

## Curriculum Vitae

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



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**Mobile:** +91 9422239055

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

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### 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	16 <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

- Worked as convener for National level technical event ‘Technominds-202K’ organized on 17<sup>th</sup> & 18<sup>th</sup> June-2021
- Working as Laboratory In charge of Automation Lab under **MIT-Siemens Centre of Excellence for Automation & Mechatronics.**

### **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)
- Brain Tumor Detection, Demarcation and Quantification Via MRI Images(PG Project)
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### **Computer/Software Proficiency**

- MATLAB (Signal Processing)
- C and C++
- Scilab
- PLC Ladder Programming
- Interfacing MATLAB with Arduino
- Latex

### **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 Ahmednagar,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

Online

Date/Duration	Organised By	Topic	Level
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4 <sup>th</sup> May to 10 <sup>th</sup> May 2020 Seven days	Apptronix Technologies in collaboration with Sandip Institute Of Engineering & Management - Nashik	Android Apps Development	National level
6 <sup>th</sup> May to 10 <sup>th</sup> May	Jawaharlal Nehru Engineering College, Aurangabad	Arduino training	State Level
10 <sup>th</sup> May 2020	IQAC, Maharashtra Institute of Technology, Aurangabad.	OBE and Outcome Based Education	State Level
11 <sup>th</sup> May to 15 <sup>th</sup> May 2020 One week	Government College of Engineering, Karad	OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE	National level
28 <sup>th</sup> May 30 <sup>th</sup> May 2020 Three days	Godavari College of Engineering and Polytechnic, Jalgaon	Recent development in Electrical Transmission and distribution system	National level
22 <sup>nd</sup> May 26 <sup>th</sup> May 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 level
25 <sup>th</sup> May 30 <sup>th</sup> May 2020 One week	Vivekanand Education Society's Institute of Technology, Chembur, Mumbai	Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19	National level
1 <sup>st</sup> June to 7 <sup>th</sup> June (one week)	Apptronix Technologies in collaboration with A.G.Patil Institute Of Technology Solapur	Short Term training on Internet of Things	National level
22 <sup>nd</sup> -June to 4 <sup>th</sup> July 2020 (Two week)	IQAC, Maharashtra Institute of Technology, Aurangabad.	Effective Use of ICT Tools in Online Teaching	State Level
1 <sup>st</sup> September to 30 <sup>th</sup> September-2020 (One Month)	IETE Mumbai and Pantech Prolabs India Pvt.Ltd	Matlab Masters Class -2020	National Level
7 <sup>th</sup> December to 12 <sup>th</sup> December-2020 (Six days)	Bhilai Institute of Technology.	Electrical vehicles	AICTE Training And Learning (ATAL) Academy <b>Online</b> FDP
12 <sup>th</sup> December to 26 <sup>th</sup> December-	Abha-Patil COE Nagpur	Internet of Things	State Level

2020 ( Two weeks)			
21 <sup>st</sup> December to 26 <sup>th</sup> December- 2020 (Six days)	Abha-Patil COE Nagpur	Internet of Things	State Level
11 <sup>th</sup> May to 14 <sup>th</sup> May-2021 (Two Days)	Association of the Managements of Un- aided Engineering Colleges(Mh)	NBA Awareness	State Level
26 <sup>th</sup> July to 31 <sup>st</sup> July -2021 (Six days)	Indo-Global COE Abhipur,New Chandigarh	STTP(AICTE Sponsored) 'Data Science and Big Data Analytics'	National Level
2 <sup>nd</sup> August to 14 <sup>st</sup> August - 2021 ( Two Weeks)	Dept.of Electrical and Electronics Engineering,Bapatla	Online STTP'Emerging Technologies in Electrical vehicles'	National Level
Self Paced 20 <sup>th</sup> August - 2021	MathWorks Training services	Matlab Onramp	Global
25 <sup>th</sup> July to 30 <sup>th</sup> July -2022 (Six days)	Dept. of Mech Engg.D.Y.Patil C.E.& T.Kolhapur	A New Era of Manufacturing Challenges and Opportunities	Online FDP
8 <sup>th</sup> -14 <sup>th</sup> August- 2022 7-Days	devtown	Python and Deep Learning	Online BootCamp
10 <sup>th</sup> June-2022 One day	Maharashtra Institute of Technology, Aurangabad	National Intellectual Property Awareness Mission	Online
8 <sup>th</sup> -14 <sup>th</sup> August- 2022 One Week	(AICTE) Atal Academy, Arm Education, STMicroelectronics	Designing and Modelling of IoT, AI & ML Systems	Online
Jan-Feb-2023 4 Weeks	NPTEL FDP  IIT Madras	Electrical Vehicles Part-I	Online
30.1.2023 to 3.2.2023	Dept of Artificial Intelligence,G.H.Raisoni COE Nagpur	Recent Trends and Challenges on Artificial Intelligence and Machine Learning	Online
19.6.2023 to 24.6.2023	Spoken tutorial Project of IIT Bombay	"Python 3.4.3"	Online
24.7.2023 to 28.7.2023	NITTTR Kolkotta	Bio-Medical Engineering	Online
24.7.2023. to 28.7.2023	Dept of Information Technology,D.Y.Patils COE Akrudi Pune	Recent Trends in Artificial Intelligence <b>tools</b>	Online

Jul-Sep 2023	NPTEL Online Certification, IIT Madras	Data Science for Engineers	Online
4.3.2024 to 9.3.2024	Dept. of ES & T Maharashtra Inst. Of Tech. Chhatarpati Sambhajinagar	Data Visualisation Tools and Techniques	Online

### 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.Tejinkar, 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)*

10.) Ram K.Kanhe, Amol L.Bhandare, Sunayna S.mane, Rupali S.Zarwal,'Electricity Theft detection using GSM', *International journal of Resource Management and Technology*,*Volume 12,Issue 3,pp-448-452,2021*

11.) Thorat B. Mayuri , Lone R. Sakshi , Nagare G. Rupali , Prof. Dr. R.K.Kanhe ,"IoT Based War Field Surveillance Robot With Night Vision Camera", *International Journal of Scientific Research and Engineering Development*, *Volume 6 Issue 5,Sep-Oct 2023* Available at [www.ijrsred.com](http://www.ijrsred.com) ISSN : 2581-7175 ©IJSRED

#### **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**

#### 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**)
- 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**).
- Recognized PhD supervisor in **Electrical Engineering** under Dr.Babasaheb Ambedkar Marathwada University, **Chhatrapati Sambhajinagar**

Date: 20.6.2024

Place: Aurangabad