

Dr. Sachin Rambhau Maheshri

ASSISTANT PROFESSOR



OBJECTIVE

“To work in organized organization & to excel myself with experience in functionally related field to put all efforts to provide better service with the touch of human face”.

EXPERIENCE

1. Organization name :- KCES's College of Engg.& I.T, Jalgaon
Designation: - As Assistant Professor & ME Co-Ordinator (Approved by UGC,NMU/18/722/2016) Duration: - 25 Jan 2011 to 14 Feb 2017.
2. Organization name :- GF's Godavari College of Engg, Jalgaon
Designation: - As Assistant Professor & ACOE. Duration: - 15 Feb 2017 to till date.
3. Owner & Founder of E-Tech Multiservices, Jalgaon. All types of Electrical Panel manufacturer, all UG cable, LT, Electrical Installation works etc.
4. License of Electrical Engineer & Contractor, License No.44502.Date of Issue.19/07/2008.Organization name:-New Sudarshan Electricals, Jalna. Designation: - Site Engineer (Electrical Wiring Residential & Industrial) .Duration: - July 2010 to Jan.2011

ACCOMPLISHMENTS (25)

1. ACOE Autonomous GF's GCOE,Jalgaon.
2. Phoenix 2k24 National level event Shark Tank Godavari Department main Event Co-Ordinator.
3. Phoenix 2k23 National level event Shark Tank Godavari Department main Event Co-Ordinator.
4. Phoenix 2k22 National level event Shark Tank Godavari Department main Event Co-Ordinator.
5. NAAC Criteria 5 Main coordinator.
6. Works as organizing committee members for national conference in on current trends in engineering science and technology NACCTEST 2018 20 March 2018

CONTACT



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Department of Electrical Engineering.
Godavari College of Engineering , Bhusawal
Road, Jalgaon-425003, (MS) India

EDUCATION

2006

- Diploma in Electrical Engg. MSBTE

2010

- North Maharashtra University, Jalgaon
- Bachelor of Engineering in Electrical Engineering
- 73.26%

2015

- R.G.P.V. Bhopal
- M.Tech Electrical Power System
- CGPA : 8.41

2026

- **Ph.D. in Electrical Engg.**
LNCTU, Bhopal (MP)

SKILLS

Basic knowledge, C & C++, MATLAB, AutoCAD.

SUBJECTS TAUGHT

- AC circuits & Transformers
- Switchgear & Protection
- Electrical measurement
- Electrical Installation Estimation & costing
- High voltage Engineering
- Basic Human Rights
- Universal Human Values
- Analog & Digital Electronics
- Microprocessor & Microcontroller
- High power Multilevel converter.
- Electrical Traction & Utilization
- Electrical Machines-I

7. Works as organizing committee members for International conference in on current trends in engineering science and technology ICRAEAST 2020
8. Works as organizing committee members for international conference in on current trends in engineering science and technology ICRAEAST 2021
9. Works as organizing committee members for international conference in on current trends in engineering science and technology ICRAEAST 2022
10. Works as organizing committee members for international conference in on current trends in engineering science and technology ICRAEAST 2024
11. Organized two days workshop on Project Development for electrical Students on date 24 to 25 oct 2024.
12. Organized two days workshop on IOT on Arduino for electrical Students.
13. Organized Alumini Interaction talk on date 4 dec 2024. for Electrical Engg. Students.
14. Main Event Coordinator & Organized the National Level Paper Presentation "IGNITION 2015". at KCES's College of Engg.& I.T, Jalgaon on date 02 Feb 2015.
15. Main Event Coordinator & Organized the National Level Paper Presentation "IGNITION 2014". at KCES's College of Engg.& I.T, Jalgaon 31 Jan to 01 Feb 2014.
16. Main Event Coordinator & Organized the National Level Paper Presentation "IGNITION 2012". at KCES's College of Engg.& I.T, Jalgaon on date 03 Oct to 04 Oct.2012.
17. Main Event Coordinator & Organized the State Level Paper Presentation "IGNITION 2011". At KCES's College of Engg.& I.T, Jalgaon.
18. Worked as a judge (Paper presentation) in the event TECHNOfUN 2K14 organized by E&TC dept & IETE student forum at KCES's College of Engg.& I.T, Jalgaon on date 06 sept.2014.
19. Guest lecture at Trimurti Institute of Technology (Polytechnic),Jalgaon on topic Role of PF improvement a tool in reducing cost of generation on date 19 March 2013.
20. Arranged Industrial visit at Nasik Traction in 2012 for Third year Electrical Engg. students.
21. Arranged Industrial visit at POH Traction, Bhusawal in 2013 for Final year Electrical Eng. Students.
22. Arranged Industrial visit at Khadka substation, Bhusawal in 2013 for Final year Electrical Engg. students.
23. Arranged Industrial visit at Dwarka industry, Jalgaon in 2013 for Final year Electrical Eng. Students.
24. Arranged Industrial visit at Sardar Sarovar, Gujrat in 2012 for Final year Electrical Eng. Students.
25. Arranged Industrial visit at Sardar Sarovar, Gujrat in 2013 for third year Electrical Engg. students.

RESEARCH (CONFERANCES 7)

➤ Electrical Machines-II

WORKSHOPS/FDP COUNT(68)

- 1.Attended workshop on "Electric Power System" at KCES's College of Engg. & I.T, Jalgaon." Organized by IIT, Kharkpur. In 2017
- 2.Attended workshop on "CMOS Mixed Signal and Radio frequency VLSI Design" at KCES's College of Engg.& I.T, Jalgaon." Organized by IIT, Kharkpur. on date 30 Jan to 04 Feb 2017.
- 3.Attended workshop on "Control System" at KCES's College of Engg. & I.T, Jalgaon." Organized by IIT, Kharkpur on date 02 Dec to 12 Dec 2014.
- 4 Attended workshop on "Akash Education" at KCES's College of Engg. & I.T, Jalgaon. Organized by IIT, Bombay on date 10 Nov. to 11 Nov 2012.
- 5Attended workshop on "Data Base Management System" at KCES's College of Engg. & I.T,Jalgaon. Organized by IIT, Bombay on date 21 May to 31 May 2013.
- 6Attended workshop on "Engineering Thermodynamics" at KCES's College of Engg.& I.T,Jalgaon. Organized by IIT, Bombay on date 11 Dec to 21 Dec 2012.
- 7 Attended workshop on "Engineering Mechanics" at KCES's College of Engg.& I.T, Jalgaon. Organized by IIT, Bombay on date 21 Nov. to 06 Dec 2013.
- 8 Attended one day workshop on "Faculty Induction program" at DBATU, Lonare-Raigad. on 26 July 2017.
- 9 Attended two day workshop on "Pedagogy and use of ICT in class rooms" at GF's Godavari College of Engg, Jalgaon." On 20 and 21 January 2018.
- 10 Attended One day workshop on Digital Evaluation System(DES) at GF's Godavari College of Engg, Jalgaon (Under Dr.Babasaheb Ambedkar Technological University, Lonere) on date 26 Sept 2017.
- 11 Attended One day workshop on syllabus framing at D.N. Patel College of Engg,

<ol style="list-style-type: none"> 1. Participated In National Conference (NACCTESTM-2017) At Gf's Godavari College Of Engg, Jalgaon In 2017.(Paper Id-Ee08,Proceeding Page No.426) 2. Participated In National Conference (NACCTESTM-2018) At Gf's Godavari College Of Engg, Jalgaon In 2018.(Paper Id-Ee02,Proceeding Page No.44) 3. Participated In National Conference (NACCTESTM-2018) At Gf's Godavari College Of Engg,Jalgaon In 2018.(Paper Id-Ee03,Proceeding Page No.45) 4. Participated In National Level Paper Presentation At K.K.Wagh Coe, Nasik On Date 25 Oct. & 26 Oct.2013. 5. Participated In National Level Paper Presentation At TIT Institute Of Polytechnic, Jalgaon In 2012. 6.ICRAEST 2024. ID EE-11,Diesel generator & boost converter for hybrid microgrid with power quality controller.15 march 2024 7. ICRAEST 2025. ID EE-12,MPPT & boost converter for PV hybrid microgrid with power quality controller.15 march 2024 	<p>Shahada,(Under North Maharashtra University, Jalgaon) on date 14 Feb 2015.</p> <ol style="list-style-type: none"> 12 Attended One day workshop on syllabus framing at SSBT's COET, Bambhori, Jalgaon.(Under North Maharashtra University, Jalgaon) on date 21 Sept. 2013 13 Attended One day workshop on syllabus framing at GF's Godavari College of Engg. Jalgaon,(Under North Maharashtra University, Jalgaon) on date 06 Nov 2012. 14Attended workshop on "LATEX" at S.S.G.B C.O.E.T, Bhusawal. On date 19 Oct. to 21 Oct.2012. 15 Attended National Level workshop on "Energy Audit & Conservation" at GF's GCOE, Jalgaon on date 5 April 2013. 16. Attended Research study on 'Academic Leadership Roles' being conducted during July - Nov. 2021 by National Institute of Technical Teachers' Training and Research, Bhopal.
<p>/PAPER PUBLISHED/ PATENTS/ BOOKS (15 PAPERS & 3PATENT,1BOOK CHAPTER)</p> <ol style="list-style-type: none"> 1. Title – Simulation of single phase SPWM (Unipolar) inverter. Journal – International Journal of Innovative Research in Advanced Engineering (IJIRAE),Volume – ISSN: 2349-2163,Volume 1,Issue 9 (October 2014). 2. Title – Design of SPWM Unipolar (single phase) Inverter. Journal – International Journal of Science and Research (IJSR), Volume – ISSN (Online): 2319-7064, Volume 4, Issue 1 (January 2015). 3. Title – Simulation & Hardware Development of Single Phase Sinusoidal Pulse Width Modulation (Unipolar) Inverter, Journal–International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE), Volume – ISSN: 2349-7947, Volume: 2 Issue: 3, 001–007(March 2015). 4. Title – Review on Multi Level Diode Clamped Inverter, Journal–International Journal on Research and Development, Volume – ISSN: 2279-0438, Volume: III Issue: I, 001–007(Feb 2015). 5. ICRAEST-2024" Four Wheeler EV Batteries Friday 15 March, 2024. (Paper ID:EE4) 6. Title –Door lock open using fingerprint sensor international journal of innovation in engineering and sciences recent 	<ol style="list-style-type: none"> 17 Attended Webinar on My Motivational story being a successful entrepreneur & start up founder organized by GFs GCOE Jalgaon. 18 Attended (online), an Expert Talk - "IPR Awareness & Related Procedures", organized by Institution's Innovation Cell (IIC) in association with Indian Patent Office (IPO),Mumbai on 28 January, 2022. organized by GFs GCOE Jalgaon. 19.Participated in IP Awareness/Training program under National Intellectual Property rights on January 28,2022 organized by Intellectual Property Office, India 20. Participated in the webinar on " "HAMARA TEJAS"- India's own 4th Gen Fighter" held on 24/06/2021 organized by the Department of Electronics and Communication Engineering at Dr. Ambedkar Institute of Technology, Bengaluru. 21. 3 Days FDP on Research Tools For Data Science organised by Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune - 411047. 29/03/2022 to 31/03/2022 22. 3 Days FDP on "Recent Technologies in Electrical Engineering" organized by Department of Electrical Engineering at JES's S.N.D. Polytechnic ,Yeola Dist-Nashik. 10/02/2022 to 12/02/2022

advance in engineering science and technology ISBN978 819 6224 134 ISSN number 2456 34 63

7. A review on development of hardware on Internet of things on Auto Isolator International / National Level Conference Isbn 9788194998969
8. Diesel Generator and Boost Converter for PV Hybrid Microgrid with Power Quality Controller Neuroquantology | September 2022/| Volume 20 | Issue 9 |Page 8117-8125| Doi: 10.48047/NQ.2022.20.9.NQ44944.
9. MPPT and Boost Converter for PV Hybrid Microgrid with Power Quality Controller RES militaries Social science journal vol.13 n°,3 ISSN: 2265-6294 Spring (2023).
10. Integrated MPPT and Power Quality Control in PV-Diesel Hybrid Microgrids Using Boost Converter Architecture Journal of Computational Analysis and Applications VOL. 33, NO. 8, 2024, et al 2853-2876.
11. Performance Evaluation of a PV Diesel Hybrid Microgrid Using MPPT-Driven Boost Conversion and Power Quality Enhancement J. Electrical Systems 20-11s (2024): 5086-5094.
12. Multi-level Inverter For Grid-connected Hybrid Pv-wind-battery Based System For House Hold Applications Neuroquantology | September 2022/| Volume 20 | Issue 9 |Page 8126-8134| Doi: 10.48047/NQ.2022.20.9.NQ44945.
13. PV Power And Off Shore Wind Power Generation For Grid-connected Hybrid Pv-wind-battery Based System For House Hold Applicationsres Militaries Social Science Journal Vol.13 N°,3 ISSN: 2265-6294 Spring (2023).
14. Design And Simulation Of A Grid-connected Hybrid Pv-wind-battery System Using Multi-level Inverter For Residential Applications Journal Of Computational Analysis And Applications Vol. 33, No. 8, 2024. Et Al 2877-2896.
15. High-efficiency Grid-connected Hybrid Pv-wind-battery Energy System Using Multi-level Inverter For Residential ApplicationsJ. Electrical Systems 20-11s (2024): 5078-5085.

Book chapter published

1. Book Name- Solar Energy Systems and Smart Electrical Grids for Sustainable Renewable Energy, Chapter 16 Economic and Financial Viability of Large-Scale Solar Power Projects.
Authors- 1. Sachin R. Maheshri, Assistant Professor, Department of Electrical Engineering, GF's Godavari College of Engineering, Jalgaon, Maharashtra.425001.
Authors- 2. Harish A. Patil, Assistant Professor, Department of Electrical Engineering, GF's Godavari College of Engineering, Jalgaon, Maharashtra.425001.

Patents

1. Patent Name & No.An Efficient Approach for synchronous generator based Diesel PV Hybrid Micro grid with Power

23. Attended Expert Lecture on How To Prepare For Competitive Exams” by Mr. Vaibhav Patil, ONGC, Mumbai 17th May 2021
24. STTP-Energy management & control system for smart renewable energy remote power generation phase-IIIAnamacharya institute of tech.& science Rajampet 05/04/2021 to 10/04/2021
25. Attended AI based condition monitoring of electrical systems on 28/01/2022 to 03/02/2022 by Amrutvahini COE, Sangamner
26. Attended IEEE TECH WEB SERIES Electric Vehicles and the Way Forward, 20th June, 2020.
27. Attended IEEE TECH WEB SERIES Research Trends for Post-COVID World 8th June, 2020
28. Attended Image processing-Open CV by Pantech solutions IETE sponsored on 08 may 2020
29. Attended Online program on Jal Aaj aur Kal by Madhya Pradesh BHOJ open University ,Bhopal(Cert.No.MPBOU/2022/10) on 23 march 2022.
30. Attended Energy Conservation & Energy Efficiency for Domestic Sector 27.01.2022 organised by Bureau of Energy Efficiency (BEE), New Delhi & Maharashtra Energy Development Agency (MEDA), Pune in association with National Productivity Council (NPC), Mumbai.(Certificate no.: MEDA/NPC/Domestic/02/053) 27 Jan 2022.
31. Attended NAAC Accrediation process with effective DVV process 13 to 14 may 2022.By GHR Nagpur on 13 & 14 May 2022.
32. Participated in a one week Faculty Development Program on “Research Opportunities in Electrical Engineering and its Applications” organized by Department of Electrical and Electronics Engineering of P.S.R.Engineering College Sivakasi from 18.05.2020 to 23-05-2020.
33. Attended One week FDP on Advanced power converter in Industrial applications by SSBTS COE Bambhori on date 28 april to 2 may 2020.
34. Attended online 3 days short term training program on software as service organised by computer science and Engineering annasaheb Dange college of technology aashta from 5 to 7 June 2020.
35. Attended Webinar on power system and components by KK wagh College of

<p>Quality Controller. Application Number 202521042983, PUBLICATION DATE (U/S 11A) 23/05/2025.</p> <p>2. Patent Name & No. Grid-Connected Hybrid PV-Wind-Battery Based System for House Hold Applications. Application Number 202521042999, Publication Date (U/S 11A) 30/05/2025.</p> <p>3. Patent on Charging Station For Hybrid Electric Vehicle. Design No. : 419578-001, Date : 11/06/2024</p>	<p>Engineering education and research Nashik on 26 may 2020</p> <p>36. Attended on holistic approach towards reactive power and harmonic distortion management to avail benefits of kvah billing by KK Wagh institute of Engineering education and research Nashik on 30 May 2020</p> <p>37. participated in the Two-week on-line Faculty Development Program on Research Opportunities in Electrical Engineering Under Technical Education Quality Improvement Program (TEQIP-III) organized by Department of Electrical Engineering during May 7-16, 2020. By Government College Of Engineering, Karad</p> <p>38. participated in the Webinar on “RECENT TRENDS IN E-VEHICLE” presented by Mr.T.Parthasarathy, KPIT Technologies, Chennai, organised by Department of Electrical and Electronics Engineering of Francis Xavier Engineering College, Tirunelveli on 04.07.2020.</p> <p>39. participated in the webinar on “ Power Electronic Converters for LED Applications” presented by Dr. R. Gunabalan, Vellore Institute of Technology, Vandalur Chennai-organized by Department of Electrical and Electronics Engineering ,St .Mother Theresa Engineering College, Thoothukkudi, Tamil Nadu on 26.06.2020</p> <p>40. Participated in webinar on "Bridging The Industry-Academia Skill Gap By Mr. Parth Patel” On date: 18th July 2020 at 11.00 am Organized By Department of Electrical Engineering, GF'S Godavari College of Engineering, Jalgaon.</p> <p>41. Participated in One-week Online Faculty Development Program on “New Challenges & Issue of Indian Electricity Market for Upcoming Decade-2030” organized by Department of Electrical Engineering from 11.05.2020 to 15.05.2020. by Sandip Foundation’s Sandip Institute of Technology & Research Centre, Nashik In collaboration with MSEDCL’S Institute of Training & Safety, Eklahare, Nashik</p> <p>42. Participated in the winner role of technology transfer in driving innovation organised by R& D cell MH Sahu Siddique College of Engineering Mumbai on 30 May 2020</p> <p>43. Participated in the webinar on fundamental electromagnetic fields and co-ordinate system organised department of applied science and hummunities P.R Pote Patil College of</p>
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Engineering and management Amravati on date 16 June 2020.

44. Attended Three days online Faculty Development Program (FDP) on “Recent Developments in Electrical Transmission & Distribution System” held during 28th May to 30th May 2020 organized by Department of Electrical Engineering, GF’s Godavari College of Engineering, Jalgaon (MS)
45. Participated in the Webinar on power system earthing by sent mother Teresa Engineering College Tamil Nadu on date 25 June 2020.
- 46 Participated in the webinar “Evolution of Modern Power Systems and it’s challenges” by Dr.Ramesh Babu professor/EEE,St.Joseph College of Engineering,Chennai,organized by Department of EEE,St.Mother Theresa Engineering College,Vagaikulam ,Tuticorin on 15/07/2020..
47. participated in the webinar on “ Indian Power Grid & Market” presented by Dr.S.G.Bharathidasan,Associate Professor,Sri Venkateswara College of Engineering - organized by Department of Electrical and Electronics Engineering ,St.Mother Theresa Engineering College,Tuticorin,Tamil Nadu on 04.07.2020
48. Participated the Webinar on “ SMART METER TECHNOLOGY” by Dr.V.Saravanan, HOD/EEE,Thiagarajar College of Engineering organized by the Department of Electrical & Electronics Engineering, St.Mother Theresa Engineering College,Vagaikulam, Tuticorin on 11/07/2020.
49. participated in an online webinar on “Recent Advances In On-line Monitoring of Transformers” organized by Department of Electrical and Electronics Engineering, P.S.R Engineering College, Sivakasi in association with Doble Engineering company, U.S on 19-06-2020.
50. participating in the online “Environmental Awareness Program” on 2-6-2020 conducted by Department of Electrical Engineering, Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon, Maharashtra on the occasion of World Environment Day 2020. Certificate ID : EVN8F0-CE000004.
51. Participated in the International Webinar on the topic “Creating opportunities in the face of adversities” delivered by “Mr. Pankaj Srivastava, CEO of Practical Speak, California, USA” on June 25, 2020 organized

by Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India. (College Code: 033).

52. Participated in 4 days faculty development Webinar on real time simulation and its application in power system and power electronics by SRM University on date 10 to 13 June 2020.
53. Attended One Week International FDP on Control Theory and Applications from 29th June to 3rd July, 2020 organized by Vignam Institute of Technology & Science in Association with Telangana Academy for Skill and Knowledge (TASK).
54. Attended One week Online Faculty Development Program on “Recent Trends in Power Systems” Organised by the Department of Electrical Engineering From 22nd June 2020 to 26th June 2020. Shree Shamrao Patil (Yadravkar) Educational and Charitable Trust’s Sharad Institute of Technology College of Engineering Yadrav (Ichalkaranji).
55. Attended in TEQIP-III sponsored webinar on “Getting Started with Simulink” April 28, 2020 by Government College of Engineering, Jalgaon
56. Attended in TEQIP-III sponsored webinar on “Internet of Things using MATLAB” April 29, 2020 by Government College of Engineering, Jalgaon
57. Attended in TEQIP-III sponsored webinar on “MATLAB for Artificial Intelligence”, April 30, 2020 by Government College of Engineering, Jalgaon
58. Attended in TEQIP-III sponsored webinar on “Getting Started with MATLAB”, April 27, 2020 by Government College of Engineering, Jalgaon
59. Attended Webinar on “Machine Learning : its Applications in Engineering” organized by Department of Electrical Engineering, Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon in collaboration with ARIN International, Pune on 14 May 2020.
60. Attended webinar on Electric Vehicles and the Way Forward as part of the OPJU IEEE TECH WEB SERIES held on 20th June, 2020.
61. Participated in international online one week faculty development programme on industrial relevance of electrical engineering from 15 to 20 June 2020 organised by department of

- electrical and electronics engineering
Hyderabad college of engineering.
62. Attended Webinar on “Revised kVAh Billing System in Electricity Distribution Sector” organized by Department of Electrical Engineering, Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon in collaboration with Strom Energie Pvt.Ltd.Pune on 28 May 2020.
 63. 5 Days Workshop On Drone Orientation & Drone Assembly ,At Dronastra Energy Flights Pvt Ltd. Date 04/07/2023 To 09/07/2023
 64. One Week Faculty Development Program Sponsered By IEEE Bombay Section On ‘Machine Learning & Data Science Analytics Using Python Programming’03/06/2024 TO 08/06/2024
 65. 05 Day STTP From 11/11/2023 To 15/11/2023 Personality Development by GF’s GCOE Jalgaon
 66. Three Days (03) Online Faculty Development Program (FDP) on Artificial Intelligence and Machine learning for beginners organized by KE’s societys, Rajaram Bapu institute of tech Lohagaon Pune on date 07 to 10 Nov 2025.
 - 67 National level 06 days (1week) FDP on Research Challenges & opportunities in Electrical Engineering by JSPM Rajashri Shahu College of Engineering Pune. On date 26 to 31 may 2025.
 - 68 Attended NPTEL E-Awareness workshop 21 Jan 2025



Dr. Sachin Rambhau Maheshri

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Bhusawal Road, Jalgaon-425003, (MS) India