

## ***Ms. Deepa***

**Assistant Professor  
Department of E&CE  
BIET, Davangere  
[bm.deepa@gmail.com]**



### ***Work Experience : 13 Years***

- **Worked as Lecturer in the Department of Biomedical Engineering, Bapuji Institute of engineering and Technology Davangere from August 2006 to August 2008.**
- **Deputed for higher studies from the institute to BVBCET, Hubli in 2008.**
- **After the completion of Masters Degree, i.e. from July 2010 to September 2012, worked as Lecturer in the Department of Biomedical Engineering, Bapuji Institute of Engineering & Technology, Davangere**
- **Promoted as Assistant Professor in October 2012 in the Department of Biomedical Engineering.**
- **Transferred to Department of Electronics and Communication Engineering as Assistant Professor on 25<sup>th</sup> November 2017.**

### ***Educational Qualification:***

- **Pursuing PhD under VTU in Biomedical Signal Processing, registered in the year 2015.**
- **M.Tech [Digital Electronics] from BVBCET (Autonomus Institute), VTU, 2010 with First Class with Distinction.**
- **B.E [Biomedical Engineering] from Bapuji Institute of Engineering and Technology, VTU, 2006 with First Class.**

### ***Roles and Responsibilities:***

- **Department NBA Criteria 2 Coordinator**
- **Department ERP Coordinator (Electronics and Instrumentation Engineering)**

## ***Awards:***

- Awarded as “Best Teacher” with silver medal from Bapuji Institute of Engineering and Technology, Davangere for having obtained cent percent results in the subjects taught for the academic year 2006-2007.
- Secured II Prize in “Kannada Padabandha” competition organized by N.S.S and Computer science Engineering Department on the eve of Kannada Rajyotsava on 22<sup>nd</sup> Nov 2016.

## ***Membership:***

**Life Member of Indian Society for Technical Education. Number: LM53837**

**Life Member of The Institution of Engineers (India). Number: M-165631-1**

## ***Core Subjects Taught:***

**Engineering Physiology, Bioinstrumentation, Clinical Science IV (Radiology & Radiotherapy), Clinical Science II (ENT & Anesthesia), Clinical Instrumentation 2 (Neurology, Orthopedics, & Anesthesia), Analog Electronic Circuits, Biomedical Equipments, Biomedical Transducers & Measurements, Linear IC's & Applications, Medical Informatics, Low Power VLSI Design, Bio-MEMs, VLSI Design, Computer Communication & Healthcare Networks, Embedded system design and programming, Communication systems.**

## ***Seminars/Workshops/Events Organized:***

- Organized a talk on “Scope and Opportunities of Biomedical Engineering” by Mr. Praveen Gowda, CEO and Co-founder, Arera Technology, Bengaluru, on 29<sup>th</sup> August 2016.
- Organized Two-Day Workshop on “Smart Sensors”, in association with Department of E&IE, BIET, Davangere and Applied Cognition Systems Private Limited, Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> February 2016.
- Organized one day workshop on “New Challenges and Opportunities in Health Care”, in association with Applied Cognition Systems, Bangalore on 15<sup>th</sup> February 2014.

- Organized an invited talk on “Information Communication Technology for Elderly Care” on 6<sup>th</sup> December, 2013.
- Organized the Two days Workshop on “Signals and Systems” from 20<sup>th</sup> – 21<sup>st</sup> September, 2013
- Organized Shuttle Badminton Tournament “BM CUP-2013” from 27<sup>th</sup> – 29<sup>th</sup> April 2013
- Organized 6<sup>th</sup> National Level Students’ Technical Symposium “BME Explore2013” on 9<sup>th</sup> April 2013
- Organized “Voluntary Blood Donation & Blood Group Testing Camp” on 22<sup>nd</sup> March 2013.
- Organized 5<sup>th</sup> National Level Student Symposium on “Emerging Areas in Biomedical Engineering BME-EXPLORE-2012” on 26<sup>th</sup> March 2012.
- Organized two days workshop for students on the topic “Medical Image Processing Tools” from 24<sup>th</sup> – 25<sup>th</sup> February 2012.
- Organized an invited talk on “Recent trends in Radiology & Radiodiagnostics” on 24<sup>th</sup> February 2012.
- Organized 4<sup>th</sup> National Level Technical Student Symposium on “Emerging areas in Biomedical Engineering “BME EXPLORE-2011” on 9<sup>th</sup> April 2011.
- Organized a talk on “Health Screening: Importance of Blood and Urine Investigation” on 28<sup>th</sup> September, 2010.
- Organized a workshop on demonstration of “Latest Biomedical Instruments” on 2<sup>nd</sup> September 2010.
- Organized Extension Lecture Programs on “Lasers & Applications” on 22<sup>nd</sup> September 2007, and “X-rays in Biomedical Field” on 29<sup>th</sup> September 2007.
- Organized a State Level “STROKE REHABILITATION AWARENESS & SCREENING CAMP” in association with Stroke Rehabilitation Foundation, Bangalore and Youth Red Cross Wing, BIET from April 28<sup>th</sup> – 29<sup>th</sup>, 2007

### ***Seminar/ Workshops/Webinars Attended :***

- Participated in Webinar on “Biodiversity and Water Usage Habits” on 5<sup>th</sup> June 2020, organized by Department of Civil Engineering, VSM’s Somashekhar Kothiwale Institute of Technology (VSMSRKIT), Nipani.
- Participated in Webinar on the eve of “World Environment Day-2020” on 5<sup>th</sup> June 2020, organized by National Service Scheme, Indian Society for Technical Education, Youth Red Cross Wing –BIET, held at Bapuji Institute of Engineering and Technology, Davangere, Karnataka.

- **Attended one day Workshop on “eSim, a First Course in the IoT Series for Teacher”**, held at Bapuji Institute of Engineering And Technology in IS&E Department on 21<sup>st</sup> September 2019 organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Malaviya National Mission on Teachers and Training (PMMNMTT), MHRD Govt of India.
- **Attended one day seminar on “Business Analytics”** conducted by Dr. Pranab S Deb, Associate Dean, Kirloskar Institute of Advanced Management Studies, Harihar on 31<sup>st</sup> August, 2019 at Bapuji Institute of Engineering and Technology.
- **Attended six days Faculty Development Program (FDP) on “Applications of LabVIEW in Engineering & Research”** conducted by VI Solutions organized by Department of Electronics and Communication Engineering, held from 28<sup>th</sup> January to 2<sup>nd</sup> February 2019 at BIET, Davangere.
- **Attended one day seminar on “Role of Woman in Societal Reforms”** organized by Dept. of IS&E in association with ISTE Faculty Chapter, NSS, YRCW, BIET, Davangere on 10<sup>th</sup> March 2017.
- **Attended the Workshop on “Research Methodolgy and LATEX”** organized by VTU e-Learning Centre, Mysuru from 20<sup>th</sup> – 22<sup>nd</sup> Dec 2016 at Rajarajeswari College of Engineering Bengaluru.
- **Participated in one day “Workshop on Research Methodology”** organized by Research and Development cell of BIET, jointly with ISTE-BIET chapter, Davangere on 28<sup>th</sup> October 2015
- **Participated in the two days workshop on “Women Empowerment”** held on 18<sup>th</sup> & 19<sup>th</sup> Dec 2014, organized by IS &E Dept, BIET jointly under WPLP programme of ISTE, Delhi.
- **Attended four days faculty development programme(FDP) on topic “Advances in Biomedical instrumentation for quality Healthcare”** from 23<sup>rd</sup> - 26<sup>th</sup> July 2014 in the department of E & IE, UBDTCE Davangere sponsored by VTU Belgaum & VGST, Government of Karnataka.
- **Attended a technical talk on “Tomosynthesis using Graphic Processor Unit”** by Dr. U.C. Niranjan, Director, Manipal Dot Net, Manipal, organized by the Department of Biomedical Engineering on 19<sup>th</sup> February 2014.
- **Attended two week workshop on “Signals and systems”** conducted by IIT Kharagpur under the National Mission on Education through ICT (MHRD, Govt. of India) at University BDT College of Engineering, Davangere (Remote Centre ID: 1176) from 2<sup>nd</sup> – 12<sup>th</sup> January 2014.
- **Attended one day workshop (Theory and lab session) on “LaTeX for Documentation”** organized by Department of E&CE in association with VTU, Belgaum held on 9<sup>th</sup> November 2013 at GMIT, Davangere.
- **Attended one day workshop on “Ramanujan Mathematics Awareness Programme (RMAP – 2013)”** organized by Department of Mathematics, ISTE Students and

faculty chapter and sponsored by ISTE, New Delhi held on 1<sup>st</sup> March 2013 at BIET, Davangere.

- Attended two days faculty development workshop on “Low Power Embedded Systems Using Texas Instruments MSP 430 Microcontroller” organized in association with Texas Instruments India University Program, Bangalore, Cranes Software International Ltd. and Electronics and Communication Engineering Department, held from 9<sup>th</sup> – 10<sup>th</sup> February 2012 at BIET, Davangere.
- Attended two days faculty development program on “Low Power Embedded Systems Using MSP 430 Microcontroller” organized by Board of Studies, VTU Belgaum, Texas Instruments, Cranes Software and Electronics and Communication Engineering Department, held from 23<sup>rd</sup> – 24<sup>th</sup> January 2012 at Srinivas Institute of Technology, Mangalore.
- Attended one day workshop on Information Storage and Management held on 7<sup>th</sup> November 2008 at BVB College of Engineering and Technology, Hubli.
- Attended one day workshop on “Mathematical Applications in Engineering Systems - 2007 (MAINES 2007)” organized by Department of Mathematics and Department of Industrial Production Engineering, BIET, Davangere on 27<sup>th</sup> October 2007.
- Attended one day workshop on “Tanner tools Pro (A Complete VLSI Design System)” organized by Department of Electronics & Communication Engineering, ISTE Chapter, BIET, Davangere & Sovereign Technologies, Bengaluru held at BIET, Davangere on 16<sup>th</sup> November 2006.

### *Online Courses:*

- Completed online course on “Signals and Systems EE210XS16”, offered by IIT BOMBAYX, an online Learning Initiative of Indian Institute of Technology, Bombay, conducted between 7<sup>th</sup> January – 30<sup>th</sup> April, 2016. (12 weeks course).
- Completed an AICTE approved 4 week Faculty Development Programme on “Use of ICT in Education for Online and Blended Learning”, conducted by IIT, Bombay from May 2<sup>nd</sup> – July 10<sup>th</sup> 2016. The FDP was held under NMEICT (MHRD) and funded by SAP India Pvt. Ltd.
- Completed the online course on “Foundations of Wavelets and Multirate Digital Signal Processing”, offered by NPTEL, IIT Bombay for the period March – April 2016. This course is funded by MHRD, Government of India.

### *Publications:*

#### *Conferences (National):*

- Published paper titled “Design and development of Microcontroller based Ophthalmic Perimeter” in 6<sup>th</sup> National Conference on Information Sciences – NCIS 2015 conducted by School of Information Sciences, Manipal University on 27<sup>th</sup> – 28<sup>th</sup> March 2015.
- Published the paper Titled “ Design and Development Of Virtual Eye System For Visually Challenged”, in proceedings of “National Conference On Recent Advances in Electrical And Electronics Engineering NCRAEEE – 2013”, organized by UBDT College Of Engineering Davangere, on 17<sup>th</sup> and 18<sup>th</sup> of June 2013.
- Published the paper titled “Design and Development of Hand Talk System for Deaf And Dumb”, in The Proceedings of National Conference on “Recent Advances in Biomedical Electronics Engineering and their Impact on Society”, held from 16<sup>th</sup> to 18<sup>th</sup> May 2013, Organized by Department of Instrumentation Technology, PDA College of Engineering, Gulbarga.
- Presented paper titled “Study on Polymorphism of Thiopurine Methyltransferase in the drug delivery” at National level symposium on current trends in development of herbal drugs and 27<sup>th</sup> Annual Conference of Indian Association of Biomedical Scientists (IABMS – 2006) organized by Tropical Botanic Garden and Research Institute, Thiruvananthapuram and Kerala chapter of IABMS held from 25<sup>th</sup> – 27<sup>th</sup> November 2006 at TBGRI, Thiruvananthapuram.

***Conferences (International):***

- Presented paper titled “Mix/InvMix Column Decomposition and Resource sharing in AES” in 5<sup>th</sup> International Conference on Industrial and Information Systems, ICIIS 2010, (pp. 166 – 171) organized by Division of Electrical, Electronics and Computing Systems held from 29<sup>th</sup> July -1<sup>st</sup> August 2010 at National Institute of Technology, Surathkal.

***Journal (International):***

- Published the paper titled “Design and Development of Stress Detector and Sleep Inducer” in International Journal of Engineering Research & Technology (IJERT), Volume 3, Issue 5, May 2014, ISSN 2278-0181, pp. 1328-1330.
- Published the paper titled “Human Fall Detection Using MEMs Accelerometer” in International Journal of Emerging Technology and Advanced Engineering (IJETA), Volume 4, Issue 5, May 2014, pp. 370-373.
- Published the paper titled “Design and Development of Hand Talk System for Deaf and Dumb”, in ‘The special issue of International Journal IJESC (ISSN: 22501371)’, May 2013.

- Published paper titled “Development of Open Source Algorithm for Recognition of Human Iris Pattern in Biometric System Using MATLAB” in International Journal of Computational Intelligence and Healthcare Informatics, Vol. 3, No. 2, July – December 2010, pp. 77-80

### ***Lectures Delivered:***

- Delivered an invited technical talk on “Diagnostic and Therapeutic Equipments” in two days workshop organized on “Biomedical Instruments: Processors for Life” by Department of Biotechnology, GMIT, Davangere on 10<sup>th</sup> May 2018.
- Delivered a talk on “Introduction to Biomedical Equipments”, on 27<sup>th</sup> April 2018 on the occasion of Technology Barrier Reduction Program (TBRP) under Foundation for Advancement of Education & Research (FAER) funded by ZEBRA Technologies, Bengaluru for 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> standard studying rural high school students at BIET, Davangere. The demonstration of Biomedical Equipments was given in the department laboratory.
- Delivered a talk on “Introduction to Biomedical Equipments”, on 28<sup>th</sup> April 2017 on the occasion of Technology Barrier Reduction Program (TBRP) under Foundation for Advancement of Education & Research (FAER) funded by ZEBRA Technologies, Bengaluru for 9<sup>th</sup> standard studying rural high school students at BIET, Davangere. The demonstration of Biomedical Equipments was given in the department laboratory.
- Delivered technical talk on “Image Processing Techniques using Matlab”, on 30<sup>th</sup> October 2014 at two days Faculty Development Program “Image processing and its applications” organized by Dept. of E&CE, BIET, Davangere in association with IETE, Shimoga subsection, ISTE BIET chapter and ISTE Karnataka section.

### ***Extracurricular Activities:***

- Participated in online “COVID-19 General Awareness Quiz” organized by Department of IS&E, BIET, Davangere on 3<sup>rd</sup> May 2020.
- Participated in online Quiz on the eve of “World Environment Day-2020” on 5<sup>th</sup> June 2020, organized by National Service Scheme, Indian Society for Technical Education, Youth Red Cross Wing –BIET, held at Bapuji Institute of Engineering and Technology, Davangere, Karnataka.