

Curriculum Vitae

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

- Attended an STTP on “Emerging Trends in Microwave and Microstrip Devices” at MIT College of Engineering, Aurangabad from 7th to 11th May 2012.
- Attended an STTP on “Advances in Antenna & RFIC/MMIC Design” at K. J. Somaiya College of Engineering, Mumbai from 24th to 28th June 2013.
- Attended a one-day workshop on “outcome-based Education” at MIT Aurangabad held on 27th September 2014.
- Attended a two-day state-level workshop on “Exploring the world of Electromagnetic” at ICEEM, Aurangabad on 16th and 17th Jan 2015.
- Attended a two-day workshop on “Recent Advances in wireless communication and antenna design” at Pravara Rural Engineering College, Loni on 18th and 19th March 2016.
- Attended a one-week STTP on “Implementation of IoT using Raspberry Pi and Arduino” at MIT Aurangabad held from 27th June to 2nd July 2017.
- Attended a lecture on “Wireless Communication” at MIT Aurangabad held on 1st - 2nd Sep 2017.
- Attended a two-day national level workshop on “Antenna for Modern wireless communication” at AISSMS, IOTI PUNE held on 1st and 2nd February 2018.
- Attended a one-week FDP on “Recent trends in Electromagnetic RF and Radar signal processing at GECA Aurangabad (TEQUIP) held on 11th -15th June 2018.
- Attended an FDP on “Data Science” at MIT Aurangabad held from 24th to 30th June 2019.
- Attended a webinar on “Impact of Global Pandemic on Engineering” organized by G.S. Mandal’s Maharashtra Institute of Technology, Aurangabad on 06th 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 22nd 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 25th to 30th May 2020.
- Attended Yog Pravesh Online Workshop Jointly organized by Jirwankar Hospital and Sanskrit Department, Dr. Babasaheb Ambedkar Marathwada University Aurangabad from 3rd June to 7th 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 3rd June to 7th June 2020.
- Attended International Technical Symposium on “Opportunities & Challenges in Industry 4.0” organized by Industry cell, ETC department of MIT Aurangabad from 15th June to 17th June 2020.
- Attended a webinar on “Electronics in Smart city”, organized by Shri Tuljabhavani college of Engineering Tuljapur, on 19th 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 22nd June to 4th 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 29th June to 4th July 2020.
- Attended workshop on “Advances in Planar antenna design using CST Microwave studio” organized by SRM TRP engineering college, Tiruchirappalli on 13th 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 17th 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 29th Oct to 3rd 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 8th Dec to 13th 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 19th Dec to 23rd 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 26th April to 30th 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 14th and 15th May 2021.
- Attended a webinar on “IQAC Coordinators Meet” organized by Mastersoft ERP solution Pvt. Ltd. Nagpur on 18th 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 12th and 13th February 2009.
- A four Day Workshop on "Embedded Systems" from 26th to 29th March 2009.
- A one-day workshop on "Circuit Simulation software (ORCAD and PSpice)" on 19th September 2009.
- A STTP on "Digital Image Processing using Matlab" from 15th -19th June 2010.
- A one-day workshop on "Antenna Design" for the student on 1st 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 26th September 2014.
- Coordinate a two-day national level workshop on "Research Methodology" held on 13th and 14th March 2015.
- Arranged a one-day workshop on "Antenna fabrication testing and Link Budget" for third-year students on 19th Feb 2016.
- Worked as session co-chair in an international conference on "Digital signal and image processing" held on 7th -8th March 2017.
- Worked as a session coordinator in IEEE conference on "Applied Electromagnetics AEMC 2017" held on 19th -22nd Dec 2017.
- Coordinated one-week STTP on "OBE and NBA process" held on 9th July -14th July 2018.
- Arranged 15 industrial visits.
- Organised a Poster Presentation Competition on "Radiation Hazards", in **antenna club held on 24th August 2019.**
- Organized an Expert talk on "Smart City" for TY (all) ETC students held on 07th March 2020.
- Organized an Expert talk webinar on "Antenna and its applications" for BTech ETC students held on 11th Dec 2020.
- Coordinated a Panel Discussion on "Atmanirbhar Bharat: vocal for local make for the world." Held on 16th Jan 2021.
- Organized a webinar on "Smart city mission and its scope" for the Smart city students on 29th May 2021.
- Organised a webinar on "Career Opportunities in Defence" on 11th 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 3rd international conference on Emerging Smart computing and informatics (IEEE-ESCI-2021) organized by AISSMS Pune during 5th -7th 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 25th and 26th 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 https://doi.org/10.1007/978-981-16-2008-9 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 3rd International conference on Emerging Smart computing and informatics (IEEE-ESCI-2021) organized by AISSMS Pune during 5th -7th March 2021.**

Date: 11/05/2022

Place: Aurangabad