

Dr. M. Malini
Professor

Dept.of BME, University College of Engineering, Osmania University,
Hyderabad -500 007, Telangana, INDIA
Telephone 91 40 27090083, + 91 9849648110 e mail: malini.m@uceou.edu

ACADEMIC CREDENTIALS

B.E.(Biomedical Engineering) from University College of Engineering, Osmania University, 1988

M.E. (Biomedical Engineering) from Indian Institute of Technology, Bombay, 1991

Ph.D. (Biomedical Engineering) from University College of Engineering, Osmania University, 2010

RESEARCH GUIDANCE

No. of Research Scholars -8 (Registered and ongoing)

RESEARCH PUBLICATIONS

International journal papers - 14

National journal papers - 4

International conference papers - 13

National conference papers - 11

Chapter in Lecture notes (Springer Publication) - 1

AREAS OF RESEARCH INTEREST

- ⇒ Driver alertness evaluation
- ⇒ Gait Analysis of Parkinson's and other neuromuscular disorders
- ⇒ Brain Computer Interface applications
- ⇒ Medical Signal Processing
- ⇒ Embedded Medical instrumentation

Profile Summary

- ⇒ A Competent professional with over **20 years** of experience in Teaching and over **10 years** in Research
- ⇒ An effective communicator with excellent interpersonal and relationship management skills
- ⇒ Demonstrated experience and skills in developing curriculum to accommodate different learning methods and maximizing students' comprehension
- ⇒ Experience of teaching students by using interactive discussions and assignments to promote student-centric learning
- ⇒ Possess impressive writing skills with 43 research papers.

MAJOR ADMINISTRATIVE RESPONSIBILITIES

Head, Dept. of BME, UCE, OU	February 2015 – March 2017 February 2010 – February 2013
Chairperson, BOS in BME, OU	February 2003 – February 2010 February 2013 – February 2015

Related Responsibilities in OU

- Establishment of Biomedical Engineering Laboratories
 - Member, Departmental Committee for Biomedical Engineering, OU
 - Member, Departmental Research Committee for Biomedical Engineering, OU
 - Department Member, library Committee, University College of Engineering,OU
 - Member, Faculty of Engineering (2002-2007, 2010-till date)
 - Member, Panel of Examiners, College of Engineering, OU
 - Department Convener, NAAC (2006-2008)
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Extension activities to other institutions

- Member, Board of Studies in BME, JNTU, BVRIT and GRIET
 - Subject expert, (BME), Examinations Committee, Diploma Examinations, State Board of Technical Education and Training, Andhra Pradesh
 - Member representing educational institutions, Board of Governors, Government Institute of Electronics
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EMPLOYMENT PROFILE

December 2014– till date	Professor, Dept. of BME UCE (A), OU
December 2008– December 2014	Associate Professor, Dept. of BME UCE (A), OU
January 2002 – December 2008	Assistant Professor, Dept. of BME, UCE (A), OU

R and D Activities

Co-investigator in the University with Potential for Excellence (UPE) project of UGC titled **“Design and development of RF generator for the hyperthermia treatment of cancer”** of worth more than Rs. 30 Lakhs

Principal investigator for the UGC Minor Research Project titled **“Wireless Data Acquisition System for Vital Sign Monitoring”** worth Rs 2.64 Lakhs

PATENTS APPLIED

Applied for Indian patent on **“Portable Non-invasive Multi-wavelength photo plethysmographic measuring technique for Hemoglobin”** in November 2016 (Application No. 201641039799) in a team of four

PROFESSIONAL ENHANCEMENT INITIATIVES

Attended a Four-week **Orientation Course on Value education** in UGC- Academic Staff College, Osmania University, December 2005

Attended a Course on **Signal Processing and DSP processors** conducted by Dept of Electronics & Communication Engineering, University College of Engineering, OU, July 31 - August 3 2002

Attended a Course on **Digital Signal Processing and DSP Processors (Analog Devices)** conducted by Dept of Electronics & Communication Engineering, University College of Engineering, OU, November 18 – 22, 2003

Attended a Workshop on **Biomedical Signal Acquisition & Processing** conducted by Dayanand Sagar College of Engineering, Bangalore, March 16 – 17, 2006

Attended a **National Workshop on Biostatistics: Applications of Computational Statistics in Medicine and Biology (ACSMB - 2011)** organized by the **School of Medical Science and Technology, IIT Kharagpur**, September 8-10, 2011

Attended a two-week **Faculty Development Programme on Recent Trends in Automation and Control** sponsored by **AICTE** and organised by CVR College of Engineering, Ibrahimpatnam, R.R. District, November 11-22, 2013

Attended a **Training Program on Management Capacity Enhancement for Administrators**, August 18-22, 2014 conducted by **IIM, Bangalore** under TEQIP phase II.

Attended an International Workshop on **“Challenges and Opportunities in Bioengineering, Biomedical Devices and Platforms”** organized by the **National Design and Research Forum, The Institute of Engineers (India)**, July 29-30, 2015 at NIMHANS Convention Center, Bengaluru

Attended TEQIP sponsored **“International Winter School and Hands-on Training Programme on Nano-biotechniques (I WiSHNanoBio: 2016)**, organized by Department of Biotechnology & Centre for Nanotechnology **Indian Institute of Technology Roorkee**, Uttarakhand, India. February 09-14, 2016

WORKSHOPS ORGANISED

- National Workshop on Convergence of Nano Bio Info Cogno for Biomedical Innovations under TEQIP-II, August 1, 2014, Dept. of BME, UCE OU
- One-Week Faculty Development Programme on Microcontrollers & their Applications under TEQIP-II, June 30-July 5, Dept. of BME, UCE OU
- National Workshop on Cognitive Sciences & Neuro Signal Processing under TEQIP-II, December 24, 2013, Dept. of BME, UCE OU

NETWORKING AND COLLABORATION

- **NIMS Hospital-** Development of saccadic stimulator and collection of saccadic eye movement data
- **CARE Hospital-** PG project work in Cardiovascular Electrophysiology
- **Durgabai Deshmukh Hospital & Research Centre** –Provision of teaching for II year II semester students of BE(BME)
- **KIMS Hospital-** Member, Doctoral Committee for the Ph.D. of Dr.Rammohan Rao

MEMBERSHIP IN PROFESSIONAL BODIES

- Life Member, Biomedical Engineering Society of India
 - Life Member, Indian Society for Technical Education
 - Member, Institution of Engineers (India)
 - Life Member, Instrument Society of India
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