


Name of Teaching Staff	:	Ranjushree Pal	
Designation	:	Assistant Professor	
Department	:	Electronics & Telecommunication Engineering	
Date of Joining the Institution	:	02.07.2012	
Email ID	:	ranjushree.pal@djsce.ac.in	
Office Contact	:	022-42335000 extn 111213	
Google Scholar Link	:	https://scholar.google.com/citations?user=hCQ_digAAA_AJ&hl=en	
ResearchGate Link:	:	https://www.researchgate.net/profile/Ranjushree-Pal	
ORCID	:	https://orcid.org/0000-0003-0393-9243	
Qualifications with Class / Grade	:	<ol style="list-style-type: none"> 1. M.E. (Electronics & Telecommunication) from Jadavpur University, Calcutta in 2000 with 84.8% 2. Bachelor of Technology (Radio Physics & Electronics) from University of Calcutta in 1993 with 72.5% 3. Bachelor of Science (Physics Hons.) from University of Calcutta in 1990 with 63% 	
Total Experience in Years	:	<p><u>Teaching: 20 years</u></p> <ol style="list-style-type: none"> 1. Assistant Professor, D.J. Sanghvi College of Engineering from 2.7.2012 till date. 2. Sr. Lecturer, /Assistant Prof. Fr. Conceicao Rodrigues College of Engineering, Bandra from August 2007 to 30th June 2012. 3. Lecturer Fr. Conceicao Rodrigues College of Engineering, Bandra from August 2002 to July 2007. <p><u>Industry: 2yrs 6months</u></p> <p>Philips Telecommunication Industries Ltd., Kolkata. Junior Manager (M1 Grade). 30th Dec., 1994 to 31st May,1997.</p>	
Papers Published in Journal:	:	<p><u>International: 1</u></p> <p>“Comparison of Different Spectrum Sensing Techniques for Cognitive Radio Systems” by Ranjushree Pal, Srija Unnikrishnan, International Journal on Recent Trends in Engineering & Technology (IJRTET) published by ACEEE issue on Electrical & Electronics Volume 6 No:2 November, 2011</p>	

Papers Presented in Conferences	<p><u>International: 4</u></p> <p>[1]Ranjushree Pal, “Speech Compression with Wavelet Transform and Huffman Coding”, International Conference on Communication information and Computing Technology (ICCICT) 2021 IEEE Xplore digital library.</p> <p>[2]Ranjushree Pal, “Speech Compression with Wavelets and μ-Law for Wireless Communication”, Proceedings of International Conference on Wireless Communication , 2020, Springer, Singapore.</p> <p>[3]Ranjushree Pal, “Effect of Windowing in the Performance of OFDM Systems” Proceedings of International Conference on Wireless Communication, 2018, Springer, Singapore</p> <p>[4]Ranjushree Pal, “ Comparison of the design of FIR and IIR filters for a given specification and removal of phase distortion from IIR filters”, International Conference on Advances in Computing, Communication and Control (ICAC3),2017 IEEE Xplore digital library.</p>
Area of Specialization	Digital Signal Processing, Digital Communication, AIML.
Professional Memberships	: Life Member of Indian Society of Technical Education (ISTE) LM44582
Awards/Scholarships	: <ol style="list-style-type: none"> 1. GATE Scholarship for carrying out Postgraduate studies. AIR: 343. 2. National Scholarship from University of Calcutta in B.Sc. (Physics Hons.) Exam. 3. National Scholarship from West Bengal Council of Higher Secondary Exam, awarded to meritorious students. 4. Medal from Lady Brabourne College according to merit in B.Sc. (Physics Hons.).
Interaction with Professional Institutions	: <ul style="list-style-type: none"> • Reviewer and Programme Committee member of International Conference ICAC3, Fr. CRCE, Bandra from 2013 till date. • Guest Lecturer in Fr. CRCE, Bandra. • Syllabus committee member of UoM, department of Electronics and Computer Science.
Subjects Taught	<p><u>UG Level:</u></p> <ul style="list-style-type: none"> • Digital Signal Processing • C++, Java, Python • Signals and Systems • Random Signal Analysis • Digital Communication • Basics of Communication Engg. <p><u>PG Level:</u></p> <ul style="list-style-type: none"> • Modern Digital Signal Processing and Applications • Advanced Digital Communication

Projects Guided	<p>: UG Level:</p> <ul style="list-style-type: none"> • Audio analysis and genre classification using deep learning • Speech compression for efficient transmission and reception • FIR Filter coefficient optimization using Genetic Algorithm • Optimization of filter coefficients by ant colony optimization technique • Electronic Protection to exam paper leakage • Automatic Sign Language Detection 																												
Recommended Students for Higher Education	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Name of the Student</u></th> <th style="text-align: left; padding: 5px;"><u>University/Industry</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Gargi Rajadhyaksha</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Priyanka Sanghavi</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Priyank Sanghavi</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Siddharth Bhatt</td> <td style="padding: 5px;">University of Michigan</td> </tr> <tr> <td style="padding: 5px;">Narendra Ravaria</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Sanket Padwal</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Akhilesh Rao</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Jay Karmarkar</td> <td style="padding: 5px;">Georgia Tech Graduate Admissions</td> </tr> <tr> <td style="padding: 5px;">Chirag Shah</td> <td style="padding: 5px;">University of Pennsylvania</td> </tr> <tr> <td style="padding: 5px;">Ishani Parekh</td> <td style="padding: 5px;">Cornell University</td> </tr> <tr> <td style="padding: 5px;">Saurabh Shah</td> <td style="padding: 5px;">Portland State University</td> </tr> <tr> <td style="padding: 5px;">Dhrumil Vadera</td> <td style="padding: 5px;">University of Houston</td> </tr> <tr> <td style="padding: 5px;">Radhika Kiran Paralkar</td> <td style="padding: 5px;">University of Pennsylvania</td> </tr> </tbody> </table>	<u>Name of the Student</u>	<u>University/Industry</u>	Gargi Rajadhyaksha	Georgia Tech Graduate Admissions	Priyanka Sanghavi	Georgia Tech Graduate Admissions	Priyank Sanghavi	Georgia Tech Graduate Admissions	Siddharth Bhatt	University of Michigan	Narendra Ravaria	Georgia Tech Graduate Admissions	Sanket Padwal	Georgia Tech Graduate Admissions	Akhilesh Rao	Georgia Tech Graduate Admissions	Jay Karmarkar	Georgia Tech Graduate Admissions	Chirag Shah	University of Pennsylvania	Ishani Parekh	Cornell University	Saurabh Shah	Portland State University	Dhrumil Vadera	University of Houston	Radhika Kiran Paralkar	University of Pennsylvania
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Institute/Department Responsibility handled:	<ul style="list-style-type: none"> • Lab In charge –Communication Lab • Departmental Alumni Coordinator • Syllabus Design for new Autonomy Courses. • Preparation of course materials • Class Teacher • Student Mentor • NAAC Criterion 4 committee member • Member of Admission Committee 																												
Pedagogy Development	<ul style="list-style-type: none"> • Use of Softwares to understand abstract mathematical concepts. • Power point design to elaborate concepts with diagrams. • Upload own videos in You Tube for difficult topics • Quiz on particular topic after teaching for revision. 																												