

Dr. Jayadevappa B M
Professor,
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Details of Work Experience (34 years)

- Lecturer in COET, Jalgaon (Maharastra) from 1st July 1987 to 17 Aug 1988.
- Lecturer in COE, Kopargaon (Maharastra) 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 1st August 2007 to 25th 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:

- DQAC Member, 2019
- NBA Criterion-10 Coordinator 2019
- Doctoral Committee member 2020
- NAAC Criterion-6 Coordinator, 2021
- Dept. Coordinator for Mentoring and AICTE Activities, 2019
- Syllabus framing of IT/EI discipline
- Deputy Chief Superintendent (Internal and External) for VTU Exams.
- BOE Chairman for VTU EI/ML/BM board for the year 2018-19
- BOE member for VTU EI/ML/BM board for the year 2016-17
- BOS special invitee member for VTU EI/ML/BM board from 2012-2019
- BOE member of Kuvempu University w.e.f. 2011 till the date
- Worked as Coordinator for IGNOU, BIET center from 2011-2013
- Worked as Secretary ISTE, BIET Chapter Davangere
- Practicing and teaching yoga to public

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:

Analog Electronics Circuit, Electronic Devices, 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 26th April 2019
- Teaching Assistant in the Two Week ISTE, Workshop on “Signal and Systems” held at UBTDCE, Davangere from 2 to 12 Jan 2014, under the NMET ICT IIT Khargapur.

Seminars/Workshops/Events Organized:

- 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 11th Dec 2020
- Organized one day workshop on Assistive Health Technology and Role of Engineers under EC forum in association with Composite Regional Centre (CRC); for Skill Development, Rehabilitation & Empowerment of Persons with Disabilities Davangere, on 6th November 2019.
- Two Day workshop on “Advanced Instrumentation” organized for the faculty of IT/EIE/BM/EC/ EE/Chemical on 6th & 7th of April 2015.
- 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.
- 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.
- Organized workshop on “PLCs & SCADA” on 31 Oct-2 Nov 2010 in collaboration with Prolific Systems Bangalore for staff and students.
- Organized the Industrial visits to Steel, Paper, Sugar Industries, Power Plant station.
- Organized the seminar on Industrial Automation

Seminar/ Workshops Attended:

- Attended AICTE -ISTE Sponsored Short term training program on “Advanced Communication” held at REC, Bhalki, Karnataka, held from 15th to 26th Mar 2000.
- Attended ISTE Sponsored Short term training program on “Next Generation Telecommunication & Networking Technologies” organized at IIT, Kharagpur, West Bengal, from 10th to 21st July 2000.
- Attended the MHRD Sponsored two week short term training program on “Applications of DSP in Wireless Communications & Image Processing “ organized by IIT Chennai, held between 11th to 21st Dec 2001.

- Attended the AICTE-ISTE Sponsored two week short term training program on “Recent Advances in Biomedical Engineering” from 29 July to 9Aug 2002 at B.I.E.T Davangere.
- Attended AICTE-ISTE Sponsored STTP on “Recent Trends & Applications in HV Insulation” organized by B.I.E.T Davangere from 13th to 24th July 2003.
- Attended STTP on “PSPICE for Electronic Circuit Analysis-Theory & Practice” organized by SIST, Hyderabad, held between 8th to 19th March 2004
- Attended STTP on “Constitution of India and Professional ethics”, Organized by BIET, Davangere held between 16th to 23rd July 2005.
- Attended 2 day workshop on “Artificial Neural Networks & its Applications” on 17th & 18th September 2010 organized by E&C and ISTE Chapter held at STJIT, Ranebennur
- Attended 2 day workshop on “Research Methodologies & Latex” on 9th & 10th May 2011 held at SJBIT, Bengaluru.
- Attended the DST Cluster meet on Instrumentation Development for food processing & presented pre-proposal seminar on project titled “Solar Energy based automatic food dryer” on 13th & 14th Oct 2011 held at Tejpur, Assam.
- Attended 2 days faculty development program on “Low Power Embedded Systems using Texas Instruments-MSP430 Microcontroller” organized by E&C on 9th & 10th February 2012 at BIET, Davangere.
- Attended one day workshop on “Latex for Documentation” on 9th Nov 2013 organized by Dept. of E&CE, GMIT, Davangere in association with VTU, Belgaum.
- Attended 4 days workshop on “Training of Evaluators of Outcome based Education & Accreditation” organized by NBA nodal centre & BIET, Davangere from 21-23 Mar 2014.
- Attended 4 days VGST sponsored workshop on “Advances in Biomedical Instrumentation for Quality Healthcare” organized by UBDTCE, Davangere from 23-26 Jul 2014
- Attended 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”.

Online Mode:

- One Week Webinar on **NBA and NAAC Accreditation Process**, Organized by IQAC, MSRIT, Bengaluru from 4th -8th June 2020.
- One Week online Certificate course by ICT Academy on **Digital Teaching Techniques**, from 29th June to July 4th 2020.
- Participated in **Art and Challenges of Writing Papers for IEEE Transactions** as a part of IEEE Bengaluru Webinar-Learning Series organized by IEEE Bengaluru Section on 8th June 2020
- Participated in **The Future of World Electronics and Possible Roles India Can Play** as a part of IEEE Bengaluru Webinar-Learning Series organized by IEEE Bengaluru Section on 9th June 2020.
- Attended World’s Biggest Virtual Event of **International Yoga Day-2020** organized by Heart-fullness Institute partnered with AISSMS COE, Pune and Ministry of AYUSH, Govt. of India on 21st June 2020.
- National Level FDP on **NBA Preparation and CO-PO Mapping**, conducted by SVPMs, COE, Malegaon (MS), Webinar on **Industry 4.0** Organized by Dept. of E&IE, GSSSIETW,

Mysuru, on 25th June 2020.

- Webinar on **Industry 4.0** Organized by Dept. of E&IE BCE, Bagalkot, on 5th July 2020.
- Webinar on Get Your Ideas Funded by Atal Incubation Centre - Jyothy Institute of Technology Foundation. On 3rd 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.
- Five Day FDP on Application of Intelligence & Machine Learning , Organized by Reva University, Bengaluru, between 10th -15th 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.
- Contribution in the form of Consultancy/sponsored R&D./Funded projects/Innovations in teaching and learning
- Project Proposal titled, Design and Development of Bio-Controlled Prosthetic Foot Submitted to DST under TIDE: Presented before the Project; Advisory & Monitoring Committee (PA&MC) DST New Delhi, on. Status: under review.
- Proposal Titled Electronic Assistive Devices submitted to AICTE-ISTE Induction/Refresher Programs (AICTE Quality improvement Scheme-2021-2022)
- Status: under review.
- Project Proposal submitted to VGST, Karnataka Design and Development of Bio-controlled Prosthetic Feet, Dec 2020.

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: FElectrical 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 PPGSignal 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
7. “Compressive Sensing Algorithm with Adaptive Best Mother Wavelet For Energy Efficient PPG Signal Compression in WBAN Node”. *International Journal of Advance Science and Technology*, Vol. 29, No. 10S, (2020), pp. 8428-8439.
8. “Wavelet Data Driven Stacked Auto-Encoder Model for Non-linear Compressive Sensing and Physiological Signal Reconstruction”, *Wafer-Und Kostumkunde Journal*, 11 (11), pp. 17-43, Nov 2021.

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. Narsapur,**
Presented a paper on “A Novel approach on ceiling fan based system to avoid suicide by hanging”, and awarded as best paper, in the 3rd National Conference on *Robotics, Automation, Control and Embedded Systems* (NCRACES-2019) conducted in association with International Journal of Engineering Research and Technology (IJERT) on 10th May 2019 at GSSS IETW, Mysuru.

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