

BIO-DATA



1.	Name	Pranali Chandrashekar Choudhari				
2.	Designation	Assistant Professor				
3.	Residential Address	Koparkhairane, Navi Mumbai, 400709				
4.	Date of birth	24/05/1978				
5.	Total Experience					
	i. Teaching	16 years				
	ii. Industrial	09 months				
6.	Qualifications					
		Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
		PhD.	Pursuing	V.J.T.I., Mumbai	Electronics	-
		MTech	2009	I.I.T. Bombay, Mumbai	Communication and Signal Processing	1 st class with distinction 9.29 (C P I)
		B.E	2002	MKSSS Cummins College of Engg., Pune	Electronics and Telecommunication Engineering	1 st class (60.00 %)
		Diploma	1996	PDVVP Polytechnic, A'Nagar	Electronics and Telecommunication Engineering	1 st class with distinction (72.00 %)
		SSC	1993	Scared Heart Convent Highschool, A'Nagar	-	1 st class with distinction (80.74 %)
Additional Qualification:						
7.	Employment Record					
		Institution	Year (From To)	Designation		
		Fr. C. Rodrigues Institute of Technology, Vashi.	22/02/2010 till date	Asst. Professor Basic: 23230/- GP: 8000/- DA:14054 /- HRA:9369/- TA:1600/- Gross:56253 /-		
			01/01/2009 to 21/02/2010	Senior Lecturer Scale :10000 : 325 : 15200		
			25/07 /2002 to 31/12/2008	Lecturer CONCOL/SA/346 of 2012 dated March 12, 2012 Scale: 8000 : 275 :		

							13500/-	
8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught							
	Subjects Taught at UG level							
	Sr.No.	Name of Subject			Semester			
	1.	Signals and Systems			IV EXTC			
	2.	Discrete Time signal Processing			VI EXTC			
	3.	Microporcessor and Application			V EXTC, VI Electrical			
	4.	Basics of Electrical and Electronics Engineering			FE			
	5.	Networking			FE			
	6.	Electronics Devices and Circuits			III EXTC			
	7.	Computer Communication Networks			VIII EXTC			
	8.	Analog and Digital Integrated Circuits			IV EXTC			
	9.	Wave Shaping Techniques			IV EXTC			
	10.	Digital Logic Design			III EXTC			
	Subjects Taught at PG level							
	Sr.No.	Name of Subject			Semester			
	1.	Wavelets			II EXTC			
	2.	Modern Digital Signal Processing and Applications			I EXTC			
9.	Research Experience							
10	Research Funding / Consultancy Services:							
	Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period	
	1.							
	Research Grants:							
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project		
	1.	University Minor Research Grant (Ref No.APD/237/429 of 2017 dated 16 th January 2017 Research Project number 536).	Minor Research Grant	Rs,18,000	2017	Disease diagnostic system using Photo plethysmography		
	2.	University Minor Research Grant Ref No: APD/237/351 of 2014 dated 13th October 2014)	Minor Research Grant	Rs,45,000	2014	Diagnosis of cardiovascular disease using impedance cardiography		
	Technical Collaboration / Lab Funding with Industries							
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year			
11	Professional Societies Fellowship / Membership							
	Sr. No.	Name of the Professionals Society						
	1.	Associate member of Institution of Electronics and Telecommunication Engineers						
	2.	Life member of the Indian Society for Technical Education, India (LM 46470).						
12	Achievements / Awards / Position							
13	Projects guided in UG/PG level							

UG:

1. BE Final year students of the batch 2015-16 successfully completed a project on Real Time Patient Health Monitoring System. The project group members include: Deepa Paul, Mayuri Patil, Ankita Kadam, Rashmi Sharma
2. BE Final year students of the batch 2014-15 successfully completed a project on Removal of noise from physiological signals . The project group members include: Rajul Chopade , Sarika Phad , Akash More , Sahil Bhanot
3. BE Final year students of the batch 2012-13 successfully completed a project on Separation of Heart sound and lung sounds. The project group members include: Mr. Sarang Patil, Mr. Nikhil Chougule, Mr. Mayur Thakur, and Mr. Balaji M.
4. BE Final year students of the batch 2012-13 successfully completed a project on Gesture Recognition using Kinect. The project group members include: Mr. Tushar Bhatia, Ms. Harshita Pal, Ms. Khyati Ved, and Mr. Rishi Sen.
5. BE Final year students of the batch 2010-11 successfully completed a project on Data Acquisition system. The project group members include: Mr. Vikram Bhadauria, Mr. Sanket Zhambre, Mr. Irfan Siddiqui and Mr. Sachin Bhingikar
6. BE Final year students of the batch 2009-10 successfully completed project on Vehicle Collision Warning System. The project group members include: Mr.Harishankar R.,Mr. Kaustubh Jadhav., Mr. Harshilkumar Mohadikar., Mr.Nilesh More.
7. BE Final year students of the batch 2009-10 successfully completed project on Image Steganography. The project group members include: Mr. Harshad Bansode, Mr. Anosh Daruwalla, Mr. Manoj Sutar, Mr. Pramesh Chand.
8. BE Final year students of the batch 2006-07 successfully completed project on Application of Profibus-DP in Industrial Automation. The project group members include: Mr. Kapil Sathe, Mr. Rahul Yadav, Mr. Nitin Yadav, Mr. Prasenjeet Madare
9. BE Final year students of the batch 2005-06 completed project on VOIP -An Application Development. The project group members include: Ms. Shaiffee Gupta, Mr. Prateek Singhi, Ms. Navya Warriar, Ms. Pallavi Sakhare
10. BE Final year students of the batch 2004-05 completed project on “Automatic Vehicle Locator using GPS and GSM”. The project group members include: Mr. Venkatesh Chakravarti, Mr. Kaizad Irani, Mr. Pritam Pradhan
11. BE Final year students of the batch 2003-04 completed project on “MicroController Based Operating Panel”. The project group members include: Mr. Chaudhari Sunil, Mr. Kolapte Mangesh, Mr. Naik Parag, Mr. Shinde Ajay

PG:

1. Juil Zodge “Detection of branch Retinal vein Occlusion(brvo) using Fractal analysis” completed in June 2017
2. Vrushali Taware “3 dimensional modeling of Artery using MATLAB” completed in June 2017
3. Shamali More , “Development of Non-invasive Diagnostic Tool for Diseases using Photo Plethysmography” completed November 2016
4. Kavita Chandrate , “Interpretation of brain signal for body movements to control State machine, completed in December 2016
5. Samruddhi Patil “Diagnosis of Diseases Using Impedance cardiography” completed July 2015

14 Short Term Training Programmes attended

1. Attended One week FDP on “Signal Processing and applications” at VJTI, Mumbai

	<p>23 - 27th February 2015.</p> <ol style="list-style-type: none"> 2. Attended One week FDP on “RF Circuit Design” at VJTI from 9th to 13th February, 2015 3. Attended and FDP on “Project Management Tools and Techniques ” at VJTI, Mumbai during 22-08-2013 to 26-08-2013. 4. Attended an FDP on “Finite Element Methods”, at VJTI, Mumbai during 18-02-2013 to 21-02-2013. 5. Attended a one week AICTE Sponsored National Level STTP on “VLSI & Embedded Systems” from JULY 1–5, 2013 Organized by Department of Electronics & Telecommunication Engineering, Fr. C. Rodrigues Institute of Technology, Agnel Technical Education Complex, Sector 9A, Vashi – 400 703, Navi Mumbai, Maharashtra. 6. Attended and organized AICTE Sponsored National Workshop on “DSP and its application in Speech and Image Processing” organized by Fr.CRIT, Vashi, during 9-7-07 to 14-07-07. 7. Attended ISTE-AICTE sponsored STTP on “Digital Signal Processing and its application in speech Processing (with Matlab)” organized by Fr.CRIT, Vashi, during February 26 – March 02, 2007 8. National Workshop on “DSP & its Application in Communication, .Control & Bio medical Engg” during July 03-07, 2006 at RAIT, NERUL 9. AICTE sponsored SDP on “NanoTechnology : Opportuinties and Challenges”, during December 19-31, 2005 at Dr. Bababsaheb Ambedkar Technological University, Lonere.
<p>15</p>	<p>List of Journal Papers Published (list in IEEE format)</p> <ol style="list-style-type: none"> 1. Sarang Patil, Nikhil Chaughule, Pranali Choudhari, “Heart Sound Enhancement using Kalman Filter and Independent Component Analysis Algorithm”, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 6, June 2013, pp 458-461 2. Pranali Choudhari and M S Panse, “Measurement of Cardiac Output using Bioimpedance Method”, IJCA Proceedings on International Conference on Communication Technology ICCT(2):28-33, October 2013. Published by Foundation of Computer Science, New York, USA 3. Pranali Choudhari, Dr. M. S. Panse, “Artifact Removal From The Radial Bioimpedance Signal Using Adaptive Wavelet Packet Transform ” in International Journal of COMPUTATIONAL ENGINEERING RESERCH, IJCER-2014 organized by International Journal of Computational Engineering Reserch, ISSN(e): 2250-3005 ,Volume 04, Issue 7 , JULY 2014. 4. Pranali Choudhari, Dr. M. S. Panse, “Denoising Of Radial Bioimpedance Signals Using Adaptive Wavelet Packet Transform And Kalman Filter” in IOSR Journal of VLSI AND SIGNAL PROCESSING, IOSR-JVSP-2014 organized by IOSR Journal Of Vlsi And Signal Processing , e-ISSN: 2319-4200 ,p-ISSN No. : 2319-4197 Volume 05, Issue 1, during JAN-FEB. 2015. 5. Patil, Samrudhi, Pranali Choudhari, "Diagnostic System Based on Impedance Cardiography." International Journal of Global Technology Initiatives 4, no. 1 (2015): B59-B68. 6. Pranali Choudhari , Rajul Chopade , Sarika Phad , Akash More , Sahil Bhanot, “Removal of baseline wander from Physiological signals”, International Journal of modern Trends in Engineering and Research”(IJMTER) Volume 2, Issue 7, [July-2015] pp 1115 -1120.

	<ol style="list-style-type: none"> 7. Pranali C. Choudhari , M. S. Panse, “Intelligent System Based on Impedance Cardiography for Non-invasive Measurement and Diagnosis”, <i>Advances in Intelligent Systems and Computing</i> , Volume 384 pp 69-78 published by Springer International Publishing Switzerland 2016. 8. Pranali Choudhari, Rajul Chopade and Sarika Phad, “Removal of Baseline Wander from Physiological Signals Using Wavelet Transform”, <i>Emerging Research in Computing, Information, Communication and Applications</i>, vol. 3 pp 225-234, 2016 9. Pranali Choudhari, M S Panse, “Finite Element Modeling and simulation of arteries in the human arm to study the aortic pulse wave propagation”, <i>Procedia Computer Science</i> ,2016 vol. 93, pp. 721-727. 10. Vrushali Taware, Pranali Choudhari, “Segmentation and Reconstruction Techniques for Modeling of Blood Vessel”, <i>International Journal of Computer Applications (IJCA)</i>, Vol 162 No. 8, pp 22-27, 2017. 11. Juil Zodge, Pranali Choudhari, “Detection of Branch Retinal Vein Occlusions using Fractal Analysis”, <i>International Journal of Computer Applications (IJCA)</i>, Vol 162, No. 8, pp 28-32, 2017. 12. Choudhari, Pranali, and M. S. Panse. "Mathematical Modeling Of Stroke Volume From The Peripheral Blood Flow For Non Invasive Plethysmographic Measurement Of Cardiac Output And Its Validation." <i>Biomedical Engineering: Applications, Basis and Communications</i>, vol. 29, issue 06, December 2017
16	<p>List of Papers Published in National and International Conferences (list in IEEE format)</p> <ul style="list-style-type: none"> • International Conferences <ol style="list-style-type: none"> 1. Pranali Choudhari, Parul Shah, Suresh S, “Adaptive Wavelet Packet Based Audio Steganography using Data History” in <i>3rd International Conference on INDUSTRIAL AND INFORMATION SYSTEMS, ICIIS-2008</i> organized by IEEE REGION 10 with Indian Institute Of Technology, Kharagpur during 8-10 DECEMBER 2008. 2. Pranali Choudhari, Amruta Mhatre, “Image Steganography” <i>Proceedings International Conference on Advances in Computing and Management (ICACM2012)</i>, Dr. D Y Patil Institute of MCA, Akurdi, Pune pp 245-248, January 06-08, 2012 3. Pranali Choudhari, “Development of Vehicle Tracking System using Passive Sensors <i>International Conference on Communication, Information and Computing Technology (ICCICT-2012)</i>, Sardar Patel Institute of Technology, Andheri, 978-1-4577-2077-2/12/IEEE October 19-20,2012. 4. Pranali Choudhari, Tushar Bhatia, Harshita Pal, Khyati Ved, Rishi Sen, “Skeleton Tracking System for Gesture Recognition using Kinect”, <i>International Conference on Electrical and Electronics Engineering (ICEEE)</i>, Hyderabad, on March 10, 2013. 5. Samruddhi Patil, Pranali Choudhari, “Signal Processing Algorithms for Analysis of ECG for Classification of Cardiovascular diseases”, in <i>International Conference in Nascent Technologies in Engineering ICNTE 2015</i>, during January 8-10, 2015, organized by Fr. C. Rodrigues Institute of Technology. 6. Samruddhi Patil, Pranali Choudhari, “Impedance Cardiography Used For Diagnosis of Diseases”, <i>Third International Symposium on Women in Computing and Informatics (WCI-2015)</i>. Organized by SCMS, Kochi during August 10-13, 2015. Archived in ACM digital library 7. Shamali More and Pranali Chaudhari , Development of Non-invasive Diagnostic Tool for Diseases using Photo Plethysmography, <i>International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2016)</i>, organized by SSNCOE, Tamilnadu,

	<p>during 23-25 March, 2016. Available on IEEE Explorr.</p> <ol style="list-style-type: none"> 8. Deepa Paul, Mayuri Patil, Ankita Kadam, Rashmi Sharma and Pranali Choudary, “Smart Patient Health Monitoring System”, International Conference on Communication, Computing & Virtualization, organized by Thakur college of Engineering and Technology, Mumbai during February 26-27, 2016. 9. Kavita Chandratre, Pranali Choudhari Smita Chopade, “Interpretation of brain signals for body movements to control state machine”, International Conference on Signal Processing, Communication and Computational Research (ICSPCCR-16) organized by VVIET, Mysore during 18th-19th May, 2016. 10. Shamali More, Pranali Choudhari, “Development of classification indices for Diseases using photo plethysmography.”, ICCASP-2016, BATU, Lonere, 26th-27th December, 2016 11. Shamali More, Pranali Choudhari, “Non-invasive Diagnostic Tool Development for Diseases using Photo plethysmography”, ICNTE2017, FR CRIT, Vashi, 27-28 January 2017 12. Juil Zode, Pranali Choudhari and Mahesh Uparkar, “Methods to determine Fractal Dimension to detect Branch Retinal Vein Occlusion”, International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), 22 - 24 March 2017 13. Vrushali Taware and Pranali Choudhari, “Modeling of Blood vessel in three dimensions using CT Angiography”, International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), 22 - 24 March 2017 14. V. S. Taware and P. C. Choudhari, “3-D Construction of Artery Model Using Real Time Two Dimensional CTA Dataset,” IEEE International Conference On Recent Trends In Electronics Information Communication Technology (RTEICT), May 19-20, 2017, 15. J. J. Zode, P. C. Choudhari, M. Uparkar, “Comparative Study of Methods to determine Fractal Dimension”, IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT 2017), 19-20 May, 2017. <ul style="list-style-type: none"> • National Conferences <ol style="list-style-type: none"> 1. Pranali Choudhari, Amruta Mhatre, “Image Steganography” at National conference on VLSI and Signal Processing, NCVSP-11 at G. H. Raison College of Engg., Pune held on 30/06/2011 and 01/07/2011. 2. Pranali Choudhari, Vishnu Prasad, Lalit Mahajan, Aditya Mujumdar, Arun P. , “Location Based Advertisement in Buses” in National Conference in Information Sciences (NCIS2012), MIT, Manipal during 27-28 April, 2012.
17	Books/Reports/General articles etc. -
18	Invited Lectures in FDP/ STTP <ol style="list-style-type: none"> 1. Invited Talk on “World of Transforms ” for the second year students of Electrical Engineering at FrCRIT, Vashi 2. Invited as Technical session chair for Zenith organized by Agnel Polytechnic, 2017 3. Invited as a speaker for workshop on “Simulation Software” and delivered a lecture on “Introduction to MATLAB” on 18/12/2014 for the MSBTE sponsored content updating programme conducted by Agnel Polytechnic Vashi, Navimumbai.

	<p>4. Delivered a talk on “WAVELETS, WAVEPACKET ANALYSIS AND ITS APPLICATION” at KJSCE, Vidhyavihar for Postgraduate students on April 02, 2014.</p> <p>5. Delivered a lecture and conducted a laboratory session on “Digital Signal Processing” at the AICTE Sponsored National Workshop on DSP and its application in Speech and Image Processing organized by EXTC dept. CRIT, Vashi, on “DSP and its Application in Speech and Image processing” on 10-7-07.</p> <p>6. Delivered a lecture on “Introduction to Nanotechnology,” for the third year students of Electronics & Telecommunication Engineering department of Fr. C. Rodrigues Institute of Technology, Vashi, on February 03, 2006</p>
<p>19</p>	<p>International Conference Technical Program Committee Member / Reviewer</p> <ul style="list-style-type: none"> • Involved in organizing National conferences/workshops/Seminars etc. at our Institute/department. • Convenor of SEED Committee • Departmental Audit committee • ICNTE 2017 Session Chair • ICNTE 2015 Inaugural session Compere, and session chair • Technical Committee Member for ICNTE 2019 • Reviewer of paper submitted to International Journal for Numerical Methods in Biomedical Engineering, wiley Journals. • Reviwer of papers submitted to 4th National Conference on " Advances in Technology & Management " on March 23-24, 2017 • Reviewer of papers submitted in the field of Electronics and Telecommunication Engineering for the International Conference on Nascent Technologies in the Engineering Fields (ICNTE_2017),Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai on January 27-28,2017. • Reviewer for papers submitted to Signal Processing track of International Symposium on Intelligent Systems Technologies and Applications (ISTA'15). • Reviewer of papers submitted in the field of Electronics and Telecommunication Engineering for the International Conference on Nascent Technologies in the Engineering Fields (ICNTE_2015),Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai on January 9-10,2015.
<p>20</p>	<p>Patents</p> <p>-</p>