CURRICULUM VITAE

Dr. Rashmi Sudin Gaikwad
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Career Objective: Seeking a challenging academic or technical position that enables continuous professional growth while effectively applying and expanding my technical expertise, teaching aptitude, and communication skills.

Software skills: MATLAB, C programming, 8085 simulator and training kit, Keil software, Proteus software, Python programming.

Qualification:

Sr. No.	Degree	Year	Institution	University/ Board	Percentage
1	SSC	2003-04	New English School, Miraj	Maharashtra	71.86%
2	HSC	2005-06	Willingdon College, Sangli	Maharashtra	66.17%
3	B.E.(Electronics)	2009-10	D.Y.Patil College of Engineering & Technology, Kolhapur	Shivaji University	61.37%
4.	M.E. (E&TC)	2016	Dr.J.J.Magdum College of Engineering, Jaysingpur	Shivaji University	73.89%
5.	Ph.D. Electronics Engg	2024	DKTE's Textile and Engineering Institute, Ichalkaranji.	Shivaji University	Awarded

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Experience: Teaching 13 years

Sr. No.	Designation	Institution	Duration	Experience
1	Assistant Professor	Walchand College of Engineering (WCE), Sangli	Aug 2023 – Present	2.2 years
2	Assistant Professor	TKIET, Warananagar	Mar 2022 – Jun 2023	1.3 years

3	Lecturer	PVP Polytechnic, Budhgaon	Nov 2021 – Jan 2022	3 Months
4	Assistant Professor	SBGI, Miraj	Jul 2012 – Jun 2021	9 Years
5	Lecturer (CHB)	Government Polytechnic, Miraj	Jan 2012 – Mar 2012	3 Months
6	Lecturer (CHB)	D. Y. Patil Polytechnic, Kolhapur	Feb 2011 – Apr 2011	2 Months

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Subjects taught:

Sensor Networks and Cloud Computing, C programming, Power Electronics, Digital Electronics, Mobile Technology, Computer Networks, Linear Integrated Circuits, Digital Signal Processing, Analog Electronics Engineering, Electrical and Electronics Measurements, Basic Electronics Engineering.

Project profile:

1) B.E. project on '**Protective Relay Using Microcontroller**'.

2) M.E. research project on "**Real-Time Sign Language Recognition Using Neural Networks**".

3) Ph.D. Research topic "**Real-Time Sign Language Recognition and Sentence Generation using Artificial Intelligence and Grammar Rules**".

4) Worked on seed funding project "**Kitchen Waste based Biogas Plant in Hostel**" at WCE, Sangli.

Patents:

1) Copyright on Real-time Sign Language Recognition of Words and Sentence Generation using Artificial Intelligence" (Application no- 38817/2024-CO/SW).

2) Utility Patent published on "Real-Time Sign Language Recognition and Sentence Generation with Adaptive User Profiling and Multi-Language Support" (Application no. 202421079565).

3) Design patent on "IOT-Based Biogas Monitoring Device" (Application no.- 461789-001).

Papers published:

Sr. No.	Paper Title	Journal Name	Volume	Issue	Month & Year	ISSN
1	Real-time Sign Language Recognition Using Neural Networks: A Review	International Journal on Engineering Research and Technology (IJERT)	2	10	October 2013	2278-0181
2	Solar Operated Automatic Pesticide Sprayer	International Journal of Research in Engineering, Science and Management	4	6	June 2021	2581-5792
3	Multi-User Real-Time Sign Language Recognition of Words Using Transfer Learning of Deep Learning Neural Networks	Journal of Theoretical and Applied Information Technology (JATIT) **Scopus Indexed**	101	16	31 August 2023	1992-8645
4	Sign Language Recognition of Words and Sentence Prediction Using LSTM and NLP	Journal of Theoretical and Applied Information Technology (JATIT) **Scopus Indexed**	101	4	29 February 2024	1992-8645

Conference Publications:

Sr. No.	Paper Title	Conference Name	Dates	Venue / Organizer	Year
1	A Review of Various Sign Language Recognition Techniques **Scopus Indexed**	2nd International Conference on Modeling, Simulation and Optimization (CoMSO 2021)	16–18 December 2021	National Institute of Technology, Silchar	2022
2	Real-Time Sign Language Recognition of Words and Sentence Generation using MediaPipe and LSTM	7th International Joint Conference on Advances in Computational Intelligence (IJCACI 2023)	14–15 October 2023	South Asian University, India and Jahangirnagar University, Bangladesh.	2023

3	Intelligent Sign Recognition: Deep Learning Solutions for Indian Sign Language	International Conference on Communication, Image Processing and Computing (ICCPC 2025)	10 March 2025	Walchand College of Engineering, Sangli.	2025
4	Real-time Biogas Monitoring System using Wireless Sensor Network and IoT	International Conference on Future Technologies	7–8 November 2025	Walchand College of Engineering, Sangli.	2025

FDP Attended:

Sr. No.	Title of FDP / Course	Duration / Dates	Organizing Institute	Mode
1	Improving Teaching Competency	2012–2013	SBGI, Miraj	Offline
2	Role of Teacher in Knowledge Management	3 February 2014	SBGI, Miraj	Offline
3	Faculty Development (One Week Training Program)	16–20 June 2014	SBGI, Miraj	Offline
4	Neuro Linguistic Programming: Vibrant Teacher	18 November 2014	SBGI, Miraj	Offline
5	Train The Trainer	October 2016	Champion Foundation, Pune, SBGI, Miraj	Offline
6	Python 3.4.3	26 April – 2 May 2020	Spoken Tutorial Project, IIT Bombay (Organized by PVPIT, Budhgaon)	Online
7	Moodle: Learning Management System	13–17 May 2020	Spoken Tutorial, IIT Bombay (Organized by Smt. Kashibai Navle COE, Pune)	Online
8	Arduino programming	20–24 May 2020	RCOEM Nagpur & Spoken Tutorial, IIT Bombay	Online
9	NAAC Awareness Programme for Faculty	8–14 May 2020	MMIT, Lohgaon, Pune	Online

10	PERL programming	23–27 May 2020	Dept. of Electronics Engg., RCOEM Nagpur & Spoken Tutorial, IIT Bombay	Online
11	Machine Learning and its Applications	16–20 March 2021	SIT COE, Yadrav	Online
12	Electromagnetics: Principles and Applications	9–13 October 2023	IIT Bombay	Offline
13	Emerging Trends in Electric Vehicle	8–13 January 2024	ATAL & WCE Sangli	Offline
14	Emerging Trends and Developments in Simulation and Fabrication of Semiconductor Devices	2–8 May 2024	VTAP, Andhra Pradesh.	Online
15	Cutting-Edge Approaches to NLP and Large Language Models	16–21 December 2024	JJMCOE, Jaysingpur	Online
16	Industrial Robotics and Automation	19–21 December 2024	VPCOE, Baramati	Offline
17	Research Methodology (NPTEL Certification Course)	January – March 2025	IIT Madras	Online
18	Writing and Publishing in High Impact Journals: Methods and Ethical Use of AI	24–29 March 2025	ShodhEvents & Collaborating Institutions	Online
19	Innovative Teaching Strategies and Tools in Digital Age	1–7 April 2025	Scrollwell	Online
20	Use of AI in Education and Research	28 April – 3 May 2025	Electronics & ICT Academy, NIT Warangal & WCE	Offline
21	Smart Cities and Future Mobility: Technologies, Policies, and Practices	1–6 December 2025	Mar Baselios Christian College of Engineering	Online

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Workshop Attended:

Sr. No.	Title of Workshop / STTP	Duration / Dates	Organizing Institute
1	Image Processing and Computer Vision	3–4 August 2012	JJMCOE, Jaysingpur

2	Programmable Robotic Vehicle	29–30 December 2012	SBGI, Miraj
3	Restructuring and Formation of EEE Syllabus	31 December 2012	SBGI, Miraj
4	Control Systems (ISTE Workshop)	2–12 December 2014	WCE, Sangli (Conducted by IIT Kharagpur)
5	MATLAB R2018a Tools & Engineering Applications	12–15 December 2019	ADCET, Ashta
6	Pedagogical Aspects in Digital Signal Processing (AICTE Sponsored)	15–16 December 2017	WCE, Sangli
7	AI, ML and Deep Learning (STTP under AICTE–MODROB)	21–26 June 2021	AICTE–MODROB
8	Modelling & Simulation of Electric Vehicle using MATLAB/Simulink	16–18 December 2024	WCE, Sangli
9	Practical Aspects of Patent Filing	3–5 February 2025	ShodhEvents & Collaborating Institutions

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Co-Curricular Activities:

- Worked as EESA staff-coordinator for 9 years.

- Worked as a coordinator for the technical event "NC-Empire" held at SBGI, Miraj in the year 2012, 2013 and 2014.

- Worked as University paper setter for the branch Electrical & Electronics Engineering of Shivaji University.

- Worked as team member for one week short term training program on "Teaching Pedagogy" held at SBGI, Miraj.

- Worked as a coordinator for the cultural event "SOUHARD" held at SBGI, Miraj in the year 2012, 2013 and 2014.

- Project guide for students who won 2nd prize at Dipex 2018 for "Smart Gas Leakage Detection and Protection System".

- Worked as NAAC and IQAC coordinator at department level in SBGI, Miraj.

- Worked and undertook various responsibilities during academics like project coordinator, Alumni Coordinator, Guest lecture coordinator, organization of internal and external exams etc.

- Worked as Technical Committee Member & paper reviewer for the conference NCIPC organized at WCE, Sangli from 15th-16th December, 2023.

- Invited as judge for circuit simulation using proteus software event under vasant probe 2k25 at PVPIT Polytechnic, Budhgaon.

- Worked as Technical Committee Member & paper reviewer for the conference ICCIPC, 2025 organized at WCE, Sangli on 10th & 11th March, 2025.

- Worked as paper reviewer and session chair for IEEE conference ICFT, 2025 organized at WCE, Sangli.

- Worked as a reviewer for many international conferences and journals.

Personal details:

Date of birth: 2nd November, 1988

Permanent Address: - Plot no.8, Lane 1, Wanlesswadi, Sangli.

Declaration:

      I hereby declare that the particulars given above are true to the best of my knowledge and belief.

DATE:
PLACE: Sangli   **(RASHMI S. GAIKWAD)**