

## Curriculum Vitae

**Name:** Mrs. Shilpa Jitendra Nandedkar  
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**Mobile:** 9423343855  
**Date of Birth:** 31/01/1978



### Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Communication	MIT	Dr. B.A.M.U		Pursing	
M.E./ M. Tech.	Electronics	Govt College of Engineering Aurangabad	Dr. B.A.M.U	2010	8.458	<i>Dist</i>
B.E./B.Tech.	ETC	STBCE T	Dr. B.A.M.U	2000	65.33	First

**M. Tech. Project:** Audio Processing (Analysis and synthesis of vowels using Matlab)

**Ph. D. Research:** Massive MIMO array Antenna

**Key Research Areas:** Antenna, Wireless Communication

### Experience

Sr. No.	Organization	Post	From	To	No. of Years
1	MIT Aurangabad	Assistant Professor	22/07/2003 to date		18

### List of Courses Taught/Teaching at UG level

1. Antenna Radiating System
2. Microwave Theory and Techniques
3. Digital Communication
4. Information theory and coding
5. Electronics devices and circuits
6. Control system

### List of Courses Taught/Teaching at PG level

1. Wireless and Mobile Communication
2. Advanced Satellite and Radar Communication
3. Advanced Digital Communication systems

### Additional Assignments/Duties

- Worked as an External and internal auditor for academic and administration.

- Working as a department NBA coordinator since 2013.
- Worked as a department NAAC coordinator for 2017-18.
- Working as a Lab In-charge of communication Lab since 2006.
- Working as a criteria 2 coordinators for NAAC.
- Working as a criteria 3 coordinators for NBA
- Worked as a DSU admission member for 2021-22.

### **Membership of Professional Bodies**

- IETE
- ISTE
- IEEE

### **Research Projects/Projects Guided**

- Guided M.Tech project on “MPLS-VPN implementation in a corporate environment”(Ms. Shradha Khandare).2018-19.
- Guided M.Tech project on “Real-time water quality measurement system”(Ms. Priyanka Bande).2016-17.

### **Computer/Software Proficiency**

- EM simulator CST
- Matlab
- HFSS
- CAD FEKO

### **Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference Attended**

- Attended a workshop on “Linux: Systems and Network Administration at MIT Aurangabad on 5<sup>th</sup> to 6<sup>th</sup> January 2005.
- Attended a three-day workshop on “Microcontroller Design & Development tools at Sinhgad College of Engineering, Pune on 7<sup>th</sup> to 9<sup>th</sup> July 2005.
- Attended a workshop on “Embedded Systems and RTOS” at Govt. College of Engineering on 30<sup>th</sup> September 2005.
- Attended an STTP on “Implementation of Digital Designs on FPGA Device” at MIT Aurangabad from 3<sup>rd</sup> to 5<sup>th</sup> January 2008.
- Attended a workshop on “Embedded Systems and Robotics at Dr.Babasaheb Ambedkar Marathwada University, Aurangabad from 24<sup>th</sup> to 25<sup>th</sup> March 2008
- Attended an STTP on “Application of DSP in Advanced Communication” at Hi-Tech College of Engineering, Aurangabad from 23<sup>rd</sup> to 27<sup>th</sup> November 2009.
- Attended a one-day workshop on “Effective Research Methodology” at MIT Aurangabad on 7<sup>th</sup> February 2010.
- Attended a one-day workshop on the “CGPA system” at MIT Aurangabad on 5<sup>th</sup> November 2011.
- Attended a two-day workshop on “Matlab and its application” at Pune on 9<sup>th</sup> and 10<sup>th</sup> March 2011.
- Attended a two-day workshop on “Labview Programming” at MIT on 17<sup>th</sup> and 18<sup>th</sup> November 2011.
- Attended a two-week workshop on “Electronics (PCB) Design, Manufacturing, and Product Design “at NIELIT Aurangabad from 23<sup>rd</sup> January to 3<sup>rd</sup> February 8, 2012.

- Attended an STTP on “Emerging Trends in Microwave and Microstrip Devices” at MIT College of Engineering, Aurangabad from 7<sup>th</sup> to 11<sup>th</sup> May 2012.
- Attended an STTP on “Advances in Antenna & RFIC/MMIC Design” at K. J. Somaiya College of Engineering, Mumbai from 24<sup>th</sup> to 28<sup>th</sup> June 2013.
- Attended a one-day workshop on “outcome-based Education” at MIT Aurangabad held on 27<sup>th</sup> September 2014.
- Attended a two-day state-level workshop on “Exploring the world of Electromagnetic” at ICEEM, Aurangabad on 16<sup>th</sup> and 17<sup>th</sup> Jan 2015.
- Attended a two-day workshop on “Recent Advances in wireless communication and antenna design” at Pravara Rural Engineering College, Loni on 18<sup>th</sup> and 19<sup>th</sup> March 2016.
- Attended a one-week STTP on “Implementation of IoT using Raspberry Pi and Arduino” at MIT Aurangabad held from 27<sup>th</sup> June to 2<sup>nd</sup> July 2017.
- Attended a lecture on “Wireless Communication” at MIT Aurangabad held on 1<sup>st</sup> - 2<sup>nd</sup> Sep 2017.
- Attended a two-day national level workshop on “Antenna for Modern wireless communication” at AISSMS, IOTI PUNE held on 1<sup>st</sup> and 2<sup>nd</sup> February 2018.
- Attended a one-week FDP on “Recent trends in Electromagnetic RF and Radar signal processing at GECA Aurangabad (TEQUIP) held on 11<sup>th</sup> -15<sup>th</sup> June 2018.
- Attended an FDP on “Data Science” at MIT Aurangabad held from 24<sup>th</sup> to 30<sup>th</sup> June 2019.
- Attended a webinar on “Impact of Global Pandemic on Engineering” organized by G.S. Mandal’s Maharashtra Institute of Technology, Aurangabad on 06<sup>th</sup> May 2020.
- Attended Online Training Program on OPTIMIZATION OF MICROSTRIP ANTENNA USING HFSS by IEEE Bangalore conducted on 08 & 09 May 2020.
- Attended Online Training Program on ARRAY ANTENNA DESIGN USING HFSS by IEEE Bangalore conducted on 12 & 13 May 2020.
- Attended a webinar organized by IEEE STANDARDS ASSOCIATION & MHRD PMMMNMTT FDC, Shivaji University, Kolhapur on “IEEE 802.11 and Building Wireless Community Networks”, held on 22<sup>nd</sup> May 2020.
- Attended one-week online Faculty development program on “Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19” organized by Department of Electronics Engineering in association with Institution’s Innovation Council (IIC) of Vivekanand Education Society's Institute of Technology from 25<sup>th</sup> to 30<sup>th</sup> May 2020.
- Attended Yog Pravesh Online Workshop Jointly organized by Jirwankar Hospital and Sanskrit Department, Dr. Babasaheb Ambedkar Marathwada University Aurangabad from 3<sup>rd</sup> June to 7<sup>th</sup> June 2020.
- Attended one-week online Faculty development program on “Antenna Design and Troubleshooting” organized by Department of ETC Pallia college of Engineering Panvel and IEEE Bombay section from 3<sup>rd</sup> June to 7<sup>th</sup> June 2020.
- Attended International Technical Symposium on “Opportunities & Challenges in Industry 4.0” organized by Industry cell, ETC department of MIT Aurangabad from 15<sup>th</sup> June to 17<sup>th</sup> June 2020.
- Attended a webinar on “Electronics in Smart city”, organized by Shri Tuljabhavani college of Engineering Tuljapur, on 19<sup>th</sup> June 2020.
- Attended a two-week online Faculty development program on “Effective use of ICT tools in online teaching” organized by IQAC, ETC department of MIT Aurangabad from 22<sup>nd</sup> June to 4<sup>th</sup> July 2020.

- Attended one-week AICTE MHRD sponsored online STTP on “Design and simulation of Miniature antenna for IOT application” organized by MVGR college of Engineering Vizianagaram from 29<sup>th</sup> June to 4<sup>th</sup> July 2020.
- Attended workshop on “Advances in Planar antenna design using CST Microwave studio” organized by SRM TRP engineering college, Tiruchirappalli on 13<sup>th</sup> July 2020.
- Attended a two-day webinar on “Antenna Concepts for Biomedical Applications using CST Studio Suite 2020.06” during 16th-17th, July 2020.
- Attended a national Webinar on “**Simulation of MIMO Antennas on CST**” conducted by the Dept. of Electronics and Telecomm. Engineering, Jabalpur Engineering College, Jabalpur under the Activity of Technical Education Quality Improvement Programme – III (TEQIP – III), on 17<sup>th</sup> August 2020
- Attended a one-week AICTE sponsored online STTP on “Antenna Design and Analysis using Mathematical Solvers” organized by Aditya Institute of Technology and Management Tekkali, AP, from 29<sup>th</sup> Oct to 3<sup>rd</sup> Nov 2020.
- Attended an IEEE workshop on “Microwave and Antenna Applications in 5G” jointly organized by AP-MTT chapter Bangalore and IEEE Bangalore section from 8<sup>th</sup> Dec to 13<sup>th</sup> Dec 2020.
- Attended a five-day online STTP on “Evolution of RF electromagnetics from microwave to MMwave Technologies” organized by CoE- CNDS, VJTI Mumbai from 19<sup>th</sup> Dec to 23<sup>rd</sup> Dec 2020.
- Attended a One-week international workshop on “MIMO and beamforming Antennas for wireless and Satellite Application” organized by IEEE Delhi Section Antenna & Propagation Society (APS) Chapter – Jaipur *in association with IEEE Young Professionals Affinity Group, Bangalore Section* from 26<sup>th</sup> April to 30<sup>th</sup> April 2021.
- Attended an online webinar on “**Basic Yoga in this COVID Situation**” by Dr. Uttam Kalwane (Bharatiya Yog Sansthan) organized by the Civil Engineering Department, Maharashtra Institute of Technology Aurangabad, and Association of Civil Engineers (Practicing) ACEP Aurangabad on April 19, 2021.
- Attended a two-day education summit on outcome-based Education (OBE) and National Assessment and Accreditation Council (NAAC) organized by Mastersoft India in association with MIT Aurangabad on 14<sup>th</sup> and 15<sup>th</sup> May 2021.
- Attended a webinar on “IQAC Coordinators Meet” organized by Mastersoft ERP solution Pvt. Ltd. Nagpur on 18<sup>th</sup> May 2021.
- Attended AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Modern Antenna Technologies for Futuristic Wireless Communication Systems" from 20/08/2021 to 24/08/2021 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana-125001.

- Attended AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Smart City Technologies" from 20/09/2021 to 24/09/2021 at Gurukul Kangri Vishwavidyalaya.
- Participated AI for all program and completed the AI Aware and AI Appreciate stage on 31/12/2021.

#### **Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized.**

- A two-Day Workshop on "MATLAB and its Application" on 12<sup>th</sup> and 13<sup>th</sup> February 2009.
- A four Day Workshop on "Embedded Systems" from 26<sup>th</sup> to 29<sup>th</sup> March 2009.
- A one-day workshop on "Circuit Simulation software (ORCAD and PSpice)" on 19<sup>th</sup> September 2009.
- A STTP on "Digital Image Processing using Matlab" from 15<sup>th</sup> -19<sup>th</sup> June 2010.
- A one-day workshop on "Antenna Design" for the student on 1<sup>st</sup> September 2012.
- Arranged seminar on "Effective Communication and Soft skills" for third- and second-year students held on 08/08/2014
- Arranged a technical talk on "Fiber Optic Communication" for final year students held on 30/08/2014
- A one-day workshop on "Amateur Radio High-Frequency Transceiver" for third and final year students on 26<sup>th</sup> September 2014.
- Coordinate a two-day national level workshop on "Research Methodology" held on 13<sup>th</sup> and 14<sup>th</sup> March 2015.
- Arranged a one-day workshop on "Antenna fabrication testing and Link Budget" for third-year students on 19<sup>th</sup> Feb 2016.
- Worked as session co-chair in an international conference on "Digital signal and image processing" held on 7<sup>th</sup> -8<sup>th</sup> March 2017.
- Worked as a session coordinator in IEEE conference on "Applied Electromagnetics AEMC 2017" held on 19<sup>th</sup> -22<sup>nd</sup> Dec 2017.
- Coordinated one-week STTP on "OBE and NBA process" held on 9<sup>th</sup> July -14<sup>th</sup> July 2018.
- Arranged 15 industrial visits.
- Organised a Poster Presentation Competition on "Radiation Hazards", in **antenna club held on 24<sup>th</sup> August 2019.**
- Organized an Expert talk on "Smart City" for TY (all) ETC students held on 07<sup>th</sup> March 2020.
- Organized an Expert talk webinar on "Antenna and its applications" for BTech ETC students held on 11<sup>th</sup> Dec 2020.
- Coordinated a Panel Discussion on "Atmanirbhar Bharat: vocal for local make for the world." Held on 16<sup>th</sup> Jan 2021.
- Organized a webinar on "Smart city mission and its scope" for the Smart city students on 29<sup>th</sup> May 2021.
- Organised a webinar on "Career Opportunities in Defence" on 11<sup>th</sup> Dec 2021.

#### **List of Research Publications**

##### **Papers in National/ International Journal**

##### **Papers in International Journal**

1. "Review on Visible Light Communication for wireless data transmission" in International Journal of Innovative Research in Computer and Communication Engineering, e-ISSN: 2320-9801, Volume 9, Issue 12, December 2021.
2. "A Survey: A Mobile Greenhouse Environment Monitoring System Based on The Internet of Things" in International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 11 | Nov 2021.
3. "Design and Performance Analysis of Linear Array", in international research Journal of Engineering and Technology, 4 April 2020. **e-ISSN: 2395-0056 p-ISSN: 2395-0072**
4. "Performance analysis of MPLS-VPN and traditional IP network", International Research Journal of Engineering and Technology, Volume: 06 Issue: 4. 4 April 2019.
5. "MPLS-VPN implement incorporate Environment", International Journal for scientific research and development vol. 7, Issue 01, 2019.
6. "A Survey of Water Quality Measurement Sensors ", International Journal of Research in Engineering and Technology, Volume: 05 Issue: 06 | June-2016.
7. "Low-Cost Sensor Network for Real-Time Water Quality Measurement System" International Journal of Innovative Research in Science, Engineering and Technology Vol. 5, Issue 12, December 2016.

### Papers in National /International Conference Proceedings

#### Papers in International Conference Proceedings

- "Parametric study of electromagnetic coupled MSA array for PAN devices" in an international conference on Computing in Engineering and Technology (ICCET 2021) held by the Department of ETC at Dr. Babasaheb Ambedkar Technological University, during 30-31 Jan 2021. <https://www.springer.com/in/book/9789811620072>
- "Comparison of feeding techniques for EMCP array antenna", in 3<sup>rd</sup> international conference on Emerging Smart computing and informatics (IEEE-ESCI-2021) organized by AISSMS Pune during 5<sup>th</sup> -7<sup>th</sup> March 2021. <https://doi.org/10.1109/ESCI50559.2021.9396967>
- "Energy Efficient mapping scheduling for DVS enabled Distributed Embedded system ", in International Technical Symposium at MIT Aurangabad. (2006)

#### Papers in National Conference Proceedings

- "Wireless Networking –Blue Tooth ", in Surname, Initials (Ed.), National Conference on "Advances in Electronics and Telecommunication Engg" on 25<sup>th</sup> and 26<sup>th</sup> February 2005 at College of Engg, Osmanabad.

Book Chapter:

Publication Type	Title of Book	Publisher Details	Book ISSN/ISBN	Published Year	Sole/ Co-author
Book chapter <a href="https://doi.org/10.1007/978-981-16-2008-9">https://doi.org/10.1007/978-981-16-2008-9</a> Parametric Study of Electromagnetic coupled	Applied Information processing system	Springer Volume 1354	ISSN 2194-5357 ISSN 2194-5365 (electronic) ISBN 978-981-16-2007-2	2020-21	Sole

MSA Array for PAN Devices with RF Survey			ISBN 978-981-16-2008-9 (eBook)		
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### NPTEL Certification

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance
Jan	April 2017	12Week	Antenna	84	Elite Mentor
July	Oct 2018	12Week	Microwave Theory and Techniques	76	Elite
Feb	March 2019	4 Week	Teaching and learning in Engineering TALE	80	Elite with silver Medal
Feb	April 2019	8 Week	Introduction to research	70	Elite
July	sept20 19	8 Week	TALE-2 course Design and instruction of engineering course	77	Elite with silver Medal
Jan	April 2020	12 Week	NATE-NBA Accreditation and Teaching-learning in Engineering	83	January 2021

### Awards, Achievements, and Recognition

- Recognition as a Mentor in the subject of “Antenna” in 2017.
- Recognition as a P.G. Teacher in the subject **Electronics Engineering** under the faculty of **Science and Technology**.
- **Best paper session award in 3<sup>rd</sup> International conference on Emerging Smart computing and informatics (IEEE-ESCI-2021) organized by AISSMS Pune during 5<sup>th</sup> -7<sup>th</sup> March 2021.**

Date: 11/05/2022

Place: Aurangabad