Dr. Shaktikumar R. Shiledar

Assistant Professor

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Personal Information

Date of Birth: 30th May 1984 **Contact No:** 7972300757

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Address: Government College of Engineering, Yavatmal Dhamangaon Road Yavatmal, MH-445001

Education

Degree	Institution	University	Year
M.Tech. (Instrumentation)	S.G.G.S.E&T, Nanded	S.R.T.M.U. Nanded	2012
B.Tech. (Instrumentation)	S.G.G.S.E&T, Nanded	S.R.T.M.U. Nanded	2008
Ph.D. (Instrumentation)	Government College of Engineering, Jalgaon	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	April 2025

Experience

Institution	Level	Designation	From	То
Govt. College of Engg., Yavatmal	Graduate	Assistant Professor	04/08/2024	Present
Govt. College of Engg., Ratnagiri	Graduate	Assistant Professor	05/01/2023	03/09/2024
Govt. College of Engg., Jalgaon	Graduate	Assistant Professor	04/08/2017	28/12/2022
Govt. Residential Women's Polytechnic, Yavatmal	Diploma	Lecturer	05/08/2016	03/08/2017
Govt. Polytechnic, Mumbai	Diploma	Lecturer	10/01/2011	31/07/2016

Projects

Project Title	Category	Year
Design of PID Controller using MOMI method	M.Tech	2012
LabVIEW-based project	B.Tech	2008
Discrete time sliding mode control strategies for performance improvement of systems	PhD	18/03/2025

Publications

Journal Articles

- Shaktikumar R. Shiledar, Gajanan M. Malwatkar, Sachin S. Nerkar, 'An Effective Disturbance Rejection by Discrete Time Sliding Mode Approach," The Indian Journal of Technical Education, vol. 46, December 2023, pp. 159–166.
- 2. Shaktikumar R. Shiledar, Gajanan M. Malwatkar, 'A Compressive Study on Discrete Time Sliding Mode Control with Advances and Applications," *International Journal of Systems, Control and Communications*, vol. 13, no. 4, 2022, pp. 283–310.
- 3. Shaktikumar Ranjit Shiledar, 'Relative Degree Two Discrete Time Sliding Mode Controller with Dynamic Switching Gain Strategy," Available at SSRN 4710882.
- 4. Shiledar S. R., Malwatkar G. M., Jadhav I. S., Lakhekar G. V., 'Design of Discrete Sliding Mode Controller for Higher Order System," *Reliability: Theory & Applications*, vol. 16, SI 1 (60), 2021, pp. 90–97.
- Sachin Karad, Santosh Ghodake, Bhanudas Yadav, Shaktikumar Shiledar, 'IRIS Image Specular Quality Artifact Evaluation for Biometric Recognition," International Journal of Electronics, Communication & Instrumentation Engineering Research and Development (IJECIERD), vol. 3, no. 4, 2013, pp. 81–88.

Conference Proceedings

- 1. Shaktikumar R. Shiledar, Gajanan M. Malwatkar, 'A Discrete Time Exponential Relative Degree Two Reaching Law for Enhanced Performance," 2025 1st International Conference on AIML-Applications for Engineering & Technology (ICAET), IEEE, pp. 1–5.
- 2. **Shaktikumar R. Shiledar**, Gajanan M. Malwatkar, 'Design of a Robust Discrete Time Sliding Mode Controller With Dynamic Switching Gain," 2022 IEEE Silchar Subsection Conference (SILCON), pp. 1–7.
- 3. V. S. Biradar, **S. R. Shiledar**, G. M. Malwatkar, 'Discrete Time Sliding Mode Control Tuning Based on Dynamics of System Model," *2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA)*, pp. 524–527.

Book Chapters

1. Shaktikumar R. Shiledar, Gajanan M. Malwatkar, 'Comparison of Discrete Time Sliding Manifold and Its Impact on System Dynamics," In: Smart Sensors Measurement and Instrumentation: Select Proceedings of CISCON 2021, Springer Nature Singapore, 2023, pp. 411–421.

Skills and Expertise

- Instrumentation & Control: Process control, Sensors & transducers, SCADA, PLC, DCS systems.
- Embedded & Automation: Microcontrollers (8051, ARM), Arduino, Raspberry Pi, Robotics, IoT.
- Software Proficiency: MATLAB/Simulink, LabVIEW, Multisim, Proteus, AutoCAD Electrical, Python.
- Academic & Research: Curriculum design, Outcome-based education, Research guidance, Technical writing.
- Soft Skills: Team leadership, Academic mentoring, Workshop organization, Communication skills.

Professional Membership

The Indian Society for Technical Education (ISTE), Lifetime Membership No. LM 118495.

Workshops and Training Attended

35⁺, List is enclosed below

Administrative Responsibilities Shared / Positions Held

- Coordinator for "Industrial Automation Course" under the Continuous Education Programme (CEP) in the Instrumentation Department at Government Polytechnic, Mumbai, during the academic year 2012-13.
- Co-coordinator for the National Conference on "Evolutionary Optimization" (NECOTA-2014) at Government Polytechnic, Mumbai.
- Worked as a **member of various committees** for Academic Monitoring, Inspections, and Enquiry for Diploma/Degree Engineering colleges formed by the Directorate of R.O. Mumbai and MSBTE, Mumbai.
- Served as End-Term Officer Incharge (Examination) at Government Polytechnic, Mumbai, during the academic year 2015-16.
- Deputed as a **member to frame rules and regulations** and intake variations for first-year admissions in Engineering colleges at the Directorate of Technical Education (DTE), Mumbai, for the academic year 2015-16.
- Co-coordinator for the Community College Scheme at Government Polytechnic, Mumbai, during the academic year 2015-16.
- Conducted **Practical Examinations** at Government Polytechnic, Mumbai, for the selection of Diploma Engineers for ONGC Company in the year 2015-16.
- Worked as the **Center In-charge for the MH-CET Exam** at K.J. Somaiya Engineering College, Bandra (W), Mumbai.
- Served as the Institute-Level NBA Co-coordinator at G.R.W.P., Yavatmal, in the year 2016-17.
- Held the additional portfolio as Assistant Registrar (Technical) at Government College of Engineering, Jalgaon, from 2019 to 2023.
- Worked as the **Assistant Training and Placement Officer** at Government College of Engineering, Jalgaon, from 2018 to 2023.
- Served as a **committee member in various institute-level committees** formed as per AICTE norms at Government College of Engineering, Jalgaon, from 2018 to 2023.
- Actively participated in the **development of departmental laboratories** under TEQIP-III and utilized World Bank funds at Government College of Engineering, Jalgaon, from 2018 to 2021.
- Held the additional charge as Library In-charge at Government College of Engineering, Ratnagiri, and utilized funds sanctioned under the State Government scheme from 2023 to 2024.
- Worked as the **Nodal Officer and PRO** for the recruitment process of Class III and Class IV staff through the GeM portal at Government College of Engineering, Jalgaon.
- Handled various responsibilities in **examination conduction** for Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, from 2024 to the present.
- Currently handling the responsibility of **AICTE** and **DBATU** affiliation processes for Government College of Engineering, Yavatmal.

Declaration

I hereby declare that all the information mentioned above is true to the best of my knowledge.

Place: Yavatmal Date: 16/04/2025

Shaktikumar R. Shiledar

Name of STTP	Sponsor Agency	Name of College	Duration and Dates
Content Updating on Computer Security	MSBTE, Mumbai	Government Polytechnic Mumbai	One week (10/01/2011 to 14/01/2011)
Induction Training Programme - Phase I	NITTR, Bhopal	Government Polytechnic Mumbai	Two weeks (18/04/2011 to 29/04/2011)
Control System & Its Applications	MSBTE, Mumbai	V.E.S. Polytechnic, Chembur	One week (12/09/2011 to 16/09/2011)
OrCAD Softwares	WINspect Infosystem Pvt. Ltd., Navi Mumbai	Government Polytechnic Mumbai	One week (12/03/2012 to 16/03/2012)
Induction Programme Phase II	NITTR, Bhopal	NITTR, Bhopal	Two weeks (10/06/2013 to 21/06/2013)
Matlab Software	NITTR, Bhopal	NITTR, Bhopal	Two weeks (22/07/2013 to 02/08/2013)
Foundation Training for Lecturers Phase I, II & III	Govt. of Maharashtra Higher and Technical Education Dept.	Yashada, Pune	Six weeks (13/01/2014 to 22/02/2014)
Progressive Electrical Systems	MSBTE, Mumbai	VPM's Polytechnic, Thane	One week (17/12/2014 to 21/12/2014)
Industrial Training for Faculty (Chemical & Instrumentation Dept.)	MSBTE, Mumbai	Rashtriya Chemicals & Fertilizers Ltd., Mumbai	One week (07/09/2015 to 11/09/2015)
Renewable Energy Source for Sustainable Development	AICTE (QIP)	V.J.T.I. Mumbai	One week (14/12/2015 to 18/12/2015)
GIS and Remote Sensing Application in Engineering	TEQIP	Government Engineering, Karad	One week (22/02/2016 to 26/02/2016)
NBA and Curriculum Development	NITTR, Bhopal	Government Polytechnic Mumbai	One week (18/04/2016 to 22/04/2016)
Orientation Workshop for NBA Activity	DTE, Mumbai	COEP	One day (23/12/2016)
NBA Accreditation Process	ISTE	G.R.W. Polytechnic, Yavatmal	One week (12/06/2017 to 16/06/2017)
Data Analytics and Machine Learning	TEQIP-III	Government College of Engineering, Jalgaon	One week (25/09/2018 to 29/09/2018)
Power System Simulation using CYME and PSIM	TEQIP-III	Government College of Engineering, Jalgaon	One week (28/01/2019 to 01/02/2019)
Improvement of Technical Education System & Industry-Institute Interaction	DTE, Mumbai	Government College of Engineering, Jalgaon	One week (21/01/2019 to 25/01/2019)
Professional Development Training	TEQIP-III	IIM Raipur	One week (26/03/2019 to 30/03/2019)
Capacity Enhancement Training Program for Faculty & Staff	TEQIP-III	Government College of Engineering, Jalgaon	One week (16/07/2019 to 20/07/2019)

Name of STTP	Sponsor Agency	Name of College	Duration and Dates
Biomedical Engineering	TEQIP-III	Government College of Engineering, Jalgaon	One week (05/08/2019 to 09/08/2019)
Process Control - Design, Analysis and Assessment	Ministry of HRD (NPTEL)	IIT Madras	12-week (Jan–Apr 2019)
Advances in Power Converters and Renewable Energy Control	AICTE	KCES's College of Engineering & IT, Jalgaon	Two weeks (22/11/2019 to 05/12/2019)
Introduction to Machine Learning and Deep Learning	CE & QIP (TEQIP-III)	IIT Bombay	One week (11/11/2019 to 15/11/2019)
Induction Program for Officers in Higher & Technical Dept.	Higher Technical Department	Yashada, Pune	One week (30/12/2019 to 03/01/2020)
Linear Dynamical Systems	Ministry of HRD (NPTEL)	IIT Madras	8-week (Jan–Mar 2020)
Robotics & Automation	TEQIP-III	IIT Delhi	Three days (12/03/2020 to 14/03/2020)
MATLAB Applications in Engineering and Science	TEQIP-III	Government College of Engineering, Karad	One week (27/04/2020 to 01/05/2020)
Inculcating Universal Human Values in Technical Education	AICTE	_	One week (03/01/2022 to 07/01/2022)
Research Tools for Advanced Instrumentation & Control	DTE, Mumbai	Government College of Engineering, Chandrapur	One week (08/02/2022 to 12/02/2022)
Emerging Trends in Electro-Hydraulic and Pneumatic Systems	DTE, Mumbai	College of Engineering Pune	One week (21/02/2022 to 25/02/2022)
Artificial Intelligence and Machine Learning	DTE, Mumbai	Government College of Engineering and Research, Avasari (Kh)	One week (08/03/2022 to 12/03/2022)
Quality Assurance and Accreditation in NEP 2020	DTE, Mumbai	Government College of Engineering, Jalgaon	One week (31/01/2023 to 04/02/2023)
Advanced Linear Continuous Control Systems (NPTEL)	Ministry of HRD (NPTEL)		12-week (Dates not specified)
Introduction to Research (NPTEL)	Ministry of HRD (NPTEL)	_	Duration not specified