




<div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>Savitribai Phule Shikshan Prasarak Mandal's</p> <p><b>N B NAVALE SINHGAD COLLEGE OF ENGINEERING</b></p> <p>(Approved by AICTE &amp; Affiliated to P. A. H. Solapur University, Solapur)</p> <p><b>CURRICULAM VITAE</b></p> </div>  </div>				
	<p><b>Dr. Vijaykumar Sidramappa Biradar</b> Associate Professor &amp; HOD, Ph.D. ✉ <a href="mailto:vsbiradar.nbnscoe@sinhgad.edu">vsbiradar.nbnscoe@sinhgad.edu</a> ☎ <b>9422941800</b></p>			
<b>Profile Summary</b>	<ul style="list-style-type: none"> <li>To do Research work and Teaching, so that I can contribute my knowledge and update myself simultaneously with the new concepts of Electrical Engineering.</li> </ul>			
<b>Educational Details</b>	<b>Institute / University Name</b>	<b>Passedout Year</b>	<b>Degree</b>	<b>Remark</b>
	Government College of Engineering Jalgaon (KBCNMU Jalgaon)	2023	Ph.D. (Instrumentation Engineering)	Awarded
	Government College of Engineering Pune (SPPU Pune)	2013	M.E. (Electrical-Control Systems)	First Class
	M. S. Bidve Engineering College Latur (SRTMU Nanded)	1999	B.E. (Electrical Electronics & Power)	First Class with Distinction
	Mahatma Basveshwar College Latur (Aurangabad Div. Board)	1995	HSC	First Class with Distinction
	Shri Deshi Kendra Vidyalaya, Latur (Aurangabad Div. Board)	1993	SSC	First Class
<b>Total Experience : 22 Years and 2 Months</b>				
<b>Teaching Experience</b>	<b>Institute:</b> N B Navale Sinhgad College of Engineering Solapur <b>From</b> 2011-07-01 <b>Total Experience:</b> 12 years 02 months		<b>Designation:</b> Assistant Professor <b>To:</b> <b>Approved:</b> Yes	
	<b>Institute:</b> Brahmdevdada Mane Institute of Technology, Solapur <b>From</b> 2007-09-14 <b>Total Experience:</b> 03 years 09 months		<b>Designation:</b> Assistant Professor <b>To:</b> 2011-06-29 <b>Approved:</b> Yes	
	<b>Institute:</b> Shri Vithal Education Research Institute's College of Engineering, Pandharpur <b>From</b> 2004-10-09 <b>Total Experience:</b> 01 years 08 months		<b>Designation:</b> Lecturer <b>To:</b> 2006-05-31 <b>Approved:</b> No	
	<b>Institute:</b> M S Bidve Engineering College Latur <b>From</b> 2003-09-22 <b>Total Experience:</b> 1 years 1 months		<b>Designation:</b> Lecturer <b>To:</b> 2004-10-08 <b>Approved:</b> No	
	<b>Institute:</b> Rajendra Mane College of Engineering & Technology Devrukh <b>From</b> 2002-07-02 <b>Total Experience:</b> 1 years 3 months		<b>Designation:</b> Lesturer <b>To:</b> 2003-09-20 <b>Approved:</b> No	

	<p><b>Institute:</b> N B Navale Sinhgad College of Engineering Solapur  <b>From</b> 2023-10-01  <b>Total Experience:</b> 0 years 1 months</p> <p><b>Designation:</b> Associate Professor  <b>To:</b>  <b>Approved:</b> Yes</p>
	<p><b>Roles and responsibilities handled in Teaching:</b></p> <ul style="list-style-type: none"> <li>Planned , Designed and Worked for the development of laboratories in the institute.</li> <li>Paper setting for different subjects in Branches of Electrical, Electronics &amp; Telecommunications, Mechanical Engineering at University.</li> <li>Guiding students for preparing projects and implementing new ideas for projects</li> <li>Planning for departmental activities and implementing</li> <li>Motivating students for appearing for the Competitive exams like GATE</li> <li>Worked for admission related activities of institute level as well as department level, organised technical events at Institute, University, State and National level.</li> <li>Worked as coordinator for Student Rally in a Multi Mega Event, ITRDC-2017 in collaboration with BARC and DAE Technologies</li> </ul>
Industry Experience	<p><b>Industry:</b> Maharashtra State Electricity Distribution Co. Ltd.  <b>From:</b> 2006-06-12  <b>Total Experience:</b> 1 years 3 months</p>
	<p><b>Industry:</b> Shanti Electricals  <b>From:</b> 1999-06-01  <b>Total Experience:</b> 1 years 2 months</p> <p><b>Designation:</b> Junior Engineer  <b>To:</b> 2007-09-13</p> <p><b>Designation:</b> Trainee Engineer  <b>To:</b> 2000-07-29</p>
Administrative Experience	<p><b>Total Experience :</b> 8 Years and 7 months</p> <p><b>Major Roles and Responsibilities Handled in Administration:</b></p> <ul style="list-style-type: none"> <li>Head of General Science &amp; Engineering Department</li> <li>Head of Electrical Engineering Department</li> <li>Laboratory Development of Electrical Engineering Department</li> <li>Implementation of policies of the Institute for improvement in academics</li> </ul>
Area Of Interest	<ul style="list-style-type: none"> <li>Control Systems</li> <li>Sliding Mode Control</li> <li>Electric Vehicles</li> </ul>
<b>Subjects Handled</b>	
UG	<ul style="list-style-type: none"> <li>Basic Electrical Engineering,</li> <li>Electromagnetic Wave Theory,</li> <li>Linear Control Theory,</li> <li>Pulse and Digital Circuits,</li> <li>Electrical Machines &amp; Components,</li> <li>Mechatronics,</li> <li>Electrical &amp; Electronics Technology,</li> <li>Linear Integrated Circuits,</li> <li>Control System-I,</li> <li>Control System-II,</li> <li>Non-Linear &amp; Digital Control System,</li> <li>Basic Circuit Theory,</li> <li>Electromagnetic Engineering,</li> </ul>

- Electrical Machines-I,
- Control System

## Research And Guidance

### Invited as Resource Person/ Expert/ Evaluator

- Resource person for one day workshop on "MATLAB for Mechanical Engineers (Faculty & ME Students)" at VVP Institute of Engineering & Technology Solapur on 22/02/2014.
- Resource person for one day workshop on "MATLAB for Mechanical Engineers (TE Students)" at VVP Institute of Engineering & Technology Solapur on 17/01/2015.
- Resource person for two days workshop on "MATLAB" at Shri Siddheshwar Women's Polytechnic, Solapur on 22-23/02/2016.
- Resource person for two days workshop on "MATLAB & SIMULINK" at Shri Siddheshwar Women's Polytechnic, Solapur on 30-31/01/2017.
- Resource person for one day workshop on "Use of ICT for OBE" at N B Navale Sinhgad College of Engineering Solapur on 20/12/2019.
- Resource person for PAHSUS sponsored one day workshop on "Scilab and Latex Software for Research, Computation and Publication" at N B Navale Sinhgad College of Engineering Solapur on 17/02/2020.
- Resource person for two days workshop on "Electric Vehicle" at N B Navale Sinhgad College of Engineering Solapur on 01-02/06/2021.
- Resource person for five days FDP on "Electric Vehicle" at N B Navale Sinhgad College of Engineering Solapur on 27/02-03/03/2023.
- Delivered Expert Lecture on "Control System-II" at VVP Institute of Engineering & Technology Solapur on 22/03/2017.
- Delivered Expert Lecture on "E-Car" at Puranmal Lahoti Govt. Polytechnic Latur on 29/10/2020.
- Delivered Expert Lecture on "Fundamentals of Electrical Engineering" at Shri Siddheshwar Women's Polytechnic, Solapur on 12/06/2021.
- Delivered Expert Lecture on "Fundamentals of Electrical Engineering" at Shri Siddheshwar Women's Polytechnic, Solapur on 08/04/2022.
- Delivered Expert Lecture on "E-Car" at State level Technical paper competition (Electrotech 2022 competition) Sponsored by MSBTE, Mumbai 12/05/2022.
- Worked as Judge for "Energy Contraption" of WITchar-2017 National Level Technical Symposium at Walchand Institute of Technology, Solapur on 19/03/2017.
- Worked as Judge for "Circuit Design Competition" at Brahmdevdada Mane Institute of Technology, Solapur on 23/01/2018.
- Worked as Judge for "Paper Presentation" at SVERI's College of Polytechnic, Pandharpur on 30/01/2018.
- Worked as Judge for State level Technical paper competition (Electrotech 2022 competition) Sponsored by MSBTE, Mumbai at Shri Siddheshwar Women's Polytechnic, Solapur on 12/05/2022.
- Worked as LIC Member in respect of official assignment of Punyashlok Ahilyadevi Holkar Solapur University Solapur on 9th April 2022 at SMSMP Institute of Technology & Research Akhuj.
- Worked as LIC Member in respect of official assignment of Punyashlok Ahilyadevi Holkar Solapur University Solapur on 12th April 2023 at SKN Sinhgad College of Engineering, Pandharpur.
- Worked as Subject Expert and VC Nominee for Electrical Engineering Selection Committee for the selection of Professor/Associate Professor/Assistant Professor at Brahmdevdada Mane Institute of Technology Solapur on 18/10/2016.
- Worked as Subject Expert for Electrical and Electronics & Telecommunication Engineering in the Local Selection Committee for the selection of Professor/Associate Professor/Assistant Professor at Shri Siddheshwar Women's College of Engineering Solapur on 3rd May 2023.

**Total Journal  
Paper Publications**

2

**Total Conference  
Paper Publications**

3

<b>Scopus Indexed</b>	4
<b>Detailed Journal Publication list</b>	<ol style="list-style-type: none"> <li>1. Biradar, V. S., &amp; Malwatkar, G. M. (2022). <i>Second Order Sliding Mode Control for Robust Performance of the Systems. Reliability: Theory &amp; Applications</i>, 17(4 (71)), 358-370.</li> <li>2. Dr. Dharmesh J. Pandya, Vijaykumar S Biradar, ArpitVarshnry, Dr. K. Manimekalai, Mrs. B Neeraja, Dr. Subash Ranjan Kabat (2023). <i>DESIGN OF ENERGY-EFFICIENT SM CONTROLLER FOR PHOTOVOLTAIC SYSTEM WITH DC-DC CONVERTER</i>, <i>European Chemical Bulletin</i>, 12 (Special Issue 4), 18143-18151</li> </ol>
<b>Detailed Conference Publication list</b>	<ol style="list-style-type: none"> <li>1. Jagtap, K. K., Patil, G., Katti, P. K., Shinde, N. N., &amp; Biradar, V. S. (2016, December). <i>Techno-economic feasibility study of wind-solar PV hybrid energy system in Maharashtra state, India</i>. In <i>2016 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)</i> (pp. 1-5). IEEE.</li> <li>2. Biradar, V., &amp; Malwatkar, G. (2022, October). <i>Selection of performance based sliding surface parameters with robust control</i>. In <i>AIP Conference Proceedings (Vol. 2494, No. 1)</i>. AIP Publishing.</li> <li>3. Biradar, V. S., Shiledar, S. R., &amp; Malwatkar, G. M. (2021, December). <i>Discrete Time Sliding Mode Control Tuning Based on Dynamics of System Model</i>. In <i>2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA)</i> (pp. 524-527). IEEE.</li> </ol>
<b>Number Of Books Published</b>	1
<b>Detailed List of Books Published</b>	<ol style="list-style-type: none"> <li>1. 1. Electrical Vehicle Technology, Bathala Neeraja, Vijaykumar S. Biradar, Malini K V. ISBN: 9789357570985</li> </ol>
<b>Number Of Patents</b>	3
<b>Detailed List of Patents</b>	<ol style="list-style-type: none"> <li>1. 1. 202141060113_DESIGN A PHOTONIC SYSTEM FOR DETECTION OF MATERIALS DEFECTS</li> <li>2. 2. 202341007949_Intelligent autonomous braking control strategy of E-Vehicle based on driving intention recognition</li> <li>3. 3. 202341032548_The Performance of Switched Reluctance Motors for Electric Vehicle Applications can be Significantly Improved by implementing Predictive Current Control</li> </ol>

**FDP/STTP/Workshop Attended: 40**

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Months
1	Electric Vehicle	N B Navale Sinhgad College of Engineering Solapur	2023-02-27 to 2023-03-03	
2	Implementation of National Education Policy 2020 (Adoption of Guidelines of NHEQF and Curriculum Framework and credit system for four-year Undergraduate Program)	G H Rasoni College of Engineering and Management, Pune	2023-02-03 to 2023-02-04	
3	Trends and Challenges in Electric Vehicles	ANNASHEB DANGE COLLEGE OF ENGINEERING & TECHNOLOGY, ASHTA (An Autonomous Institute)	2023-01-02 to 2023-01-06	
4	Artificial Intelligence, Machine Learning, and IOT for Electrical Engineering	All India Shree Shivaji Memorial Society's, Institute of Information Technology, Pune	2022-08-08 to 2022-08-12	

		in association with IEEE PES Pune Section & IEI.		
5	Numerical & Engineering Computation, Optimization for Physicists, Scientists & Engineers using Open-Source-SCILAB	Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, and NIT Patna, under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.	2022-02-21 to 2022-03-05	
6	Plagiarism in Academic Research & Author Identifiers	Indian Institute of Management and Science Telangana	2022-04-11 to 2022-04-12	
7	Inculcating Universal Human Values in Technical Education	ALL INDIA COUNCIL FOR TECHNICAL EDUCATION NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI	2022-01-31 to 2022-02-04	
8	"Recent advancements in sustainable energy storage and conversion	Manipal Institute of Technology, Manipal & AICTE Training And Learning (ATAL) Academy	2021-10-25 to 2021-10-29	
9	Basics of Electric Vehicles	Thapar Institute of Engineering & Technology & AICTE Training And Learning (ATAL) Academy	2021-09-10 to 2021-09-14	
10	Recent Trends in Control System Engineering	Chhatrapati Shivaji Institute of Technology & AICTE Training And Learning (ATAL) Academy	2021-08-23 to 2021-08-27	
11	Emerging Technologies in Electric Vehicles	Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla & ISTE	2021-08-02 to 2021-08-14	
12	Outcome Based Pedagogic Principles for Effective Teaching in Engineering	GMB Polytechnic College, Rajula, Gujarat & AICTE-ISTE	2021-05-05 to 2021-05-12	
13	Improving Excellence In Teaching	ABMSP's Anantrao Pawar College of Engineering & Research, Parvati, Pune, Maharashtra & AICTE-ISTE	2021-04-24 to 2021-04-30	
14	Industrial Automation and Control	G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh & AICTE-ISTE	2021-04-05 to 2021-04-10	
15	Automation and Intelligent Control of Electrical Systems-Phase IV	Gudlavalleru Engineering College, Sheshadri Rao Knowledge Village, Gudlavalleru & AICTE	2021-03-15 to 2021-03-20	
16	Control Systems & Sensors Technology	National Institute of Technology Calicut & AICTE Training And Learning (ATAL) Academy	2021-02-01 to 2021-02-05	
17	Arduino and PLC Based Automation in thermal, Production and Automobile Field	Shrinathji Institute of Technology & Engineering, Nathdwara & Rajasthan Technical University, Kota TEQIP-III	2021-01-19 to 2021-01-23	
18	One Week Online FDP on Mathematical Modeling & Numerical Techniques 2020	Kakatiya Institute of Technology and Science, Warangal	2020-07-27 to 2020-07-31	
19	How to Plan a Research	Research & Development Cell, G H Rasoni University Amravati	2020-10-03 to 2020-10-03	
20	NAAC RELATED QUALITY ENHANCEMENT FOR FACING PEER TEAM	AISSMS Institute of Information Technology, Pune	2021-05-26 to 2021-05-26	
21	OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE	Government College of Engineering, Karad under Margdarshan Scheme of AICTE, New Delhi.	2020-05-11 to 2020-05-15	
22	Imparting Outcome Based Education (OBE) in Professional Education: Objectives, Best Practices and Measurement of Outcomes	D Y Patil College of Engineering Akurdi Pune & AICTE	2019-11-04 to 2019-11-15	

23	Recent Trends in Control System and Applications	Shri Guru Gobind Singhji Institute of Engineering & Technology Nanded & AICTE	2019-07-01 to 2019-07-05	
24	Mathematical Techniques in Solving Engineering Problems	National Institute of Technical Teachers Training & Research, Chandigarh & AICTE	2019-04-29 to 2019-05-03	
25	Optimization Techniques with Engineering Applications through ICT	National Institute of Technical Teachers Training & Research, Chandigarh & AICTE	2018-12-10 to 2018-12-14	
26	Student Centered Teaching Learning Practices	N B Navale Sinhgad College of Engineering Solapur	2017-10-26 to 2017-10-27	
27	Electric Power System (Two Week)	N K Orchid College of Engineering & Technology Solapur & AICTE	2017-06-12 to 2017-07-15	
28	Use of Circuit Simulator in teaching Basic Electrical & Electronics Courses	Vishwakarama Institute of Information Technology Pune	2017-01-27 to 2017-01-28	
29	Optimization Techniques in Mechanical Engineering	N B Navale Sinhgad College of Engineering Solapur & ISTE	2016-12-26 to 2016-12-30	
30	Recent Trends of Power Electronics in Power System	N B Navale Sinhgad College of Engineering Solapur	2016-06-13 to 2016-06-17	
31	Dynamics and Control in State-Space	Indian Institute of Technology, Bombay & AICTE	2015-05-18 to 2015-05-22	
32	Control Systems	N K Orchid College of Engineering & Technology Solapur & AICTE	2014-12-02 to 2014-12-12	
33	Analysis & Design of Classical Control Systems	Indian Institute of Technology, Bombay & AICTE	2014-11-10 to 2014-11-14	
34	Embedded Control Systems	Indian Institute of Technology, Bombay & AICTE	2014-05-12 to 2014-05-16	
35	Microcontroller Applications in Electrical Engineering	Bhivarabai Sawant College of Engineering and Research (BSCOER), Pune	2013-11-10 to 2013-11-11	
36	Mathematics & Software for Researchers	SKN Sinhgad College of Engineering Pandharpur & ISTE & IEI	2012-03-19 to 2012-03-24	
37	Mathematical Modelling and Simulation	Sardar Vallabhbhai National Institute of Technology, Surat & AICTE	2009-12-21 to 2009-12-25	
38	Effective Teaching; Cooperative Learning; Effective Faculty Development, Outcome based Education	Sardar Vallabhbhai National Institute of Technology, Surat & AICTE	2009-12-14 to 2009-12-19	
39	Laboratory Curriculum Development in Electrical Engineering	Sardar Vallabhbhai National Institute of Technology, Surat & AICTE	2009-01-19 to 2009-01-23	
40	Laboratory Safety Management	National Institute of Technical Teachers Training & Research, Kolkata & AICTE	2019-09-23 to 2019-09-27	

**Mooc/ Other Courses Attended: 1**

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Days
1	Basic Electrical Engineering	Indian Institute of Technology Madras	2017-07-01 to 2017-09-30	

**FDP/STTP/Workshop Conducted: 9**

Sr.No	Title	Organized by	Worked As	Dates from to	Duration in Weeks/ Days
1	MATLAB For Mechanical Engineers (FACULTY and ME Students)	VVP Institute of Engineering & Technology Solapur	Resource Person	2014-02-22 to 2014-02-22	1 Day
2	MATLAB For Mechanical Engineers (UG Students)	VVP Institute of Engineering & Technology Solapur	Resource Person	72015-01-17 to 2015-01-17	1 Day

3	MATLAB	Shri Siddheshwar Women's Polytechnic, Solapur	Resource Person	2016-02-22 to 2016-02-23	2 Days
4	MATLAB & SIMULINK	Shri Siddheshwar Women's Polytechnic, Solapur	Resource Person	2017-12-30 to 2017-01-31	2 Days
5	Use of ICT For OBE	N B Navale Sinhgad College of Engineering Solapur	Resource Person	2019-12-20 to 2019-12-20	1 Day
6	Scilab and Latex Software for Research, Computation and Publication	N B Navale Sinhgad College of Engineering Solapur & PAH Solapur University Solapur	Resource Person	2020-02-17 to 2020-02-17	1 Day
7	Electric Vehicle	N B Navale Sinhgad College of Engineering Solapur	Resource Person	2021-06-01 to 2021-06-02	2 Days
8	Electric Vehicles	N B Navale Sinhgad College of Engineering Solapur	Resource Person	2023-02-27 to 2023-03-03	1 Week
9	Workshop of Recent Trends in Power Electronics and Power System	N B Navale Sinhgad College of Engineering Solapur	Organising Committee Member	2016-06-13 to 2016-06-17	1 Week

### Other Activities

<b>Achievements &amp; Awards</b>	<ol style="list-style-type: none"> <li>1. Awarded as 'Doctor of Philosophy in Instrumentation Engineering' from Government College of Engineering Jalgaon , KBX North Maharashtra University, Jalgaon on 8th August 2023.</li> <li>2. Appreciated by Commissioner of Police and Superintendent of Police for Awareness programs about 'Road Safety' and 'Cyber Security' in and around Solapur.</li> <li>3. Appreciated for Booklet writing by D Y Patil College of Engineering Akurdi Pune in AICTE approved TWO Week Faculty Development Program.</li> <li>4. Received BEST TEACHER AWARD in 2015</li> </ol>
<b>Professional Memberships</b>	<ol style="list-style-type: none"> <li>1. Member of Institute of Engineers (India) M1410223</li> <li>2. Life Member of The Indian Society for Technical Education LM44532</li> <li>3. Member of International Association of Engineers (Member No: 205336)</li> <li>4. Member of International Society for Research and Development (ISRD) M4150905048</li> </ol>
<b>Major Projects Handled</b>	
<b>Personal Details</b>	
<b>Employee Code</b>	SOL/KG/03/B/651
<b>Adhar Card Number</b>	992795375994
<b>Pan Card Number</b>	AJQP8806J

<b>Passport Number</b>	Z3743768
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