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**Name : Dr. Manjusha Abhijeet Dandare-Deshmukh.**

**Personal Details :**

Nationality : Indian.  
Date & Country of Birth : 31<sup>st</sup> December 1975 – India  
Religion : Hindu.  
Marital Status : Married.

**Academic Background:**

- Obtained **Doctorate of Philosophy** in the subject of Computer Science and Engineering from Dr. Babasaheb Ambedkar Marathwada University in the year of July 2021 under the guidance of S. N. Kakarwal, Head Computer Engineering, PES College of Engineering, Aurangabad.
- Obtained **Master of Engineering in Computer Science** in First Division from University of Mumbai in the year of April 2010.
- Obtained **Bachelor of Engineering in Computer Science** in First Division with Distinction from Dr. Babasaheb Ambedkar Marathwada University in June 1997.

**Academic Achievements:**

- Attended the **Pre-Convention Tutorial/Convention of Computer Society of India** Western Regional Convention on March 1-3, 1996.
- Published paper entitled **"Improving Performance Of Counter Based Flooding in Mobile Ad-hoc Network"** in International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences (IJ-ETA-ETS) in January, 2010 Issue.
- Participated in a national level workshop on **"Advances in Networking and Mobile Computing"** during March 25-27, 2010 organized by the Department of Information Technology, Ramrao Adik Institute of Technology.

- Published Paper titled in “A Survey on Traditional and Hybrid Approaches to Broadcasting in MANET”, International Journal of Engineering Technology, Management and Applied Sciences, Volume 3, Issue 1, January 2015. DIIF Impact Factor 2.24.
- Published Paper titled in “Mobility Aware Refined Counter Based Broadcasting Model of MANET” in International Research Journal of Engineering and Technology (IRJET), Volume 2, Issue 1, April 2015. Scientific Journal Impact Factor 7.211.
- Published Book Chapter titled in “Adaptive Routing for Emergency Communication via MANET” in “The Internet of everything: Advances, Challenges and Applications”, De Gruyter, **Springer Series**, February 2019.
- Published Paper titled in “Proactive Neighbor Knowledge based Hybrid Broadcasting in MANET” in International Research Journal of Engineering and Technology, Volume 6, Issue 7, July 2019.
- Published Paper titled in “Multi-criteria decision making for routing process in MANET” in Scopus indexed Book Chapter: Internet of Things, Smart Computing and Technology: A Road map ahead from "Studies in Systems, Decision, and Control", **Springer**, May 2019.
- Participated in International Conference on Cognitive Knowledge Engineering, held at Aurangabad in January 2015 to present a paper titled “Advance Mobility-aware hybrid broadcasting in MANET”,
- Participated in **Scopus indexed** International Conference on Computer Networks and Inventive Communication Technologies held at Coimbatore dated on 23-24 May 2019 to present papers titled on “An adaptive neighbor knowledge-based hybrid broadcasting for emergency communications”, Lecture notes on Data Engineering and Communication Technologies, Pp. 86.
- Participated in the International Conference on Intelligence Computing and Information Technology to present a paper titled “Analysis of Hybrid Broadcasting Schemes in Mobile Ad-hoc Networks” held at Bhubaneswar dated 16-18 January 2020.

### **Professional Affiliation:**

**Member:** Life Membership of Indian Society for Technical Education (ISTE) Computer Society of India CSI (Membership No. : 11504725 Duration 3 years)

### **Computer Proficiency:**

<b>Languages</b>	Fortran, Pascal, Assembly Languages, Prolog, “C” , C++, Java 2.0, VisualBasic 6.0, Tool Command Language(TCL), Python.
<b>Web Technologies</b>	HTML, DHTML, Dreamweaver, Flash, VBScript, JavaScript, ASP 3.0, Java, JDBC, Servlets, JSP, Adobe Photo Deluxe, Visual Interdev 6.0.
<b>Operating Systems</b>	MS-Dos, MS Windows 98, Windows N.T, Linux
<b>Database</b>	Visual Foxpro 6.0, Oracle, Postgres.
<b>Simulator and Tools</b>	Network Simulator 2(NS2), Network Simulator NS3, Metlab, Scilab, Machine learning.

### **Language Proficiency:**

English, Hindi, Marathi.

### **Present Experience # 1**

College	: <b>Rajgad Institute of Technology affiliated to Pune University</b>
Designation	: Associate Professor and Head of Department
Tenure	: September 1, 2021 to October 2021.
Additional Roles	: Teaching Staff Representative of College Development Committee, Internal Quality Assurance Cell (IQAC), Student Council, Student Medical Emergency and Counseling Cell and Member of Startup and Innovation Cell.

### **Previous Experience # 2**

College	: <b>Pillai College of Engineering affiliated to Mumbai University</b>
Designation	: Associate Professor .
Tenure	: July 2010 to February 2020.
Additional Roles	: NBA Coordinator, Workshop Coordinator, Project Coordinator, Research Associate and Examiner, Mentor, Reviewer, Editorial Board Member, Class and Project based Learning Coordinator, Curriculum Development Committee Member, Advisory Committee Board Member, Resource

Person and Judge of Technical Events such as project Exhibition, Paper Presentation.

**Subjects Taught: Post Graduate level**

1. Network Protocols & Networking
2. Distributed Systems
3. Advanced Database Management System
4. Advance Operating System

**Subjects Taught: Under Graduate level**

1. Operating Systems
2. Operating Systems and Computational Devices
3. Graphical User Interface & Database Management System
4. Database Technologies
5. Computer Organization & Architecture
6. Parallel and Distributed Systems

**Professional Achievements:**

1. Conducted a Content updating Programme as Resource Person on “Java Programming” for the Faculties of Polytechnics organized in D. Y. Patil Polytechnic in August 2011.
2. Conducted a 1-day workshop as **Resource Person on “NS2”** for the students of Pillai’s Institute of Information Technology organized by CSI, PIIT, New Panvel in August 2013
3. Conducted a 2-day workshop as **Resource Person on “NS2”** for the students of PES College of Engineering in February 2014.
4. Invited as a **Judge for Technical Paper Presentation** for Alegria 2016, Mahatma Education Society, February 2016.

**Various Positions at University Level**

1. **PG Recognized Teacher** of Mumbai University for the M.E. Degree in Computer Engineering with effect from 6<sup>th</sup> June, 2014.
2. **PG Recognized Teacher** of Mumbai University for the M.E. Degree in Information Technology with effect from 6<sup>th</sup> June, 2014.
3. **Chairman/Paper Setter/Examiner** of Mumbai University for M.E. Computer Engineering in the subject Advance Database Design(old), November 2015.
4. **Syllabus Setter** of Mumbai University for ME. Computer Engineering in the

subject of Advance Operating System, 21<sup>st</sup> June 2016.

5. **Moderator** of Mumbai University for BE. Computer Engineering in the subject of Operating System, June 2016.
6. **Syllabus Setter** of Mumbai University for BE. Computer Engineering in the subject of Advance Operating System, 11<sup>th</sup> April 2017.
7. **Syllabus Setter** of Mumbai University for BE. Computer Engineering in the subject of Operating Systems, February 2017.
8. **Syllabus Setter** of Mumbai University for BE. Computer Engineering in the subject of Distributed Computing, 17<sup>th</sup> April 2017.

#### **Research Guidance:**

1. Bachelor of Engineering (Computer Engineering) : 15 Nos.
2. Bachelor of Engineering (Information Technology) : 15 Nos.
3. Master of Engineering (Computer Engineering) : 14 Nos.
4. Master of Engineering (Information Technology) : 03 Nos.

#### **Research Conducted:**

##### **Development of Adaptive Energy Aware Hybrid Routing Algorithm in MANET.**

This research work develops the software implementation of broadcast routing protocols which have been applied in emergency communications during disasters, Military operations, hazardous plants, etc. and smart system developments viz., IoT, VANET, BAN, etc. This research work investigates the feasibility and effectiveness of broadcast routing schemes. It analyses the performance of the network under specified parameters. This work helps to reduce the cost of real-time implementation of the network with increased lifetime of the network. The tools used in this research could also be used to analyze the performance of the static networks.

#### **Research Papers Published**

Papers Published in International Journals: 32  
(Scopus: 04, SCI: 04, Google Scholar: 13, Others: 13)  
Papers Published in National/International Conferences: 9  
(Scopus: 03, Others: 06)  
Scopus indexed Book Chapters: 02  
Article Published in CSI Journal Aurangabad Chapter: 01

### **Workshops Attended**

1. Completed 3-days workshop on **“Object Oriented Analysis and Design using UML with essentials of Rational Software Architect”** organized by IBM during January 10-13, 2011.
2. Completed 3-days workshop on **“Scilab”** organized by IIT-Bombay during July 21-23, 2011.
3. Attended 1-week ISTE approved STTP workshop on **“Business Intelligence & Business Analytics”** organized by Department of Computer Engineering & Information Technology of Pillai’s Institute of Information Technology during August 4-9, 2011.
4. Participated in CEP Coordinators workshop on **“Software Development Techniques for Teachers of Engineering and Science Institutes”** conducted as part of FOSSEE project, IIT- Bombay during September 17-18, 2011.
5. Completed 2 week workshop on **“Research Methodologies”** organized by IIT-Bombay during June 25-July 4, 2012.
6. Participated in CEP Coordinators workshop on **“Database Management System”** conducted by IIT- Bombay during May 21-30, 2013.
7. Attended 1-week ISTE workshop on **“Computer Networking”** conducted by IIT-Bombay in June 2014.
8. Attended a 1-week ISTE workshop on **“Computer Algorithms”** conducted by IIT- Bombay in June 2015.
9. Attended 1-day Symposium on **“Disruptive Technologies”** conducted by SNDDT, Juhu, Bombay in March 2016.
10. Attended a 1-week ISTE workshop on **“Research Advances in Internet of Things”** conducted by the Information Technology department of Ramrao Adik College of Technology in June 2016.
11. Attended 1-week National Level Faculty Development Program on **“Real Time Protocol Implementation in WSN using NS3”** conducted by Sinhgad Institute of Technology, Lonavala, in May(22-26) 2017.
12. Attended AICTE Approved Foundation Program in **“ICT for Education “-FDP101x**, conducted by IIT Bombay from 3 August to 7 September 2017.

13. Attended One-Week AICTE approved FDP on '**Recent Trend in IOT & Cloud**' conducted by PES College of Engineering, Aurangabad, from 19<sup>th</sup> June 2017 to 24<sup>th</sup> June 2017.

### **Professional Background: Responsibilities**

1. Worked as **Editorial Board Member** for the Journal of Information Technology of the Department of Information Technology for the Issue of July-Dec 2010.
2. Conducted 10 days **ISTE workshop** on Software Development Techniques for Teachers of Engineering and Science Institutes conducted as part of FOSSEE project, IIT- Bombay as a Workshop Coordinator.
3. Worked as **Class Coordinator** of Second year of Engineering of Department of Computer Science & Engineering for the Semester December 2011-May 2011.
4. Worked as **Project Coordinator** of Department of Computer Science & Engineering for the Academic Year July 2011-July2012 and Academic Year July 2012-July2013.
5. Conducted 10 days **ISTE workshop** on Database Management Systems conducted by IIT- Bombay as a Workshop Coordinator in the academic year 2013-14.
6. Worked as **Project Coordinator** of Department of Information Technology for the Academic Year July 2014-July2015.
7. Worked as **Project Coordinator** of Department of Computer Science & Engg for the Academic Year July 2015-July2016.
8. Worked as **Class Coordinator** of the third year of Engineering of Department of Computer Science & Engineering for the Semester July 2016-December 2016.
9. Worked as **Project based learning (PBL)** Coordinator of second year and third year of Engineering of Department of Computer Science & Engineering for the Semester July 2016-December 2016.
10. Worked as **Class Coordinator** of the final year of Engineering of Department of Computer Science & Engineering for the Semester December 2015-May 2016 and Semester December 2016-May 2017.
11. Worked as **Coordinator for Makers day** 2017 organized in Pillai College of Engineering on 21<sup>st</sup> January to December 2017.

12. Worked as **Coordinator for Convocation Certificate Distribution ceremony** organized by Pillai College of Engineering on 25<sup>th</sup> February 2017.

13. Worked as Project **Coordinator** of Department of Computer Science & Engineering for the Academic Year July 2017-Dec 2017.

### **Previous Experience # 3**

College	: <b>Pad Dr. D.Y Patil College of Polytechnic.</b>
Designation	: I/C HOD.
Tenure	: January 18, 2006 to July 24, 2010.
Job Profile	: Conducting lectures and practicals for students, Managing department, Managing Websites updation and Performing Administrative, Curricular Development, Co-curricular and Research Development activities duties assigned by the MSBTE

### **Subjects Taught:**

1. Computer Organization
2. Java Programming
3. Visual Basic Programming
4. Computer Peripheral & Interfacing

### **Professional Background: Responsibilities**

1. Worked as **Sealing Supervisor** for the Maharashtra State Board of Technical Education Examination conducted in December 2008.
2. Worked as **Additional Coordinator in Regional Assessment Center** conducted by MSBTE Examination in December 2009.
3. Conducted as **Coordinator for National paper Presentation DYP TECHNO-SEM-2010** as Coordinator scheduled in February 2010.
4. Appointed as **Controller of Examination** in Father Agnel Polytechnic for carrying out Maharashtra State Board of Technical Education Examination in December 2010.



#### **Previous Experience # 4**

Company : **Powerloom Development & Export Promotion Council.**  
Designation : Software Programmer.  
Tenure : January 2002 to September 2003.  
Job Profile : The job involves developing in-house projects.  
It also involves maintenance of PDEXCIL's Members database & creating reports. It also includes updation and maintenance of PDEXCIL's website.

#### **Previous Experience # 5**

Company : **Shreyan Infotech Pvt. Ltd.**  
Designation : Software Programmer.  
Tenure : December 1998 to December 2001.  
Job Profile : The job involves developing portals using ASP, Jave, VB-Script, Java-Script, & MS-Access. It also includes updation and maintenance of portals.

#### **Previous Experience # 6**

College : **M.I.T. College of Engineering.**  
Designation : Lecturer.  
Tenure : Sept 1997 to May 1998.

#### **Subjects Taught:**

1. Computer Organization
2. Computer Organization and Networking

#### **Personal Website and Social Media**

Website: <https://manjudeshmukh2017.wordpress.com/>

Google Scholar: <https://scholar.google.com/citations?hl=en&user=Nr5OXWEAAAAJ>

Place: Nerul

Dr. Manjusha Dandare-Deshmukh

Date:     /     /2022