Miss. Shweta Uday Patil

M. Tech (Electronics Engineering), PhD (Appearing)

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Working as an Assistant Professor in this institute for last year, I would like to commit to -

- Devote my substantial time to research writing and other scholarly pursuits
- Expand my learning, knowledge, and skills in order to face new challenges
- Mentor students and develop academic action plans in coordination with department
- Participate in the faculty workshop series, conferences and other facets in the area of Electronics Engineering
- Deliver course material through a variety of teaching methods in order to enhance lifelong learning ability in students

Summary of Activities for current Academic Year :

- Working as a PG Coordinator for PG in Electronics and Communication Engineering
- Working as a Multidisciplinary Minor (MDM) coordinator from Dept of Electronics Engineering
- Working as a member of Adhoc BoS Committee for –
  - Department of Robotics & Automation Engg.
  - Multidisciplinary Minor (MDM)
- Working as a co-investigator for CSR funded Research Project entitled "5G and IoT for Intelligent Healthcare"
- Working on Seed Funding Project entitled "Implementation of Autonomous Driving System Framework for Safe Driving"
- Working as a Core Member, Innovation Incubation and Entrepreneurship, (IIE Cell) , WCE, Sangli
- Working as Course Coordinator for Introduction to Entrepreneurship course offered by IIE, Cell

- Working as a co-ordinator for student mentoring (SY, TY and Final Year)

- Working on preparation of departmental information required for various committees' database

- Worked in Grade Card Distribution Ceremony 2024 for Students Invitation and Arrangements

- Worked as a committee member for Institute level of IEEE Committee

- Working as a jury member for Idea Validation Camp organized by IIE Cell, WCE, Sangli

- Working as a faculty coordinator for Zonal Chess matches, Volleyball and basketball matches from last 5 years

- Worked as a Faculty Advisor for Drama Section in ASG 2024 and 2025

- Other Department duties per week

  - Faculty Information - Student mentoring (SY, TY and Final Year),

  - Ph.D. (Guide, Scholar, award), Consultancy data, CO PO Mapping data collection from Faculty

Teaching Experience :-

Working as an Assistant Professor for last **13 Years and 6 months** on Contract basis in **Department of Electronics Engineering, Walchand College of Engineering, Sangli**

Industrial Experience :-

Worked in **Cognizant Technology Solutions, Pune** as Programmer Analyst for 1 year.

Subjects Taught :-

Power Electronics & Drives, Digital Communication, Engineering Computing Lab, Pattern Recognition and Image Analysis, Machine Learning, Electronic Product Design, Advanced Digital Signal Processing, Arduino based System Design, Digital Video Engineering, Real Time Operating Systems, Data Analytics, Python Programming

Total no. of M. Tech students Guided: 6

Softwares Known:-

LabVIEW, MATLAB, Eagle (PCB Design Tool), Proteus, Arduino IDE, NetSim, Keil uvision, PSpice, Ki-CAD, Code Composer Studio

Educational Qualifications:-

Class	College	Year	Percentage Marks
PhD in Electronics & Telecommunication Engg (Appearing)	Shivaji University, Kolhapur	Jan 2023	-
M. Tech (Electronics)	Walchand College of Engg.,Sangli	2011	CPI 7.91/10
B.E.E.T	P.V.P.I.T Budhgaon	2009	69.75
T.Y.I.E	Walchand College of Engg.,Sangli	2006	77.38
S.S.C	Pradnya Prabodhini Prashala	2003	81.33

Summary of Activities:-

- No. of One Week FDPs attended: 17

- No. of Workshops/Training Programs attended: 28

- No. of Workshops/ Training Programs organized: 10

- No. of Publications in International Journal: 11

- No. of Publications in International Conference: 03

- No. of Publications in National Conference: 01

- No. of Patents Published: 04

Details of Co-curricular Activities:-

- **Workshops/ Trainings Organized**

  - Worked as coordinator for One Week FDP on **"Network Simulator and Its Applications"** in collaboration with TETCOS LLP from 4 – 18th July 2025.

  - Worked as coordinator for One week FDP on "**Electromagnetics Principles and Applications** "at IIT, Bombay under DTE and IITB MoU during Oct 9-13th, 2023

  - Worked as co-ordinator for workshop on **"Artificial Intelligence and Machine Learning"** held in Department of Electronics Engineering on 13th April 2023 by Dr. Mrs. Minakshi Pradeep Atre, PVG COE Pune

  - Co-coordinator for Sensitization Training on **"IDEA TO ENTERPRISE"** held by IIE, Cell

  - Worked as a **co-ordinator for Two days faculty Development Program on "Outcome based Education: A Special emphasis on Attainment of Higher Order POs"**

  - **Online video lectures and practical demonstrations** developed for Arduino based System Design

  - Worked as a **co-ordinator for Workshop on Arduino, a course in IoT series organised by ICT, IIT Bombay under the scheme PMMMNMTT.**

  - Worked as a coordinator for **Consultancy work (Television System Testing)** in Department of Electronics Engineering.

  - Organized interaction session on „**Precision Agriculture**" under TEQIP start-up projects

  - Working as a mentor for **Smart India Hackathon 2019** for Hiranyagarbha team

  - Winner in **John Deere White Paper Contest 2019** organized by Department of Electronics Engineering, WCE, Sangli

  - Worked as a co-ordinator for one week workshop on **"Course Management and Technology based Teaching"** organized under AICTE Margdarshan Scheme

  - Organized workshop on **"Recent trends in Electronics Communication Engineering"** under TEQIP-III in Electronics Department, WCE, Sangli.

- Worked as a co-ordinator for **"EPD Competition"** oraganized by Department of Electronics Engineering, WCE, Sangli.
- Worked as a co-ordinator for workshop on **"Design and development of web based applications using Embedded Linux"** organized under TEQIP-III.
- Worked as a **staff advisor for SiemensMakeITReal 2019 held at Bangalore** on 23rd- 29th December 2019 for the project entitled "Visible Light Communication based Robust Security System".

- **Workshops/ Training Programs Attended**

Sr. No	Name of Event	Details of Event	Date
1.	ISTE- FDP on "5G Network & Security", organized by DKTE Societies COE, Ichalkaranji	One Week FDP	8-12th Dec 2025
2.	"Smart Cities and Future Mobility: Technologies, Policies, and Practices" organized by Mar Baselios Christian COE, Kuttikkanam	One Week FDP	1-6th Dec 2025
3.	"On screen Marking Evaluation", organized by SUK at WCE, Sangli	Training	3rd Dec 2025
4.	"Automation and Robotics" organized by SimuSoft Technologies, Pune and WCE, Sangli at VPCOE, Baramati	Three Days FDP	19-21st Dec 2024
5.	"Practical Aspects of Patent Filing" Jointly organised by ShodhEvents And Navkar D & B Pharmacy College and	Three Days FDP	3-5th Feb 2025

	Research Center, Mintbotics Edutech Pvt.Ltd., IJRMPS and Shri Mardadi Solutions LLP.		
6.	"Modelling & Simulation of Electric Vehicle using MATLAB/Simulink" organized by Dept. of Electrical Engg., WCE, Sangli	Three Days Workshop	16-18th Dec 2024
7.	"Emerging Trends and Developments in Simulation and Fabrication of Semiconductor Devices", organized by the School of Electronics Engineering at VIT- AP University, Amaravati,	One Week FDP	2- 8th May 2024
8.	ATAL FDP on "Emerging Trends in Electric Vehicle" organized by Dept of Electronics Engg, WCE Sangli	One Week FDP	8-13th Dec 2023.
9.	"Electromagnetics Principles and Applications" at IIT, Bombay under DTE and IITB MoU.	One Week FDP	9 – 13th Oct , 2023
10.	"Advances in Signal Processing, Communication and VLSI (ASPCV -2024) Organized by Department of Electronics & Communication Engineering, NIT, Delhi	One Week STTP	22 – 27th April 2024

11.	"A Comprehensive Power System Optimization Tool: GAMS" organized by Dept of electrical Engg., RIT Rajaramnagar.	One Week FDP	21- 25th May 2024
12.	"Equipment and Cyber Security" organized by CSE Dept, WCE, Sangli	Training	14 – 16th May 2024
13.	"Artificial Intelligence and Machine Learning" at WCE, Sangli	Workshop	13th April 2023
14.	Cognizant Faculty Enrichment on "Block Chain Technology"	Workshop	7th July, 2023
15.	Cognizant Faculty Enrichment Program on "Cyber Security"	Workshop	4th August 2023
16.	Cognizant Faculty Enrichment Program "Cloud Computing	Workshop	18th August 2023
17.	Online Training On Image Processing Using OpenCV Python by Finland Labs	One Week Training	22 – 26th February 2021
18.	"5G and Wireless Technology: RF Front End Design"	One Week STTP	10th to 14th March 2021
19.	"Engineering Pedagogy in Post Covid-19 Paradigm" organized by WCE, Sangli	Two Days FDP	19th and 20th Oct 2020

20.	"Pedagogical techniques in Electronics and Electrical Engineering" organized by WCE, Sangli	One Week FDP	10th - 14th Aug 2020
21.	"Webinar series on "Modern Antennas for Wireless Systems", organized by IEEE and Keysight Technologies"	Webinar	22nd -24th May 2020
22.	Pedagogy workshop on building "online course on Signals and systems Part-II, IIT Bombay"	One Week Training TEQIP	4 – 8th Dec 2020
23.	National Level One Week Online Faculty Development Program on "Arduino" organized by AISSMS College of Engineering in association with IIT, Bombay	One Week FDP	28th April – 4th May 2020
24.	"Machine Learning" organized by the Department of Information Technology, Shri G. S. Institute of Technology & Science, Indore (M.P.) in association with WILEY India Pvt. Ltd.	Webinar	19th May 2020

25.	National Level One Week FDP on "Python Programming" organized by AISSMS College of Engineering in association with IIT,Bombay	One Week FDP	28th April – 4th May 2020
26.	Webinar on "Recent Research in Speech Processing" by Dr. Mrs. S. D. Apte in association with Wiley	Webinar	3rd June 2020
27.	Webinar on "ReEngineering the Supply Chain : Imperatives for Post Pandemic Scenario"	Webinar	21st May 2020
28.	A National Webinar on "Genius Code- Science of PEAK Performance" organized by AISSMS College of Engineering, Pune	Webinar	26th May 2020
29.	Workshop on "Digital Transformation in Teaching Learning Process" by Swayam	Workshop	21 April 2020
30.	One Day Workshop on Arduino at IIT, Bombay	Co-ordinators Workshop	18th Jan 2020
31.	IET sponsored workshop on "Internet of Things"	Workshop	Feb 2020
32.	Workshop on "C and CPP Programming"	Workshop	29th Feb 2020

33.	"IoT in Automation" organized by Dolphin Labs, Pune	Three Days Workshop	6-8th Oct 2019
34.	"Use of ICT in Education for Online and Blended Learning" organized by NMIECT IIT Bombay	Workshop	14th May – 26th June 2016
35.	Pedagogical Aspects in Signal Processing	FDP	15th-16th Dec 2017
36.	Recent Trends in Machine Learning	Workshop	5th -9th June 2018
37.	Embedding Intelligence in IOT Edge	Workshop	28th, 29th July 2018
38.	Natural Language Processing	Workshop	20th, 21st July 2018
39.	Recent Trends in Communication Engg.	Workshop	6th Oct 2018
40.	"Course Management and Technology based Teaching" organized under MODROB, WCE, Sangli	One Week Workshop	21st -25th Jan 2019
41.	"Internet of Things" organized by Department of CSE & IET, WCE, Sangli	Workshop	30th January 2020
42.	"LabVIEW", organized by Department of Electronics Engineering, WCE, Sangli.	One Week FDP	May 2016

43.	"Signals and Systems" conducted by IIT, Kharagpur under NMEICT (MHRD)	Two Week ISTE Workshop	Jan 2016
44.	.AICTE Sponsored One Week FDP on "VLSI System Design"	One Week FDP	Jan 2016
45.	IET sponsored workshop on „Embedding Intelligence in IOT edge"	Workshop	28th and 29th July 2018

- **Guest Lectures & Industrial Visits Conducted**

Sr. No	Place	Subject	Date
1.	Pune Metro Rail Project, Pune	Industrial visit of FY & SY M. Tech Class 2025-26	21st Nov 2025
2.	KPT, Jaysingpur	Industrial visit of TY Electronics class 2025	23rd April 2025
3.	TECHNOCRAT 24 - Annual Mega Event by EESA, WCE, Sangli	Guest Lecture on "Circuit Simulation with Proteus"	28,29th Sept 2024
4.	Two Days session for for Third Year Industrial Electronics (PW) Students	Microcontroller based circuit simulation with proteus	22-23rd Oct 2024
5.	Industrial Electronics Department (PW), WCE, Sangli	Data Abstraction and Encapsulation in Python	3rd Oct 2025
6.	Department of Computer Science and Engg., WCE, Sangli	Applications of Transforms in Image Processing	18th Feb 2020
7.	Department of Electronics Engineering, PVPIT, Budhgaon	Fundamentals of Acoustics in Video Engineering	8th Nov 2019
8.	Industrial Electronics Department (PW), WCE, Sangli	Product Design with IoT	8th March 2020

Journal Publications:-

1. "Design and Development of a Clinical Decision Support System for Early Detection of COVID-19", *International Research Journal of Engineering and Technology (IRJET)*, Volume: 08 Issue: 06 | June 2021, e-ISSN: 2395-0056, p-ISSN: 2395-0072

2. "Deep Learning Model for Clinical Decision Support System for Early Detection of COVID-19 using", *Gradiva Review Journal*, Vol. 7, Issue 7, 2021

3. "Design and Implementation of Object Detection Algorithm for Autonomous Vehicle", *International Journal for Science and Advance Research in Technology,* Vol.6, Issue 1, Jan 2020.

4. "IoT based Environment Monitoring and Disease Prediction using Geometric Progression", *International Journal of Science and Research*, Vol.9, Issue 1, January 2020.

5. "Smart Security System Based on Raspberry Pi", *International Journal for Science and Advance Research in Technology,* Vol.4, Issue 5, May 2018, ISSN(online):2395-1052.

6. "Automatic Eye Controlled Wheelchair System using raspberry pi", *International Journal for Science and Advance Research in Technology,* Vol. 4, Issue 5, May 2018, ISSN(online):2395-1052.

7. "Design and Implementation of Combinational Circuits using Reversible Gates", *International Research Journal and Engineering Technology*, Vol.6, Issue 3, March 2019, e-ISSN: 2395-0056, p-ISSN: 2395-0072.

8. "Design and Implementation of Object Detection Algorithm*", International Journal for Research and Development in Technology,* Vol.14, Issue 1, July 2020, ISSN (O): 2349-3585.

9. "IoT based Intelligent Monitoring System for Smart City" in National Conference on Recent Trends in Engineering and Technology — 2023 AITRC held on 6th May 2023.

10. "A Review on Python-The Fastest Growing Programming Language", *International Journal for Multidisciplinary Research*, Vol.6 Issue 3, May-June 2024, Paper Id 23112, ISSN: 2582-2160

11. "Review On Electric Vehicle", *International Journal of Current Science,*

Volume 14, Issue 2 June 2024 | ISSN: 2250-1770

12. "A Short Review of Artificial Intelligence", *International Journal of Creative Research Thoughts,* Volume 12, Issue 6 June 2024 | ISSN: 2320-2882

13. "Motion Planning Methods for Autonomous Driving Systems", *International Conference on Communication, Image Processing and Computing,*10 – 11 March 2025 (ICCIPC 2025), Organized by Walchand College of Engineering, Sangli.

14. "Intelligent Sign Recognition: Deep Learning Solutions for Indian Sign Language", *International Conference on Communication, Image Processing and Computing,*10 – 11 March 2025 (ICCIPC 2025), Organized by Walchand College of Engineering, Sangli.

15. "Real-time Biogas Monitoring System using Wireless Sensor Network and IoT", *International Conference on Future Technologies* 2025, 7-8 Nov 2025. (ICFT 2025), Organized by Walchand College of Engineering, Sangli.

Patents :-

Sr. No.	Patent Design No.	Title of Patent	Date of Issue
1	449350-001	Device for safe Autonomous driving	12th June 2025
2	447883-001	Solar Powered EV Charging Device	5th June 2025
3	448782-001	Battery health Monitoring Device	3rd June 2025
4	447720-001	Electric Power Device for Aircraft	22nd May 2025

I hereby declare that the above information is true to the best of my knowledge and belief.