

Mrs. Kiran Dulip Pakmode
Assistant Professor
Information Technology
Usha Mittal Institute of Technology
SNDT Women's University
Mumbai



Objective: To contribute wholeheartedly to a reputable institution with unwavering confidence, honesty, and integrity, ensuring dedicated efforts toward its continuous growth and success.

Academic Qualification

Sl. No.	Exam	Board / University	Year of Passing	Percentage
1	PhD (VLSI) (Pursing)	Jadavpur University, Kolkata	Registered- 22 nd October 2024	
2	M. Tech (Electronics Engineering)	RTM Nagpur University	2011	73.62%.
3	B.E (Electronics Engineering)	RTM Nagpur University, Nagpur	2004	65.63%
4	Diploma in Electronics and Telecommunication Engineering	Government Polytechnic, Nagpur	2001	74.06%
5	SSC	Maharashtra State Board	1998	78.66%

Personal Profile

Name : Kiran Pakmode
Date of Birth : 25/12/1981
Gender : Female
Marital Status : Married
Contact Number : 9969478016
Contact Address : Flat No. 29, Parijat, Dadar Makarand CHS, Dadar West, Mumbai - 400028

UGC Approval

Received Official approval document issued by Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur to G.H. Rasoni College of Engineering, Nagpur. Approval is given under University Statute No. 8/1979 and AICTE regulations. Date of Issue: 01 April 2012. Based on the college's proposal dated 11 September 2012 regarding faculty appointment as Assistant Professor.

Projects Undertaken during graduation:

1. **Post Graduate:** A Neural Network Approach for minimization of non-linear distortion in an OFDM system
 2. **Undergraduate:** Future Air Bus Station
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Areas of Teaching Assignments:

Switching Theory and Logic Design, Microprocessors and Microcontrollers, Embedded Systems, Digital Circuits, VLSI, Pulse and Digital Circuits, Linear and Digital IC Applications

Research Experience

- **PhD (Pursing) (Reg. No. 1012407013 of 2024), Jadavpur University, Kolkata**
 - **Research Coordinator** at Bioelectronics Laboratory, funded by **DST-FIST** Scheme.
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Teaching Experience:

Sr. No.	Institute	Designation	From Date	To Date	Experience
1	Usha Mittal Institute of Technology, Mumbai	Assistant Professor	17-08-2026	Till date	
2	J. B. Institute of Engineering and Technology, Hyderabad	Assistant Professor	04-10-2021	08-08-2026	4.8 Yrs
3	G. H. Rasoni College of Engineering, Nagpur	Assistant Professor	21-08-2012	20-05-2016	4 Yrs
4	G. H. Rasoni College of Engineering, Nagpur	Lecturer	01-06-2010	20-08-2012	2 Yrs
5	Nagpur Polytechnic Nagpur	Lecturer	29-06-2004	30-04-2006	2 Yrs

NPTEL Online Certifications (Completed)

1. Experimental Nanobiotechnology (4 weeks): Feb-Mar 2025- Elite + Silver, Credits: 01 or 02
2. CMOS digital VLSI Design (8 weeks): Jan-Mar 2025- Elite, Credits: 02 or 03
3. Fundamentals of Electronic Materials and Devices (8 weeks): Jan-Mar 2025- Elite, Credits: 02 or 03
4. The Joy of Computing using Python (12 weeks): Jul-Oct 2022- Elite + Silver, Credits: 03 or 04
5. Cloud Computing (12 weeks): Jul-Oct 2022- Elite, Credits: 03 or 04
6. Microprocessors and Microcontrollers (12 Weeks): Jan-April 2022- Elite, Credits: 03
7. Embedded Systems (12 Weeks): Jan-April 2022- Elite, Credits: 03

NPTEL Online Certification (Ongoing)

1. AI Applications in Academic Research (10 Weeks)
2. Academic Writing & Composition (15 weeks)
3. Accreditation of Undergraduate Engineering Programme- As per SAR 2024-25 (08 Weeks)

Patents Published:

1. Patent on **“Composition for Bacterial Growth Inhibition Using ZnO and Ag Nanoparticles and Method Thereof** (202441076785 A), Published (18/10/2024): Indian Patent
2. Patent on **“Ultra-Low Power Chip for IoT and Wi-Fi”** (202241067597 A), Published (02/12/2022): Indian Patent

Paper Publications in Journals [Scopus ID: 58967847500]:

- Kiran Pakmode, N. Soujanya, K. V. V. Satya Sai, Mohammad Razak, P. C. Krishnamachary, Sayan Chatterjee, Prasanta Kumar Pradhan, Anindya Jana, “Exploring the Antibacterial Efficacy of SrTiO₃ and GO in the Absence of Light: Mechanisms, Synergies, and Applications”, AIP Conference Proceedings for DISC 2024, RESEARCH ARTICLE | APRIL 08 2026, AIP Conf. Proc. 3376, 070001 (2026) <https://doi.org/10.1063/5.0329121>
- K. Pakmode, P. C. Krishnamachary, T. Sultana, P. K. Pradhan, S. Chatterjee and A. Jana, "Biosensors: Pioneering Progress in Sensing Technologies across Generations," 2023 16th International Conference on Sensing Technology (ICST), Hyderabad, India, 2023, pp. 1-6.
- Kiran Pakmode, P. C. Krishnamachary, Prasanta Kumar Pradhan, Sayan Chatterjee, and Anindya Jana, “Nanomaterials for Biosensing Applications”, Proceedings of International Conference on Data, Electronics and Computing (ICDEC-2023), Springer, Lecture Notes in Networks and Systems 1103, Volume-2, pp. 37-52.
- Kiran Pakmode, P. C. Krishnamachary, Sayan Chatterjee, Prasanta Kumar Pradhan and Anindya Jana, “REALIZATION OF BIOSENSOR USING ORGANIC FIELD EFFECT TRANSISTOR”, International Journal of System Design and Information Processing (IJS DIP), 2023; Volume -11, Issue-2, pp. 73-76.
- Jakeer Husain, Kiran Pakmode, Narsappa Reddy, Anindya Jana, Sayan Chatterjee, “Sensing and Electrical properties of Polyaniline /Nanocomposites for Gas Sensor Application”, International Journal of Engineering Technology and Management Sciences (IJETMS), Issue: 2, Volume No. 7 March - April – 2023 ISSN: 2581-4621, pp. 108-111.
- Published Paper titled “BER Performance Comparison of HIPERLAN/2 for Different Modulation Schemes with $\frac{1}{2}$ and $\frac{3}{4}$ Code Rates”, in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Vol. 3, Issue 12, December 2015, ISSN(Online): 2320-9801, ISSN (Print): 2320-9798, Impact Factor: 5.6.
- Published Paper titled “Design of Multi Beam Forming Smart Antenna Systems Using

Sample Matrix Inversion & Fast Fourier Transform Algorithm for OFDM Communication”, in International Journal of Multidisciplinary Educational Research (IJMER) ISSN: 2277-7881; Impact Factor - 2.972; IC Value: 5.16 Volume 4, Issue 2(5), February 2015.

- Published Paper titled “Neural Network Based Compensating Technique for Nonlinear Distortion in OFDM System”, in International Journal of Multidisciplinary Educational Research (IJMER), ISSN: 2277-7881; IF-2.735; IC V:5.16; Vol 3, Issue 3(10), March 2014.
- Paper publication in International Journal of Research in Computer and Communication Technology (IJRCCT) with title “An Approach to reduce Non-linearity of HIPERLAN/2 system using Neural Network”, Vol. 2, Issue 2, Feb-2013, pp. 73-77., Impact Factor: 0.52
- Paper Published in International Journal of Engineering Research and Applications (IJERA) under the title “BER Performance Comparison of HIPERLAN/2 with different modulation schemes for $\frac{1}{2}$ and $\frac{3}{4}$ code rates”, Vol. 2, Issue 3, May-June 2012, pp. 1398-1400, Impact Factor- 1.69.

Conferences Attended [Scopus ID: 58967847500]:

- International Conference on Devices, Intelligent Systems and Communications (DISC-2024), J. B. Institute of Engineering and Technology, Hyderabad, 8th- 9th November 2024
 - 16th International Conference on Sensing Technology (ICST2023), BITS Pilani, Hyderabad, India, 17-20 December 2023.
 - 2nd International Conference on Data, Electronics and Computing (ICDEC-2023), Mizoram University, 15th - 16th December, 2023.
 - 2nd National Conference on Recent Trends in Information, Telecommunication and Computing (RTITC-13), November 2013 held in G. H. Raison College of Engineering, Nagpur held from November 26-27, 2013
 - International Conference on Novel Horizons & Prospects of Industry Institute Interaction held from 5-6th February 2012 at Shri. Shankarprasad Agnihotri College of Engineering, Wardha.
 - International Conference on Sunrise Technologies held from 13- 15 January 2011 at SSVPS's B. S. DEORE College of engineering & polytechnic, Dhule. Maharashtra
 - International Conference on Advances in Communication, Embedded system and Computation, at Sagar Institute of Research and Technology, Bhopal held from 14-15 January 2011.
 - International Conference on Advances in Computer, Communication Technology and Advances held at C. V. Raman college of Engineering, Bhubaneswar, from 2-5 August 2010.
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Workshops & Training Attended:

1. "Masterclass Series under Intellectual Property Utsav", 21st-26th April 2025 organized virtually by All India Council for Technical Education (AICTE) and Ministry of Education's Innovation Cell (MIC)
2. AICTE Recognized Faculty Development Programme on "Teaching ECE Lab subjects using free Simulators" Conducted by Electronics and Communication Engineering Department from 03rd-07th March 2025 (One Week) at J. B. Institute of Engineering and Technology, Hyderabad, Telangana.
3. One Day IARP Workshop on "Beneficial Effects of Radiation and Indian Nuclear Energy Programme", 25th January 2025 organized by J. B. Institute of Engineering and Technology
4. Three-Week Internship Program on VLSI Design, June-July 2024, organized by center for advanced studies in electronics science & technology, University of Hyderabad, Hyderabad
5. INUP-i2i- "14th User Awareness Workshop on Fabrication and Characterization Facility for Nanotechnology" held at IIT, Delhi during 29th -30th April 2024
6. INUP-i2i- "Familiarization Workshop on Nanofabrication Technology", during 22nd -25th January 2024 held at IIT, Bombay.
7. Two day **"5th National Level Workshop on NIRF India Rankings 2024"** for Higher Educational Institutions 13th-14th December 2024 conducted by Institute for Academic Excellence (IAE), Hyderabad.
8. **"Awareness Program on Intellectual Property Rights (IPR)"** (Under the initiative of Government's "Azadi ka Amrit Mahotsav") Date: 15th-16th December 2022 at Institution of Engineers, Khairatabad, Hyderabad
9. Faculty Development Program on **"Entrepreneurship Development"** from 14th -25th November 2022, National Institute of Micro, Small and Medium Enterprises (ni-MSME) sponsored by the Department of Science and Technology, Govt. of India.
10. One Week Faculty Development Program on **"Python Programming"** from 08th - 13th August 2022 organized by Department of Computer Science, J. B. Institute of Engineering and Technology, Hyderabad.
11. 5-day online FDP on the theme **"Inculcating Universal Human Values in Technical Education"** from 28th February-4th March 2022 Organized by All India Council for Technical Education (AICTE).
12. One Week Faculty Development Program on **"Constructive Technologies in Electronics and Communications"** 29th-04th November 2021 organized by Department of Electronics and Communication Engineering, J. B. Institute of Engineering and Technology, Hyderabad.
13. AICTE-Sponsored Workshop on **"AICTE Quality Initiatives and Funding Opportunities"** held on 29th October 2021 jointly organized by AICTE, New Delhi and Human Resource Development Centre, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, T.S., India
14. Three Days workshop on **'Patent Drafting'** from 10th -12th December 2015, at GHRCE, Nagpur

15. FDP under TEQIP-II on "**Recent Trends & Practices in Advanced Communication**", 6th April 2015 -10th April 2015 at Department of Electronics & Telecommunication, GHRCE, Nagpur.
 16. Two-week ISTE Workshop on "**Analog Electronics**", conducted by IIT Kharagpur at GHRCE, Nagpur, 4th -14th June, 2013
 17. Short Term Training Program on "**Emerging Trends in Digital Signal Processing**", GHRCE, Nagpur, 6th -10th May 2013.
 18. ISTE workshop on "**Aakash for education**", GHRCE, Nagpur, 10th-11th November 2012
 19. One day workshop on "**Future scope of Neural Networks**", at Institute of Management and Technology, Nagpur.
 20. Three Days workshop on "**Faculty Induction Training Program** in G.H. Raisoni Academy for Human Excellence (GHRAHE).
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Innovation Ambassador (IA) training program conducted by Ministry of Education (MoE) Innovation Cell & AICTE:

1. Innovation Ambassador (IA) training "**Foundation Level**" (30 Contact Hours, Total 16 Sessions): 2021-22 (12-11-2022)
 2. Innovation Ambassador (IA) training "**Advanced Level**" (30 Contact Hours, Total 16 Sessions): 2022-23 (13-7-2023)
 3. Innovation Ambassador (IA) training "**Reskilling**" (21 Contact hours, Total 21 Sessions): 2023-24 (13-08-2024)
 4. Innovation Ambassador (IA) training "**Upskilling**" (30 Contact hours, Total 21 Sessions): 2025-26 (25-04-2026)
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Administrative Experience / Portfolios Handled:

1. Laboratory In-Charge of the **DST-FIST funded Bioelectronics Laboratory**, overseeing fabrication processes and conducting workshops for students and faculty members
2. Central Coordinator for **Industry Institution Innovation Council (IIIC)**, JBIET till date, during which the institute secured a 4-Star IIC Rating for **four consecutive years**.
3. Central Coordinator for **Innovation & Incubation Hub (i2hub)**, JBIET
4. Central Coordinator for **Entrepreneur Development Cell (EDC)**, JBIET
5. Coordinator for **International Conference on Devices, Intelligent Systems and Communications (DISC-2024)**, J. B. Institute of Engineering and Technology, Hyderabad, 8th- 9th November 2024
6. Coordinator for **Smart Innovation Hackathon 2026** from 01st -2nd April 2026
7. Coordinator for **Smart Innovation Hackathon 2025** from 19th -20th August 2025
8. Coordinator for **Smart Innovation Hackathon 2024** from 26th -27th September 2024
9. Member, Board of Studies (BOS) of Electronics and Computer Engineering Department, JBIET
10. Worked for DST-FIST Lab and AICTE IDEA Lab management

11. Coordinator of Students Club “(ECHOS)” of Electronics and Computer Engineering Department, JBIET since 2021
12. Coordinator of Students Technical Association **ECMTA** of Electronics and Computer Engineering Department, JBIET since 2021
13. Innovation Ambassador Trainer
14. NAAC coordinator, Criterion 2
15. NBA Coordinator, Criterion 2
16. Editor of ECM Departmental Newsletter
17. **Course coordinator** Skill Enhancement Program on “**MATLAB & SIMULINK**”
18. Laboratory Incharge (Optical Communication / Digital Communication)
19. Departmental News Coordinator
20. Departmental Feedback Incharge.
21. Departmental Remedial Teaching Incharge.
22. Departmental Students Activities and Students Welfare Incharge.
23. Departmental T & P Coordinator/ Coordinator
24. Team member for NBA preparation.
25. Departmental Coordinator for General Proficiency-V (Technical Report Writing) for VI Semester.
26. Departmental Coordinator for Industry Internship data handling.
27. Departmental CR Meeting Incharge.
28. Departmental Class Assessment Examination Incharge
29. **Worked as Paper Setter for subjects (UG):** Digital Signal Processing, Optical Communication, Digital Communication, Radar & Satellite Communication, Wireless Communication
30. **Worked as Paper Setter for subjects (PG):** Advanced Digital Communication

Organizing Capability:

1. Organized more than 150 events on Innovation, Entrepreneurship, Start-Ups, IPR as IIC Coordinator.
2. Organized 3 days Robotics Workshop
3. Served as **Coordinator** for AIP International Conference on Devices, Intelligent Systems & Communications (DISC 2024), during 8th -9th November, 2024.
4. Organized “ROBO WARS (ROBO SOCCER AND ROBO SUMO)” on 01st March 2025.
5. Organized “ROBO WARS (ROBO SOCCER AND ROBO SUMO)” on 14th March 2024.
6. Organized one day “Logo Design Workshop” from 22nd November 2023.
7. Organized Three days “Robo Design Workshop” from 13th- 15th March 2023.
8. Organized as coordinator Alumni Meet 2023 at JBIET, Hyderabad in March 2023.
9. As Innovation Ambassador provided training to faculty members on Innovation, Entrepreneurship, Start-Ups, IPR
10. Organized Interdepartmental Technical Quiz Competition “CODE N QUIZ”
11. Organized Interdepartmental Technical Competition “Speak and Lead”
12. Organized Interdepartmental Elocution Competition on Celebration of 150 years of

Vande Mataram.

13. Organizing member in INXS'2022, INXS'2023, INXS'2024, INXS'2025, INXS'2026, Graduation Day-2022, Graduation Day-2023, Graduation Day-2024, Graduation Day-2025, Graduation Day-2026, Placement Day-2023, Placement Day-2024, Placement Day-2025, Placement Day-2026
14. As a Coordinator of Students Club **"ECHOS"** of Electronics and Computer Engineering Department, JBIET organized around 50 events
15. As a Coordinator of Students Technical Association **"ECMTA"** of Electronics and Computer Engineering Department, JBIET organized around 15 technical events
16. **Publicity Chair** for "1st International Conference Recent Trends in Information Processing & Computing", to be held in January 30-31, 2016.
17. Organizing committee member for National Conference on "Recent Trends in Information, Telecommunication and Computing (RTITC)", organized by ETC department, GHRCE, Nagpur from last 2013 to 2016.

Experience As Reviewer:

1. Reviewer for reviewer of papers for **"12th International Conference on Emerging Trends in Engineering & Technology - Signal and Information Processing (ICETET - SIP 25)"**, 1st -2nd August 2025 organized by GHRCE, Nagpur
2. Reviewer for reviewer of papers for **"2nd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2024)"**, organized by IEEE MP Section and ABV-IIITM Gwalior, India on 14-16 March 2024.
3. Reviewer for National Conference on **"Recent Trends in Information, Telecommunication and Computing"**, GHRCE, Nagpur, 26-27th November 2013

Resource Person:

1. Three days Hands-on Workshop on **"VLSI Fabrication Technology"** for consecutive 03 Yeras
2. Research Talk on "Literature Review in Research"
3. Research Talk on "Flexible Wearable Devices"
4. Research Talk on "Biosensors"
5. Research Talk on "Biosensors and their types"
6. As Innovation Ambassador Trainer
7. Session on **"National Start-up Day"** on 17th January 2024 at JBIET
8. Session on **"Innovation & Entrepreneurship Outreach Program in Schools"** on 18th July 2024
9. Session on **"World Entrepreneur Day"** on 21st August 2023 at Bhaskar Engineering College, Hyderabad
10. Session on **"Innovation/Prototype Validation - Converting Innovation into a Start-up"** on 21st August 2023 at Bhaskar Engineering College, Hyderabad

11. Session on **“Innovation, Entrepreneur and Startups for Rural India”** at ATAL Innovation Center, Kusuma Ramaiah Zilla Parishad (KRZP) High School (Boys), Sircilla, Telangana on 18th August 2023
 12. One Week Faculty Development Program (FDP) on **“Internet of Things (IoT) and its applications”** was organized from 28th February to 4th March 2023 at JBIET.
 13. Session on **“Rural Development, Start-ups & the Youth”** (National Youth Day Celebration) at JBIET on 11th January 2023
 14. Coordinator for **“MATLAB Workshop”** for 1st Year Students from 19th-23th January 2015.
 15. Course Work on **“Research Methodology & Quantitative Methods”**, at GHRCE, Nagpur 17th November -27th November 2014
 16. Course Work on **“Research Methodology & Quantitative Methods”**, at GHRCE, Nagpur 1st February-12th February 2014
 17. Course Work on **“Research Methodology & Quantitative Methods”**, at GHRCE, Nagpur 31st July-1st August 2013
 18. One-week Short Term Training Program on **“Emerging Trends in Digital Signal Processing”**, GHRCE, Nagpur, 6th-10th May 2013.
 19. Course Work on **“Research Methodology & Quantitative Methods”**, at GHRCE, Nagpur 10th -22nd December 2012
 20. Skill Enhancement Program on **“MATLAB & SIMULINK”** Course coordinator
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Laboratory Established:

Procured Experimental Kits and Equipment for Optical Communication Laboratory.

Projects Guided (PG):

1. Reduction of PAPR in VLC OFDM System with combined effect of DFT-Spread, PTS and SLM method (2016)
 2. Design of Multibeam Forming System Using VHDL for OFDM communication (May 2015)
 3. SOM and PLSOM based compensating technique for nonlinear distortion in OFDM system (May 2014)
 4. Design of Control System for Smart Home Based on GSM (May 2012)
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Projects Guided (UG):

1. Real time Hand Gesture Controlled UAV using Computer Vision Techniques (2026)
2. AI Based Exam Paper Evaluation System (2026)
3. Autonomous Obstacle Detection and Avoidance in Drones (2025)
4. Vintage Vogue Emporium (2024)
5. Online Mentorship Platform for Startups (2023)
6. Real Time Digi Notice using IoT (2023)

7. Deep Fake detection: classification of images based on Mesonet (2022)
 8. Design of an IoT Based Autonomous Vehicle with the Aid of Computer Vision (2022)
 9. Design and Implementation of Energy Efficient Train
 10. Design Of Simulink Model For DWT-OFDM & Comparison Of FFT- OFDM And DWT-OFDM.
 11. Automated Robot Control Through Image Processing in MATLAB
 12. Defense Secure Communication
 13. User Device for Bus Identification System for Visually & Audibly Impaired Person
 14. Automatic Vehicular Accident Notification System Based on SMS and MMS
 15. Arduino based Speed Indicator for Vehicle Automation
 16. Emergency Vehicle Passing from Critical Zone
 17. Implementation of MIMO OFDM System for WiMax
 18. Advanced Monitoring and Attendance System for Industrial Plants
 19. Automatic Headlight Dimmer and Car Battery Saver
 20. Smart Card Data Access with Security systems Enabled
 21. Intelligent Bridge Monitoring System
 22. IPTV using Broadband
 23. Design of Doctor's Inscription pad
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REFEREES

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