

Dr. MamathaM.N.

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Professor

Dept. of Electronics & Communication.

BMS College of Engineering, Bangalore

Ph: 9964066225

EDUCATION

Vinayaka Missions University | 2008 - 2012

- Ph.D. in Electronics and Communication Engineering.
- Thesis titled: Development of Novel Algorithms and Architectures for Patient Care Monitoring System and Diagnosis.

University of Bangalore- BMSCE | 1997 - 1999

- M. E. in Electronics and Communication Engineering.

Mysore University -SJCE | 1989 - 1993

- B. E. in Instrumentation Technology.

EXPERIENCE

BMS College of Engineering

Professor, July 2013 till date

Head of the Department, Department of Electronics & Instrumentation, Dec 2016 to Jan 2019

Associate Professor, July 2010 to July 2013

Assistant Professor, July 2007.

Date of Joining: April 1995

ROLES & RESPONSIBILITIES

- Administration
- Teaching
- Mentoring/ Proctoring
- Coordinator -NBA (First Accreditation of the Program)
- International Teaching Assistant- IUCEE.
- Session Chair - International Conferences (INDIA / Abroad)
- Reviewer - - International Conferences
- Member – BOS at VTU (2013) / RVCE (2014) / Institute level (2012)
- Member – BOE at Institute level
- Member- Advisory Board, Department of E&I, BIT, Bangalore.
- Coordinator -Set up /Strengthening of department labs as per autonomous Curriculum
- Guide -PhD
- Guide-Student Projects Undergraduate Program (Department / Interdepartmental).
- Coordinator / Convener - Workshops and guest lectures
- Member -Industry Institute Interaction Cell at Institute level
- Member -Anti-ragging Squad- Institute level (present).
- Timetable Officer - department level
- Member- Departmental procurement committee
- Member - Project Committee
- Member- Technical Committee (Centre of Excellence) –Altair India Private Limited
- Member – Staff Selection committee.

ACHIEVEMENTS

- **International Teaching Assistant / Evaluator** – IUCEE-IGIP (May 2016 - 2019)
- **Resource Person** -Webinar - Distributed cognition considered as a single cognition system among learners. **May 21, 2019** (<https://attendee.gotowebinar.com/register/3316428734095030797>)
- **Topper - IUCEE- Microsoft** – IGIP International Engineering Educator Certification program September 2015 – May 2016
- **Teaching Assistant** - IUCEE – Microsoft – IGIP International Engineering Educator Certification program December 2016 to March 2017
- **Best paper award** -International conference on advancements of medical electronics- ICAME 2015
- **Guest lecture** on “Journey into light – a special life of Sir C.V. Raman” at National Science Week Program held on 28-02-2012 at Visveswaraya Industrial Technological museum, Bangalore.
- **Jury Member** -Student project exhibition-National Science week at Visveswaraya Technological Museum 2013
- **Session Chair**- IEEE International Conference on communication and control devices (**ICCCD**) **2011**, Bali, Indonesia, April. /,IEEE International Advance Computing Conference (**IACC**) **2015**,International Conference on Advances in Robotics, Energy and Network Systems **ICARENS2017** & MOOCs & Innovations in Technical Education **MITE-2017**.

Reviewer

- Journal of applied aquaculture -Taylor and Francis 2018
- International Conference on Transformation Engineering, 2015, 2016, 2017,2018.
- International Conference on Industrial Instrumentation and Control (ICIC), 2015
- **Project guided** -
 - "Intelligent Ambulance System" was recognized as one of the top 17 projects in the country in “SHRISTI2015” and this was also awarded with KSCST grant.
 - "SFAAS -Smart fetal ECG acquisition and analysis system" was selected for Niyantara2015"
- Project Guided won second Prize in “SHRISTI2006” - A State Level exhibition at GMIT, Davangere on 180506& also at Dayananda Sagar college of Engineering on 170506.

INTERNATIONAL JOURNALS

- **Mamatha M. N.**, “Visual feedback system for visually impaired using tACS – a proof of concept study” , Journal of Emerging Technologies and Innovative Research. Vol 6, Issue 1, Jan2019.
- **Vani A, Mamatha M. N.** "Artificial generation of visually evoked potentials to enhance visual ability", 18th International Conference on Medial Engineering, International Journal of Medical, Health, Biomedical, Bioengineering and Pharmaceutical Engineering Vol:10, No:9, 2016
- **Mamatha M. N**, ShreyasMoudgalya, “Voice Operated Wheelchair for the Disabled” International Journal of Artificial Intelligent Systems and Machine Learning (CIIT), ISSN 0974 – 9667 & Online: ISSN 0974 – 9543, Feb 2013.
- **Mamatha M. N**, S. Ramachandran and M.Chandrasekaran, “Design Of Bio Signal Sensors and Signal Conditioning Circuits” International Journal of Artificial Intelligent Systems and Machine Learning (CIIT) ISSN 0974 – 9667 & Online: ISSN 0974 – 9543, April 2012.

- **Mamatha M. N**, S. Ramachandran and M. Chandrasekaran, "Enable The Disabled A Smart Sensor Design Analysis in Brain Machine Interface Using Labview", International Journal of Computer applications [IJCA], Vol. 17, No. 2, pp. 1-5, ISSN:0975-8887, March 2011.
- **Mamatha M. N** and S.Ramachandran, "A Novel Algorithm Design Approach for Biopotential Acquisition in Brain Machine Interface", International Journal of Material Science and Engineering [JMSE], USA, Vol. 4, No. 8, pp. 6065, ISSN: 1934-8959, Aug. 2010.
- **Mamatha M. N**, S. Ramachandran and M. Chandrasekaran, "Interactive robot in human machine interface for partially paralytic patient", International Journal of Engineering Science and Technology [IJEST], Vol. 2, No. 8, pp. 3846-3853, ISSN: 0975-5462, Aug. 2010.
- **Mamatha M. N** and S.Ramachandran, "Automatic Eyewink Interpretation system using face orientation recognition for Human Machine Interface", International Journal of Computer Science and Network Security [IJCSNS], Vol. 9, No. 5, pp. 155-163, ISSN: 1738-7906, May 2009. -Citations -8

INTERNATIONAL CONFERENCES

- **Mamatha M. N**, "Distributed cognition considered as a single cognition system among learners", ICTIEE 2019.
- **Mamatha M. N**, "Design Of Single Patient Care Monitoring System And Robot", International Conference Remote sensing and Virtual Instrumentation 2019.
- Kumuda S, **Mamatha M. N**, "Biotelemetry over TCP/IP InLabVIEW", International Conference International Conference Remote sensing and Virtual Instrumentation 2019.
- Dr. Santosh R Desai, Prof. Preethi K Mane, Dr.Veena N. Hegde and **Dr.Mamatha M.N** Presented a paper in 5th IEEE International conference – MITE 2017 Paper Title: "An Approach for Evaluating Program Educational Objectives Using Indirect Method" at BMSCE, Bangalore.
- **Mamatha M. N**, **Namratha S.N**," Design & implementation of indoor farming using Automated Aquaponics system" IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM), Aug 2nd – 4th 2017 , Vel Tech Dr.RR& Dr.SR University, Avadi, Chennai, Tamil Nadu, India.
- **Mamatha M. N**, "Using ARCS Theory to Measure the Motivational Enhancement of Collaborative Activities in Bio-Medical Instrumentation", ICTIEE , Jan 10-11th 2017, Jaipur.
- **Vani A**, **Mamatha M. N**, "Artificial generation of visually evoked potentials to enhance visual ability", 18th International Conference on Medial Engineering- ICME, 2016, organized by World Academy of Science, Engineering and Technology, Chicago, Sept. 2016.
- **Mamatha M. N**,"Development of Novel Architectures for patient care monitoring system and diagnosis", International Conference on Advancements of Medical Electronics- ICAME, 2015.
- **Mamatha M. N**, "Advanced Wheelchair", IETE Conference: ICON RFW-14, May, 2014
- **Mamatha M. N**, "Virtual Patient Simulator", International Conference on Bioinformatics, Computational Biology and Biomedical Engineering (IBCBBE), organized by World Academy of Science, Engineering and Technology, Singapore, Sept. 2013.
- **Mamatha M. N** and S. Ramachandran, "Eyebot A Human Machine Interface", International Conference on Convergence of Science and Engineering and Research (ICSE), Bangalore, India, April 2010.
- **Mamatha M. N**, S. Ramachandran and M. Chandrasekaran, "Smart Sensor Design Analysis Applicable for Brain Machine Interface Using Multisim", IEEE International Conference on communication and control devices (ICCCD), Bali, Indonesia, April. 2011.
- **Mamatha M. N** and S. Ramachandran, "Communication Based Acquisition of Biopotentials for Patients with Cognitive Abilities", International conference on integrated intelligent computing (ICIIC), Bangalore, Aug. 2010 by IEEE Computational society.

- **Mamatha M. N** and S. Ramachandran, "Design and Implementation of Hardware for Automatic Bio Signal Acquisition for Human Perception in Patients with Cognitive Disabilities", International Conference on System Dynamics and Control (ICSDC), Manipal, Mangalore, India, Aug. 2010.