



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



**Academic Year:** 2025 - 26

**Faculty Profile**

<b>Name of Faculty:</b>	Mrs. Maithili Shailesh Andhare		
<b>Qualification :</b>	ME(Electronics)/PhD Pursuing		
<b>Designation :</b>	Assistant Professor		
<b>Department :</b>	Electronics and Telecommunication Engineering		
<b>Date of Joining :</b>	1/07/2015		
<b>Experience :</b>	Teaching: 18 Yrs.		
<b>Research Areas / Area of Specialization</b>	Embedded System and IOT		
<b>Courses / Subjects Taken:</b>	Microcontroller, Digital systems, Embedded Systems, Advanced Processor, BXE,IOT, Control Systems, Network Security		
<b>IPR :</b>	<b>Title</b>	<b>Docker No./ Diary No.</b>	<b>Registered /Filed</b>
	A smart tool for testing deficient elements in soil	201921052371	Registered
	Water Bottle with Storage Container.	65263	Registered
	IOT BASED SMART CONTAINER	670/2018-CO/L	Registered
	AI Based Physiotherapy Bed	6391563	Uk Design patent Granted
<b>Research Publications :</b>	-		
<b>Journal Publications:</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Published in</b>
	2017	Review on Performance Enhancement Techniques for Microstrip Patch Antenna Using Metamaterials	International Journal of Recent Trends in Engineering & Research
	2019	BER Evaluation for Power Control in DS-CDMA	International Journal of Innovative Research in Technology
	2019	Person Recognition using Image Fusion of Face and Ear based on Linear Discriminant Analysis	International Journal of Research in Advent Technology
	2019	Control System Analysis using Root Locus Method	Journal of Control System and its Recent

			Developments
	2020	Making India Paperless using Cloud for documentation	Mukt Shabd Journal
	2023	Design and implementation of wireless sensor network for environmental monitoring	International Journal of Health Sciences
	2024	Optimizing Lithium-Ion Battery Discharge Capacity Prediction Using Light GBM and Explainable AI (XAI) Framework	Metallurgical and Materials Engineering
<b>Conference Publications:</b>	2022	Deployment of Real-Time Energy Monitoring System Using IoT	3rd (INCET)
	2023	Detecting Cybersecurity Attacks in Industrial Internet of Things: A Systematic Literature Review	5th Biennial (ICNTE)
	2023	IoT-Enabled RFID-Based Library Management and Automatic Book Recommendation System Using Collaborative Learning	3 <sup>rd</sup> ICSADL
	2023	Create a 32-bit Vedic Multiplier and Compare it Against Other Multipliers Using A Carry Look-Ahead Adder	2023 4th (INCET)
	2024	Sustainable Agriculture Using Machine Learning and IoT	15th (ICCCNT)
	2025	Implementation of Central Gateway with SOME/IP	(ICOCT)
<b>Books Publication:</b>	04		
<b>Profile Link :</b>	<a href="https://scholar.google.com/citations?user=EzFRVNcAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=EzFRVNcAAAAJ&amp;hl=en</a>		
<b>Product Developed:</b>	2		
<b>Certifications :</b>	NPTEL Certification		
<b>Awards/Appreciation/Achievements:</b>	World record of filing maximum number of patent in a single day by PCCOER ladies Staff.		
<b>Membership:</b>	IEEE		
<b>Industrial Training :</b>	<ol style="list-style-type: none"> <li>1. Online Industrial training on IOT project Development using Industry grade Microcontroller during 28<sup>th</sup> June – 28<sup>th</sup> July, 2021 in Anand Techno Creation, Satara.</li> <li>2. Online Industrial training on Design and Development of DC regulated Power Supply during 25<sup>th</sup> Jan – 6<sup>th</sup> Feb, 2021 in Anand Techno Creation, Satara.</li> <li>3. Online Industrial training on Design &amp; Development of Sellable Automatic Dispenser: Sanitizer, Water and Liquid, during 23<sup>th</sup> March – 4<sup>th</sup> Apr, 2021 in Anand Techno Creation, Satara.</li> <li>4. Industrial training on Arduino, Express PCB, Proteus, during 2/12/2019 To 7/12/2019 at A Square, Pune.</li> <li>5. Industrial training during 27/11/2017 To 29/11/2017 at Softcon Systems Private Limited Tathwade, Pune.</li> </ol>		
<b>Resource Person /Expert Session/Jury Invited:</b>	Worked as Judge for Project Competition 'Projectron 2k20' on 8/6/2020 at D Y Patil Engineering college Akurdi.		

	Conducted one day workshop on PIC microcontroller and its interfacing for SE(IT) students
<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>	-
<b>Event Organized in Department:</b>	<ul style="list-style-type: none"> <li>• One week workshop on "Raspberry with IOT" for TE Students.</li> <li>• Two days Hands on Workshop On "Advanced Embedded Linux for Industry Use " for BE students.</li> <li>• Two days Hands-on Workshop on Electronics Skill Development Lab for SE Students.</li> <li>• One week "Product development workshop" for TE students.</li> </ul>
<b>University level appointments:</b>	Practical Examiner , Paper Examiner, Paper Setter, External Senior supervisor for university exam
<b>Administrative Duties:</b>	Assistant Professor
<b>Academics Duties:</b>	Direct Second year admission In charge, Department Mentor Coordinator, Department Beautification Coordinator, Student counseling Cell Member, Criteria 7 Coordinator, BE honors in IOT course Incharge
<b>Any Other</b>	----

Prof. M.S.Andhare  
Department of E&TC