Ahmedabad.

Completed Two day webinar on "Design and simulation of RF modules using CST studio suite 2020.06", July 25-26, 2020, organized by Dept. of Electronics & Telecommunication Engineering, St. Francis institute of technology, Borivali, Mumbai.

Completed AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-12-7 to 2020-12-11 at SRM INSTITUTE OF SCIENCE AND TECHNOLOGY.

Completed One week faculty development on "Research and Application perspective of artificial intelligence", Dec 21-25, 2020, organized by Dept. of Electronics & Telecommunication Engineering, VIIT, Pune.

Completed an online course on "Cloud computing Basics (Cloud 101) ", Sept. 23, 2022, authorized by LearnQuest, Coursera online certification program.

Completed an online course on "Introduction to Virtual Reality ", Oct. 13, 2022, authorized by University of London, Goldsmiths, Coursera online certification program.

Completed one week offline workshop on "Sustainable Research and Development", Jan 2–6, 2024, organized by the Department of Mechanical Engineering, K J Somaiya College of Engineering, Mumbai, in association with IQAC, SVU (sponsored by the Department of Science and Technology).

Attended Workshop on "Capacity Building in Quantum Technologies", Jun 22, 2024, organized by I-HUB Quantum Technology Foundation (I-HUB QTF) at IISER Pune, confirmed via official email communication.

Completed "Unity for Absolute Beginners Getting Started", Aug 31, 2023, an online non-credit project authorized by Coursera Project Network, offered through Coursera.

Participated in the Faculty Enrichment Program, Feb 27, 2024, organized by LTIMindtree Limited, Mumbai.

Completed ISTE approved Faculty Development Program on "Trends and Advances in Technologies for Wireless Communication", Jul 8–12, 2024, organized by K J Somaiya College of Engineering, Mumbai, Maharashtra.

Completed one week ISTE approved Faculty Development Program on "Transforming Ideas into RF Reality: Simulation-driven Design and Testing for Antenna and RF Components", Dec 16–20, 2024, organized by the Department of Electronics and Telecommunication Engineering & IQAC KJSSE, supported by IQAC SVU, K J Somaiya School of Engineering, Mumbai, in association with Entuple Technologies Pvt. Ltd., Bangalore.

Completed online non-credit course on "AI in Education: Leveraging ChatGPT for Teaching", Feb 25, 2025, authorized by University of Pennsylvania (Wharton School) and offered through Coursera.

Completed online course on "Generative AI in Education", Feb 28, 2025, authorized by University of Glasgow, offered through Coursera.

Completed online course on "Data Science Orientation", Jul 4, 2025, issued by Coursera (IBM Data Science).

Participated in two days offline Faculty Development Program (FDP) on "Foundations of Quantum Computing", Jul 8–9, 2025, organized by the Department of Electronics Engineering and Department of Science & Humanities, in association with IQAC, K J Somaiya School of Engineering, Somaiya Vidyavihar University, Mumbai.

Completed One-week ISTE approved Short Term Training Program on "Quantum Computing: From Fundamentals to Applications", Dec 15–19, 2025, conducted by Faculty & Staff Development Centre, in collaboration with the Department of Science and Humanities, K J Somaiya School of Engineering, Somaiya Vidyavihar University, Mumbai.

Completed Offline Faculty Development Program (FDP) on "Cadence Tools: Virtuoso & Verilog Design Flow", Dec 1–5, 2025, conducted by the Faculty & Staff Development Centre, in collaboration with the Department of Electronics Engineering, K J Somaiya School of Engineering, and Chip to Startup (C2S), Somaiya Vidyavihar University, Mumbai.

Organized:
Organized ISTE approved Short Term Training Program on "Advances in Antenna and RFIC/MMIC Design" during 24-28 June, 2013, at K. J. Somaiya College of Engineering, Mumbai -77.

Organized A Webinar on "METAVERSE: THE NEXT DIGITAL DIMENSION", April 30, 2022, in association with the ISTE Teachers chapter of K J Somaiya College of Engineering at Somaiya Vidyavihar University, Mumbai.

Organized one week ISTE approved STTP on " Internet of things: Multidisciplinary Approach for Future Innovations", Jan 02 – 06, 2023, in association with Department of EXTC, ISTE faculty chapter and IQAC-KJSCE at K. J. Somaiya college of Engineering.

Organizing committee member and technical expert for one week ISTE FDP on "Transforming Ideas into RF Reality: Simulation-driven Design and Testing for Antenna and RF Components", Dec 16–20, 2024, organized by the Department of Electronics and Telecommunication Engineering & IQAC KJSSE, supported by IQAC SVU, K J Somaiya School of Engineering, Mumbai, in association with Entuple Technologies Pvt. Ltd., Bangalore.

Notable Positions and Responsibility	
1.	MTech Coordinator of EXTC Dept.
2.	UG Project Coordinator

Date: 15 / 01 / 2026   **Signature of Faculty Member**