

## Curriculum Vitae

**Name: Dr. Ram K. Kanhe**

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**Date of Birth:** 27<sup>th</sup> November-1972



### Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Instrumentation Engineering	Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded	Swami Ramanand Teerth Marathwada University, Nanded. M.S.	2017	Awarded	
M.E./ M. Tech.	Instrumentation Engineering	Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded	Swami Ramanand Teerth Marathwada University, Nanded. M.S.	2006	61%	<i>FIRST</i>
B.E./B.Tech.	Instrumentation Engineering	MGM's J.N.E.C. Aurangabad	Dr. Babasaheb Ambedkar	1995	61.2%	<i>FIRST</i>

			Marathwada University, Nanded. M.S.			
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**M. Tech. Project:** The Computerized Electroencephalography (EEG) Data Filtration.

**Ph. D. Research:** ECG Data Compression & Telemedicine

**Key Research Areas:** Biomedical signal processing, Process Control, Automation  
Biomedical signal Pick-up.

### Experience

Sr. No.	Organization	Post	From To	No. of Years
1	G.S.Mandal's MIT Aurangabad	Associate Professor	26 <sup>th</sup> September-2017 till date	
2	G.S.Mandal's MIT Aurangabad	Assistant Professor	14 <sup>th</sup> August-2007 to 25 <sup>th</sup> September-2017	10 years
3	PDVVP's College of Engineering, Ahmednagar	Assistant Professor	1 <sup>st</sup> February-2005 to 14 <sup>th</sup> August-2007	2 years and 7 months
4	PDVVP's College of Engineering, Ahmednagar	Lecturer	10 <sup>th</sup> January-2000 to 31 <sup>st</sup> January-2005	05
5	MBES's College of Engineering, Ambajogai	Lecturer	8 <sup>th</sup> August 1997- 10 <sup>th</sup> January-2000	2 years and 5 months
6	M/s. Purna S.S.K. Ltd. Basmatnagar Dist. Hingoli	Instrument Engineer	January-1996 to July-1996	06 months

### List of Courses Taught/Teaching at UG level :-

- Biomedical Instrumentation
- Digital Signal Processing
- Process Control

- Energy Conservation and Audit
- Control systems
- Instrumentation system design
- Analytical Instrumentation
- Sensors and Transducers- I & II

#### **List of Courses Taught/Teaching at PG level**

- Advanced Digital signal Processing
- Electric and Hybrid Vehicle
- Audio signal processing

#### **Additional Assignments/Duties**

- Member of Paper setting Committee and curriculum design.
- Member of Examiner for University Examinations
- Worked as Joint Chief Superintendent.
- Member of Practical Examination for University Examinations
- Member of LIC Panel of University.
- Chief Superintendent for University Examination.
- Subject Expert for UGC Interviews
- Organizing Secretary of 'Technomillennium-2008' A national level event.
- **Rector, MIT Boys Hostel MIT Aurangabad. 2008-2010**
- Chief Superintendent for UPSC,MPSC,PET,UGC-NET,CBSE-TET Examinations
- Polling Office for Assembly Elections.
- In Various committees of Department and Institute
- Central **In plant training Coordinator** at Maharashtra Institute of Technology, Aurangabad. 2014-2017
- Worked as Head (Instrumentation and Control Engg.) 2011-2013 and presently working as Head (Electrical Engg.) form 2018.
- Worked as Intercom In charge for the Institute (2007-2017)
- Worked as Event In charge in Annual social Gatherings of Institute.
- Worked as In charge of Dr.G.H. Endress Process Automation Laboratory.
- Donated blood every year on 8<sup>th</sup> August (Birthday of Hon. Dr. Y. A. Kawade sir).
- Worked as In-charge for preparation of report for Autonomous status of the Institute

## **Membership of Professional Bodies**

LIFE MEMBER OF ISTE (LM ISTE)

## **Research Projects/Projects Guided**

- Brain Tumor Segmentation using K-Means Clustering for Detection and Tumor Area Calculation (PG Project)

## **Computer/Software Proficiency**

- MATLAB (Signal Processing)
- C and C++
- Scilab
- Interfacing MATLAB with Arduino
- Latex
- Python
- R-language

## **Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended**

- AICTE Sponsored ISTE short term training Programme on ‘Digital Signal and Image Processing’ Organized by Department of Electronics and Computer Science and Engineering, Shri Guru Gobind Singhji College of Engineering and Technology, Vishnu Puri Nanded-431 606, 5<sup>th</sup> June-2000 -17<sup>th</sup> June-2000
- ISTE approved Short term Training Programme on ‘Neural and Fuzzy logic and its Applications’ Organized by Department of Instrumentation Engineering, Shri Guru Gobind Singhji College of Engineering and Technology, Vishnu Puri Nanded-431 606, 11<sup>th</sup>-June -2001 -23<sup>rd</sup> -June -2001
- PLC-SCADA (Allen Bradley & Siemens S5 & S7 Systems) Training Course of 15<sup>th</sup> – Feb’2005-21<sup>st</sup>-Feb’2005 by Krish Infotech Pune.
- Three days workshop on ‘Curriculum Development Based on Competencies ’ organized by Department of Instrumentation and Control Engineering, Government College of Engineering Pune, 22<sup>nd</sup>-24<sup>th</sup> April-2002.
- One day workshop on ‘Biomedical Instrumentation ’ organized by Department of Instrumentation and Control Engineering, Pune Institute of Engineering and Technology, Pune, 25<sup>th</sup> October-2004.

- Two days National seminar on ‘Intelligent Instrumentation for Biological Science’, Organized by Department of Instrumentation Technology, KLE Society’s BVB College of Engineering and Technology, Hubli, 26<sup>th</sup>-27<sup>th</sup> November-2004
- One day workshop on ‘Design of Laboratory Experiments for Biomedical Lab Course-II Instrumentation ’ organized by Department of Instrumentation and Control Engineering, Cummins College of Engineering for Women Pune,29<sup>th</sup> November-2004.
- Two days workshop on ‘Effective Teaching Skills’ Organized by Great Foundation Pune at PDVVP College of Engineering Ahemdagar,20<sup>th</sup>-21<sup>st</sup> January’2005.
- One day workshop on’Finalisation of Syllabi for B.E.(Instrumentation and Control Engineering) ’ organized by Department of Instrumentation and Control Engineering, PDDYPIET, Pune.
- Three days workshop on ‘Biomedical Instrumentation’ Organized by Department of Instrumentation Engineering, Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnu Puri Nanded-431 606, 15<sup>th</sup>-17<sup>th</sup> April-2006.
- Two days workshop on ’Digital Signal Processing and Wavelets’ Organized by PDVVP College of Engineering, Ahmednagar.
- AICTE Sponsored Two weeks Training Programme on’ Multi-rate Signal Processing and wavlets’ Organized by Department of Electronics and Tele-communication Engineering, Shri Guru Gobind Singhji College of Engineering and Technology, Vishnu Puri Nanded-431 606, 29<sup>th</sup>-June -2001 -10<sup>th</sup>-July -2016
- One week workshop on ‘Outcome Based Education and NBA process’, Organized by Internal Quality Assurance Cell , Maharashtra institute of Technology, Aurangabad-431 101, 9<sup>th</sup> July -2001 -14<sup>h</sup>-July -2018

Academic Year	Date and Duration	Organization and place	Title	Level (State/National/International)
2019-20	4.5.2020-10.5.2020 Seven days	Aptronix Technologies in collaboration with Sandip Institute Of Engineering & Management,Nashik	Android Apps Development	National
2019-20	11.5.2020-15.5.2020 One week	Government College of Engineering, Karad	OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE	National
2019-20	28.5.2020-30.5.2020 Three days	Godavari College of Engineering and Polytechnic,Jalgaon	Recent development in Electrical Transmission and distribution system	National

2019-20	22.5.2020-26.5.2020 Five days	Universal College of Engineering under IQAC in collaboration with Brain O Vision Solutions India Pvt. Ltd. & National Youth Council of India	Artificial Intelligence	National
2019-20	25.5.2020-30.5.2020 One week	Vivekanand Education Society's Institute of Technology,Chembur, Mumbai	Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19	National
2020-21	3.8.2020-7-8-2020 5 Days	Apptronix Technologies in Collbration with M.G.I.T Hyderabad	Deep Learning with Python	National
2020-21	Two weeks	IQAC,Maharashtra Institute of Technology Aurangabad	ICT Tool for Teaching Learning Process	National

2020-21	10.4.2021	IIC,Maharashtra Institute of Technology Aurangabad	National Education Policy 2020	National
2020-21	26.5.2020-30.5.2020	One Week STTP Sandip Institute of Engineering and Management Nashil	Reneable Energy and Utilization	National
2020-21	29.5.2021	IQAC,Maharashtra Institute of Technology Aurangabad	OBE Concepts & Implementation and Digital Preparedness for NBA	State level
2020-21	8.6.2020-12.6.2020	Jointly Organized by Dept. Of Instrumentation RAIT Navi Mumbai and B.R.Automation Pvt Ltd.Pune	Internet of things & its applications in Industry	National Level
2020-21	10.6.2020-13.6.2020	Dept. Of Instrumentation & control Engineering Shri Manakula Vinayagar Engg.College,Pudcherry	Technology Toward comman man	National
2020-21	1.9.2020-30.9.2020	IETE Mumbai and Pantech Prolabs India Pvt.Ltd.	30 Days Internship Program on Matlab	National
2020-21	05.10.2020-3.11.2020	Andhra Pradesh State Skill Development Coporation (APSSDC) and Pantech Prolabs India Pvt.Ltd.	30 days Webinar Series on AI Master Class	National

2020-21	2.11.2020-6.11.2020	Andhra Pradesh State Skill Development Coporation (APSSDC) and Pantech Prolabs India Pvt.Ltd.	Image Processing using Matlab	National
2020-21	23.11.2020-22.12.2020	Andhra Pradesh State Skill Development Coporation (APSSDC) and Pantech Prolabs India Pvt.Ltd.	30 days Master Class on Matlab and Simulink	National
2020-21	21.12.2020-26.12.2020 Five Days	Dept of CSE,Abha Gaikwad-Patil College of Engineering,Nagpur	Internet of Things (IoT) Application	National
2020-21		Pantech Prolabs India Pvt.Ltd.	15 days ARDUINO Master Class	National

#### **Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized**

- Two days workshop 'Technomillennium-2008' organized G. S. Mandal's M.I.T., Aurangabad on 17<sup>th</sup>-18<sup>th</sup> September-2008
- Co-convener for Two Days Workshop on 'Research Methodology' organized by department of Electronics and Tele-communication, Maharashtra Institute of Technology, Aurangabad, 13<sup>th</sup>-14<sup>th</sup> March-2015
- Organizing secretary for Four days workshop on 'Matlab, simulink and low cost design using Digital signal and Image Processing Toolbox' organized by department of Electronics and Tele-communication, Maharashtra Institute of Technology, Aurangabad, 16<sup>th</sup>-19<sup>th</sup> December-2015
- Joint Organizing secretary for *Int. Conference on Digital Signal Processing-2017* organized by department of Electronics and Tele-communication, Maharashtra Institute of Technology, Aurangabad.

#### **Invited talks delivered**

- One day workshop 'ECG and Pulse Oximeter' at PDVVP's Ayurved College Shevgaon, Dist. Ahmednagar

#### **List of Research Publications**

1.) Published paper on R.K.Kanhe and Satish T. Hamde, "Wavelet-based compression of ECG signals", **International Journal of Biomedical Engineering and Technology**, DOI: 10.1504/IJBET.2014.060536, Vol.14, No.4, pp-297-314, 2014, Print ISSN: 17526418 Online ISSN: 17526426

2.) Published paper on Ram Kanhe and Satish Hamde, "ECG signal compression using filter bank based on Hermite polynomial", **International Journal of Computer Aided Engineering and Technology**, Vol.10, No.3, pp- 193-208, 2018, Print ISSN: 17572657 Online ISSN: 17572665

3.) Published paper on Ram Kanhe and Satish Hamde, "Telemedicine using ECG signal compression", **International Journal of Telemedicine and Clinical practices**, Vol.2, No.3, pp- 267-291, 2017, Print ISSN: 20528434 Online ISSN: 20528442

4.) Published paper on T.D.Shep, N.R.Kohlare and R.K.Kanhe, "Real Time ECG Measurement System", **Indian Journal Of Applied Research**, Vol.No.3, No.9, 2013, pp-222-224

5.) Published paper on Bhagyalaxmi T.Tejjinkar, and R.K.Kanhe, "A Review Paper on Facial Expression Recognition" **International Journal of Engineering and Advanced Technology (IJEAT) MIT, Aurangabad (Maharashtra) India** ISSN: 2249 – 8958, Volume-6, PP-121-124, Issue-ICDSIP17, March 2017

6.) Published paper on Siddheshwar P. Mahale, and Ram K. Kanhe, "Brain Tumor Segmentation using K-Means Clustering for Detection and Tumor Area Calculation" **International Journal of Engineering and Advanced Technology (IJEAT) MIT, Aurangabad (Maharashtra) India** ISSN: 2249 – 8958, Volume-6, PP-185-187, Issue-ICDSIP17, March 2017

7.) Suvarna S. Kale, and R. K. Kanhe, "A Review on Image Defogging" **International Journal of Engineering and Advanced Technology (IJEAT) MIT, Aurangabad (Maharashtra) India** ISSN: 2249 – 8958, Volume-6, PP-127-128, Issue-ICDSIP17, March 2017

8.) Smita N Wakale and Ram Kanhe., "The Detection, Separation and Quantification of Brain Tumor via MRI Images", *International Journal of advanced research in Computer and Communication Engineering (IJARCCE)*, Volume 4, June. 2015.

9.) Smita N Wakale, Prof. Ram Kanhe., " Implementation of Proposed method and Area calculation for brain tumor using MRI images", *International journal for research in applied science and engineering technology (IJRASET)*, Vol 8, Issue VI, June-2020

### **Books/ Book Chapter**

### **Papers in National /International Conference Proceedings**

- Published paper on 'Disorder in Brainwave Detection using Microcontroller' at **National Conference on Biomedical Instrumentation** Nov'2004 organized by **RITS Chevella, Hyderabad**
- Published paper on 'Breath alcohol Analyzer' at **National Conference on Emerging Technologies & Application (ETA-2005)** Oct'2005 organized by **C.Sc. Dept of Saurashtra University, Rajkot-360 005 Rajasthan**



- Published paper on ‘Artifact Rejection & Minimization in EEG Data Processing’, **National Symposium on Instrumentation (NSI-30) , 31st Nov to 2nd Dec’2005**
- Published paper on ‘Breath Alcohol analyzer’, National Symposium on Instrumentation (NSI-30) , **31st Nov to 2nd Dec’2005**
- Published paper on ‘ECG-Transformation Based Compression Technique’ **National Conference Advanced Computing & Computer Network(NCACCN-2007)** March’2007 organized by **Elex Dept of PDVVP College of Engg, Vilad Ghat Ahmednagar.**
- Published paper on ‘Telemedicine-An Emerging Health Care’, **National Conference Advanced Computing & Computer Network (NCACCN-2007)** March’2007 organized by **Elex Dept of PDVVP College of Engg, Vilad Ghat Ahmednagar.**
- Published paper on ‘Quality Controlled ECG signal compression using DFT and DCT Transformation’ **National conference on Instrumentation, Control and Signal Processing-2013 (NICS-2013)**, organized by **Department of Instrumentation Engineering, Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded**
- Published paper on Kanhe,R.K. and Hamde,S.T."Andriod Based Electrocardiogram signal acquisition and display",**Indian Conference on Signal and Image Processing,(IconSIP-2015)**,S.G.G.S.I.E. & T. Nanded,10-11 July-2015
- (Awarded as BEST Paper)

#### Awards, Achievements and Recognition

- Kanhe,R.K. and Hamde,S.T., "ECG signal compression using 2-D DWT Hermite Coefficients", **International Conference on Signal and Information Processing,(IconSIP-2016)**,pp-163-168,S.G.G.S.I.E. & T. Nanded,6-8 October-2016(**Nominated for TRAVEL BURSARY AWARD**)

Date: 19.7.2021

Place: Aurangabad