DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING

STAFF PROFILE INFORMATION

1	Name of Faculty	Mrs. Aarti Abhijit Chavan		
2	Designation	Assistant Professor		
4	Date of Joining the Institute	23/06/2025		
5	Contact No.			
6	E-mail	aarti.chavan@bsiet.org		
7	Date of Birth	06/07/1992		
8	Specialization	Medical Image Analysis, Machine Learning, Deep Learning, Computer Vision		
9	Qualification	**UG**	**PG**	**Ph.D.**
		BE ENTC	ME ENTC	Electronics Engineering
10	Total Experience	**Academic**	**Research**	**Total**
		04	03	07
11	Publications (Journals)	**National**	**International**	**Total**
		-	04	04
12	Publications (Conferences)	**National**	**International**	**Total**
		07	02	02
13	PG/Ph.D. Projects Guided	**PG Projects**	**Ph.D. Projects**	**Total**
		-	-	-
14	Books Published/IPRs/Patents	Patent: 01		
15	Professional Bodies Memberships	-		
16	Consultancy Activities	-		
17	Awards / Achievements	Chhatrapati Shahu Maharaj National Research Fellowship 2021		
18	Grants Received	-		

➢ **RESEARCH PUBLICATIONS:**

PATENTS

Title: AI-Based Infrared Imaging Cart for Real Time Soil Nutrient Classification

PATENT INFORMATION

Application ID	215785
Invention Field	ENGINEERING
Date of Application	22/07/2025
Publication Number	466793-001
Type	Filed
Role	Applicant

RESEARCH PUBLICATIONS: INTERNATIONAL JOURNAL / CONFERENCE

Sr. No.	Title	Journal / Conference	Volume Issue	ISSDN
1.	**Machine Learning in soil Testing For Nutrient Analysis**	Power System Technology	Volume 49, Issue 1 Page No.1161–1180 https://doi.org/10.52783/pst.1665	1000-3673
2.	**Vision Transformer-Based Soil NPK Classification Using Infrared Heatmap Analysis and Optimization Techniques**	Journal of Information Systems Engineering and Management	Volume 10, Issue 35 s, 2025 Page No. 464 478	ISSN (Online): 2468-4376.
3.	**A study of Soil Testing Methods for Nutrient Analysis**	International Conference on Recent Advancements in Artificial Intelligence and Soft Computing ICAISC-2022	Jan Issue on 2nd December 2022 page no :1532 – 1541	ISSN (Online): 2395-5295 ISSN (Print): 2395-5287
4.	**Enhanced Nutrient Detection from Soil Using Transfer Learning with ResNet-101 and a Light Tight Box for Infrared Image Capture**	International Conference on Frontier Areas of Science and Technology, (ICFAST-2023)	September 8-9th, 2023	-