

DR.M.PUSHPA RANI – SHORT PROFILE

*Professor & Head
Department of Computer Science
Mother Theresa Women's University*

*Mobile: 9942035825
Email: drpushpa.mtwu@gmail.com*



Educational Qualifications : MCA, Ph.D

Academic - Designation and Current Position

- Professor & Head, Department of Computer Science, Mother Teresa Women's University, Kodaikanal.
- Director / Academic Coordinator, Mother Teresa Women's University, Madurai Centre. (2013 to till date).
- 25 Years of Teaching and Research Experience.

Awards / Honours Received

- **Glory of India** - International Award , Bangkok (October 2016)
- **Rashtriya Gaurav Award** - National (2016)
- **Dr. Radhakrishnan award of Excellence** - National (September)2016
- **Adarsh Vidya Saraswathi Rashtriya Purashakar** - National (May 2016)
- **Dr. Abdul Kalam Life Time Achievement National Award** (December 2015)
- **Teaching and Research Excellence Award** - National (November 2015)
- **Research Innovation Award** - International, Canada(May 2014)
- **Best Teacher Award** – National (2015)
- **Best paper Awards** in Conferences(2010, 2014, 2015) - 3
- **Best Student Award (March 1982)**

Research Interests

- Biometrics
Gait Analysis, Face & Skull Recognition
Signature Analysis, Iris Recognition and
Multi Model Systems
- Adaptive Learning System
- Information Retrieval, Image Processing
- Cloud Computing, Network Security

Research Publications

International Books	– 4
<ul style="list-style-type: none"> • Biometrics – What is What • Gait Analysis: Basic Concepts and Techniques • 1001 FAQs on Competitive Examinations in Computer Science • Technology Today and Tomorrow 	
Book Chapters (Including MacMillan Publishers)	– 64
Papers Published in International Reputed Journals	– 82
Papers Presented in International/National Conferences	– 140
National/International Seminars/Conferences Organized	– 50 +
International/National Conferences Participated	– 200 +

Responsibilities Held - Corporate Responsibilities

Academic

- University Executive Council Member- Mother Teresa Women's University
- University Academic Committee - Mother Teresa Women's University
- Co-ordinator for Internal Quality assurance Cell (IQAC) - Mother Teresa University
- Chairperson to Examination Passing board
- Chair person to Board of Studies - Mother Teresa Women's University,
- University nominee to Board of Studies for the affiliated colleges
- Member of Doctoral Committee
- Member of Staff Selection Committee- Subject Expert
- Board of Studies member & Examiner at Various levels to other Universities

- Member of University
 - Curriculum Development Cell
 - Career Counseling Cell
 - Entrepreneurship Development Cell
 - Staff Selection Committee
 - Inviting Renowned Foreign Professors Scheme
 - College inspection team
 - Sexual Harassment Cell
 - Technical Committee member for Funding Schemes

Co-Curricular

Coordinator

- Internal Quality Assurance Cell(IQAC)
- Establishing Smart Class rooms with Video Conferencing facility (Funded by Government of Tamil Nadu)
- Establishing Campus wide LAN and Wi-Fi Connectivity (Funded by MHRD)
- NSS (National Service Scheme)
- Energy Conservation Cell
- NME-ICT Nodal Officer
- Placement Officer
- Kani Tamil Peravai

Research / Consultancy Projects Completed

MNC Consultancy Projects – 5
UGC Research Projects – 3
Ongoing Research Projects – 2

Innovations & Contributions

- **Designed and Developed Multimedia based E-Content** on various subjects
- **Designed the Architectural frame work** for the Media rich **Adaptive Learning System**
- **Designed the Curriculum for various papers in MCA**
- **Designed and Conducted Add on Courses on Bio-Computing, Multimedia & Animation**
- **Prepared Syllabus based Books for 5 papers at MCA level**
- **Observer for the AIPMT(NEET) & JEE Entrance Examinations since 2008.**

Abroad Visit

- Visited Ryerson University, Toronto, Canada, May 2014
- Resource Person for the IEEE Canadian Conference CCECE 2014

Memberships in Professional Bodies

- International Association OF Computer Science and Information Technology (IACSIT)
- International Association of Engineers (IAENG)
- International Computer Science Teachers Association (CSTA)

Editor / Reviewer in International Journals

- Reviewer for the Elsevier International Journal on Neurocomputing (NEUCOM).
- Reviewer for the Elsevier International Journal on Knowledge Engineering, Department of Computing, the Open University, UK.
- Reviewer for the International Journal on Scientific Research and Essays - ISI INDEXED JOURNAL
- Editor & Reviewer for the JM International Journal of Information Technology

Highlights in brief

- **Got Ph.D** from Madurai Kamaraj University in the area of **Biometrics with Gait Analysis**
- Presently the **Professor and Head** of the Dept. of Computer Science
- **Director cum Academic Coordinator** for the Research and Extension Centre of the University at Madurai
- **Member of the Executive Council (EC – Syndicate)** of the University
- **Member of Academic Council (AC - Senate)** of the University
- **Co-ordinator of the Internal Quality Assurance Cell(IQAC)**
- **Chair Person of Examination Passing Board**
- **Member of Board of Studies**
- **Written 4 International books**
- Recipient of **Two International Awards**
 - **Glory of India - International Award , Bangkok**
 - **Research Innovation Award – International, Canada**

- Recipient of **Six National Awards**
 - **Rashtriya Gaurav National Award**
 - **Dr. Radhakrishnan award of Excellence - National Award**
 - **Adarsh Vidya Saraswathi Rashtriya Purashakar - National Award**
 - **Dr. Abdul Kalam Life Time Achievement - National Award**
 - **Teaching and Research Excellence Award - National Award**
 - **Best Teacher Award - National Award**
- Recipient of **3 best paper Awards** in Conferences(2010, 2014, 2015) - 3
- **Contributed book chapters** in Macmillan Publishers based books like **Innovations and Advances in Communications, Information and Network Security**
- **Written 5 books** including Digital Image Processing, Operating Systems, System Software, Numerical analysis and Programming in C at PG level for University Syllabus.
- **Designed and Developed multimedia based E-content** on various subjects for Undergraduate level courses.
- **Designed the Architectural frame work** for the Media rich **Adaptive Learning System**
- **Co-ordinator and Nodal Officer** for Establishing **ICT based Govt Schemes** like **Smart Class rooms, NME-ICT LAN Connectivity, Wi-Fi Connectivity etc.**
- **Served as NSS Co-ordinator and Energy Conservation Cell Co-ordinator**
- **Observer for the AIPMT[NEET], JEE Entrance Examinations since 2008.**
- **Convenor & Examiner for conducting Ph.D Viva – Voce Examinations** for various **Universities.**
- **Invited Speaker in the IEEE Canadian Conference** on Electrical and Computer Engineering CCECE 2014 at **Ryerson University Toronto, Canada.**
- **Honoured** as Chief Guest in many International/National Conferences, Symposiums and Technical meets.
- **Published 82 research articles** in globally accredited technical journals with high impact factor.
- **Presented 140 technical papers** in international and National conferences in areas including GAIT Analysis, Biometrics, Image Processing, Network Security, Cloud Computing and Adaptive learning systems.

- **Presided and delivered Key Note addresses** and contributed as resource person in nearly **50** International/National Conferences/ seminars, workshops and shindigs.
- **Organized over 50** seminars / workshops for faculty and students on wide areas including Image Processing, Bioinformatics, Career Guidance & Personality development and Quality Research.
- **Participated by selection**, over 20 UGC/CEC sponsored special training programmes, including high performance Computing, Computer Applications and Adaptive Learning Systems.
- **Participated by selection and served as Panel member**, in various technical workshops and shindigs organized by reputed industries like **Microsoft Research & TCS** as a special invitee.
- **Participated over 200** International/ National Conferences
- **Research Supervisor for Ph.D and M Phil Scholars**
- **Research guidance** given for more than **40** Mphil Dissertations
- Given **technical guidance** for more than **420** PG projects
- **Guiding** 8 Ph.D and 6 M.Phil Scholars currently
- Member in various **International Professional bodies**
- **Eminent speaker** on Motivation, Leadership and Personality development Programmes