



**Pimpri Chinchwad Education Trust's  
Pimpri Chinchwad College of Engineering &  
Research Ravet, Pune**



**Academic Year: 2025 - 26**

**Faculty Profile**

<b>Name of Faculty:</b>	Dr. Rupali Girish Patil		
<b>Qualification :</b>	Ph.D. E&TC		
<b>Teaching Experience :</b>	16 Years		
<b>Industry Experience :</b>	Nil		
<b>Designation :</b>	Assistant Professor		
<b>Department :</b>	Electronics and Telecommunication Engineering		
<b>Date of Joining :</b>	20/06/2016		
<b>Research Areas / Area of Specialization</b>	Signal Processing, Embedded Systems, VLSI		
<b>Courses / Subjects Taken:</b>	Fundamentals of JAVA Programming, Advanced JAVA Programming, JAVA Script, Data Analytics, Data Structures, Object Oriented Programming, VLSI Design & Technology, Digital Electronics.		
<b>IPR :</b>	<b>Title</b>	<b>Docker No./ Diary No.</b>	<b>Registered /Filed</b>
	A Cross-Linguistic Speech Emotion Recognition System For accurately Identifying Emotions In Multiple Languages	02421104724	Registered (Under Examination)
	Reinforced Visual Geometry Group-27 Framework For automated ECG Arrhythmia Classification	202421104266	Registered (Under Examination)
	Tyre Pressure Alarm System Along With Speed Limit Smsfacility	202221010681	Registered
	Pure Coconut Oil Preservation In Winter Season	201921052263	Registered
	Assistance to Ensure Safety of Car By Detecting Windows Open State While Locking	202221010570	Registered
	ALERT SYSTEM FOR SIDE STAND RETRACTION IN MOVING BICYCLE	202221010732	Registered
	AGRIAI : CULTIVATING INSIGHTS INTO COMMODITY MARKETS	<b>L-137768/2023</b>	Registered
	Deploying a neural network model on raspberry pi to identify the emotion from speech	24120/2022-CO/L	Registered
	Analyzing Emotions From Indo-Aryan Languages Using Deep	L-114485/2022	Registered

	Learning		
	Presentation on “Diode Circuits”	733/2018-CO/L	Registered
	Implementation of algorithm for counting of silkworm eggs	744/2018-CO/L	Registered
	Wireless Weather Monitoring System using GSM technology	9504/2021-CO/L	Registered
<b>Research Publications :</b>			
<b>Journal Publications:</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Published in</b>
	<b>2024</b>	Indian Cross Corpus Speech Emotion Recognition Using Multiple Spectral-Temporal-Voice Quality Acoustic Features and Deep Convolution Neural Network	Revue d'Intelligence Artificielle (Scopus Indexed)
	<b>2024</b>	Dielectric modulated organic thin film transistor trench biosensor for label-free detection: Modeling and simulation analysis	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields
	<b>2023</b>	Optimal trained ensemble of classification model for speech emotion recognition: Considering cross-lingual and multi-lingual scenarios	Multimedia Tools and Applications
	<b>2023</b>	Comprehensive Study of Automatic Speech Emotion Recognition Systems	International Journal on Recent and Innovation Trends in Computing and Communication
	<b>2023</b>	FPGA-Based Automatic Speech Emotion Recognition Using Deep Learning Algorithm	Artificial intelligence applications and reconfigurable architectures
	<b>2021</b>	Wireless Weather Monitoring System Using GSM	International Journal Of Innovative Research In Technology
	<b>2020</b>	Underwater Image and Signal Processing	International Journal of Engineering Research & Technology (IJERT)
	<b>2019</b>	Smart Border Security System Using High Speed Vision Technology	International Journal of Research in Electronics and computer Engineering (IJRECE)
	<b>2018</b>	IOT Based Smart Water Distribution and Leakage Detection System Using WSN	Research Review International Journals of Multidisciplinary(RRIJM )
	<b>2019</b>	Mobility aware and energy efficient medium access control protocol in WSN	IOSR Journal of Engineering (IOSR JEN)
	<b>2019</b>	Image Processing based Silkworm Engg counting Methods	IOSR Journal of Engineering (IOSR JEN)
	<b>2019</b>	Distance Regularization Level	IOSR Journal of

		set evolution for Blood cell image segmentation	Engineering (IOSR JEN)												
<b>Conference Publications:</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Published in</b>												
	2025	Sortify- An Autonomous Voice Controlled 6 DOF Robotic Arm For Object Detection And Sorting	5 <sup>th</sup> International Conference on Intelligent Technologies (CONIT 2025)												
	2025	6 Degree of Freedom Robotic-Arm Using Gesture Control	International Conference on Computing Technologies (ICOCT)												
	2023	Deep learning-based analysis of affective computing for Marathi corpus	3rd International Conference on Intelligent Technologies (CONIT)												
	2022	Speech Emotion Recognition Using 1D CNN-LSTM Network on Indo-Aryan Database	International Conference on “Intelligent Computing Instrumentation and Control Technologies” (ICICT 2022)												
	2022	Speech Emotion Recognition Based on Wavelet Packet Coefficients	Lecture Notes in Electrical Engineering book series (LNEE,volume 828)												
<b>Books Publication:</b>	06														
<b>Profile Link :</b>	<a href="https://scholar.google.com/citations?user=EqYota0AAAA&amp;hl=en">https://scholar.google.com/citations?user=EqYota0AAAA&amp;hl=en</a> <b>ORCID :</b> <a href="https://orcid.org/0000-0002-0358-0237">https://orcid.org/0000-0002-0358-0237</a>														
	<p>Cited by <span style="float: right;">VIEW ALL</span></p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th>All</th> <th>Since 2020</th> </tr> </thead> <tbody> <tr> <td>Citations</td> <td>43</td> <td>36</td> </tr> <tr> <td>h-index</td> <td>4</td> <td>4</td> </tr> <tr> <td>i10-index</td> <td>1</td> <td>0</td> </tr> </tbody> </table>				All	Since 2020	Citations	43	36	h-index	4	4	i10-index	1	0
	All	Since 2020													
Citations	43	36													
h-index	4	4													
i10-index	1	0													
<b>Product Developed:</b>	01														
<b>Certifications :</b>	NPTEL-07, Coursera-04														
<b>Awards/Appreciation/Achievements :</b>	<ul style="list-style-type: none"> <li>• Appreciation Certificate for working as the mentor to get certified in Data Analytics under Infosys Foundation Finishing School for Employability</li> <li>• Appreciation Letter for working as a trainer for KPIT,</li> </ul>														

	<p>Nxtra (Bharti Airtel) Tech Mahindra.</p> <ul style="list-style-type: none"> <li>• <b>Best Paper Award</b> in the IEEE Third International Conference on “Intelligent Computing, Instrumentation and Control Technologies (ICICT-2022)”</li> <li>• <b>Reviewer</b> for various scopus-indexed journals and conferences.</li> <li>• NPTEL courses “Python for Data Science” completed with <b>1% topper</b> and Elite(Silver medal)</li> <li>• NPTEL course “Digital Electronics” completed with <b>1% topper</b>.</li> </ul>
Membership:	ISTE
<b>Industrial Training :</b>	03
<b>Resource Person /Expert Session/Jury Invited:</b>	03
<b>Workshop/FDP/STTP attended(more than a Week):</b>	20
<b>Event Organized Inter department /Inter college/ Other recognized Industry/IIT's /NPTEL/SPOKE N TUTORIAL/ etc.</b>	<ul style="list-style-type: none"> <li>• Worked as invigilator for different course conducted under FOSS</li> </ul>
<b>Event Organized in Department:</b>	<ul style="list-style-type: none"> <li>• Industry expert lecture organized on “Real World Interfacing with LPC2148” at department level.</li> <li>• Expert lecture organized on “ASIC Design and Challenge” at department level.</li> <li>• MOCK GD and PI arranged at department level.</li> <li>• Alumni Interaction and Alumni Meet</li> </ul>
<b>University level appointments:</b>	External Examiner, Paper Setter, Moderator
<b>Administrative Duties:</b>	Assistant Professor
<b>Academics Duties:</b>	T & P coordinator Alumni Coordinator Industrial Training & Internship NBA criteria-4 NAAC Criteria-7 SPPU Result Analysis Module Coordinator Programming Lab-2 Incharge
<b>Any Other</b>	--

**Dr. Rupali Girish Patil**  
Department of E&TC