BIO-DATA

1.	**Name**	RAJENDRA SHYAMBIHARI SONI
2.	**Designation**	ASSISTANT PROFESSOR
3.	**Residential Address**	804, Building No 1, Sarvoday Enclaves, Agra Road, Near Shivaji Chowk, Kalyan (W) - 421301
4.	**Date of birth**	18 MAY 1986
5.	**Total Experience**	14 Years and 11 Months as on 29/03/2025
i.	**Teaching**	14 Years and 7 Months
ii.	**Industrial**	4 Months
6.	**Qualifications**	

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
ME	DEC 2013	PUNE UNIVERSITY	ELECTRICAL CONTROL SYSTEMS	8.02 CGPI
BE	MAY 2009	MUMBAI UNIVERSITY	ELECTRICAL	80.21 %
HSC	MARCH 2004	MAHARASHTRA BOARD	SCIENCE	68.5
SSC	MARCH 2002	MAHARASHTRA BOARD	----------	82.13

Additional Qualification:

7. Employment Record

Institution	Year (From To)	Designation
FCRIT, VASHI	3 JULY 2015 TO TILL DATE	ASSISTANT PROFESSOR
SES, GOIFE, DIKSAL	JULY 2010 TO JUNE 2015	LECTURER
VIBHA MECHANO ELECTRIC INDIA PVT LTD, DOMBIVLI	JAN 2010 TO APRIL 2010	QUALITY CONTROL ENGINEER
SES, GOIFE, DIKSAL	SEPTEMBER 2009 TO DECEMBER 2009	LECTURER

8. Undergraduate / Postgraduate Teaching Experience and Subjects Taught

Subjects Taught at UG level

Sr.No	Name of Subject	Semester
1	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	I
2	FUNDAMENTALS OF ELECTRICAL MACHINES AND MEASUREMENTS, ELECTRICAL MACHINES – I, II,III	III, IV, V
3	INDUSTRIAL ELECTRONICS	IV Mechanical
4	PYTHON PROGRAMMING LAB	IV
5	COMMUNICATION ENGINEERING	V
6	CONTROL SYSTEMS – I, II	VI, VII
7	ELECTRICAL MACHINE DESIGN	VII
8	DESIGN MANAGEMENT AND AUDITING OF ELECTRICALSYSTEMS, AUTOMATION AND CONTROL	VIII

9. **Research Experience**

10. **Research Funding / Consultancy Services:**

Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period

Research Grants:

Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project

Technical Collaboration / Lab Funding with Industries

Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year

11. **Professional Societies Fellowship / Membership: ISTE LIFE MEMBERSHIP – LM112289**

12. **Achievements / Awards / Position: SECURED 4TH RANK IN MUMBAI UNIVERSITY AT BE ELECTRICAL EXAMINATION IN 2009**

13. **Projects guided in UG/PG level:**

IN UG

1. **Implementation of variable frequency drive for three phase induction motor.**
2. **Wireless speed control of DC motor.**
3. **Design and implementation of solar inverter with LVRT capability.**
4. **Speed control of BLDC motor.**
5. **Water Level Controller System**
6. **Hardware Implementation and Analysis of 3 – Phase Inverter using different modulation techniques (SPWM and SVPWM).**
7. **Design and Implementation of Indigenous Load Break Switch.**

14. **Short Term Training Programmes attended:**

1. **One week STTP on "Software tools for Engineering researchers" at FCRIT, Vashi.**
2. **One week STTP on "Microgrid, Smartgrid and Futuristic Energy Paradigms" at FCRIT, Vashi.**
3. **One week STTP on "Reliability in Electrical and Electronic Systems" at FCRIT, Vashi.**
4. **One week STTP on "Teaching Pedagogies for Engineering Education" at FCRIT, Vashi.**
5. **One week online STTP on "Design and Control of Power Electronic Converters and it's Applications" organized by NIT, Karnataka, Surathkal**
6. **One week online FDP on "SCILAB" organized by Indira College of Engineering and Management.**
7. **One week online FDP on "Recent Trends in Green Energy and Smart Grids" organized by VJTI Mumbai.**
8. **One week online ATAL FDP on "Artificial Intelligence" by organized BIT, Durg.**
9. **One week online ATAL FDP on "Control Systems and Sensors Technology organized" by Government Engineering College, Thrissur.**
10. **Three days online FDP on "Ensuring Physical and Mental Well Being during COVID-19" organized by VJTI.**
11. **One week online FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE.**
12. **One week online STTP on "DSP, Arduino, and C/Python" organized by FCRIT, Vashi.**
13. **Attended two days training workshop on ETAP software for power system simulation.**
14. **Attended 6 days online STTP on 'Power Electronics and Drives' at FCRIT.**
15. **One week FDP on "Research Proposal Writing and AI tools in Education and Research" organized by P R Pote College of Engineering & Management, Amravati, Maharashtra.**
16. **One Week STTP on "Pedagogical Strategies for Effective Teaching Learning" at FCRIT, Vashi.**
17. **10 Days faculty Development Programme on "Implementation of Autonomy" at FCRIT, Vashi.**

15.	**List of Journal Papers Published** **[1] Rajendra Soni[1], P S Dhamal[2], "Direct Torque Control of Three Phase Induction Using Fuzzy Logic", IJAMTES, September 2013.** **[2] Piyush Kumar[1], Gaurav Rangari[2], Ashwin Shirgaonkar[3], Wilson Arnold[4], Rajendra Soni[5], "Implementation and Analysis of A Three-Phase Inverter using Different Modulation Techniques (SPWM and SVPWM)", IJERT, ISSN-2278-0181, Vol-12, Issue 2, Feb – 2023.** **[3] Rajendra Soni, Yogesh Harel, Kaushal Karhade, Sushant Kedari, Shantanu Mahabale, "Design and Implementation of Indigenous Load Break Switch", Journal of System Engineering and Electronics", Volume 34, Issue 5, ISSN: 1671-1793, 2024.**
16.	**List of Papers Published in National and International Conferences** **[1] Rajendra S, Bindu R, Divya S, Bindu S, "Application of Python-based Machine Learning for Transformer Performance and Transmission Line Fault Prediction", 2nd IEEE International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Applications, 2024.** **[2] Dinesh Bhujade[1], Rajendra Soni[2], "Direct Torque Control of Three Phase Induction Motor Using Space Vector Modulation Technique", ICIIECS, 2016.** **[3] Rajendra Soni[1], P S Dhamal[2], "Direct Torque Control of Three Phase Induction Motor Using Fuzzy Logic", ICETTA, 2013.** **[4] Rajendra Soni[1], P S Dhamal[2], "Torque and Flux Control Methods of Three Phase Induction Motor", ICNDCETM – 2012.**
17.	**Books/Reports/General articles etc.**
18.	**Invited Lectures in FDP/ STTP** **[1] Session titled "Hands on: Applications of Python in Electrical Engineering" in one week STTP on "Role of Machine Learning in Electrical Engineering" organized by Department of Electrical Engineering, FCRIT, Vashi, 2024.**
19.	**International Conference Technical Program Committee Member / Reviewer:** **[1] Reviewer at ICNTE – 2023 organized by FCRIT Vashi**
20.	**Patents**