FACULTY PROFILE TEMPLATE

Personal Information:

- **Name: K. MEENA**

- **Designation/Position: Assistant Professor**

- **Department: Department of Computer Science**

- **Email: kmeena@pmu.edu**

- **Phone Number: 7708415001**

- **Office Address: Periyar Knowledge Centre, First Floor,**
  Department of Computer Science
  Periyar Maniammai Institute of Science and Technology
  Vallam, Thanjavur

Educational Background:

Degree	Major/Field	Institution	Year of Graduation
Ph. D. (doing)	Time Series Visual Analytics	National Institute of Technology, Triuchirapalli	Doing
M.E.,	Computer Science and Engineering	Periyar Maniammai University, Vallam, Thanjavur	2011
B.E	Information Technology	Periyar Maniammai College of Technology for women, Vallam, Thanjavur.	2003

Research Interests:
- Time Series Analysis
- Pattern Miing
- Machine Learning
- Artificial Intelligence
- Deep Learning
- Multimedia
- Cryptography and Network Security

Teaching Interests:

- Multimedia Systems
- Computer Networks
- Introduction to IT
- Network Design Security and Management
- Computer Graphics and Multimedia
- Cryptography and Network Security
- Object Oriented Analysis and Design
- Information Security
- Linux Programming
- Advanced Data Structure
- Advanced Java Programming
- Object Oriented Software Engineering
- Theory of Computation
- Distributed System
- Computer Architecture
- Network Engineering
- Cloud Computing
- Information Security
- Computer Animation
- Software Engineering
- Graphics Design
- Media Technologies
- Audio and Video Editing

- **Journal Articles:**

o V.R. Sindhuja, K. Meena, "Privacy conserving multi-key term Graded Search Over Encoded Rain Cloud Data," *International Journal of Computer Science and Engineering (IJCSE), January issue 2015. Volume 3 issue 1, pp. 197-205, ISSN: 2347-2693*

o K. Meena, V. Akilandeswari, R. Gomathi, "Wrist Wearable Health Monitoring System for Mentally Retarded Persons," *International Journal of Engineering Research and Technology (IJERT), Volume 4, issue 19, March 2016, ISSN: 2278-0181.*

o K. Meena, P. Ilangovan, "APPs on e-Governance for Solid Waste Management," *International Journal of Computer Science Engineering (IJCSE), Volume 5 No.4, July 2016, ISSN: 2319-7323. Pp. 212-215*

o K. Meena, V. Sathiya Prabha, "Ostensible Scholastic System – A Next Generation e-learning Environment," *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Volume 5, issue.3, March 2017, ISSN: 2320-9801.* DOI: 10.15680/IJIRCCE.2017. 05032225 pp. 4871-4877

o K. Meena, P. Ilangovan, "A STUDY ON BIG DATA VISUAL ANALYTICS," *Indian Journal of Science and Research, 14 (1): 173-175, 2017 ISSN: 0976-2876 (Print), ISSN: 2250-0138 (Online)*

o K. Meena, R. Gayathri, "Detecting of Anomaly Activities in Credit Card Transaction using Machine Learning Algorithm," *Journal of Emerging Technologies and Innovative Research,* Volume 6, Issue 5, May- 2019, ISSN: 2349-5162 pp. 323-328

o K. Meena, VINOTH PRIYA M, "Detection of Leaf Diseases using K-Means Clustering Algortihm in MATLAB," *Journal of Emerging Technologies and Innovative Research,* Volume 6, Issue 4, April- 2019, ISSN: 2349-5162 pp. 19-24

- **Conference Papers:**

International Conference

o K. Meena, G. Thiruchelvi, "Enhancing Internet Robustness based on Congestion Control Mechanism using a New AQM algorithm - CCU," *International Conference on Advances in Engineering and Technology, E.G.S pillay Engineering College*, *Nagapattinam, 27 May,* 2011.

o K. Meena, P. Ilangovan, G. Mohana, "A Multiple Average- Multiple threshold AQM mechanism for emergency traffic," *International Conference on Algebra and its application, Periyar Maniammai University, Thanjavur, 14,15 Dec, 2012*.

o A.V. Aruna, K. Meena, "Spoken Document Retrieval with Interactive Manner Suggested Key Terms Ranked by A Markov Decision Process Using Clustering Algorithm," *2nd IEEE International Conference on Communication and Signal Processing, Department of Electronics and Communication Engineering, Adhiprasakthi Engineering College, Melmaruvathur, 3rd, 4th and 5th April 2013.* ISBN: 978-1-4673-1620-0.

o K. Meena, P. Ilangovan, "Predicting Heart Attack Through Wrist Watch Nano Sensor," Inter*national Conference on Disaster mitigation and Management towards Sustainable development, Periyar Maniammai University, Thanjavur,2/12/2013 to 4/12/2013*.

o K. Meena, P. Ilangovan, "A study on Big Data Visual Analytics," *International conference on Emerging trends in engineering, science and sustainable technologies, Periyar Maniammai University, Thanjavur,20/2/2017 to21/2/2017*.

o K. Meena, "Demonstration of Subnetwork Connection Protocol as a Protection Mechanism in SDH Networks using Tejas SDH switches," *International conference on Innovative Technologies in Electronics and Health Care, Periyar Maniammai University, Thanjavur,12/3/2019 to 13/3/2019.*

- K. Meena, "A Study on VLAN Based Switching in Next Generation Network," *International conference on Innovative Technologies in Electronics and Health Care, Periyar Maniammai University, Thanjavur,12/3/2019 to 13/3/2019.*

- K. Meena, R. Gayathri, "Detecting of Anomaly Activities in Credit Card Transaction using Machine Learning Algorithm," *International conference on Advanced Trends in Commuincation & Technology, Department of Computer Science & Applications, Vivekanandha College of Arts and Sciences For Women, Elayampalayam jointly with Asia Pacific University of Technology & Innovation, Malaysia Thanjavur,22/3/2019 to 23/3/2019.*

- K. Meena, "High Dimensional Multivariate Time Series Data Visualization using an Open-Source Framework," *International conference on Recent Trends in Computing, Communication and Networking Technologies, Kings Engineering College, Chennai,18/10/2019 to 19/10/2019.*

National Conference

- D. Umamaheswari, K. Meena, "Analysis of Software Intellectual Property Protection Techniques," *National Conference on Emerging Intelligent Information Technologies, Infosys Technologies Ltd., Karpagam College of Engineering, Coimbatore, 12.08.2005 to 13.08.2005.*

- K. Meena, P. Ilangovan, "An AD-HOC Routing Protocol in Hybrid Wireless Network For Emergency Communication," *National Conference on Role of Information Technology in Disaster Management, Periyar Maniammai University, Thanjavur, 09.03.2010 to 10.03.2010.*

- K. Meena, "A Routing Protocol in Hybrid Wireless Network For Emergency Communication," *National Conference on Recent Trends in Communication, Electronics & Information Technology, CMR Institute of Technology, Bangalore, 23-04-2010 to 24-04-2010.*

- G. Mohana, K. Meena, "An Efficient Approach to Network Intrusion Detection Using Genetic Algorithm," *National Conference on Advanced Computing and its Application, KGiSL Institute of Information Management, Coimbatore,* 18/02/2011. ISBN: 978-81-910178-1-6 ISSN: 2229-7812

- K. Meena, G. Thiruchelvi, "Classify and Control Unresponsive Flows Based on Adaptive Congestion Control Mechanism," *National Conference in Computer Engineering and Networking, PSNA College of Engineering and Technology, Dindigul, 05-03-2011.*

- K. Meena, G. Thiruchelvi, "An Adaptive Congestion Control Mechanism for Unresponsive Flows using New AQM algorithm - CCU," *National Conference on Advanced Computing sponsored in part by Defence Research and Development Organisation, CSI College of Engineering, Ketti, The Nilgris, 25/3/2011.*

- K. Meena, G. Thiruchelvi, "Control Unresponsive Flows using a New AQM algorithm - CCU," *National Level Conference on Information Science & Engineering, PSN College of Engineering and Technology, Tirunelvi, 4/8/2011.*

- K. Meena, Saranya, "Optimization of Multideployment and MultiSnap Shotting on CLOUDS," *National Conference on Emerging Technologies in Advanced Computing, M.I.E.T Engineering College, Trichy, 11/4/2012.*

- K. Meena, P. Ilangovan, "An effective & efficiency key distribution scheme for Wireless sensor networks," *National Conference on Information Science and Engineering, PSN College of Engineering and Technology, Tirunelvi, 21/3/2012.*

- K. Meena, P. Ilangovan, "Predicting Heart attack by wrist watch through nano sensor," *National Science Conference, Periyar Maniammai University, Thanjavur,28/2/2013.* ISBN: 978-81-924767-2-8

- K. Meena, P. Ilangovan, K. Natarajan, "Design and implementation of Cloud based education system model using Tablet PC in rural India," *National Conference on Efficient Implementation of Recent IT trends for rural development, Periyar Maniammai University, Thanjavur,11/9/2013 and 12/9/2013.*

- K. Meena, P. Ilangovan, "Health Teller Machine (HTM)," *National level Technical Symposium, Periyar Maniammai University, Thanjavur,3/4/2014 and 4/4/2014.*

- K. Meena, "Wrist Wearable Health Monitoring System for Mentally Retarded Persons" 4th *National Conference on Innovation in Computing and Communication Technology, Department of Computer Science and Engineering, Kongunadu College of Engineering and Technology, 25/3/2016.*

Professional Experience:

Position Institution/Organization Duration

Assistant Professor	Periyar Maniammai University	December 2003 to till date

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Awards and Honors:

- Received **Mrs Kalaichelvi Gopalan Outstanding Teacher Award** during the year 2006 – 2007.
- Received **Meritorious Certificate for the Commendable work done for PRESENTATION** during the year 2008 – 2009.
- **Won Second prize** in the National Conference on Role of Information Technology in Disaster Management on 09.03.2010 & 10.03.2010.

Grants, Funding and Consultancy:

- o ONLINE NAVIGATION SYSTEM FOR VISUALLY DISABLED PEOPLE ON MOBILE BASED, TNSCST SPS, Rs. 7500, 2013-2014
- o EDBOT-3G, TNSCST SPS, Rs. 6000, 2011-2012
- o PHONE MAIL, TNSCST SPS, Rs. 5000, 2006-2007

Professional Memberships:

- **ISTE** – LIFE MEMBER
- **CSI** – LIFE MEMBER

Invited Talks and Conferences:

- o Resource Person for One Day Workshop on "Programming in Python" to the BCA students of Bon Secours College for Women on 6.12.2019, organized by Department of Computer Applications, Bon Secours College for Women, Thanjavur.

- o Resource Person for Faculty Development Programme on "Using ICT Tools in Teaching" to the School Teachers on 16.05.2019, organized by Periyar Centenary Memorial Matriculation Hr. Sec.School, Trichy.

- o Guest Speaker on "Various Network Simulators- NS2" at St. Joseph College of Engineering and Technology, Elupatti, Thanjavur on 12th March 2014.

- o Speaker on "Multimedia in Journalism" at State level seminar on "Role of Information Technology in Journalism" on 12th October 2012 organized by Media Producer's Club & Thinkers Club, Periyar Maniammai University, Thanjavur.

Community and University Service:

- Faculty Coordinator for conducting prelim rounds at Periyar Maniammai University of UTKRAANTI'16 in association with Chemclave'16 IIT Madras organized by Wingfotech Excellence on 10-3-2015 and 11-3-2015.
- Committee coordinator for Prizes & Certificates, Shawl & memento committee in National Conference on "Efficient Implementation of Recent IT trends for Rural Development"
  September 2013.
- Qualified Trainer in Centre of excellence for Next Generation Network (Tejas Network).
- Coordinator for Children's Conclave in ICT Festival 2013

- Member in Periyar PURA website development team
- Member as University presentation preparation team
- Committee coordinator for Prizes &Certificates, Shawl & memento committee in OPEN HOUSE 2012
- Staff Co-ordinator in the SOFT SPARK'06 Symposium held on 29th and 30th September 2006
- Class in charges. (2003-till now)
- Counselor (2003 – till now)
- Member in Design and Development team of Zero Carbon handbook and E-Governance Handbook

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Languages:

- Tamil - Fluent, English - Fluent

Hobbies/Interests (Optional):

- Listening Music
- Reading Books
- Art works
- Playing Ball badmiton
- Playing shuttle