

Curriculum Vitae

Name: Dr. Manju Dhanraj Pawar



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Date of Birth: 01June1982

Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Electronics and Telecommunica tion		Dr.B.A.M. University	Jan. 2022		
M.E./ M. Tech.	Communication Engineering	Marathwada Institute of Technology	Dr.B.A.M. University	2012	663.43 %	<i>First</i>
B.E./B.Tech.	Electronics	Marathwada Institute of Technology	Dr.B.A.M. University	2005	67.52 %	Distinction

Ph. D. Research: Performance analysis using multimodal Recognition Techniques.

M. Tech. Project: Speaker Identification using Wavelet Transform and Neural Network

Key Research Areas:

- Digital Image Processing
- Biomedical Image Processing
- Signal Processing

Experience

Sr. No.	Organization	Post	From	To	No. of Years
1	Maharashtra Institute of Technology, Aurangabad	Lecturer	17/03/2006	30/7/2006	04 months
2	Maharashtra Institute of Technology, Aurangabad	Assistant Professor	01/08/2006 till data		16 Years

List of Courses Taught/Teaching at UG level

- Neural Network and Fuzzy Logic
- Artificial Intelligence and Machine Learning
- Basic Electronics
- Sensors and Measurement
- Network Analysis
- Audio signal processing
- Basic Electronics and Instrumentation.
- Basic Electrical Engineering.
- Transducer Technology.
- Principal of Communication Engineering.
- Network and Lines.
- Circuit Theory
- Linear Integrated Circuit
- AS&I
- Basic Electronics
- High speed analog Devices

List of Courses Taught/Teaching at PG level

- Advanced Digital Signal Processing
- Research Methodology and IPR
- Audio signal processing and Coding
- System Lab

Additional Assignments/Duties

- Worked as Under Study (U.S) for N/Dec-2021 University Backlog/Regular Examination.
 - Working as a Departmental AQAR-NAAC Coordinator since 2016 till date.
 - Worked as Department M.tech Exam Coordinator for Autonomy Exam Cell 2021-2022.
 - Worked as Seminar/Project Coordinator for 2021-2022.
 - Worked as Under Study (U.S) FOR N/Dec-2021 University Backlog/Regular Examination.
 - Worked as Member Secretary for Central Internal Complaints Committee.
 - Worked as FY M.Tech Class Teacher of 2021-2022.
 - Worked as Departmental OBE Coordinator for the period of 2015-2017.
 - Lab in charge of Electronics Workshop lab from Jan 2014 to till date at MIT Aurangabad
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- Working and Worked as a member of Anti-ragging Committee of MIT Aurangabad.
 - Worked as a Class Teacher of MIT Aurangabad.
 - Worked as a Time Table co-coordinator For MIT Aurangabad.
 - Worked as Practical Co-ordinator for Practical Examinations of Dr.B.A.M.University, Aurangabad
 - As a Lab in charge of Instrumentation and control lab for 2012 - 2015at MIT Aurangabad
 - Worked as Event Co-coordinator for 'Tech-Tropy 2010, MIT Aurangabad
 - Worked as Class Test co-ordinator of MIT Aurangabad
 - Lab in charge of Electronics Workshop lab from Jan 2009 to till date at MIT Aurangabad
 - Worked as Convener for 'Vortex- 2012', MIT Aurangabad.
 - Worked as Under Study (U.S) FOR M/J-2012 University Backlog Examination.
 - Worked as Under Study (U.S) FOR Nov/Dec-2011 University Regular Exam.
 - Worked as Joint Secretary for International conference on Digital signal and image Processing, will held on 07-08 March 2017.
 - Worked as Organizing Secretary for MIT-Techno millennium 2012.
 - Worked as a Committee member for 3-days central Youth Festival 2012.
 - Worked as a member in "Project design competition" of MIT Aurangabad.

- Worked as a Session Co-Chair for International Conference on Digital Signal and Image Processing, on 07-08 March 2017

Membership of Professional Bodies

- Life Member of ISTE

Research Projects/Projects Guided

M.Tech Project:

- Image processing-based emotion recognition.
- Architecture design of guided filter acts for 30FPS.
- Fingerprint Using License Checking for Auto-Mobiles
- LBP based feature of face and iris fusion using SVM
- Generic lossless visible Watermarking
- Types of starters for the DC Shunt wound and compound wound Motor
- Garbage Collection management system

Computer/Software Proficiency

- MATLAB
- C ,C++
- Python

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

- Attended one day “Application of Artificial Intelligence on VLSI and Communication Technology (AAIVCT-2022) Organised By Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur 7/3/2022 11/03/2022. Attended one day “E-Summit on Emerging Trends in IT Business Application” organised by STES’s Sinhgad Institute of Technology Lonavala on 30th Jun 2021.

- Participated in AICTE Sponsored Online Short Term Training Program on “ Applied Soft Computing and Vision machine Techniques” held during 15th to 20th Feb 2021 organized by Dr.M.G.R Educational and Research Institute, Chennai.
- Participated in AICTE Sponsored Online Short Term Training Program on “Digital Skills Development for Professionals” held during 8th to 13th Feb 2021 organized by J.S.P.M.’s Bhivarabai Sawant Institute of Technology and Research, Wagholi,Pune.
- Participated in One week Faculty Development Program on “ Higher Education 2020: Requirements & Expectations” from 8th July 2020 to 12th July 2020 organised by IQAC, TPCT’s College of Engineering , Osmanabad.
- Successfully completed two weeks online FDP(MOOC) on “ Effective use of ICT tools in Online Teaching “ from 22nd Jun 2020 to 4th July 2020 conducted by IQAC & Department of Electronics & Telecommunication Engineering in association with Department of Pharmacy, Government Polytechnic, Jalgaon.
- Successfully completed online STTP on “Sensor, IoT & Machine Learning” from 1st June 2020 to 5th June 2020 conducted by, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai.
- Participated in One Week Online Faculty Development Program on “Signal, Image & Video Processing: A Practical Approach (SIVPAPA-2020)” organised by Government College of Engineering , Karad during 26th May 2020 to 30th May 2020.
- Attended One Week Online Faculty Development Program on “Machine Learning and Deep Learning Applications in Engineering & Science” organised by Government College of Engineering , Karad during 16th May 2020 to 20th May 2020.
- Completed two weeks Online training by Tata Consultancy Services-TCS iON Digital learning hub on “Career Edge” during 23 April to 10 may 2020.
- Attended one week faculty development program on “NBA Accreditation of Engineering Programs “ organised by National Institute of Technical Teachers Training and Research , NITTR, Chandigarh during 11th May to 15th May 2020.
- Attended Two Days FDP on “ Deep Learning using Tensor Flow “ at SCETR’s Pune Institute of Computer Technology, Pune during 17 and 18 January 2020Attended One week Faculty Development Programme on “Data Science” hosted by Maharashtra Institute of Technology Aurangabad conducted by FDC PMMMMNMTT during 24-30 June 2019.

- Attended One day workshop on “Revised NAAC Methodology” organized by IQAC at Maharashtra Institute of Technology Aurangabad on 27 June 2019.
- Attended One week Faculty Development Programme on “Artificial Intelligence and Machine Learning” at JNEC Aurangabad from 01-05 June 2019.
- Attended Two days workshop on “Outcome based Education” organized by IQAC at Maharashtra Institute of Technology Aurangabad on 4 -5 Dec 2017.
- Attended One week STTP on “MATLAB SIMULINK” at CSMSS Aurangabad from 6-11 June 2016.
- Attended a Ten days workshop on “Analog Electronics” at Dr.D.Y.Patil. Institute of Engineering and Technology, Pimpri, Pune from 04- 14 June 2013.
- One day STTP on ‘CGPA Training’ at MIT Aurangabad
- Attended a three days Workshop on “PLC & SCADA” at MIT (T), Aurangabad from 07-09 March 2013.
- Two days workshop on ‘LAB VIEW & Applications’ at MIT Aurangabad on 17 -18 th Nov. 2011.
- One day “ Faculty Induction Training” at MIT Aurangabad
- Attended “Entrepreneurship Development Program” at MIT Aurangabad on 05 - 07 April 2007.
- Attended a three days STTP on “Implementation of Digital Design on FPGA Device” at MIT Aurangabad from 3 -5 Jan 2008.
- Attended a three days STTP on “Challenges in CMOS VLSI Design” at MIT Aurangabad from 8 -10 Nov. 2008-2009.
- Attended a Five days workshop on “Design and Implementation of Advanced Embedded System’ at MIT Aurangabad from 30 June -04 July 2008.

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

- Organized one day Webinar on “Campus to Placement” for SY/TY/B.Tech/Diploma Students throughout the region on 18/12/2021.
- Arranged and coordinated one day Industry Visit to JVS Electronics Pvt Limited, Banglore and Mysur during 27 Feb 2020 to 3 March 2020 for SY and TY ETC students

- Organized One week Faculty Development Programme on “Data Science” hosted by Maharashtra Institute of Technology Aurangabad conducted by FDC PMMMMNMTT during 24-30 June 2019.
- Organized Two days workshop on “Electronics circuit and simulation ,PCB design and fabrication” for second year students of Electronics and telecommunication on 02 to 03 April 2019.
- Organized Six days workshop on “Electronics and simulation ,PCB design and fabrication” for second year students of Electronics and telecommunication on 23 Sep to 09 Oct 2017.
- Arranged and coordinated one day Industry Visit to Rucha Engineers Pvt. Ltd, L23, Aurangabad on 26th March 2019 for SY ETC students.
- Coordinated four days National level workshop on “Matlab Simulink and low cost design using signal & image toolbox” on 16-19 December 2015 at MIT B.Tech, Aurangabad.
- Coordinated Two days National level workshop on “Research Methodology” on 13-14 March 2015 at MIT B.Tech, Aurangabad.
- Organized workshop on “PLC/SCADA Training Program” for second/Third year students of Instrumentation and control Engineering on 07-09 March 2013.
- Coordinated 1st International Conference on Digital Signal and Image Processing (ICoDSIP17) during 7th & 8th March, 2017 at the Department of Electronics & Telecommunication Engg. of Maharashtra Institute of Technology (MIT), Aurangabad, Maharashtra

List of Research Publications

Papers in National/ International Journal

- Published a paper on “Architecture Design of Guided Filter For 30 Frames/s” in the international journal Strad Research, An UGC-CARE Approved Group - 2 Journal Volume 8, Issues 11, November – 2021.(SCI-Index).
- Published a paper on “Analysis on Available Health Monitoring Systems” in the international journal of innovative in Research, Science and Technology, IJRSET, Volume 10, Issue 12, December 2021.

- Published a paper on “IOT Based Health Monitoring System” in the international journal of innovative Research in Computer and communication Engineering, IJRSET, Volume 9, Issue 11, November 2021.
- Published paper on “Convolution Neural Network Based Automatic Speech Emotion Recognition Using Mel-Frequency Cepstrum Coefficients”, in Multimedia Tools and Applications.<https://doi.org/10.1007/s11042-020-10329-2>, Springer, Springer Netherland journal-SCI Indexed (59-H Index) Feb 2021.
- Published paper on “Evaluation of Fusion based Biometric recognition” in the International Journal of Scientific Research in Science and Technology (IJSRST), Volume 7, Issue 6, November-December-2020. [Page No 323-333] Scientific journal impact factor 7.12, ISSN (Online) 2395-620X, ISSN (Print) 2395-611.Doi : <https://doi.org/10.32628/IJSRST207648> (UGC CARE Journal-64011).
- Published a paper on “A review on various effectual approaches for automatic classification of skin cancer detection” an ISO certified journal, in the Cikitusi journal for multidisciplinary research ,vol 5,Issue 6 on 05 May 2019.
- Published a paper on “Generic lossless visible Watermarking” in the International journal science and research ,Vol 8,Issue-02 on 02 February 2019.
- Published a paper on “LBP based feature of face and iris fusion using SVM” in the journal of engineering research and applications ,VOL 9,Issue-05 on 03 June 2019.
- Published a paper on “A Review face and iris fusion using SVM” in the journal of Electronics design and Technology ,Vol 9,Issue-03 Oct 2018.
- Published a paper on “A Robust wavelet based decomposition and multilayered neural network for speaker verification” in the in the proceeding of innovation in electronics and communication(Springer lecturer notes 65) in Jan 2019.
- Published a paper “A Review on Multimodal Fusion Techniques: Applications and Research area” in the International Journal of Innovative research and Science, Engineering and Technology (IJRSET,Vol 6,Special issue 1,Jan 2017.
- Published a Paper “Fingerprint Using License Checking for Auto-Mobiles” in The International Innovative Research Journal of Engineering And Technology IRJET ,Vol 3,Special Issue 8, 2016.
- Published a Paper “Types of starters for the DC Shunt wound and compound wound Motors” in The International Journal Of Innovative Research in Electronics, Electrical,

Instrumentation and Control Engineering And Technology IJIREEICE, Vol 3,Special Issue 11, 2015.

- Published a Paper “Garbage Collection management system” In The International Journal Of Engineering and computer Science, IJECS,Vol 5,Special Issue 11,Nov 2016.
- Published a Paper “A Review: Garbage Collection management system” In the International Journal Of Research In Engineering and Technology, IJRET,Vol.5,Special Issue 6,June 2016.
- Published a paper on “Wavelet Entropy And Neural Network For Text-Dependent Speaker Identification’ in the International Journal Of Research In Computer Application (Ijrca) volume 2 Issue 1 January 2014.
- Published a paper on “Speaker Identification system using Neural Network’ in the Journal of Advances in Management, Technology & Engineering Sciences in March 2012.
- Published a paper on “Speaker Identification system using wavelet transform Neural Network” in the International Conference at Deogiri College of Engineering, Aurangabad on 24 th March 2012
- Published a paper on “Speaker Identification system using wavelet transform & Neural Network” in the International Journal of Computer Application in Engineering in Science (IJCES) in July 2011.
- Published a paper on “Signal Processing for OFDM Communication System” in the National conference on 5-6 March 2009 , at MIT Aurangabad.

Papers in National /International Conference Proceedings

- Presented a paper on “An optimize multimodal biometric authentication system for low classification error rates using face and fingerprint” in ICCNIS 2021 on 28-29 July2021(SSRN-Elsevier).
- A Robust Wavelet based decomposition and multilayered neural network for speaker verification” in the 7th International Conference on innovations and Telecommunication engineering (ICIECE-2018) on 27-28July2018.
- Presented a paper “A Review on Multimodal Fusion Techniques: Applications and Research area” in the International Conference on Recent trends in engineering and Science on 20,21 Jan 2017.

- Presented a paper on “Speaker Identification system using wavelet transform & Neural Network’ in the International Conference at Deogiri College of Engineering, Aurangabad on 24 th March 2012.

Date: 11/ 05/2022

Place: Aurangabad