Curriculum Vitae

Name: Dr. Abhilasha Deven Mishra

Address: 1, AbhiShilp, Sundar Residency, Kehshav Nagri,

Opposite Chanakyapuri, Aurangabad (MS) India 431005

E-mail: abhilasha.mishra@mit.asia, abbhilasha@gmail.com

Mobile: +91 9881681168

Date of Birth: 29th Aug 1972

Academic Credentials

Class/Degree	Specialization	Institution	University	Year	%/CGPA	Remarks
Ph.D.	Electronics Engineering	NMU, Jalgaon, MS	Kavayitri Bahinabai Chaudhari NMU, Jalgaon, MS	Aug 2013	-	*Awarded*
M.E.	Electronics Engineering	Government Engineering College, Aurangabad, MS	Dr. BAMU, Aurangabad, MS	Aug 2000	65	First Class
B.E.	Electronics Engineering	MPIET Gondia, MS	Nagpur University, MS	Aug 1993	64.32	First Class

Expertise

Teaching experience of Antenna Theory at UG & PG level and working as a group leader on metamaterial applications in the domain of antenna. Having experience of antenna design by using the software HFSS. Research experience of 20 years in the patch antenna design, where different shapes of antennas , array antennas by using different techniques have been designed and tested the results successfully.

M. Tech. Project: Automisation of Slotline Measurement of VSWR

Ph. D. Research: Modelling & Simulation of Wideband Microstrip Patch Antenna for Mobile Communication

Key Research Areas:

- Printed Antennas
- UWB Antennas
- EBG Structured Antennas

- Image Processing
- Remote Sensing
- Machine Learning

Experience

Sr. No.	Organization	Post	From To	No. of Years
1	Manoharbhai Patel Institute of Engineering & Technology, Gondia	Lecturer	13/9/93-30/4/94 & 18/8/94-31/12/94	1 year
2	MIT,Aurangabad	Lecturer	26/7/95-15/7/96	1 year
3	JNEC, Auarangabd	Assistant Prof.	1/8/05-30/4/06	0.9 months
4	Deogiri Institute of Engineering & Management Studies, Aurangabad	Assistant Prof.	14/6/10-1/4/11	10 months
5	MIT(E), Aurangabad	Assistant Prof.	28/7/11-31/8/13	2.1 years
6	MIT(E), Aurangabad	Associate Prof.	1/9/13-31/12/16	3 years
7.	MIT(E), Aurangabad	Head ECE II Shift	1/1/15-1/7/16	
8	MIT(T), Aurangabad	Associate Prof.	13/7/16- 12/7/21	5 years
9	MIT(T), Aurangabad	Associate Prof. & Head	13/7/21-till date	3 months & continued

List of Courses Taught/Teaching

List of Courses Taught/Teaching at UG level

Taught/Teaching the following courses at UG level at Maharashtra Institute of Technology
Theory
- Digital Signal Processing (ETC 304)
- Signals & Systems (ETC 252)

Labs
- Digital Signal Processing (ETC 323)
- Signals & Systems (ETC 274)

List of Courses Taught/Teaching at PG level

Taught/Teaching the following courses at UG level at Maharashtra Institute of Technology

- Wave Propagation and Antenna Theory(EL-I) (MTE641C)
- Advanced Optimization Techniques (MT0651)

Taught the following courses at UG level at Marathwada Institute of Technology

- Control System
- Linear Integrated Circuits
- Computer Networks
- Signals & Systems
- Digital Signal Processing

Taught the following courses at PG level at Marathwada Institute of Technology
- Advanced Digital Signal Processing
- Antenna Theory
- Optimization Techniques
- System Labs

Additional Assignments/Duties

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- Worked as a BoS (Board of Studies) member for Electronics Engineering 2019-20
- Working as a BoS (Board of Studies) member for Electronics Engineering 2020-21

Maharashtra Institute of Technology, Aurangabad
- Working as **Head of the Department of E&TC** from June 2021 till date.
- Working as a **Regional Coordinator of V Labs of Marathwada Region RCID- 03** from July 2017 till Date (Appointed by IIT Bombay & MIT)
- Worked as a **National Innovation & Start up Policy In-Charge** of the Institute from June 2020 till Dec 2020.
- Worked as a **EDC Cell In-charge** of Maharashtra Institute of Technology from 2018 Aug 2020.
- Working as a **IEEE Student Branch Councilor STB 10074** of Maharashtra Institute of Technology **MIT BTech 60116425** from 2017 till date
- Worked as a coordinator for NBA **Criteria 9.6, Entrepreneurship Cell**
- Worked as a coordinator for **NAAC Criteria 7**, **Best Practices**
- Worked as a **Central Coordinator for M. Tech** from July 2016-17 to 2017-18
- Worked as a **Nodal Coordinator of Virtual Lab Nodal Centre**-VLNC45 (In association with IIT Bombay) Aug 2016 to July 2017

Marathwada Institute of Technology, Aurangabad

- Worked as a **Head of ECE Department** (II Shift) from 2014 till July 2016
- Worked as a member of **Appraisal Form Committee**
- Worked as a **Member of IQAC, Internal Quality Assuarance Cell** of the Institute.
- Worked as a **Member of Program Assessment Commitee**, ECE Department,
- Worked as a **Class Teacher BE B**
- Worked as a Coordinator of **VLab Centre Nodal Centre16**
  (In association with IIT Bombay)
- Worked as a **Nodal Coordinator Virtual Lab/Research Lab 313, MIT(E)**

Membership of Professional Bodies

- IEEE Senior Member (924-357-28)
- IETE Fellow Membership F No. (236-021)
- IETA Honorary Membership Individual (II/19Sept/5562)
- IAENG Membership (257011)

Research Projects/Projects Guided

- Developed a project **Smart Sterilizer Box for Mask and PPE Kits** along with Mr. Nitin Mane funded by IEEE under (R10-HTA-008) in response to the IEEE Region 10 & IEEE HAC Special Call for Proposals: Addressing Local Needs During COVID Time on 31st Dec 2021. The project is allotted for the 6 months duration from 15th July 2021 to 31st December 2021 and received a funding of 400USD from IEEE USA.
- Design and Characterization of a Reverberation Chamber (DRDO's Project)
- Design of Stepped Impedance Low Pass Filters for Wireless Application. (Collaborative project with Physics Department of Dr BAMU, Aurangabad)
- Design of Fractal Bow-Tie Array Antenna for WLAN Application with DGS

Computer/Software Proficiency

- MATLAB: Signal & Image Processing, Optimization
- IE3D: Antenna Designing
- HFSS: Antenna Designing
- CAD FEKO: Antenna Designing

- SCILAB: Signal & Image Processing, Communication
- Python

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

- **Reviewed** the papers of **IEEE ICCSEA 2022** Second International Conference on Computer Science, Engineering and Applications, Technically Co-Sponsored by IEEE Kolkata Section & IEEE Bhubaneswar Subsection, IEEE Conference Record No.:54677

- Reviewer of **IEEE Antenna & Propagation Society**

- Participated in a Panel Discussion on account of **Teacher's Day Celebration** on 5th Sep 2021 organized by IEEE Bombay Section.

- Attended a AICTE Recognized Faculty Development Program on **Deep Learning** organized by Department of CSE, NITTTR, Chandigarh in online mode by the Ministry of Human Resource Development, Government of India, during 23rd -27th Aug 2021

- Attended two days IEEE MTT-S Women in Microwaves Colloquium on **Recent Trends, Techniques & Career Opportunities on Microwave and Millimeter-Wave Technologies, Antennas and Applications,** on July 17- July 18, 2021 organized by IEEE MTT-S Kerala Chapter, IEEE MTT-S WiM, IEEE AP-S Sight Committee and IEEE MTT-S And AP-S SB Chapters of GEC Barton Hill

- Attended a Faculty Development Program on **Deep Learning and Machine Learning Applications in Computer Vision** organized by Department of CSE, Guru Ghasidas Vishwavidyalaya, Koni Bilaspur (C. G.) under Electronics and ICT Academy, NIT Patna, in online mode under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" by the Ministry of Electronics and Information Technology (MeitY), Government of India, during 22nd - 28th August, 2020.

- Attended a Faculty Development Program on **Effective Proposal Writing for Research and Funding** organized by Department of Electronics & Telecommunication Engineering In association with IEEE Women in Engineering, Sandip Institute of Technology & Research Centre, Nashik during 13th May to 18th May 2020.

- Attended a Faculty Development Program on **Data Science** organized by faculty Development Centre in Cyber Security and Data Sciences, Shivaji University, Kolhapur, hosted by Maharashtra Institute of Technology, Aurangabad conducted by FDC PMMMNMTT, during 24th June-30th June 2019

- Attended a STTP on **National level Boot Camp on Virtual Lab Development & Certification Programme** organized by Maharashtra Institute of Technology in association with IIT Bombay & Marathwada Institute of Technology, Aurangabad during 6th to 11th Feb 2019

- Participated in IEEE WIE Leadership Summit, on 30 & 31 Aug 2019 organized by IEEE Banglore Section at Sterling's Mac Hotel from IEEE SB Maharashtra Institute

- Presented a paper in **3rd International Conference on Information And Communication Technology For Intelligent Systems**, 6-7 April,2018

- Participated in a workshop on **Advanced Antenna Technology** in **IEEE Applied Electromagnetics Conference 2017** organized by Maharashtra institute of Technology in association with IEEE AP-MTT Kolkata Chapter 19-22 Dec 2017

- Attended a state level workshop on **Exploring the World of Electromagnetics** on 16th & 17th Jan 2015 at ICEEM, Aurangabad.

- Participated in national workshop on **Microwave Remote Sensing** organized by Srinivasa Ramanujan Geospatial Chair, Department of Computer Science & IT, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held during Jan 22nd – 24th 2014

- Attended a workshop on **Outcome Based Education (OBE)** held on 27th Sep 2014 organized by Mechanical Engineering Department, Maharashtra Institute of Technology.

- Participated in a workshop on **Advanced Antenna Technology** in IEEE Indian Antenna Week , organized by Marathwada Institute of Technology, Aurangabad during 3rd June to 7th June 2013.

- Participated in a workshop on **Virtual Labs at IIT Delhi** on 8th March 2013

- Participated in a workshop on **Advanced Antenna Technology** in IEEE Indian Antenna Week , organized by IEEE AP-MTT Kolkata Chapter in association with UGC Networking Resource Centre in Physical Sciences, University of Calcutta, May 27-31, 2012, Hotel Royal Plaza, Gangtok, Sikkim

- Attended the STTP on **Emerging Trends in Microwave & Microstrip Devices** on 7th May to 11th May 2012 organized by Department of Electronics & Communication Engineering, Marathwada Institute of Technology, Aurangabad

- Attended the workshop on **Latex** by organized by Maharashtra Institute of Technology, Aurangabad on 17th Nov 2011

- Presented a paper in **IEEE Applied Electromagnetics Conference, Kolkata, 2011**

- Presented a paper in **IEEE Applied Electromagnetics Conference, Kolkata, 2009**

- Attended the tutorial session on **Radar & Remote Sensing** organized by department of Physics, University of Rajsthan, Jaipur on 21st Nov 2008 in **International Conference on Recent Advances in Microwave Theory and Application**
- Presented a paper in **International Conference on Recent Advances in Microwave Theory and Applications, Microwave 2008, Jaipur**
- Attended a National Workshop on Emerging Trends in Advanced Computing (ERTAC 2007) organized by Department of Computer Science, North Maharashtra University, Jalgaon on 14th -15th July 2007.

Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized

- Chaired the Session in IEEE MTT-S Women in Microwaves Colloquium on **Recent Trends, Techniques & Career Opportunities on Microwave and Millimeter-Wave Technologies, Antennas and Applications,** on July 18, 2021 organized by IEEE MTT-S Kerala Chapter, IEEE MTT-S WiM, IEEE AP-S Sight Committee and IEEE MTT-S And AP-S SB Chapters of GEC Barton Hill. The talk was delivered by **Dr. Sophia Rahiminijad, JPL NASA, USA on Silicon RF-MEMS For THz Space Applications**
- Organized a two days webinar on **Antenna Concepts for Biomedical Applications using CST Studio Suite 2020.06** on 16-17 July 2020 in association with MIT(T), CST Studio, MCOE, Nashik & Jyoti Electronics, Ahemdabad.
- Organized a workshop on **Entrepreneurship Awareness Generation Program** at Mahashtra Institute of Technology on 26th & 27th Feb 2020 by the mentors of Bajaj Auto-Bhartiya Yuva Shakti Trust, Aurangaba Chapter.
- Organized a workshop on **Amazon Alexa** by **Hannan Satopay, Bombay** in association with IEEE Bombay Section, IEEE SB of MIT & EDC Cell of MIT on 14th Sep 2019
- Organized a talk on **Start up to start** by MIT Alumni **Mr. Abhishek Mali & Mr. Kaustubh Jadhav** Aurangabad on 9th Oct 2019 under ED Cell
- Organized **Virtual Lab Boot Camp and Certification Programme** in association with IIT Bombay, Maharashtra Institute of Technology & Marathwada Institute of Technology from 6-11 Feb 2019

  http://btech.mit.asia/bootcamp/
- Organized a **Keynote address on Machine Learning and Tensor Flow by Ms. Pratushya Simharaju, EduEng program Coordinator, Google IND & Invited talk by Mr. Sushant Joshi, Software Engineer, Sminq Pune** on 28th October, 2018

- Organized an **Invited Talk on "Data Science in AI Neural Network with TensorFlow" by Mr.** *Shubham Sharma, Data Scientist at Reliance Pvt Ltd* on 28th October, 2018

- Organized a **Machine Learning Crash Course & Google MLCC Study Jam Aurangabad** at Maharashtra Institute of Technology, Aurangabad, in association with Google on Sundays 7,14,21,28 October 2018

- Organized a 2-days workshop on **Machine Learning** by Mr. Ali Mustafa, powered by Google Crowdsource by IEEE Student Branch of Maharashtra Institute of Technology, Aurangabad, 31st Aug to 1st Sep 2018

- Organized a session **IEEE Membership Drive and IEEE Extreme Competition** by **Megha Ben (IEEE CS IR 10 Regional Student Member), Saurabh Soni (Formal IEEE Extreme Bombay Section Lead), Nikhil Karande (IEEE Extreme Bombay Section Lead)** on 1st Sep 2018

- Organized a talk on **Innovation Challenges** by **Dr. Satish Jayaram,** Principal Institute of Hotel Management, Aurangabad on 8th April 2018

- Organized a**n expert talk** on **RFID** by **Dr. Vinit Kotak** by IEEE Student Branch of Maharashtra Institute of Technology, Aurangabad, on 2nd April 2018

- Organized a**n expert talk** on **3D Printing** by **Mr Yogesh Powar** of **iPro3D Technologies LLP, Aurangabad** by IEEE Student Branch of Maharashtra Institute of Technology, Aurangabad, on 3nd April 2018

- Organized a**n expert talk** on **Embedded System and Hackster Community** by **our student Mr. Nitin Mane, Aurangabad** by IEEE Student Branch of Maharashtra Institute of Technology, Aurangabad, on 4th April 2018

- Organized a 3-days workshop on **Robotics** by Mr. Suhas Chate conducted by IEEE Student Branch of Maharashtra Institute of Technology, Aurangabad, from 2nd April to 4th April 2018

- Organized **IEEE Applied Electromagnetics Conference 2017** as an Organizing/General Chair of IEEE AEMC 2017. The international conference is organized by MIT & IEEE Kolkata Chapter   19-22 Dec 2017

- Organized **IEEE Indian Antenna Week 2013 IEEE IAW 2013** organized by IEEE Kolkata Chapter in association with Maharashtra Institute of Technology, Aurangabad, 3-7 June 2013

- Organized a STTP on **Emerging Trends in Microwave & Microstrip Devices** on 7th May to 11th May 2012 ,Department of Electronics & Communication Engineering, Marathwada Institute of Technology, Aurangabad

Expert Talks

- Delivered an Expert Talk on **Roles & Responsibilities of Virtual Labs** on 24th Sep 2021 in an Outreach Program for the Diploma Institutes organized by Prof. Tanuja Khatavkar Regional Coordinator Pune Region, PVG in association with various Reginal Centres & Nodal Centres of VLabs IIT Bombay.

- Delivered an Expert Talk on **Enhancing Education with Modern Technologies** on 9th March 2021 IEEE South Asian Women Leadership Talk Series -2021 on the occasion of International Woman's Day organized by IEEE SB of Acropolis IE&T Indore MP

- Delivered an Expert Talk on **Rationale of Virtual Labs** on 15th Jan 2021 Virtual Labs Hands on Outreach Workshop organized by SRTM University, Nanded for the faculties & students.

- Delivered an expert talk on **Business Opportunities in Electronics Engineering** on 8th Jan 2021 during Online Entrepreneurship Development Program (EDP) organized by MCED, Aurangabad

- Delivered an Expert Talk on **MIT's Journey from Nodal to Regional Centre** on 23rd Dec 2020 during virtual Labs Hands on Outreach Workshop organized by Jabalpur Engineering College, Jabalpur (Program under Atma Nirbhar Madhya Pradesh) Organized In association with IIT Bombay & Regional Centre ID-03, Virtual Labs MIT A'bad

- Delivered an expert talk on, "**Roles & Responsibilities of Nodal Centre**", organized by **IIT Bombay** for all the Regional Centres & Nodal Centres on 29th Aug 2020.

- Delivered an expert talk in a Virtual Labs Outreach Programme (online) programme on, "**Importance of Virtual Labs**", organized for **Dr. BATU, Lonere and its affiliated institutes on 6th Aug 2020 in association with IIT Bombay & Dr. Babasaheb Ambedkar Marathwada University, Lonere.**

- Delivered an expert talk in a Virtual Labs Outreach Programme (online) programme on, "**Roles & Responsibilities of Nodal Centre**", organized for **SRTM University Nanded its affiliated institutes on 29th June 2020 in association with IIT Bombay**

- Delivered an expert talk on, "**Artificial Neural Networks: Real World Applications**", in one-week National Level Online Faculty Development Programme on Recent Advancements in Artificial Intelligence, CSE Department, Shri Vishnu Engineering College for Women, Bhimawaram, Andhra Pradesh on 23-27 Jun2020 in online mode.

- Delivered an expert talk on**, "Artificial Neural Networks"** in STTP on Application of Soft Computing Techniques in Research(ASCOTER-2019) during 25 Feb to 1 March 2019, sponsored by TEQIP PhaseIII at Government College of Engineering Jalgaon

- Delivered an expert talk on , "**Virtual Labs Development**", in STTP on **Vlabs Boot Camp 5th to 9th Feb 2018** organized in association with IIT Bombay & supported by GUJCOST DST-Gujrat, Marwadi University

- Delivered an expert talk on**, " Introduction to Neural Networks",** in ISTE sponsored STTP on Genetic Algorithm and Neuro Fuzzy Applications in Engineering GANEUFAE-2010 during 29 Nov to 10 Dec 2010 at Department of Civil Engineering Government College of Engineering, Aurangabad

MoU of Entrepreneurship Cell

The Memorandum of Understanding has been signed by the authorities of Maharashtra Institute of Technology & Maharashtra Centre for Entrepreneurship Development on 31st Dec 2019.

Copyrights

1: Python Module for Image of Hyperion Sensor of EO1 Satellite.
Submission July 2021
Diary number : 16485/2021-CO/SW

2: Hyperion Bands Classification
Date of submission : 7/3/2022
Diary Number: 5189/2022-CO/SW

Intellectual Property Rights

- SMART TRAVEL ALARM

  Application No.2625/MUM/2013 A , INDIA

  Date of filing of Application :12/08/2013

  Publication Date : 08/08/2014

- Bhummi MITra-1 (A Complete Soil Health Evaluation System (CSHES))

  Application No. TEMP/E-1/4175/2017-MUM

  Date of filing of Application : 6/02/2017

  Publication Date : 10/08/2018

  Patent Office Journal No.: 32/2018

List of Research Students

Sr. No.	PRN & Research Mode	Student Name	Gendre	Category	Research Topic	Registration Date & Status
1	201534197 Part Time	Rajendraprasad Atmaram Pagare	Male	SC	FIBER-TO-THE-X(FTTX) Access Network Next Generation Enabling Technologies and Techniques.	06/06/2019 Ongoing (Status)
2	201534335 Part Time	Swati Ravindra Zambre	Female	OBC	A Non-Invasive Diagnosis of Adnexal Masses and Ovarian Cancer Using Radiomics	27/06/2019 Ongoing (Status)
3	201534336 Part Time	Sidhant Sanjay Kulkarni	Male	OPEN	Gain and Bandwidth Enhancement of Microstrip Patch Antenna Using Metamaterials	27/06/2019 Ongoing (Status)
4	201534874 Full Time	Ranjana Waman Gore	Female	OPEN	Surface mineral mapping using remote sensingand GIS data	01/07/2018 Ongoing (Status)

List of Research Publications

Papers in International Journal

1. Sidhant Kulkarni, Abhilasha Mishra, Metamaterials: Advancement and Futuristic Design Approach' Published on Wireless Personal Communications, Springer, published on November 30, 2021 DOI: https://doi.org/10.1007/s11277-021-09445-5

2. Rajendraprasad P, Santosh K, Abhilasha M., "Channel crosstalk and FWM power and efficiency mitigation mechanism and impact analysis on N2-class NG-PON2 network". **(Submitted to Journal of Communications Technology & Electronics, Springer, Nov-2021)**

3. Rajendraprasad P, Santosh K, Abhilasha M., "Analytical modelling and impact analysis on multichannel symmetric optical and wireless NG-PON2 networks of CD, SPM, XPM and FWM impairments", Published in ELSEVIER Optik J. for Light and Electron Optics, Volume252, February 2022, 168573 https://www.sciencedirect.com/science/article/abs/pii/S0030402622000055

4. Rajendraprasad P, Santosh K, Abhilasha M., "Design performance and comparative analysis of All-class converged-coexistence NG-PON2 network for 5G-IoT-FTTX-services and application" Published in De-Gruyter International Journal of Optical Communication published on August 13, 2021 https://doi.org/10.1515/joc-2021-0116

5. Rajendraprasad A. Pagare, Santosh Kumar, Abhilasha Mishra, "Modeling and comparative analysis of all-class converged-coexistence NG-PON2 network for 5G-IoT-FTTX-services and application", Published in De-Gruyter International Journal of Optical Communication published on April 8, 2021 DOI: https://doi.org/10.1515/joc-2020-0299

6. Rajendraprasad A. Pagare, Santosh Kumar, Abhilasha Mishra, "Seven-channel 1 Gbps TWDM coexistence architecture supporting 65 Gbps optical link for next-generation passive optical network 2-based FTTX access networks".Published in De-Gruyter International Journal of Optical Communication DOI: https://doi.org/10.1515/joc-2020-0078 Published online: 04 Sep 2020

7. Rajendraprasad P, Santosh K, Abhilasha M.," Design and Analysis of Hybrid Optical Distribution Network for Worst-Case Scenario Of E2-Class Symmetric Coexistence 80 Gbps TWDM NG-PON2 Architecture for FTTX Access Networks" Published in ELSEVIER Optik J. for Light and Electron Optics, Volume 228, DOI: https://doi.org/10.1016/j.ijleo.2020.166168 Published online: February 2021

8. Ranjana Waman Gore, Abhilasha Mishra, Ratnadeep R. Deshmukh, "Exploring the Mineralogy at Lonar Crater with Hyperspectral Remote Sensing", Journal of the Geological Society of India, Volume 97, Issue 3, page 261-266, 9th March 2021 https://doi.org/10.1007/s12594-021-1676-4

9. Ranjana Waman Gore, Abhilasha Mishra, Ratnadeep R. Deshmukh, "Mineral Mapping at Lonar Crater Using Remote Sensing", Journal of Scientific Research, Vol. 64(2), pp. 1-7, June 2020. [UGC CARE Journal]

    DOI: 10.37398/JSR.2020.640249,

    https://www.bhu.ac.in/research_pub/jsr/Volume_64_02_2020.html

10. Ranjana Waman Gore, Abhilasha Mishra, Ratnadeep R. Deshmukh, I. B. Abbasov, P. U. Randive, "LULC Analysis using Unsupervised Classification", Journal Izvestia SFedU ENG Sci Russia, Vol 4, No 93, pp 184-192, 2020

    *DOI:*10.18522/2311-3103-2020-3-184-192

    http://www.izv-tn.tti.sfedu.ru/index.php/izv_tn/article/view/359

11. Smita Kasar, M.S Joshi, Abhilasha Mishra, Umashankar Subramaniam, "Performance Enhancement for Detection of Myocardial Infarction from Multi-Lead ECG", Artificial Intelligence and Evolutionary Computations in Engineering Systems, 20 March 2018, pp. 697-705

    https://link.springer.com/chapter/10.1007/978-981-10-7868-2_66

12. Manali Laxman Joshi, Abhilasha Mishra, P. P. Nalgirkar, "Detection of Cardiomegaly using Lung Boundary Segmentation", International Journal of Innovative Research in Computer and Communication Engineering, Volume 4, Issue 4, Pages 8-11, 2016

13. Abhilasha Mishra, Prakash S Andhare, Vidya H Deshmukh,, " Design and Fabrication of an Electrically Small Meander Line Structure Antenna System for MIMO Applications, International Journal on Recent and Innovation Trends in Computing and Communication Volume 3, Issue 2, Pages 5-9, Feb 2015

14. Valmik Kardile, Abhilasha Mishra,"Design & Analysis of Square Micro strip Patch Antenna for BW Enhancement using Symmetrical Cuts". International Journal of Engineering Research & Technology (IJERT)IJERT ISSN: 2278-0181, Vol. 3 Issue 2, pp. 2773-2778, 2014.

15. Abhilasha Mishra, Ankit Jain, Neha Pamecha, "Smart Travel Alarm –An iOS app on Sencha 2.2", International Journal of Engineering, Management & Sciences (IJEMS), ISSN-2348 –3733, Volume-1, Issue-7, pp.1-8,2014 Link: -https://alliedjournals.academia.edu/AlliedJournals/IJEMS-VOL-1-ISSUE-7"

16. Abhilasha Mishra,Vidya Deshmukh "FIR Filter Design on Chip Using VHDL", International Journal of Scientific Research Engineering & Technology (IJSRET), Volume 2, Issue 7, 2014,

https://www.researchgate.net/publication/272623687_FIR_Filter_Design_on_Chip_Using_VHDL

17. Abhilasha Mishra, Ankit Jain, Neha Pamecha "Smart Travel Alarm – An Android app on Sencha2.2", International Journal Of Engineering And Computer Science ISSN:2319-7242, Volume 3, Issue 7, pp. 7156-7162, July- 2014

18. Abhilasha Mishra, Chanda Maind "Analysis & Designing of E-Shape Microstrip Antenna With Slot for ISM Band", International Journal of Research in Engineering & Technology (IMPACT: IJRET), ISSN(E): 2321-8843; ISSN(P): 2347-4599, Vol. 2, Issue 7, 41-48, Jul 2014

19. Abhilasha Mishra, Valmik Kardile, "Design & Analysis of Square Micro strip Patch Antenna for BW Enhancement using Symmetrical Cuts", International Journal of Engineering Research & Technology (IJERT)IJERT ISSN: 2278-0181, Vol. 3 Issue 2, February – 2014

20. Valmik Kardile, Abhilasha Mishra, "Design & Analysis of Microstrip Patch Antenna for BW Enhancement Using Symmetrical Cuts", International Journal of Emerging Science and Engineering (IJESE) ISSN: 2319–6378, Volume-2, Issue-1 November 2013

21. Valmik Kardile, Abhilasha Mishra "Square Microstrip Antenna with Dual Probe for Dual Polarization in ISM Band", IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) ,e-ISSN: 2278-2834, p-ISSN: 2278-8735 Volume 7, Issue 4, (Sep. - Oct. 2013), PP 29-31.

22. K.R.Khandagle, Abhilasha Mishra, Mr.V.V.Khairnar, "Design and Implementation of Dual Frequency Microstrip Patch Antenna with Koch Fractal Geometry using co-axial Feeding Technique", International Journal of Engineering, Economics and Management , ISSN: 2319-7927, Volume 1, Issue 3, May 2013, pp. 1-5

23. Priyanka Yadav, Abhilasha Mishra "Dual Polarized Antenna for Wireless Communication", International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC) ,ISSN 2250-1568 ,Vol. 3, Issue 3, Aug 2013, pg 131—134

24. Abhilasha Mishra, S C Mehrotra "Levenberg-Marquardt & Conjugate Gradient Neuro-modeling of Simulated Miniature Rectangular Microstrip Antenna", Advanced Computational Techniques in Electromagnetics 2012 (Journal, Published from Germany),   ISSN: 2194-0266 , Volume 2012, Year 2012 Article Idacte-00116,6 ,19 September 2012A

25. Sarita Verma, Abhilasha Mishra "Analysis of Variation of Various Parameters on Design of Discone Antenna", Advanced Computational Techniques in Electromagnetics 2012 , ISSN:2194-0266 ,Volume 2012,Year 2012 Article ID acte-00121,5 Pages Published: 27 December 2012

26. Abhilasha Mishra, P M Patil "The Design of Circular Microstrip Patch Antenna by Using Quasi-Newton Algorithm of ANN ", Electromagnetic Analysis & Applications, 2010, Vol-2, Pg-444-449 ,doi:10.4236/jemaa.2010.27058 Published Online July 2010 (http://www.SciRP.org/journal/jemaa) Impact Factor: 1.15

27. Abhilasha Mishra, Smita Kasar, Vaishali Bhagile, S C Mehrotra,"Effect of Normalized Scale on Design of Rectangular Microstrip Antenna by using FFBP", (IJCSE) International Journal on Computer Science and Engineering ,Vol. 02, No. 03, 2010, 626-629

28. Abhilasha Mishra, Vaishali Bhagile, S C Mehrotra "A comparative study of Design of Square and Rectangular Microstrip Patch Antenna by using FFBP and RBF techniques of ANN", International Journal of Computer Engineering (IJCE),,Vol. 03, No. 02, 2010

29. Abhilasha Mishra Vaishali Bhagile, S C Mehrotra "Online Character Recognition System for Multi-font Character", CiiT International Journal of Digital Signal Processing, Print: ISSN 0974 – 9705 & Online: ISSN 0974 – 9594, DOI: DSP032010001, March 2010

30. P.S. Revankar, Smita Kasar, Abhilasha Mishra "Quadratic Programming Problems using Genetic Algorithms", International Journal of Computer Science and Management Systems-ISSN: 0975-5349, Vol. 2 No. 1(Jan-June 2010), pp 17-20.

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1. Nita Pingle, Abhilasha Mishra "A Review on Microstrip Band Pass Filters for Global Positioning System Applications" , National Conference On Microwave Techniques and Applications at Maulana Azad College of Arts, Science and Commerce, A'bad, November 29 & 30, 2013.

2. Sumedha Borde, Abhilasha Mishra," Effects of Microwave Frequencies on the Fetus of Pregnant Woman". National Conference on Microwave Techniques and Applications at Maulana Azad College of Arts, Science and Commerce, A'bad, November 29 & 30, 2013

Papers in International Conference Proceedings

1. Ranjana Waman Gore, Abhilasha Mishra, Ratnadeep R. Deshmukh, "Hyperspectral Image Classification using Machine Learning', Data Science, Machine Learning and Artificial Intelligence (DSMLAI), Windhoek, Namibia, August 9-12 2021, ACM, https://doi.org/10.1145/3484824.3484883

2. Abhishek Kadri, D. C. Pande, Abhilasha Mishra, "Analysis of a Mechanically Stirred Reverberation Chamber", 15th International Conference on Electromagnetic Interference & Compatibility (INCEMIC 2018) ,13 - 16 November 2018 https://ieeexplore.ieee.org/abstract/document/8704550/

3. Ranjana Waman Gore, Smita Kasar, Abhilasha Mishra," Mineral Mapping and Lithological Discrimination using Remote Sensing in Indian Region: A Review", In Proceeding: IEEE ICIETS 2018 Innovations in Engineering, Technology and Sciences (ICIETS 2018) 20 and 21 September 2018, NIE Institute of Technology, Mysuru.

4. Abhishek Kadri, D. C. Pande, Abhilasha Mishra, "A Criteria Based Design for the Shape of a Stirrer in a Reverberation Chamber", 2018 International Conference on Information, Communication, Engineering and Technology (IEEE ICICET), Aug 29-

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5. Swati R. Zambre, Abhilasha Mishra, "A Novel Approach to the ROI Extraction in Palmprint Classification" 3rd International Conference on Information And Communication Technology For Intelligent Systems, 6-7 April,2018.

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6. Dhanashri Vaidya, Abhilasha Mishra, Suhas Chate, Gourav Jawale, "Design and Analysis of Compact High Gain & Wideband Fractal Bow Tie 4x1 Patch Array Antenna for WLAN Applications"IEEE AEMC, 19 to 22 Dec 2017,MIT in association IEEE Kolkata   Chapter.

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7. Shraddha A. Jadhav, Swati B. Misal, Abhilasha Mishra, Anita Murugkar , "Designing of Stepped Impedance Butterworth and Chebyshev Filters for Wireless Communication" , IEEE AEMC 2017, 19 to 22 Dec, MIT in association IEEE Kolkata Chapter.

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8. Abhilasha Mishra, Suhas Chate, Shilpa Kodgire ,Jairaj N. Hire,"Design of Compact ACS Feed Antenna for UWB Application' , ,IEEE AEMC 2017, 19 to 22 Dec, Organised by MIT in association IEEE Kolkata Chapter,

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9. Smita L. Kasar, Madhuri S. Joshi, Abhilasha Mishra, S. B. Mahajan, P. Sanjeevikumar, "Performance Enhancement for Detection of Myocardial Infarction from Multi-Lead ECG", ICAIECES-2017, The International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, 27th to 29th April 2017, organized by Department of Electrical & Electronics Engineering,MITS, Madanapalle, Chittoor District, Andhra Pradesh

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10. Sheetal Bhale, Abhilasha Mishra, Mazher Khan, "Implementation of DSTC and PA-PSO algorithm using CLD to improve the performance of MANET", International Conference on Data Engineering and Communication Technology- Springer ICDECT, Singapore, 2016

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11. Abhilasha Mishra, A J Patil "Rectangular Microstrip Patch Antenna Parameters Calculations using Emotional Bacterial Foraging Optimization", IEEE Indian Antenna Week, Aurangabad, 3-7 May 2013

12. Abhilasha Mishra, "Rectangular Microstrip Antenna for Amateur Radio Operations", IEEE, ICECT , Kanyakumari, 2012

13. Abhilasha Mishra; Ganesh Janvale; B. V. Pawar; A. J. Patil, "The Design of Circular Microstrip Patch Antenna by using Conjugate Gradient algorithm of ANN". IEEE, AEMC, Kolkata, 2011

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14. Abhilasha Mishra, Ganesh Janvale, Smita Kasar, B V Pawar, A J Patil, "Neuro- modeling of simulated miniature rectangular microstrip antenna by using feed forward and feedback propagation". IEEE,AEMC, Kolkata, 2011

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15. Smita Kasar, Abhilasha Mishra, "Optimization of nonlinear programming problems using non-traditional method: genetic algorithms" , International Conference and Workshop on Emerging Trends in Technology, ICWET'10, Thakur College of Engg.,Mumbai, 2010

16. Abhilasha Mishra, A. B. Nandgaonkar, V. D. Bhagile, S. C. Mehrotra, P. M. Patil, "Design of Square and Rectangular Microstrip Antenna with the use of FFBP algorithm of Artificial Neural Network", IEEE,AEMC, Kolkata, 2009
    https://ieeexplore.ieee.org/abstract/document/5430689/

17. Abhilasha Mishra, V. D. Bhagile, G. B. Janvale, S. C. Mehrotra, "A high Speed Design of Rectangular and Square Shape MSA for Higher Accuracy through RBF of ANN", International Conference on Recent Advances in Microwave Theory and Applications , Microwave 2008, Jaipur
    https://ieeexplore.ieee.org/abstract/document/4762988/

18. Abhilasha Mishra, V. D. Bhagile, G. B. Janvale, S. C. Mehrotra, "Calculation of resonant frequency of square and rectangular Microstrip Patch Antenna: A comparative study of results from FFBP and RBF techniques of ANN", Jodhpur International Conference on Microwaves 2008, Jodhpur

19. Abhilasha Mishra, V. D. Bhagile, G. B. Janvale, S. C. Mehrotra, "ANN Based Calculation of Resonant Frequency of Square and Rectangular Microstrip Patch Antenna", ICMO 2007: International Conference on Microwaves & Optoelectronics, Aurangabad.

Book/Chapter

Chapters published on
1. **Virtual Experimentation: An Advanced Tool for Education System** in **Technology and Tools in Engineering Education: Research and Innovations, Published on 27 October 2021 by CRC Taylor & Francis.**
   Authors: Prashant Gupta, Bhagwan Toksha, Trishul Kulkarni, B. rajaguru & Abhilasha Mishra Maharashtra Institute of Technology, Aurangabad,
   India,   https://www.google.co.in/books/edition/Technology_and_Tools_in_Engineering_Educ/TLJFEAAAQBAJ?hl=en&gbpv=1&printsec=frontcover

2. **Characterization of a Reverberation Chamber** in **Intelligent Communication and Automation Systems, Published on April 20, 2021 by CRC Taylor & Francis.**
   Authors: Abhishek Kadri, Maharashtra Institute of Technology, Aurangabad, India, Pande D.C.,Electronics and Radar Development Establishment (LRDE), DRDO, Banglore, India, Abhilasha Mishra, Electronics and Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, India,
   https://www.routledge.com/Intelligent-Communication-and-Automation-Systems/Sharma-Gupta-Sharma-Tripathi/p/book/9780367609283

	IIRS Certification			
Start Date	**End Date**	**Duration (in Days)**	**Course Name**	**IIRS Outreach Centre**
21/01/2019	1/02/2019	Fifteen	Hyper Spectral Remote Sensing and It's Application	Maharashtra Institute of Technology
4/9/2018	14/09/18	Eleven	Remote Sensing and Digital Image Analysis	Maharashtra Institute of Technology

	Virtual Labs Development (All the labs hosted on IIT Bombay's Portal)		
Sr. No.	**Lab**	**Link of V Lab**	**Date**
1	Computer Networks Lab	**Fabricaton of Cables** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp1/index.php	Aug 2016
2	Computer Networks Lab	**Peer to Peer Topology** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp2/index.php	Aug 2016
3	Computer Networks Lab	**Star Topology** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp3/index.php	Aug 2016
4	Computer Networks Lab	**IPv4Addressing** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp4/index.php	Aug 2016
5	Computer Networks Lab	**IPv4 Subnetting** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp5/index.php	Aug 2016
6	Computer Networks Lab	**Windows File Sharing** http://vlabs.iitb.ac.in/vlabsdev/labs_local/computer-networks/labs/exp7/index.php	Aug 2016
7	Signals & Systems Lab	**To represent discrete time signal and perform basic mathematical operations on DTS** http://vlabs.iitb.ac.in/vlabsdev/labs/mit_bootcamp/signals/labs/exp1/index.php	July 2019

Awards, Achievements and Recognition

- **National Award:** IETE Prof S N Mitra Memorial Award, 2013, by the hands of Honourable Chief Minister of Maharashtra, Shri. Prithviraj Chauhan, Mumbai

- Appointed as the **Vice Chair of IEEE SIGHT** Committee under IEEE Bombay Section from April 2022

- Appointed as the **Member of IEEE Industry Relation Committee of IEEE Bombay** Section from April 2022

- Appointed as the Co-opted Member for the year 2020 - 22 of IETE Aurangabad Chapter.

- **Best Paper Award in IEEE INSEMIC 2018** for, "Analysis of a Mechanically Stirred Reverberation Chamber", A. Kadri, D. C. Pande and A. Mishra, Maharashtra Institute of Technology, Aurangabad, India and DRDO, Bangalore, India

- **Best Paper Award** in **ICMO 2007,** International Conference on Microwaves & Optoelectronics, Aurangabad organized by Dr BAMU for "ANN Based Calculation of Resonant Frequency of Square and Rectangular Microstrip Patch Antenna", Abhilasha Mishra, S C Mehrotra

- Appointed as a reviewer for the **Journal of Elsevier AEÜ - International Journal of Electronics and Communications.**

- Appointed as a reviewer for the **PIER**, Progress In Electromagnetics Research

- Worked as a **Jury Member** for Essay Competition organized by Institute of Engineers, Aurangabad LC, 26th Aug 2019

- Worked as a **Chair in Women in Engineering (WiE) in** 2018 IEEE Indian Conference on Antennas & Propagation (InCAP), December 16-19, 2018, Hyderabad, India

  http://www.incap2018.org/women-in-engineering--page-445

- Worked as a **Session Chair** in IEEE INSEMIC 2018, 15th International Conference on Electromagnetic Interference & Compatibility, INCEMIC 2018 and Workshop, Organised by Society Of EMC Engineers (India) www.Semceindia.Orgssion

- Worked as a **Scientific Committee Member** in **IEEE Indian Antenna Week 2017** organized by Defence Institute of Advanced Technology (DIAT) (Deemed to be University) in association with IEEE Kolkata Chapter 5 – 9 June 2017

- Worked as a **Technical Chair** in IETE sponsorred International Conference **ICoDSIP 2017** organized by E&TC Department of MIT(T),7-8 March 2017

- Worked as an **Advisory Committee Member** of **IEEE Indian Antenna Week 2016** Organized By Thiagarajar College Of Engineering (Tce), Madurai In Association With IEEE AP-S Madras Chapter Founded And Co-Sponsored By IEEE AP/MTT Kolkata Chapter, 6 –10 June 2016

- Worked as a **Scientific & Advisory Board Member** of **IEEE Indian Antenna Week 2015 ,IEEE IAW 2015,** organized by Department of Electronics Instrumentation & Control Engineering Government Engineering College, Ajmer, Rajasthan, 30 –3 June 2015

- Worked as a **Advisory Board Member** of **IEEE Indian Antenna Week 2014 IEEE IAW 2014** organized by IEEE Kolkata Chapter in association with NITTTR, Chandigarh & Punjab Technical University, Jalandhar, Punjab on 26-30 May 2014 at Hotel JW Marriott, Chandigarh

Date: 11th May 2022
Place: Aurangabad