Faculty Profile

Name   Dr. Pankaj H. Chandankhede

Designation   Assistant Professor

Department   Electronics & Telecommunication Engineering

Date of Birth   08 April 1985

Email ID   pankaj.chandankhede@raisoni.net

Phone Number   9561532063

Area of Interest   Embedded System & Internet of Things

Qualification:

Program	Specialization	Institution/University	Division/Grade	Year of Passing
Doctor of Philosophy	Electronics	G. H. Raisoni College of Engineering, Nagpur, Rashtrasant Tukadoji Maharaj Nagpur University, Maharashtra	–	2019
Master of Technology	Electronics	G. H. Raisoni College of Engineering, Nagpur, Rashtrasant Tukadoji Maharaj Nagpur University, Maharashtra	I (71.10 %)	2011
Bachelor of Engineering	Electronics & Telecommunication	Jawaharlal Institute of Engineering & Technology, Sant Gadge Baba Amravati University, Maharashtra	I (70.15 %)	2007

Experience & Promotion Details (Chronological):

Sr. No.	Name of the Organization	Designation	Period From	Period To
1	G. H. Raisoni College of Engineering, Nagpur, Maharashtra	Assistant Professor	21/08/2012	Till Date
2	G. H. Raisoni College of Engineering, Nagpur, Maharashtra	Lecturer	01/06/2010	20/08/2012
3	Dr. Bausaheb Nandurkar College of Engineering & Technology, Yavatmal, Maharashtra	Lecturer	11/06/2009	31/05/2010

Membership in Professional Institutions:

Life Member in Institution of Electronics and Telecommunication Engineers – AM-234637

Research & Development:

Book Published:

Title: Design of Vehicular Event Data Recorder & Evidence Collecting System, Author: Pankaj H. Chandankhede, Milind M. Khanapurkar, Abhijit S. Titarmare, LAMBERT Academic Publishing, ISBN-978-620-3-41004-4, 22-Feb-2021.

Book Chapters:

S.N.	Name of Book	Title of Chapter	ISSN/ISBN No./ SCOPUS No.	Date of Publication
01	Recent Advances in Science, Engineering & Technology International Conference on Recent Advances in Science, Engineering & Technology	A Multifunctional Robot for COVID-19 Hospital	9781032864181	30-May-2024
02	Digital Twin Technology and AI Implementations in Future-Focused Businesses	AI Business Boost Approach for Small Business and Shopkeepers: Advanced Approach for Business	9798369318188	Jan-2024
03	Integrated Technologies in Electrical, Electronics and Biotechnology Engineering	Detecting cotton leaf disease using machine learning	9781032998343	March 31, 2025

Patent Granted:
1. A Baby Cradle System-202021040146-16/09/2020
2. EXPENSE AND FINANCE MONITORING DEVICE-447707-001-28/05/2025

Patent Filed & Published:
1. AN AUTOMATED PET FOOD DISPENSER-202321024860-31/03/2023
2. MACHINE LEARNING-BASED PREDICTIVE MODEL FOR LEAF NUTRIENT DEFICIENCY DETECTION IN CROPS-202541013221-21/02/2025
3. AI-POWERED AUTONOMOUS DRONE SYSTEM FOR REAL-TIME AIR AND WATER POLLUTION MAPPING AND ANALYSIS-202541013223-21/02/2025

Copyright Registered

Title of the Copyright	Registration No.
Designing of Controller Area Network Based EventData Recorder & Data Analysis for Evidence Collecting System	L-82414/2019
DESIGNING OF VARIOUS EMBEDDED EVENTDATA RECORDER FOR EVIDENCE COLLECTING SYSTEM	L-93852/2020
SMART PET FOOD DISPENSER USING INTERNET OF THINGS	L-134600/2023

1. **Ph. D Topic:** Designing of Controller Area Network based Event Data Recorder & Data Analysis for Evidence Collecting System
2. **M. Tech Topic:** Soft-Computing Approach For Texture Classification Using Discrete Cosine Transform
3. **B.E. Topic:** Application of Genetic Algorithm for Channel Assignment in Mobile Communication

4. **International Journals:-26**

Sr. No.	Authors	Journal Name	Title of Paper	Details
1.	Somesh R. Agrawal, Dr. Pankaj H. Chandankhede	Journal of Interdisciplinary Cycle Research	Testing of Car Infotainment System Using Remote Software Update	ISSN NO: 0022-1945, Volume XII, Issue VI, June/2020, Page No.530-537
2.	Dr. Pankaj H. Chandankhede, Pragati M. Fatinge	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Pansharpening of Multispectral and Panchromatic Images for Color Distortion using MATLAB	ISSN: 2278-3075, Volume-9 Issue-6, April 2020, DOI: 10.35940/ijitee.F3745.049620
3.	Pankaj H. Chandankhede, Dr. M. M. Khanapurkar	International Journal of Electronics Engineering	Design and Development Of Evidence Collection System From Vehicular Data Recorder for Data Analysis	ISSN::0973-7383, Volume 11 Issue 1 pp. 329-336 Jan 2019-June 2019,2nd April 2019
4.	Dhanashri C. Mahajan, Prof. Pankaj H. Chandankhede	International Journal on Research Innovations in Engineering Science and Technology	Design of ARM Base Vehicular Black Box for Automotive Application	ISSN:2455-8540, Jan-2017,Vol-2, Issue-1, pp-69-71
5.	Love Sharma, Prof. Pankaj Chandankhede,Dr. Milind Khanapurkar	International Journal of Engineering Research and Application	Design of Secured Ground Vehicle Event Data Recorder for Data Analysis	ISSN : 2248-9622, Vol. 7, Issue 3, (Part -5) March 2017, pp.37- 48
6.	Love Sharma, Prof. Pankaj Chandankhede,Dr. Milind Khanapurkar	International Journal of Science and Research (IJSR)	Secured Event Data Recorder (EDR) System for Analysis of Data	ISSN:2319-7064,Nov-2016, Vol-5, Issue-11, pp. 1-6
7.	Pankaj H. Chandankhede, Milind M. Khanapurkar	International Journal of Research in Engineering and Technology	DESIGNING OF DRIVER BEHAVIORMODEL AND ITS DATA ANALYSIS FOR VEHICULAR APPLICATIONS	eISSN: 2319-1163,pISSN: 2321-7308, Volume: 05,Issue: 07 , Jul-2016, pp-295-306
8.	Pankaj H. Chandankhede, Milind M. Khanapurkar	International Journal of Electronics Communication and Computer Engineering	Design of Vehicular Data Collection System using ARM 7& CAN Bus	Volume 7, Issue 4, ISSN (Online): 2249–071X, pp-212-216,July 2016
9.	Prof. Pankaj H. Chandankhede Ankit C. Mahajan, Shubham R. Shende	International Journal of Engineering Science & Advanced Technology	Design of Vehicular Black Box for Automotive Application	Vol. 5, Issue. 3, pp-352-355.May-2015

10.	Amarnath Kale, Pankaj Chandankhede.	International Journal of Innovation in Engineering, Research and Technology [IJIERT]	EVIDENCE COLLECTION SYSTEM FROM EVENT DATA RECORDER FORCAR CRASH ANALYSIS	ISSN 2394-3696 ICITDCEME'15 Conference Proceedings, Novateur Publication's, IF-2.776
11.	Amit Lute, Pankaj Chandankhede	International Journal of Innovation in Engineering, Research and Technology [IJIERT]	ARM7 Processor based Event Data Recorder using CAN For Vehicular Systems	ISSN: 2455-1457, I.F.-3.344, Volume 02, Issue 02, February– 2016
12.	Amarnath Kale, Pankaj Chandankhede	International Journal of Innovation in Engineering, Research and Technology [IJIERT]	DESIGN AND IMPLEMENTATIONOF EVIDENCE COLLECTION SYSTEM FROM EVENT DATA RECORDER FOR CAR CRASH ANALYSIS	ISSN: 2455-1457,I.F.-3.344, Volume 02, Issue 02, February– 2016
13.	Pankaj H. Chandankhede, Dr. M.M. Khanapurkar	International Journal of Electronics Engineering	Design of Event Data Recorder for Vehicle Monitoring and Crash Analysis System	ISSN: 0973-7383, impact factor 2.5, Vol. 7, issue 1, Co-Author-, June 2015.pp-9-16
14.	Nitin Sirsikar, Pankaj H. Chandankhede,Dr. M.M. Khanapurkar	International Journal of Modern Trends in Engineering & Research-IJMTER	Design of ARM based EDR & Evidence Collecting System	e-ISSN: 2349-9745, p-ISSN:-2393-8161, Vol. 2, Issue 4,April 2015
15.	Nitin Sirsikar, Pankaj H. Chandankhede,Dr. M.M. Khanapurkar	IOSR Journal of Electronics & Communication Engineering (IOSR-JECE)	Design of ARM Based EnhancedEvent Data Recorder And Evidence Collecting System	e-ISSN:2278-2834, p-ISSN: 2278-8735. Vol. 9, Issue-5, Version-5, Sept. Oct-14, pp-23-29
16.	Tarun Mukherjee, Pankaj Chandankhede	International Journal, Inventi Rapid: Embedded Systems	Evidence Collecting System Using Intra Vehicular Applications	Vol. 2013, Issue 3,June 2013, IF:0.2
17.	Shweta Kulkarni, Pankaj Chandankhede	International Journal, Inventi Rapid: Vehicular Technology	Enhanced Traffic Monitoring and Vehicle Information System	Vol. 2014, Issue 1, December 2013.IF:0.2
18.	Priya Masule, Pankaj Chandankhede	International Journal of Multidisciplinary Educational Research, IJMER	Occupant Detection for Automotive Airbag Suppression	ISSN: 2277-7881, IF-2.735, V:5.16, Vol: 3 , Issue: 3(6), March 2014
19.	Pankaj Chandankhede	International Journal on Recent Trends in Engineering & Technology	Design Approach of Texture Classification using Discrete Cosine Transform with Soft Computing Tool	Vol. 05, No. 01, March 2011., ISSN 2158-5563, IF:0.3
20.	Pankaj Chandankhede	International Journal of Soft Computingand Engineering (IJSCE)	Soft Computing Based Texture Classification with MATLAB Tool	ISSN: 2231-2307, Volume-2, Issue-2, May 2012. IF:1.177
21.	Nitin Sirsikar Pankaj H. Chandankhede	IOSR Journal of Electronics and Communication Engineering, *IOSR-JECE*	Design of ARM based enhanced event data recorder & evidence collecting system	9 (2014), ISSN: 2278-2234

22.	Ankit Vaidya, Pankaj Chandankhede	International Journal, Inventi Rapid: EmbeddedSystems	Radio Frequency Based Wireless Electronic NoticeBoard	Vol. 2013, Issue 2, March 2013. IF:0.2
23.	Shital V. Vaidya & Pankaj H. Chandankhede	International Journal of Electronics, Communication & Instrumentation Engineering Research and Development (IJECIERD)	A Design Approach For Intra Cluster Device-To-Device Communication WithMinimal Resource Utilization	ISSN 2249-684X, Vol. 3, Issue 2, June 2013.IF:-4.9467
24	Dr. Abhay Kasetwar, Dr. Rahul Pethe, Dr. M. W. Khanooni, Mr. Sagar Pradhan, Dr. Pankaj Chandankhede	Journal of Data Acquisition and Processing	ANALYSIS AND PROCESSING OF ROUTING PROTOCOL FOR LARGE DATA TRANSFER OVER WIRELESS SENSOR NETWORK	ISSN: 1004-9037 https://sjcjycl.cn/ DOI: 10.5281/zenodo.7778456 Vol. 38 (3) 2023, pp 7068-7091
25	Himanshu Kitey, Dr. Pankaj Chandankhde, Dr. Kapil Jajulwar, Dr. Mohammad Shahnawaz Shaikh and Dr. Pragati M. Fatinge	Grenze International Journal of Engineering and Technology, Jan Issue	Solar Power Generation Technique and its Challenges - A Comprehensive Review	Grenze International Journal of Engineering and Technology (GIJET) as Volume 10 Issue 1 (January 2024 issue) https://thegrenze.com/index.php?display=page&view=journaldetails&id=8
26	Sruthi Nair, Harshala Shingne, Hitesh Gehani, Shweta Dhondse, Pankaj H. Chandankhede, Snehlata Wankhade	Advances in Nonlinear Variational Inequalities	Nature-Inspired Multi-Objective Reconfiguration of Antennas: Harnessing the GWO, FFO, and ALO for Adaptive Multiple Application Performance	Volume No.: 28 Issue No: 10 PP No.: DOI No.:DOI: https://doi.org/10.52783/anvi.v28.3518, https://internationalpubls.com/index.php/anvi/index

5. International Conferences:- 29

Sr. No.	Authors	Conference Name	Title of Paper	Details
1.	Parmanand, Satish L., Pankaj H. Chandankhede, and Atul R. Deshmukh	International Conference on Advancement in Communication & Computing in Technology (INOACC-2025)	Smart Carbon Footprint Tracking for Sustainable Environment using Internet of Things (IoT): Solution for PUC Authentication	Smart Carbon Footprint Tracking for Sustainabl e Environment using Internet of Things (IoT): Solution for PUC Authentication in 2025 International Conference on Advancement in Communication & Computing in Technology (INOACC), jointly organised by Departments of CSE, ISE, ECE, CSE (AI & ML), CSE (DS) at Sai Vidya Institute of Technology, Bengaluru, India held during 4th–6thApril, 2025.
2.	Ashwini S. Wani, Dr.Swapna Choudhary, Dr. Pankaj Chandankhede	7th International Conference on Inventive Material Science and Applications (ICIMA-2025) DVD Part Number: CFP254B2-DVD; ISBN: 979-8-3315-2150-9	Enhancing Precision Agriculture in India with IoT-Based Weather Stations	7th International Conference on Inventive Material Science and Applications (ICIMA-2025) DVD Part Number: CFP254B2-DVD; ISBN: 979-8-3315-2150-9, 28-30, May 2025, organized by Namakkal, Tamil Nadu, India, Muthayammal Engineering College (An Autonomous Institution) Rasipuram - 637408 Namakkal, Tamil Nadu, India
3.	Parmanand, Satish L., Pankaj H. Chandankhede, and Atul R. Deshmukh	2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)	Use of Generative AI for Audio Speech Recognition: Methods and Selection Criteria	Parmanand, Satish L., Pankaj H. Chandankhede, and Atul R. Deshmukh. "Use of Generative AI for Audio Speech Recognition: Methods and Selection Criteria." In 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), pp. 1113-1120. IEEE, 2025.
4.	Pankaj H. Chandankhede; Pragati M. Fatinge; Kanchan S. Vaidya	2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social	Development of Smart Cup for Monitoring Post Stroke Patients	P. H. Chandankhede, P. M. Fatinge and K. S. Vaidya, "Development of Smart Cup for Monitoring Post Stroke Patients," 2024 IEEE International Conference on Interdisciplinary Approaches

		Innovation (IATMSI)		in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2024, pp. 1-6, doi: 10.1109/IATMSI60426.2024.10502524.
5.	Ms. Bhuvana Kumbhare, Dr. Pankaj Chandankhede, Dr. Kalyani Akant	International Conference on Research Frontiers in Sciences (ICRFS-2023)	Study of KWP2000, CAN and UDS Communication Protocols for Automotive Diagnostic	Ms. Bhuvana Kumbhare, Dr. Pankaj Chandankhede, Dr. Kalyani Akant, Study of KWP2000, CAN and UDS Communication Protocols for Automotive Diagnostic, International Conference on Research Frontiers in Sciences (ICRFS-2023), 21st and 22nd July 2023, in association with American Institute of Physics (AIP), USA indexed by Scopus and WoS (ECI).
6.	Mr. Mayur Dafare, Dr. Abhijit S. Titarmare, Dr. Pankaj Chandankhede, Mr. Sandesh Waghmare, Mr. Abhijeet Bhoyar	The International Conference on Circuit, Power and Computing Technologies ICCPCT-2023	LoRa-Enabled Smart RS485 Data Logger and MQTT Gateway for Industrial IoT Applications using ESP32	Mr. Mayur Dafare, Dr. Abhijit S. Titarmare, Dr. Pankaj Chandankhede, Mr. Sandesh Waghmare, Mr. Abhijeet Bhoyar, LoRa-Enabled Smart RS485 Data Logger and MQTT Gateway for Industrial IoT Applications using ESP32, The International Conference on Circuit, Power and Computing Technologies ICCPCT-2023, Baselios Mathews II College of Engineering on 10th – 11thAugust 2023
7.	Raushan Kumar; Dr. Pankaj Chandankhede; Dr. Kalyani Akant	6th International Conference On Contemporary Computing And Informatics IC3I-2023	Design of Rain Sensing Headlamp Using Model-Based System Engineering	Raushan Kumar; Dr. Pankaj Chandankhede; Dr. Kalyani Akant, Design of Rain Sensing Headlamp Using Model-Based System Engineering, 6th International Conference On Contemporary Computing And Informatics IC3I-2023, Co-Sponsored by IEEE Uttar Pradesh Section IEEE CONFERENCE RECORD NUMBER # 59117 14-Sep-2023 to 16-Sep-2023 Amity University Uttar Pradesh, Greater Noida Campus
8.	Tiple, Rani C., Gopal S. Rathod, Kalyani Akant, Pankaj Chandankhede, and Santosh Yadav	International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)	Hybrid Approach for Weather Prediction in IoT Network	Tiple, Rani C., Gopal S. Rathod, Kalyani Akant, Pankaj Chandankhede, and Santosh Yadav. "Hybrid Approach for Weather Prediction in IoT Network." In 2023 International Conference on Intelligent Data Communication

				Technologies and Internet of Things (IDCIoT), pp. 812-819. IEEE, 2023.
9.	Rani Tiple, Kalyani Akant, Pankaj Chandankhede, Santosh Yadav	11th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET SIP-23), April 2023	"IOT based weather monitoring system using OSSA and MA techniques "	Rani Tiple, Kalyani Akant, Pankaj Chandankhede, Santosh Yadav, "IOT based weather monitoring system using OSSA and MA techniques", 11 th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET SIP-23), April 2023
10.	Vedant Titarmare, Pankaj H. Chandankhede, Minakshi Wanjari	2nd International conference on the paradigm shifts in communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS 2023)	Interactive Zira Voice Assistant- A Personalized Desktop Application	Vedant Titarmare, Pankaj H. Chandankhede, Minakshi Wanjari, "Interactive Zira Voice Assistant- A Personalized Desktop Application", 2nd International conference on the paradigm shifts in communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS 2023), April 2023
11.	Bhuvana Kumbhare,Dr.Kalyani Akant, Dr.Milind Khanapurkar, Dr.Pankaj Chandankhede	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2023) during 1st – 3rd March 2023.	Longitudinal Control for closed loop simulation of Autonomous Driving Vehicle	Bhuvana Kumbhare,Dr.Kalyani Akant, Dr.Milind Khanapurkar, Dr.Pankaj Chandankhede, "Longitudinal Control for closed loop simulation of Autonomous Driving Vehicle", IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2023) during 1st – 3rd March 2023.
12.	Kanchan S. Vaidya Dr. Mukil Alagirisamy Pradeep M. Patil Pankaj H. Chandankhede	World Conference on Advanced Computer Science and Information Technology (WCACSIT-23)	Human emotion recognition using Discrete Wavelet Transform with Support Vector Machine and AdaBoost algorithm classfiers	Human emotion recognition using Discrete Wavelet Transform with Support Vector Machine and AdaBoost algorithm classfiers" World Conference on Advanced Computer Science and Information Technology (WCACSIT-23), Jan-2023
13.	Ekta Jain, Sakshi Badwaik, Sampada Khirwadkar, Shruti Thakare, Mayur Uike, Dr. Pankaj H. Chandankhede	2023 International Conference on Emerging Smart Computing and Informatics (ESCI)	Design of Smart Pet Food Dispenser using Embedded System	Ekta Jain, Sakshi Badwaik, Sampada Khirwadkar, Shruti Thakare, Mayur Uike, Dr. Pankaj H. Chandankhede, "Design of Smart Pet Food Dispenser using Embedded System ",2023 International Conference on Emerging Smart Computing and Informatics (ESCI), March 2023
14.	Dupare, Shreyash, Yugant Moundekar, and Pankaj Chandankhede	In 2023 International Conference for Advancement in Technology (ICONAT	Implementation of Smartphone Based Activity Recognition.	Dupare, Shreyash, Yugant Moundekar, and Pankaj Chandankhede. "Implementation of

				Smartphone Based Activity Recognition." In 2023 International Conference for Advancement in Technology (ICONAT), pp. 1-5. IEEE, 2023.
15.	Chinchanikar, Akshay, Pankaj H. Chandankhede, and Abhijit Titarmare	International Conference on Computing Methodologies and Communication (ICCMC)	Design of Binary Neural Network Soft System for Pattern Detection using HDL Tool	Chinchanikar, Akshay, Pankaj H. Chandankhede, and Abhijit Titarmare. "Design of Binary Neural Network Soft System for Pattern Detection using HDL Tool." In 2023 7th International Conference on Computing Methodologies and Communication (ICCMC), pp. 393-398. IEEE, 2023.
16.	Aniket Basheshankar, Aniket Lande, Anuj Nandeshwar, Arnob Sarkar, Ashwin Udapure, Pankaj H. Chandan khede	2022 10th International Conference on Emerging Trends in Engineering and Technology - Signal and Information Processing (ICETET-SIP-22)	Assistive Cane for Visually Impaired People	Basheshankar, Aniket, Aniket Lande, Anuj Nandeshwar, Arnob Sarkar, Ashwin Udapure, and Pankaj H. Chandankhede. "Assistive Cane for Visually Impaired People." In 2022 10th International Conference on Emerging Trends in Engineering and Technology-Signal and Information Processing (ICETET-SIP-22), pp. 1-5. IEEE, 2022.
17.	Rajeshwari Shinde, Asim Nilose, Pankaj Chandankhede	2022 10th International Conference on Emerging Trends in Engineering and Technology - Signal and Information Processing (ICETET-SIP-22)	Design and Development of Geofencing Based Attendance System for Mobile Application	Shinde, Rajeshwari, Asim Nilose, and Pankaj Chandankhede. "Design and Development of Geofencing Based Attendance System for Mobile Application." In 2022 10th International Conference on Emerging Trends in Engineering and Technology-Signal and Information Processing (ICETET-SIP-22), pp. 1-6. IEEE, 2022.
18.	Prachi Chandel, Harshal Sao, Pankaj Chandankhede	2022 IEEE Delhi Section Conference (DELCON), New Delhi, India	Transformer Real Time Health Monitoring System	P. Chandel, H. Sao and P. Chandankhede, "Transformer Real Time Health Monitoring System," 2022 IEEE Delhi Section Conference (DELCON), 11-13 Feb. 2022 2022, pp. 1-4, doi: 10.1109/DELCON54057.20 2 2.9753348.
19.	Rajeshwari Shinde, Dr. Pankaj H. Chandankhede	2021 IEEE International Conference on Computational Intelligence and Computing Applications (IEEE-ICCICA-21), Nagpur	Use of Body Sensors for Implementation of Human Activity Recognition	R. Shinde and P. Chandankhede, "Use of Body Sensors for Implementation of Human Activity Recognition," 26-27 Nov 2021 International Conference on Computational Intelligence

		India		and Computing Applications (ICCICA), 2021, pp. 1-6, doi: 10.1109/ICCICA52458.202 1. 9697194.
20.	Kumari, Kriti, Pankaj H. Chandankhede, and Abhijit S. Titarmare	2021 6th International Conference on Communication and Electronics Systems (ICCES),Coimbatore, India	Design of Human Activity Recognition System Using Body Sensor Networks	Kumari, Kriti, Pankaj H. Chandankhede, and Abhijit S. Titarmare. "Design of Human Activity Recognition System Using Body Sensor Networks." In 2021 6th International Conference on Communication and Electronics Systems (ICCES), pp. 1011-1016. IEEE, 2021.
21.	Dr. Bhushan Vidhale, Dr. Pankaj H. Chandankhede	6th International Conference for Convergence in Technology, 2-4 april 2021, IEEE Bombay Section, Pune.	Multilingual text & handwritten digit recognition &conversion of regional languages into universal language usingneural networks	Vidhale, Bhushan, Ganesh Khekare, Chetan Dhule, Pankaj Chandankhede, Abhijit Titarmare, and Meenal Tayade. "Multilingual Text & Handwritten Digit Recognition and Conversion of Regional languages into Universal Language Using Neural Networks." In 2021 6th International Conference for Convergence in Technology (I2CT), pp. 1-5. IEEE, 2021.
22.	Kriti Kumari, Dr. Pankaj H. Chandankhede	5th International Conference on Computing Methodologies & Communication, ICCMC 2021, Surya Engg. College, Erode, Tamil Nadu, 8-10 April2021.	A Review on Human Activity Recognition using Body Sensor Networks	Kumari, Kriti, Pankaj H. Chandankhede, Abhijit S. Titarmare, Bhushan R. Vidhale, and Surekha K. Tadse. "A Review on Human Activity Recognition using Body Sensor Networks." In 2021 5th International Conference on Computing Methodologies and Communication (ICCMC), pp. 61-66. IEEE, 2021.
23.	Palak Rawat, Dr. Surekha Tadse, Dr. Pankaj Chandankhede	5th International Conference on Intelligent Computing & Control Systems ICICCS 2021, Madurai, Organized by Vaigai College of Engineering, May 06-08,2021	Parkinson's Detection using Machine Learning	Tadse, Surekha, Muskan Jain, and Pankaj Chandankhede. "Parkinson's Detection Using Machine Learning." In 2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS), pp. 1081-1085. IEEE, 2021.
24.	Dr. Pankaj H. Chandankhede, Mr. Sarang Chavhan, Prof. Abhijit S. Titarmare	IEEE International Conference on Computing, Communication, and Intelligent Systems (Co-Sponsored by IEEE)	Voice Recognition Based Security System Using Convolutional Neural Network	School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh, India held on 19th-20th February 2021

25.	Prof. Abhijit S. Titarmare, Dr. Milind M. Khanapurkar, Dr. Pankaj H. Chandankhede	2020 Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	Analysis of Traffic Flow at Intersection to Avoid Accidents using Nagel- Schreckenlerg (NS) Model	IEEE, 7-9 Oct. 2020, Palladam, India.
26.	Dr. Pankaj H. Chandankhede, Dr. Milind M. Khanapurkar	9th International Conference on Emerging Trends in Engineering and Technology Signal and Information Processing-19 (ICETET- SIP-19)	System Design of Embedded Event Data Recorder for Evidence Collection	IEEE-ICETET-SIP-19) November 01-02, 2019, G.H. Raisoni College of Engineering, Nagpur
27.	Dr. Pankaj H. Chandankhede, Dr. Milind M. Khanapurkar	International Conference on Recent Cognizance in Wireless Communication & Image Processing-ICRCWIP-2014	Design of CAN based Enhanced Event Data Recorder & Evidence Collecting System	ICRCWIP-2014, Poornima College of Engineering Jaipur, January 16-17,2015
28.	Shital V. Vaidya & Pankaj H. Chandankhede	International Conference "Emerging Trends in Science, Engineering, Business and Disaster Management ICBDM 2014	Designing of Event Data Recorder for Vehicle Monitoring based on ARM processor	Image Processing and Networking, Volume:8 Special Issue IV, Feb 2014, ISSN No:0973-2993, p.g.278- 281
29.	Pankaj H. Chandan khede, Parag V. Puranik, P. R. Bajaj	2011 3rd International Conference on Electronics Computer Technology	Soft computing tool approach for texture classification using Discrete Cosine Transform	Chandankhede, Pankaj H., Parag V. Puranik, and P. R. Bajaj. "Soft computing tool approach for texture classification using Discrete Cosine Transform." In 2011 3rd International Conference on Electronics Computer Technology, vol. 4, pp. 296-299. IEEE, 2011.

National Conferences:- 06

Sr. No.	Authors	Conference Name	Title of Paper	Details
1.	Pankaj Chandankhede	National Conference on Recent Trends in Information, Telecommunication & Computing	Design of Enhanced Event Data Recorder & Evidence Collecting System using CAN module	RTITC-14, G.H. Raisoni College of Engineering, Nagpur -.23-24 December 2014
2.	Shital V. Vaidya & Pankaj H. Chandankhede	National Conference on Recent Trends in Information, Telecommunication & Computing	Review paper on Comparison of Event Data Recorders	RTITC-13, G.H. Raisoni College of Engineering, Nagpur - .,26-27 November 2013
3.	Pankaj Chandankhede	National Conference on Recent Trends in Information, Telecommunication & Computing	Microcontroller based vehicular event data recorder for evidence collecting system	RTITC-12, G.H. Raisoni College of Engineering, Nagpur - ., 7th& 8th December2012
4.	Pankaj Hedaoo, Pankaj Chandankhede	National Conference on Advanced Technology NIRMITI-2011	Image De-Noising by using Wavelet Thresholding	Conference, March 08-09 2011, Priyadarshini Institute of Engg. &Tech., Nagpur
5.	Pankaj Chandankhede	ABHYUDAYA-11	Texture Classification using Discrete Cosine Transform with Soft Computing Tool: A Design Approach	Conference, 25 Feb. 2011, Priyadarshini Indira Gandhi College of Engineering, Nagpur
6.	Pankaj Chandankhede	eXalt-IT 2011	Soft Computingbased Texture Classification	Conference, 5th Mar.- 2011,Jawaharlal Darda Institute of Engg. & Tech, Yavatmal

6. Details of Training/Workshop/STTP/FDP Attended:-

Title of the program	Duration (from – to) (DD-MM-YYYY)
Faculty training on AB PLC by The world of automation Pune.	From 08-10-2024 To 8/14/2024
Faculty Development Program on, "MACHINE LEARNING IN THE AGE OF AI: SMART COMPUTING" by CENTRE FOR TRAINING AND LEARNING, NIT Warangal in association with Department of Electronics & Telecommunication Engineering, G H Raisoni College of Engineering, Nagpur,	From 08-06-2024 To 08-10-2024
3rd International Conference on Paradigm Shifts in Communication, Embedded Systems, Machine Learning, and Signal Processing (PCEMS 2024) by Department of ECE, VNIT Nagpur	From 11-11-2024 To 12-11-2024
Cross-Modality Innovation: Generative AI in Language, Image Intelligence, and Medical Advancements by BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING	From 09-12-2024 To 14-12-2024
EXPLORING TRADITIONAL INDIAN KNOWLEDGE SYSTEM FOR ENCHANCING HEALTH AND WELLNESS by Department of Electrical and Electronics Engineering & IQAC of Bharath Institute of Higher	From 23-09-2024 To 27-09-2024

Education and Research, Chennai	
Introduction to Intellectual Property by AICTE, IIT KHARAGPUR	From 01-07-2024 To 08-12-2024
Next Generation Signal Processing & Analysis: Emerging Techniques and Real World Applications by ETC, GHRCE	From 06-01-2025 To 10-01-2025
One week national level faculty development program on cloud infrastructure (AWS), SMT. KASHIBAI NAVALE COLLEGE OF ENGG, PUNE, MAHARASHTRA	From 21/8/2023 to 25/8/2023
"Higher Study Opportunities & Applications of Spatial Al Include ROBOT Navigation, Self Driving Cars, Computer Vision & Quality Control in Production", Organized by Yuan Ze University (YZU) & EduCare Taiwan	From 14/7/2023 to 14/7/2023
Online National Level One Week Faculty Development Program [FDP] on "Advances in 5G & Next Generation Networks" from Jun 26-30, 2023, Department of E&TC, SIT Lonavala and Department of EE, Yeshwantrao Chavan College of Engineering, Nagpur, Technically Sponsored by IEEE Bombay Section and IEEE SB, SIT Lonavala and IEEE SB,YCCE Nagpur.	From 26/6/2023 to 30/6/2023
MHRD Innovation Cell 15 Session 30 Hours Online, Foundation Level, Innovation Ambassador, MoEs Innocation Cell & AICTE	From 3/1/2023 to 31/3/2023
IOT & Drone, E & ICT Academy, IIT Kanpur, (A Joint initiative of MeitY & IIT Kanpur)	From 27/2/2023 to 4/3/2023
Online Faculty Development Program on Artificial Intelligence for Medical Image Processing, organized by Computer Science & Engineering Department of G H Raisoni Institute of Engineering & Technology, Nagpur,In association with E&ICT Academy, NIT WARANGAL	From 30/1/2023 to 8/2/2023
AICTE Training And Learning (ATAL) Academy Offline FDP on "Advanced Faculty Development Program (Hands On Training) on Electronics System Design", Visvesvaraya Technological University Centre For Post Graduate Studies, Muddenahalli	From 17/1/2023 to 23/1/2023
Attended NAAC Sponsored Two Days National Level Workshop on " Role of IQAC in Quality Enhancement & Sustainability" from 14-10-22 to 15-10-22 Organized by Tulsiramji Gaikwad Patil College of Engg & Tech Nagpur	from 14-10-22 to 15-10-22
Attended the two day National Assessment and Accreditation Council (NAAC) sponsored workshop on 'Reimagining Higher Education for Development and Empowerment: Teaching, Research and Innovation' on 29th and 30th August, 2022 organized by Internal Quality Assurance Cell (IQAC) Shri Ramdeobaba College of Engineering and Management, Nagpur	from 29-8-22 to 30-8-22
Workshop on Embedded Systems An Application Driven Approach, Organized by the All India Council for Technical Education (AICTE), ATAL Academy, STMicroelectronics and Arm Education	from 25-8-21 to 27-8-21
FDP ON "INSIGHT OF NBA", IQAC CELL, IT, EXTC & COMPUTER ENGINEERING DEPT, K.C. COLLEGE OF ENGINEERING & MANAGEMENT STUDIES & RESEARCH, THANE	From 28-30 JUNE 2021
5 day National Level Online FDP on MULTI-TECHNOLOGIES, Organised by CSE Dept. G H Raisoni University, Saikheda, in association with NYCI & Brain O Vision Solution Pvt Ltd.	from 28 June 2021-03 July 2021
5 day Online Faculty Development Programme, Organized by K J Somaiya Institute of Engineering and Information Technology, Sion and RUSA, Maharashtra on "Strategies for sustaining Quality Culture in Autonomous Colleges"	from 21st June to 25th June, 2021

National level Workshop on " Strategy to Implement National Education Policy in Higher Educational Colleges", IQAC Cell, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR under Paramarsh Scheme	On 28 June 2021
FDP on "IoT & Cloud Computing", CSE DEPT, K.C. COLLEGE OF ENGINEERING & MANAGEMENT STUDIES & RESEARCH, THANE	From 17-19 JUNE 2021
One day National Level Workshop on " Effective Documentation for NAAC", Organized by IQAC Cell, GHRCE	On 29-June-2021
Training Program on Examination System, Raisoni Group of Institution	From 8-June to 12 June 2021
Cloud Computing, E & ICT Academy. IIT Kanpur	From 10-15 May 2021
LINUX, E & ICT Academy. IIT Kanpur	From 17-22 May 2021
Cyber Security, E & ICT Academy. IIT Kanpur	From 24-29 May 2021
One Week Online FDP on Recent Trends in Electronics / Electronics & Telecommunication Engineering, Organized by Raisoni Group of Institutions	From 15-20 June 2020
Two Week On-Campus Online Training Program for RGI Faculties under Electronics / Electronics & Telecommunication Engineering Cluster, Organized by Raisoni Group of Institutions	From 18 May – 06 June 2020
3-Days FDP on "Interactive- Impactful E-LearningTechniques", Organized by K.C. College of Engineering and Management Studies & Research, Thane	From 18-20July 2020
FDP on "Applications of Industry 4.0 & IoT in the fieldof Engineering and Medical", Deogiri Institute of Engineering and Management Studies, Aurangabad	From July 27 - 31, 2020
Webinar on "Automation usingProgrammable Logic Controller", Organized by the Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore	On 18.08.2020
Skill Development program on "Getting Started with MATLAB & Simulink", G H Raisoni Institute of Engineering & Technology, Pune & DesignTechSystems Pvt. Ltd	From 13-15 August 2020
Three days National FDP on "MATLAB & its Applications", Bishop cotton women's Christian college, Bengaluru	17-19th August 2020
Online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education", as organized by All India Council for Technical Education (AICTE).	From 23-27 July, 2020
Three Day Short Term Training Programme(STTP) On R for Statistics and Data Science, BISHOP COTTON WOMEN'S CHRISTIAN COLLEGE, Cross, CSI Compound, Mission Road, Bengaluru.	From 25th to 27th August 2020
ATAL FDP ON Data Science	From 07 SEPT-11 SEPT 2020
FDP on "Joy of Computing using Python", NPTEL Course, IIT Ropar, 12 Week, Online	Jul-Oct 2019
Workshop on Artificial Intelligence and Deep Learning, LeadingIndia.ai, G.H. Raisoni College of Engineering, Nagpur	8-10 Sept. 2018
Training on Python, G. H. Raisoni College Of Engineering Nagpur.	14-30 May 2018
Training of Twinstar Display Technologies Pvt Ltd, , Yeshwantrao Chavan College of Engineering, Nagpur	12-13 Oct. 2017
Training on Communication Skills, G. H. Raisoni College Of Engineering, Nagpur	25th -5th Nov 2017
NBA workshop, G. H. Raisoni College Of Engineering, Nagpur	From 18th May to 20 May 2017
Training on Excel, G. H. Raisoni College Of Engineering, Nagpur	On 10 Sep 2016
Training on Excel, G. H. Raisoni College Of Engineering, Nagpur.	On 10 Sep 2016

Patent workshop, G. H. Raisoni College Of Engineering, Nagpur.	From 10-12 Dec 2015
ISTE Workshop on Pedagogy for Effective use of ICT in Engineering Education, Conducted by IIT Bombay, G. H. Raisoni College Of Engineering, Nagpur.	June & August 2014
Workshop on Pedagogy, IIT Bombay, G. H. Raisoni College Of Engineering, Nagpur	From 12th-14th June 2014 & 24th -27th August 2014
Workshop on Autonomy Awareness, G. H. Raisoni College Of Engineering, Nagpur	On 28 October 2014
STTP on "Emerging Trends in DSP, G. H. Raisoni College Of Engineering, Nagpur.	From 6-10 May 2013
STTP On Analog Electronics, IIT Kharagpur, G. H. Raisoni College Of Engineering, Nagpur,	From 04/06/2013-14/06/2013
One Day Workshop on Autonomy, G. H. Raisoni College Of Engineering, Nagpur	On 11th Dec. 2013
FDP on CYBORB-the Robotics Workshop, G. H. Raisoni College Of Engineering, Nagpur	From 8-9th Sept. 2012
Learning Engg. Using NI LAB View Course, 2012, G. H. Raisoni College Of Engineering, Nagpur	From 30th Oct-1st Nov
STTP on VLSI Design & Signal Processing, Dr. Bausaheb Nandurkar College of Engineering & Technology, Yavatmal, Maharashtra	From 29th-8th Nov. 2012
ISTE Workshop On "Akash" For Education, National Mission on Education through ICT (MHRD), G. H. Raisoni College Of Engineering, Nagpur	From 10-11 Nov, 2012
Workshop on LaTex, Tulsiramji Gaikwad Patil College of Engg. Nagpur	On 20th Oct 2012
Faculty Development Training Program, G. H. Raisoni Academy for Human Excellence	From 9th -11th August 2010

7. Details as a Resource Person :

Name of the Programme	Details
STTP on "Exploring IoT & 5G with AI, ML", Ajeenkya D Y Patil College of Engineering, Pune	2/9/2024
BOOT Camp, AICTE IDEA LAB, Session & Hand-on PCB Making	07-July 2023
International training program on latest trends in Signal processing and communication systems on "PCB Designing using EASY EDA tool for Embedded Applications"	17-21 July 2023
Internet of Things under AICTE-IDEA Lab	13 April 2023
PCB Designing under AICTE-IDEA Lab	22 February 2023
Internet of Things under AICTE-IDEA Lab	2 March 2023
Internet of Things under AICTE-IDEA Lab	25 March 2023
Use of Latex Software for Thesis Writing	1-3 May 2019
AIML using R	21-26 June 2018
FDP on Python Programming	1-12 June 2018
Pradhan Mantri Kaushal Vikas Yojana (PMKVY)- Course of TV Repair Technician	2016-17 & 2017-18.
Hobby Module-Electronic Circuit Design	General Proficiency, 2015-16

8. Details of Academic Projects:

Academic Projects	Description
Ph.D	Name of Project :Designing of Controller Area Network based Event Data Recorder & Data Analysis for Evidence Collecting System Platform used :Embedded System Description : This research work discusses a design approach for Controller Area Network (CAN) & ARM based Event Data Recorder (EDR) approach for roadside safetyanalysis and data retrieval from EDR for Evidence. EDR records driving data (heating, ventilation, air-conditioning data, wheel speed data and vehicle angular velocity aroundits axis) and position data, before and after the accidents so that it can be used to analyzethe accident easily and to settle many disputes related to car accident such as accident investigation, vehicle maintenance, crash litigation, insurance settlements, driver performance.
Post Graduate	Name of Project : Soft Computing Based Texture Classification using Discrete Cosine TransformDuration : 1 Year Platform used : MATLAB (DIP, NN, FL Toolbox) Description : Texture can be considered as a repeating pattern of local variation of pixel intensities. In texture classification the goal is to assign an unknown sample imageto a set of known texture classes. One of the difficulties in texture classification was thelack of tools that characterize textures. As DCT works on gray level images, the color scheme of each image is transformed into gray levels. Then DCT is applied on the graylevel images to obtain DCT coefficient. These DCT coefficient are use to train the neuralnetwork. For classifying the images using DCT, two popular soft computing techniquesnamely neuro computing and neuro-fuzzy computing are used. A performance comparison was made among the soft computing models for the texture classification problem. It is observed that the proposed neuro-fuzzy model performed better than the neural network.
Under Graduate	Name of Project : Application of Genetic Algorithm for Channel Assignment in Mobile CommunicationDuration: 6 Month Platform used : MATLAB Description : The Channel Assignment Problem in cellular radio network is known to belong to optimization problem. In this Project, since the number of usable frequency which is necessary for the communication between mobile users and the basestation is very limited. So to avoid the possible interference we are implementing Genetic Algorithm, for the Frequency Assignment Problem. In which, the concept of Evaluation, Selection, Crossover using the MATLAB software is implemented.

9. **Subject Taught**: IoT Based System Design, Audio & Speech Signal Processing, Television Engineering, Telematics, Digital Image Processing, Analog System Design, Digital System Design, System on Chip, Audio & Speech Signal Processing.