

**Dr. Jayadevappa B M**  
**Professor,**  
**Department of E&CE, BIET, Davangere**  
*[bmjec@yahoo.com]*



***Details of Work Experience (33 years)***

- Lecturer in COET, Jalgaon (Maharashtra) from 1<sup>st</sup> July 1987 to 17 Aug 1988.
- Lecturer in COE, Kopergaon (Maharashtra) from 18 Aug 1988 to 11 August 1989.
- Lecturer in COET, Jalgaon from 12 August 1989 to April 1994.
- Lecturer in BIET Davangere from 16th May 1994 to 31st May 1995.
- Assistant Professor in BIET Davangere from 1st June 1995 to 31st July 2007.
- Professor and Head of the department, E&IE from 1<sup>st</sup> August 2007 to 25<sup>th</sup> July 2019.
- Presently working as Professor in E&CE Department w.e.f. 26-07-2019.

***Educational Qualification:***

- Ph.D. Electrical & Electronics Engineering Sciences (Biomedical Signal Processing) VTU, Belagavi.
- M.E. (Electronics & Control) BITS, Pilani (Raj)
- B. E. (Electrical & Electronics) BIET, Davangere, Mysuru University

***Roles and Responsibilities:***

- BOE member of Kuvempu University
- BOE Chairman for VTU EI/ML/BM board for the year 2018-19
- Deputy Chief Superintendent (External) for conduct of Nov.2018, Ph.D. course work exams at UBDTCE
- BOS special invitee member for VTU EI/ML/BM board from 2012-2019
- BOE member for VTU EI/ML/BM board for the year 2016-17
- Worked as Coordinator for IGNOU, BIET centre from 2011-2013
- Worked as Deputy Chief Superintendent (Internal) during Nov 2013-Jan 2014
- Syllabus framing of IT/EI discipline

***Membership:***

- Life Member of Indian Society for Technical Education: LM21300, 1994
- Life Member of IE (India) MIE: 118553-5, 2000
- Life Member of IETE (MIETE): 219010, 2010
- International Association of Engineers (IAENG) Membership No.:275016, 2021

### ***Courses Taught:***

Electronic Devices, Analog Electronics Circuit, Signals & Systems, Digital Signal Processing, Control Systems, Field Theory, Biomedical DSP, DSP Architecture, Advanced Control System and Power & Industrial Electronics

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

- Delivered a technical talk on “Sensors & Transducers”, in the Technical Barrier Reduction Program for the High School children organized by BIET in association with Govt. of Karnataka on 26<sup>th</sup> April 2019
- Teaching Assistant in the Two Week ISTE, Workshop on “Signal and Systems” held at UBDTCE, Davangere from 2 to 12 Jan 2014, under the NMET ICT IIT Khargapur.

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

- Organized one week AICTE\_ISTE Sponsored Refresher Programme on **Electronic Assistive Devices**, in association with IQAV, BIET Davangere, from 7<sup>th</sup> To 13<sup>th</sup> 2022
- Organized one day webinar on **Assistive Technology for Empowerment of Persons with Disability**, under EC forum in association with Composite Regional Centre (CRC); for Skill Development, Rehabilitation & Empowerment of Persons with Disabilities Davangere, on 11<sup>th</sup> Dec 2020.
- Regularly organized the Industrial visits to Steel, Paper, Sugar Industries, Power Plant station.
- Regularly organized the seminar on Industrial Automation.
- Organized workshop on “PLCs & SCADA” on 31 Oct-2 Nov 2010 in collaboration with Prolific Systems Bangalore for staff and students.
- Organized a workshop on “Graphical System Design Platform- Lab VIEW” in association with VI Solutions, Bengaluru for the Staff and students of IT & EC from 27 Sep to Oct 2014.
- Talk on “Role of Instrumentation Engineers in Core Industries” was organized on 26-Feb-2015 delivered by Mr. Vishnuvardhan J. Managing Director, TREND Instrumentation and Automation Pvt Ltd., Chennai.
- Two Day workshop on “Advanced Instrumentation” organized for the faculty of IT/EIE/BM/EC/ EE/Chemical on 6<sup>th</sup> & 7<sup>th</sup> of April 2015

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

- Webinar on **Get Your Ideas Funded** by Atal Incubation Centre - Jyothy Institute of Technology Foundation. On 3<sup>rd</sup> Aug 2020.
- AICTE Sponsored One Week Online Faculty Development Program (Phase-III) on **Research Areas in Biomedical Signal Processing**. Organized by Sri Vasavi Engineering College (Autonomous), Hyderabad, during 14-19th December 2020.
- AICTE-ISTE approved Orientation/Refresher Programme on **Accreditation: an Accelerator for Quality Improvement in Engineering Education**, organized by S.D.M. College of

Engineering and Technology, Dharwad, Karnataka, held during 22 - 28 April 2021.

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- Five Day FDP on **Application of Intelligence & Machine Learning** , Organized by Reva University, Bengaluru, between 10<sup>th</sup> -15<sup>th</sup> May 2021.
- AICTE, IEEE Sponsored One Week Online Faculty Development Program on **Augmented Reality and Virtual Reality**, Organized by Dept. of E&TE, AISSMS COE, Pune, during 21-25 June 2021
- AICTE -ISTE Sponsored Short term training program on “**Advanced Communication**” held at REC, Bhalki, Karnataka, held from 15<sup>th</sup> to 26<sup>th</sup> Mar 2000.
- ISTE Sponsored Short term training program on “**Next Generation Telecommunication & Networking Technologies**” organized at IIT, Kharagpur, West Bengal, from 10<sup>th</sup> to 21<sup>st</sup> July 2000.
- MHRD Sponsored two week short term training program on “**Applications of DSP in Wireless Communications & Image Processing**” organized by IIT Chennai, held between 11<sup>th</sup> to 21<sup>st</sup> Dec 2001.
- AICTE-ISTE Sponsored two week short term training program on “**Recent Advances in Biomedical Engineering**” from 29 July to 9 Aug 2002 at B.I.E.T Davangere.
- AICTE-ISTE Sponsored STTP on “**Recent Trends & Applications in HV Insulation**” organized by B.I.E.T Davangere from 13<sup>th</sup> to 24<sup>th</sup> July 2003.
- STTP on “**PSPICE for Electronic Circuit Analysis-Theory & Practice**” organized by SIST, Hyderabad, held between 8<sup>th</sup> to 19<sup>th</sup> March 2004
- STTP on “**Constitution of India and Professional ethics**”, Organized by BIET, Davangere held between 16<sup>th</sup> to 23<sup>rd</sup> July 2005.
- 2 day workshop on “**Artificial Neural Networks & its Applications**” on 17<sup>th</sup> & 18<sup>th</sup> September 2010 organized by E&C and ISTE Chapter held at STJIT, Ranebennur
- 2 day workshop on “**Research Methodologies & Latex**” on 9<sup>th</sup> & 10<sup>th</sup> May 2011 held at SJBIT, Bengaluru.
- DST Cluster meet on Instrumentation Development for food processing & presented pre-proposal seminar on project titled “**Solar Energy based automatic food dryer**” on 13<sup>th</sup> & 14<sup>th</sup> Oct 2011 held at Tejpur, Assam.
- 2 days faculty development program on “**Low Power Embedded Systems using Texas Instruments-MSP430 Microcontroller**” organized by E&C on 9<sup>th</sup> & 10<sup>th</sup> February 2012 at BIET, Davangere.
- one day workshop on “**Latex for Documentation**” on 9<sup>th</sup> Nov 2013 organized by Dept. of E&CE, GMIT, Davangere in association with VTU, Belgaum.

- 4 days' workshop on “**Training of Evaluators of Outcome based Education & Accreditation**” organized by NBA nodal centre & BIET, Davangere from 21-23 Mar 2014.
- 4 days VGST sponsored workshop on “**Advances in Biomedical Instrumentation for Quality Healthcare**” organized by UBDTCE, Davangere from 23-26 Jul 2014
- One day workshop on “**Research Methodology**” organized by Research and Development Cell of BIET in Association with ISTE-BIET chapter, Davangere held on 28th Oct 2015.
- Jayadevappa B.M, and Mr. Basavaraj P. Hiremath and Mr. Raghavendra S. Narspur, final year students of E&IE, participated in a 2nd National level project contest held on May, 11 2019 at BMS college of Engineering under IEEE BMSCE student Chapter.. Title of the project is “**A Novel approach on ceiling fan based system to avoid suicide by hanging**”.

## ***Publications:***

### ***International Journals***

1. B.M.Jayadevappa, Kiran Kumar G.H, Anjaneya L.H and Mallikarjun S. Holi, “Design and Development of Electro-Optical System for Acquisition of PPG signals for the Assessment of Cardiovascular system” in *International Journal of Research in Engineering and Technology (IJRET)* eISSN:2319-1163/pISSN:2321-7308, vol:03 Issue:06 Jun 2014.
2. B.M.Jayadevappa and Mallikarjun S. Holi “An Estimation Technique using FFT for Heart rate derived from PPG Signal”, *Global Journal of Researches in Engineering: F Electrical and Electronics Engineering*, eISSN:2249-4596/pISSN:0975-5861, Volume 15 Issue 7, Version 1.0, Year 2015, pp.45-51.
3. B.M.Jayadevappa and Mallikarjun S. Holi “Wireless Monitoring and Analysis of PPG Signal for Assessment of Cardiovascular System in Real Time”, *International Journal of Bioinformatics Research and Applications (IJBRA)*, ISSN online: 1744-5493, ISSN print: 1744-5485, Volume 12, No.1, 2016, pp.47-58.
4. B.M.Jayadevappa and Mallikarjun S Holi, “Photoplethysmography: Design, Development, Analysis and Applications in Clinical and Physiological Measurement – A Review”, *International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)*, ISSN(online);2319-8753, ISSN(print);2347-6710, Volume 5, Issue 3, 2016, pp. 3519-3531.
5. B.M.Jayadevappa and Mallikarjun S Holi, “Classification of PPG Arrhythmias using Discrete Wavelet Feature Extraction and Artificial Neural Networks”, *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE)*, ISSN (Online) 2321 – 2004 ISSN (Print) 2321 – 5526, Vol. 4, Issue 11, pp.139147, November 2016.

6. Raghavendra S Narsapur, Basavaraj P Hiremath, Dr. Jayadevappa B M “A Novel Approach on Ceiling Fan Based System to Avoid Suicide by Hanging”, *International Journal of Engineering Research & Technology (IJERT)*, ISSN: 2278-0181, NCRACES – special 2019, Vol.7 issue 10, pp.1-5

### ***INTERNATIONAL CONFERENCES***

1. B.M.Jayadevappa, Ananda.M.K and Mallikarjun S. Holi, “Pulse Rate Variability and Spectral Analysis of PPG Signal for Assessment of Cardiovascular System” in *Proceedings of International Conference on Biomedical Engineering (ICBME-2011)* Manipal Institute of Technology, Manipal, 10-12 December 2011, pp 120-124.
2. B.M.Jayadevappa and Mallikarjun S. Holi, “Design and Development of Electro-optical System for the Assessment of Cardiovascular System”, in *Proceedings of International*

*Conference on Laser Advances in Science Engineering and Research – (ICLASER 2012)*, MSRIT, Bangalore, India, 8-10 June 2012, pp.20.

3. B.M.Jayadevappa, Kiran Kumar G.H, Ananda.M.K and Mallikarjun S. Holi, “Wireless Monitoring of Cardiovascular System in Real Time”, in *Proceedings of International Conference on Current Trends in Engineering and Management (ICCTEM 2012)*, VVCE, Mysore, India, 12-14 July 2012, pp.31.

### ***NATIONAL CONFERENCES***

1. Jayadevappa B.M, Mr. Basavaraj P. Hiremath and Mr. Raghavendra S. Narspur, presented a paper on “A Novel approach on ceiling fan based system to avoid suicide by hanging”, and awarded as best paper, in the 3<sup>rd</sup> National Conference on Robotics, Automation, Control and Embedded Systems (NCRACES-2019) conducted in association with International Journal of Engineering Research and Technology (IJERT) on 10<sup>th</sup> May 2019 at GSSS IETW, Mysuru.

### **Societal Contributions:**

- Practicing and Teaching yoga to public.
- Swachh Bharat, Environment awareness programme, project Demonstration under AICTE point programme activities.