

Dr. Neelima Ravindra Kulkarni

Campus Address

PES's Modern College of Engineering,
1186 A Shivaji Nagar,
Pune, Maharashtra,
411005.



(020) 25533638

nrkmcoe@gmail.com

Permanent Address

Mont VertVoila,
F.No 302.Ivory Est,
Baner Road,Pune,
411008.



+91-9922711306

OBJECTIVE	To work in a progressive and stimulating work culture with the freedom to be creative, innovative and to excel and grow in area of work which will bring laurels and accolades to the organization.
QUALIFICATIONS	<ol style="list-style-type: none">1. B.E. (Electrical Engineering) from Walchand College of Engineering, Shivaji University Kolhapur in July 1985.2. M. Tech. (Electrical Engineering with Control System as specialization) from College of Engineering Pune in, SPPU Pune Dec 1998.3. Ph. D. Bharati Vidyapeeth Deemed University College of Engineering, Pune, in September 2011.
AREAS OF INTEREST	<ol style="list-style-type: none">1. Control system.2. Electrical machines.3. Renewable Energy, Power System.
COMPUTER SKILLS	<ol style="list-style-type: none">1. Operating Systems: UNIX, Linux, DOS, Windows 98/XP/7/8/10.2. Packages/Softwares/Languages: MATLAB, SCILAB, PSIM, LABVIEW, Basics of C language.
COURSES TAUGHT AT UG LEVEL:	<ol style="list-style-type: none">1. Power Electronics.2. Electrical Circuits and Networks.3. Basic Electrical Engineering.4. Electric and Magnetic Field.5. Control Systems I & II.6. Electrical Measurements and Instrumentation.7. Electrical Installation, Maintenance and Testing.
COURSES TAUGHT AT PG LEVEL:	<ol style="list-style-type: none">1. Non Liner Control System.2. Process Control Management.3. Multivariable and Optimal Control System.4. Research Methodology.5. Adaptive Control System.
ADMINISTRATIVE RESPONSIBILITIES AT UNIVERSITY LEVEL	
<ol style="list-style-type: none">1. Elected as "Member of Board of Studies" from February 2018 to May 2023.2. Member in Coordination Committee of Savitribai Phule Pune University.3. "Chairman of Coordination Committee, Board of Studies Electrical Engineering", since July 2018 to Jan 20194. Member and Chairman of syllabus revision committee of SPPU Pune.	

5. Invited as **Expert** to attend **BOS meeting** held at Cummins College of Engineering (Autonomous) in association with S P Pune University in June 2016 & January 2017.

Member of Staff Selection Committee

6. Nominated as a **member of approved panel for interviewing candidates for PhD program in Electrical Engineering under QIP held at Department of Electrical Engineering at College of Engineering Pune**
7. Nominated as an **Expert** in Electrical Engineering “**Staff Selection Committee**” for the post of Prof. /Asso. Prof. /Assistant Professor held at various colleges/institutes in and out of pune constituted under Savitribai Phule Pune University.

Member of Local Inspection Committee

8. Member of “**Local Inspection Committee**” **Research Center,UG/ PG program** Savitribai Phule Pune University

ADMINISTRATIVE RESPONSIBILITIES AT INSTITUTE LEVEL

PES's Modern College of Engineering

1. **Vice Principal**, PES's Modern College of Engineering, Pune since 2012.
2. **Head of Department** of Electrical Engineering, since 2011.
3. Working as **Professor-in-charge**, student **Grievance & internal complaint**.
4. Working as **Overall Academic Coordinator**.
5. Working as a “**Research Center Coordinator**” since **20 Nov 2008** till now.
6. Working as a member of “**Coordination Committee**” for affiliation, during admission, **since 20 Nov 2008 till now**.
7. Working as a **NBA coordinator** at college level since Jan 2018.
8. Worked as an “**Expert**” in **Energy Audit Compliance Report**.,
9. Worked as a member of **Internal Quality Assurance**.
10. Working as a “**Coordinator Skill development Program**” under “**Pradhan Mantri Kaushal Vikas Yojna**” governed by **AICTE India**.
11. Member in **Coordination Committee** of Savitribai Phule Pune University.
12. **Coordinator of permanent affiliation committee** of Electrical Engineering (PG Course) in 2015.
13. Worked as **coordinator of Research Centre Committee** of Savitribai Phule Pune University 2011.
14. Member of **Coordination Committee of permanent affiliation** of Electrical Engineering (UG Course) under Savitribai Phule Pune University 2010.
15. Member of **permanent affiliation committee of Mechanical, Computer, Electronics and Telecommunication (UG Course)** SPPU 2006.
16. Worked as **coordinator and Nominated as an Expert** in Electrical Engineering to conduct first round of Interviews of **PhD candidates for Research Center at College of Engineering Pune** under

Savitribai Phule Pune University 14th Jun 2014.

17. **External Expert for PhD candidate for Bharati Vidyapeeth Pune** Since May 2018.

18.

EXAMINATION RESPONSIBILITIES AT UNIVERSITY LEVEL

1. Appointed as an Expert for “**ME Project Evaluation**”
2. Appointed as an **Examiner for Evaluation and Viva-Voce on Dissertation of M-Tech Examination**. Bhartiya Vidyapeeth Deemed University, College of Engineering, Pune (India), Bhardiya Vidyapeeth University 02.07.2017
3. Worked as an **expert to evaluate the present work of the researchers and give guidance to them in their future work**. D.Y.Patil Institute of Engineering Management and Research Savitribai Phule Pune University under **BCUD** Section 6th July 2015
4. **Chairman, Coordinator & paper setter of PG (Control system) & UG (Electrical Engineering)** subjects in SPPU, Shivaji University Kolhapur & Bharati Vidyapeeth Deemed University,Pune.
5. **Chairman** for practical and oral examination of final year project.
6. Member of **Internal Examination Squad Committee**.
- 7.

WORKSHOP/SEMINAR ATTENDED

1. Attended two days AICTE ISTE approved induction/refresher program “Developing Multidimensional competencies in teacher” from 4/6/2018 to 9/6/2018 at modern College of Engineering Shivaji Nagar pune 5.
2. Attended **international workshop** on “**An effective use of ICT in transforming traditional learning to virtual learning**” on 8th and 9th Feb 2018.
3. Attended two days AICTE ISTE approved induction/refresher program “Strategies and Practical Approaches of Outcome Based Education and NBA process” from 12/6/2017 to 17/6/2017 at modern College of Engineering Shivaji Nagar pune 5.
4. Attended 32nd National Convention of Electrical Engineers and National Seminar on “Sustainable development in Indian power sector for next decade “on 11.11.2016 & 12.11.2016 at The Institution of Engineers (India), Pune Local Centre.
5. Attended **Syllabus revision and syllabus structure Workshop** of BE Electrical engineering (2012 Course) Department of Electrical Engineering, Bharati Vidyapeeth Deemed University College of Engineering Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 24th September 2016.
6. Attended a **methodology workshop on “Rubrics for Teaching and Learning”** Production Engineering Department, D.Y Patil College of Engineering, Akurdi, and Pune Indian Society for

Technical Education 31st May 2016.

7. Attended **syllabus revision workshop** TE- 2015 Course Department of Electrical Engineering, Marathwada Mitra Mandal's College of Engineering, karve Nagar Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 30th Sep 2016.
8. Attended **syllabus revision workshop** SE- 2014 Course Department of Electrical Engineering, ZES's Zeal College of Engineering and Research, Narhe Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 4th April 2016.
9. Worked as a **Committee Member** in " 32nd National Convention of Electrical Engineers & National Seminar on " **Sustainable Development in India Power Sector for Next Decade**" The Institution of Engineers (India), Pune Local Center 11th to 12th Nov 2016
10. Attended **Workshop** on "Revision of Syllabus for B.E. Electrical "Department of Electrical Engineering Bharati Vidyapeeth Deemed University College of Engineering Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University, 13th Oct 2015.
11. Attended **Syllabus revision Workshop** of BE Electrical Engineering (2012 Course) Department of Electrical Engineering, "PVG's College of Engineering and Technology" Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 7th Jan 2015
12. Attended **State level Seminar** on " **Emerging Trends in Electrical Engineering**" SPARK 2015" Department of Electrical Engineering, Amrutvahini College of Engineering Sangamner Ahmednagar and Savitribai Phule Pune University 27th Feb 2015
13. Attended **Two week ISTE workshop** on " **Control Systems**" Indian Institute of Technology Kharagpur National Mission on Education through ICT (MHRD) 2nd to 12th Dec 2014
14. Attended TE Electrical **Syllabus revision Workshop** {2012 Course} Department of Electrical Engineering, ZES's Dhayanganga College of Engineering and Research Narhe Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 3rd Jan 2014
15. Attended one day **Syllabus revision workshop** of Basic Electrical Engineering FE 2012 course PVG's College of Engineering & Technology Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 26th Mar 2012
16. Attended **National Level Seminar** on " **Relevance of Research in Teaching –Learning Process** Maharashtra Academy of Engineering Alandi Pune 24th March 2012
17. Attended **Syllabus revision and syllabus structure Workshop** of ME Electrical Engineering (2013 Course) Department of Electrical Engineering , AISSMS College of Engineering Pune Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University 8th Nov 2012
18. Attended **One day Workshop** on "**Library Networking in Academic Libraries**" Department of Library, (PES's Modern College of Engineering) Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 17th Feb 2012

19. A **National Seminar** on “**Relevance of Research in Teaching –Learning Process**” in march 2012
20. Attended **Workshop** on “**Revision of Syllabus for B.E. Electrical**” Department of Electrical Engineering “KK Wagh Institute of Engineering Education” Nashik Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 6th April 2011
21. Attended **Two weeks ISTE workshop**“ **Solar Photo voltaic: Fundamentals, Technologies and Application** Indian Institute of Technology Bombay National Mission on Education Through ICT (MHRD) and National Center for Photovoltaic **Research and Education (MNRE)** 12th to 22nd Dec 2011
22. Attended **Two week ISTE workshop** on “**Solar Photovoltaic**” in Dec 2011.
23. Attended **syllabus revision workshop** of Electrical Engineering TE- 2008 Course Padmashri Dr. Vithalrao Vikhe Patil Foundation’s, Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar **MIDC India**. Board of Studies-Electrical, Faculty of Engineering, Savitribai Phule Pune University. 16th Jan 2010.
24. Attended one day Interactive Workshop for Teachers on “**Inculcating Entrepreneurship in Students**” Dr.Vikha Patil Foundation’s, Center of Management Research and Development MITCON Consultancy Services LTD.14th March 2006.
25. Attended **workshop** on “**A New trends in power systems**” on 13th to15th Jan 2006.
26. Attended two days National Workshop on” Renewable Energy Sources” Department of Electrical Engineering (Bharati Vidyapeeth Deemed University College of Engineering, Pune) 12th to 13th March 2004.
27. Attended “**Workshop on MATLAB and Simulation**” Maharashtra Institute of Technoloy, Pune India soft technologies pvt ltd, Cranes software’s international limited July 2003.
28. Attended workshop on “**MATLAB and Simulation were using different SIM tools**” on 3rd &4th July 2003.
29. Attended and presented paper during **32nd Annual Convention and National Seminar** of ISTE Nitte Mahalinga Adyanthaya Memorial Institute of Technology Nitte 27th to 29th Dec 2002.
30. Attended **workshop** on **NBA Accreditation conducted by Institution of Engineers & AICTE** On 7th and 8th May 2002.
31. Attended One day **workshop** on “**Solar Energy Engineering**” Government College of Engineering Pune 411005 Savitribai Phule Pune University13th March 2001.
32. Attended Seminar on “**Solar Energy Conservation**” in February 2001
33. Attended Seminar on “**Accreditation**” at Mumbai in October 2001.
34. Attended Seminar ‘**Internet of Things**’ on March 2000.
35. Attended **two weeks ‘TQM’ in technical education** in May 2000.
36. Attended **National level seminar on “Calibration**” in April 2000.

37. Attended **30th convention of ISTE** at Ahmadabad in December 2000.
38. Attended **Two week** short-term training program in **OOMD with UML** in 1999.
39. Attended **State level convention of ISTE and seminar at Lonere**, Raigad Maharashtra in 1998.
40. Attended one week **“Induction Training program”** for teacher in November 1993.

WORKSHOP/SEMINAR ORGANISED at
Department of Electrical Engineering PES'sMCOE

1. Worked as a **“Department-in-charge, social gathering, SPANDAN”**
2. Worked as a **Convener** for **Techno Managerial Event M_PULSE**.
3. Worked as a **Convener International Seminar** on **“Recent Trends in Renewable Energy”** on 28th and 29th Jan 2016.
4. Worked as a **Convener** for **BE State Level Project Competitions**
5. Organized **Workshop** on **“Applications of ARDUINO”** on 16/02/2017.
6. Organized **workshop** on **“L&T Switchgear Training Centre, MIDC, Bhosari, for BE Students** on 26.3.2018 Pune.
7. Organised three days faculty development program on **“EPLAN, ETAP, and ANSYS”** on 25.06.2018 to 27.06.2018 at department of Electrical Engineering PES'SMCOE Pune 5.
8. Organized **“State Level Project Competition “in Association with IEEE, IE (I) & ISLE** on 03.04.2018.
9. Organized **“Solar Roof top System and Net Metering”** for TE students on 21.02.2018.
10. Organized **Seminar** on **“Thermography Images and its Analysis”** on 09/09/2017.
11. Organized **Seminar** on **“Electrical Safety Awareness”** on 10.01.2018
12. Organized **National Level Seminar on” Innovations in Electrical Engineering Research”** on 22nd to 23rd March 2013.
13. Organized **Two day workshop** on **Advance microcontroller** on 20/09/2016 21/09/2016.
14. Organized **Workshop** on **Calibration of Electrical Measuring** on 24/09/2016.
15. Organized **Workshop** on **Hand on training on PSIM software** on 3/10/2016 & 4/10/2016.
16. Organized two days' **Workshop for B.E. (1st and 2nd shift) for Switchgear and Protection held at L & T Switchgear Training Centre, BHOSARI** on 15/03/2016.
17. Organized one day **Seminar on Energy Audit & instruments** on 20th Jun 2015.
18. Organized one day **Seminar on Yoga** on 22.06.2015.
19. Organized three days **PLC & SCADA Workshop** in association with IEI student chapter on 26th, 29th, 30th SEP 2015.
20. Organized **two day Advanced Micro controller workshop** in association with IEI student chapter on 30th to 1st OCT 2015

21. Organized one day Seminar on **Electrical Machine** on 22nd Sep 2014
22. Organized one day Seminar on “**Role of Electrical Engineers in IT sector**” in association with **Institute of Engineers** on 4th Sep 2014
23. Organized one day A **workshop** on “**C Programming**” IOE MCOE Student Chapter on 7th Feb 2015
24. Organized two day **workshop** on “**MATLAB**” on 3rd & 4th Jan 2015.
25. Organized two day **workshop** on “**Smart Grid**” on 9th & 10th March on 2015.
26. Organized one day **Seminar** on” **Life of Chhatrapati Shivaji Maharaj- Shiva Charitra**” on 18th march 2015.
27. Organized one day **seminar** on **Gate Curriculum** on 28th June 2014.
28. Organized two days **Smart Grid Technologies University of Pune (BCUD)** on 23rd to 24th Sep 2013.
29. Organized two day **FDP** on **Impact of ICT on Teaching Learning Process** on 26th to 27th Aug 2013
30. Organized two day **National Seminar** on **Innovation in Electrical Engineering** on 22nd to 23rd Mar 2013
31. Organized two day **State Level workshop** “**MATLAB based Signal Processing for Electrical Engineers**” on 25th to 26th Mar 2013
32. Organized Two day **workshop** on “**Research Methodology**” IEEE Pune Section on 31st to 1st Sep 2012
33. Organized **State Level Workshop** on “**MATLAB based Signal Processing for Electrical Engineering**” on 25th to 26th Mar 2013
34. Organized one day Seminar on **Energy Audit & Conservation** on 30th Aug 2012
35. Organized workshop on “**Research Area in Electrical Engineering**” Feb 2012
36. Organized workshop on “**Utilization of software in Electrical**” April 2012
37. Convener of workshop “**Library Networking in Academic Libraries**” in Feb 2012
38. Conducted workshop on “**Staff Development Program**” along with TTTI, Bhopal from 13th to 17th October 2003.
39. Conducted lectures on “**Job opportunities/future studies in abroad and in management**” by Brainvisa.com on 1998.

GUIDANCE AT PH.D LEVEL

APPROVED PHD GUIDE

1. **Approved Ph.D guide** and currently guiding four candidates at PES’s Modern College of Engineering Pune-5 Savitribai Phule Pune University since 2014 .

GUIDANCE AT PG LEVEL PROJECT	
	<ol style="list-style-type: none"> 2. Dual redundancy based secured SCADA architecture for gas plant using IDE & PLC simulation prototype. 3. Super capacitor based energy recovery system for an elevator a case study and a prototype. 4. Design of fuzzy modified model reference adaptive control for a gas turbine rotor speed control using Takagi- Sugeno type fuzzy mechanism. 5. PIC Controller Based Power Factor Improvement and Harmonic Reduction by using Single Phase Active Power Filter: a Case Study and Prototype 6. Design& Development of temperature control system using fuzzy-PID controller 7. 3D modeling of DSLSM and its vibration analysis for EMALS 8. Fuzzy-PID based Liquid Level Control for Coupled Tank (MIMO) interacting system 9. Design and implementation of fuzzy-pid controller 10. Design and implementation of embedded fuzzy pid controller for pressure 11. Simulating optimal performance of Induction motor using ANN 12. Implementation of PSO for tuning of PID controller for DC motor speed controller 13. Wind power prediction using artificial neural network. 14. Simulation of electro hydraulic control (EHC) of governor of steam turbine 15. Automation in residential electrical load using PIC Microcontroller and ZIGBEE control 16. Comparison of mitigation of voltage sag by dynamic voltage restorer using PI, PID and fuzzy logic controller 17. Modelling and controlling of articulated robot using MATLAB and PLC 18. Modelling and control of brushless dc motor using PI, fuzzy and fuzzy-PI controller 19. Mathematical modelling , simulation and control of ball and beam system
GUIDANCE AT UG LEVEL PROJECT	
	1. Design of Mechanism for cleaning Solar panels, 2017

	2. Energy management system using solar PV, 2017 3. Automation of Smart Lighting Control in College premises, 2017 4. Front End Based Converter Power Conditioning Unit, 2016 5. Analysis of various Energy Audits 2016 6. Smart Auto Mains Failure Control Panel 2015 7. Modelling, design, simulation and fabrication of BLDC motor, 2014 8. Renewable agricultural pump 2014 9. Wind generator for household utility 2013 10. Energy Audit of PES MCOE, Pune 2012
--	--

PROFESSIONAL SOCIETY MEMBERSHIP

	1. Life time Membership of Indian Society of Technical Education-India (ISTE) LM-9182 2. Institutions of Engineers-India (IE) IEL, M-114585-6 3. India UACEE-USA 4. Life time membership of ISLE 5. IEEE membership
--	--

PATENT FILLED AND PUBLISHED

Sr.No	Title of Invention	Date of Filing	Published Date
1	Advance Ball Mill machine for grinding of electrode material for electrochemical devices.	11th July 2016	26th Aug 2016
2	Low cost portable ball milling machine for grinding of Electrode material for electrochemical device using motor cycle	10th May 2016	20th May 2016
3	Variable Super capacitor	14th July 2017	6th Oct 2017

AWARDS AND RECOGNITION

Sr.No	Name of Title	Organisation	Date
1	Reviewer for IEEE international Conference on “ Industrial Instrumentation and Control (ICIC-2015)	College of Engineering Pune.	28th to 30th May 2015
2	Reviewer international Conference on “ Information Processing “	Department of Electrical Engineering, Vishwakarma Institute of Technology Pune.	16th to 19th Dec 2015
4	Best Teacher Award for academic year 2012-13	PES' Modern College of Engineering Shivaji Nagar Pune 5	2012-13

FACULTY DEVELOPMENT PROGRAM/FACULTY TRAINING PROGRAM ATTENDED

Sr. No	Particulars	Organized At	In Association with	Date
1	Attended one week Induction/ Refresher Program on “ Strategies and Practical Approaches of Outcome based Education and NBA Process “	PES’s Modern College of Engineering	All India council of Technical Education and Indian society for technical Education, New Delhi	12/6/2017 to 17/6/2017
2	Attended one week Faculty Development Program on “ Enhanced Learning Through various audits in Electrical Engineering”	PES’s Modern College of Engineering (Department of Electrical Engineering)	Indian Society of Technical Education (ISTE), New Delhi & Indian Society of Lightning Engineers(ISLE)	24th to 30th April 2017
3	Attended Staff Development Program	D. Y. Patil College of Engineering Pune	National Institute of Technical Teachers Training and Research Bhopal	13th to 17th October 2003
4	Attended Two week Training Program in “ Object Oriented Modeling and Design with UML at this institute.	Institute of Technology for women Mumbai Maharashtra	All India council of Technical Education and Indian society for technical Education, New Delhi.	19th to 1st Dec 2001
5	Attended Two week Summer School on “ Total Quality Management in Engineering Education”	The Department of Production Engineering & Department of Mechanical Engineering	AICTE ISTE sponsored	15th May to 27th May 2000
6	Attended one week course on “ Induction Training of Teachers”	D.Y.Patil College of Engineering , Pimpri Pune 411018	Indian Society for Technical Education (ISTE)	25th to 29th April 1994

SHORT/LONG TERM TRAINING PROGRAM ATTENDED

Sr. No	Particulars	Organized At	In Association with	Date
3	Attended Continuing Education Programme Short term course on “ Control Relavant Estimations”	Department of Electrical Engineering, College of Engineering Pune	TEQIP (Networking of Institutions)	6th to 10th March 2013
1	Attended Three Day Short Term	Govt. College of	TEQIP	10th to 12th

	Training Program” Recent Trends in High Voltage Measurements and Test Techniques”	Engineering Aurangabad “Department of Eletrical Engineering”	(Networking of Institutions)	January 2006
4	Training Program “ Effective Energy Generation and Conversation System”	The Association for Overseas Technical Scholarship (AOTS), Japan	EBARA Corporation, Kirloskar Brothers Limited, The Institute of Engineers India, Ministry of Economy Trade and Industry (METI), Japan	29th Nov 2006
5	Two day Training Program in “ Object Oriented Modeling and Design with UML”	Institute of Technology for Women’s S.N.D.T. Women’s University	All India Council of Technical Education and Indian Society for Technical Education.	19th to 30th Nov 2001
6	Attended Sixth Annual Convention of Maharashtra-Goa Section of ISTE	Dr. Babasaheb Ambedkar Technological University Lonere	Indian Society for Technical Education	14th to 15th Dec 2001
2	Attended Two Days Short Term Training Program on “ Calibration”	Vishwakarma Institute of Technology, Bibewadi Pune.	-	9th to 10th March 2000

LIST OF PUBLICATION JOURNAL/CONFERENCES

1. Presented a paper on **“Appropriate technology in upliftment of rural women”** at National level conference conducted by S.G.S.T.S, Indore in October 2002.
2. Presented a paper on **“Technical Education through proper planning”** at National level conference of ISTE AT NMAM Institute of Technology, Nitte Karnataka in Dec 2002.
3. Presented a paper on **“Wind Generation unit for household utility” at national level conference on “Recent Trends in Control Systems”** at Baba Bada Singh Bahadur Engineering College FatehgarhSahib,Punjab in 2004.
4. Presented a paper on **“Reliability of Non Conventional energy sources – A case study” International conference on “Green Power 05 on sustainable energy development”** at New Delhi in Feb. 2006
5. Presented a paper on **“A case study on energy conservation” at National Conference on “Recent trends in power system and drives NCRTPSD 2006 in April 2006.**
6. Presented a paper on **“A case study on energy conservation”, “Fuzzy based steam temptation” and “A review of fan blade for wind generation”** at National Conference on “Recent trends in power system and drives NCRTPSD 2006 in April 2006.

7. Presented a paper on **“Fuzzy based steam temptation”** at **National Conference on “Recent trends in power system and drives NCRTPSD 2006** in April 2006.
8. Presented a paper on **“A review of fan blade for wind generation”** at **National Conference on “Recent trends in power system and drives NCRTPSD 2006** in April 2006.
9. Presented a paper on **“Induction generator as wind generator for household utility – A case study and development for better efficiency IEI (Pune) in 2007”**.
10. Published a paper on **“Thermography Technique”** in *Electrical India* in Feb. 2007 issue.
11. Published a paper on **“Role of Power Engineers in sustainable Development of Power Sector in India”** on HVDI transmission – Converters fault and protection on 17 and 18 Feb. 2007 IEI (Pune).
12. Published a paper on **“Induction Generator as Wind Generator”** in *Electrical India* in March 2007 issue.
13. **“Single Phase Induction Generator as wind generator- A New concept and Design”**
Accepted & presented on 28th July 2010 International Conference for Electrical Electronics and computer Engg by ACEEE. Chennai.
14. **“A Novel Concept in Design of Single Phase Induction Generator as Wind Generator for Remote Area”** *JERS/Vol II/Jan-March2011 International Journal of Engineering Research and studies (E-ISSNO976-7916) Jan 2011.*
15. **“Robotic Dispensing System”** in *Industrial Product Finder* issue, Mumbai, June 2010, Vol 38No9
“Robotic Dispensing System” “National level seminar in soft computing Techniques in Electrical Engineering, Gwalior, July 2010.
16. **“Particle Swarm Optimization based PID Controller Tuning”** International Research Conference on Recent Changes, Developments and Consequent Impact on Economy Pune 22nd Dec 2012.
17. Dr.Mrs.N.R.Kulkarni **“Controller for PMSG Wind Turbine”** National Conference, PVG Pune, 2011.
18. Dr.Mrs.N.R.Kulkarni **“A Novel Concept in Design of Single Phase Induction Generator as Wind Generator for Remote Area”** International Journal, Jan-March2011, JERS 2011, VOL:II, Issue-I.
19. Dr.Mrs.N.R.Kulkarni **“Performance verification of DC-DC buck converter using sliding mode controller for comparison with the existing controllers - A theoretical Approach”** International journal of Advances in Engineering & Technology, Vol-II, Issue-I, PP: 258-268,2012.

20. Dr.Mrs.N.R.Kulkarni ”**Particle Swarm Optimization based PID Controller Tuning**” International Research Conference on Recent Changes ,Developments and Consequent Impact on Economy.22nd Dec 2012,ISSN:2249-7455,VOL:2,ISSUE:3,PP:11-14.
21. ,Mr.D.K.Joshi, Dr.Mrs.N.R.Kulkarni ,, **Wireless home automation and control using a smart sensor** PLATROM National conference on Emerging trends in Electrical and Electronics Engineering, V.V.P. Institute of Engineering & Technology Solapur,18 Feb-2013.
22. S. A. Chougule, Prof. N. R. Kulkarni, **Robotic Dispensing System “National conference, Soft Computing Techniques** in Electrical Engineering –SCTEE-2012, 9th-10th July, 2012.
23. Dr.Mrs.N.R.Kulkarni “**A review on the control strategies used for DSTATCOM and DVR**”, International Journal of electrical, Electronics and computer Engineering, on 2013, ISSN: 22772626, VOL: II, ISSUE: I, PP: 59-64.
24. Dr.Mrs.N.R.Kulkarni ”**Three Phase Parameter Data Logging and Fault Detection using GSM Technology**” International journal of scientific and research publication, Feb2013, ISSN:2250-3135, VOL:III, ISSUE:II, PP:1-5.
25. Dr.N.R.Kulkarni, **Design and optimization of PID controller using genetic algorithm**, International journal of research in engineering & technology.,(IJRET-2013), June-2013, ISSN:2319-1163, VOL:2, ISSUE:6, PP:926-930.
26. Dr.Mrs.N.R.Kulkarni, Mrs.S.D.Joshi, Ms.S.S.Valunkar, “**Energy Management Practices in Energy Intensive Industries**”, IJERT International Journal of Engineering & Technology. (IJERT-2014) January 2014, ISSN: 2278-0181, VOL: III, ISSUE: I, PP:2655-2658.
27. Mrs.Deepa.S.Bhandare ,Dr.Mrs.N.R.Kulkarni, , “**Performance Evaluation and comparison of PID controller and fuzzy logic controller for process liquid level control, International conference on Control, Automation & Systems,(ICCAS-2015),2015, DOI:10.1109/ICCAS2015.7364848, PP:1347-1352.**
28. Prof.H.R.Shirke, Dr.Prof.Mrs.N.R.Kulkarni “**Mathematical modeling, simulation and control of ball and beam system**” International journal of engineering, research and technology (IJERT-2015), MAR-2015, ISSN: 2278-018, VOL: 4, ISSUE: 3, Pp: 834-838.
29. Dr.Mrs.N.R.Kulkarni “**Design and analysis of DSTATCOM and DVR for power system stability with Fuzzy and PI controller**” IAEPEACT-2014 International conference on innovative Approaches in “Electrical, power control Electronics Engineering and Applied Communication Technology”, 2015.
30. , Mrs.Shilpa Joshi, Mr.Bhushan Joshi, Dr.Mrs.N.R.Kulkarni “**Modeling and Simulation control of a brushless DC motor using Fuzzy-PI Controller**” , ICNTE 2015 International conference on nascent technologies in the Engineering field ,(ICNTE-2015), 2015, Reviewer no:E-02, Paper ID: 217.

31. Dr.Mrs.N.R.Kulkarni,” **Smart Meter With Different Operating Modes-A tool For Energy Conservation and Saving**“, International conference, IEI Pune, on 2015.
32. Prof. Mrs. ShilpaD.Joshi, Ms.ShrutiValunjkar, Dr.Mrs.N.R.Kulkarni, “**Hardware and Simulation Study of MPPT Charge Controller for Non-Conventional Energy Sources** International Conference on Industrial Instrumentation & Control.,(ICIIC - 2015),DOI:10.1109/II/C2015.7150799, PP:529-534.
33. Prof. Mrs. ShilpaD.Joshi, Ms.ShrutiValunjkar, “ **Implementation of maximum power point tracking charge controller for renewable energy**” International Conference on advance communication control & computing technologies (ICACCCT-2014), DOI:10.1109/ICACCCT2014.7019441, PP:255-259.
34. Mrs.Deepa.S.Bhandare, Mr.HatizShaikh, Prof.Dr.Mrs.N.R.Kulakrni, “**Design & implementation of Self Tuning Fuzzy -PID Controller for process liquid level control**”, Recent Trends in computing, Communication & science (ICRTCCS-2016) International institute of Information technology 8-9 JAN 2016, ISSN:978-2-642-24819-9, PP:19-24.
35. Prof. Mrs.Gayatri K Palnitkar And Dr.N.R.Kulkarni “**Study of Fuzzy Logic Controller and Its Application to pH Neutralization Plant**, International Research Journal of Engineering and Technology, (IRJET -2015), SEP 2015, e-ISSN: 2395-0056, p-ISSN: 2395-0072, VOL:02, ISSUE:06.
36. Mrs.Deepa.S.Bhandare, Mr.HatizShaikh, Prof.Dr.Mrs.N.R.Kulakrni, **Advanced Fuzzy Logic tools for industrial control application -A survey** Recent Trends in computing Communication & science (ICRTCCS-2016) International institute of Information technology, 8-9 JAN 2016, ISSN:978-2-642-24819-9,PP:19-24.
37. Mrs.Deepa S.Bhandare,Dr.Mrs.N.R.Kulkkarni **Design Of An Embedded Fuzzy Co-ordinated PID Controller For Pressure And Liquid Flow Control Process (SISO and MIMO)** EEE 15th International Conference on Control, Automation and Systems (ICCAS 2015) at BEXCO, Busan, Korea, October 15, 2015.
38. Mrs.Deepa S.Bhandare,Dr.Mrs.N.R.Kulkkarni ” **Design of an embedded fuzzy coordinated PIDController For Pressure And Liquid Flow Control Process (SISO and MIMO)** National Conference Innovation 2015,Regional research conference, board of college and university development, Pune ,July 6th 2015.pp.72.
39. Mrs.Deepa S.Bhandare, Dr.Mrs.N.R.Kulkkarni, “**Design of an Intelligent Pressure Control System Based on the Fuzzy Self-tuning PID Controller (ICRTCCS)**”, International Journal Of Recent Advances in Engineering & Technology (IJRAET), IRD INDIA, 2016,Volume 4, Issue 8,pp.16-20.

40. Mrs.Deepa S.Bhandare,Dr.Mrs.N.R.Kulkkarni, **Design of an Intelligent Pressure Control System Based on the Fuzzy Self-tuning PID Controller (ICRTCCS)**,International Journal Of Recent Advances in Engineering & Technology (IJRAET), IRD INDIA, ,Issue 7,pp. 150-155,2016,Volume 4, Issue 7,pp.150-155.
41. Mrs.Deepa S.Bhandare, Dr.Mrs.N.R.Kulkkarni,"**Performance Evaluation and Comparison of PID Controller and fuzzy logic controller and Process liquid level control** 15th International Conference on, Control automation and system (ICCAS) 2015, 13-16th OCT 2015, 10.1109/ICCAS20157364848, ISSN: 2093-7121.
42. Mrs.Deepa.S.Bhandare,Mr.HatizShaikh,Prof.Dr.Mrs.N.R.Kulakrni"**Design & implementation of Self Tuning Fuzzy -PID Controller for process liquid level control**", Recent Trends in computing Communication & science (ICRTCCS-2016), International institute of Information technology, ISSN:978-2-642-24819-9, PP:19-24, 8-9 JAN 2016.
43. Mrs.Deepa.S.Bhandare, Mr.Hatiz Shaikh, Prof.Dr.Mrs.N.R.Kulakrni "**Advanced Fuzzy Logic tools for industrial control application -A survey**", Recent Trends in computing Communication & science (ICRTCCS-2016), International institute of Information technology, ISSN: 978-2-642-24819-9, PP: 19-24, 8-9 JAN 2016.
44. Mrs.Deepa.S.Bhandare,Mr.HatizShaikh,Prof.Dr.Mrs.N.R.Kulakrni"**Design & implementation of Self Tuning Fuzzy -PID Controller for process liquid level control**", IRD-India, International Journal of Recent Advances in Engineering & Technology (IJRAET), ISSN (Online): 2347 – 2812, Vol:4,Issue 7, PP:131-135, 2016.
45. Mr.Hatiz Shaikh, Prof.Dr.Mrs.N.R.Kulakrni" **Fuzzy-PID Based Liquid Level Control for Coupled Tank (MIMO) Interacting System**" Publisher Springer, Singapore International Conference on Smart Trends for Information Technology and Computer Communications, DOI: 10.1007/978-981-10-3433-6_23, ISBN: 978-981-10-3432-9, PP: 188-195, 27 December 2016.
46. Mr.Hatiz Shaikh, Prof.Dr.Mrs.N.R.Kulakrni" **Computational Analysis of Water level Control using Fuzzy-PID for Coupled tank (MIMO) Interacting system**", International Journal of Advanced Information Science and Technology (IJAIST), ISSN: 2319:2682, DOI:10.15693/ijaist/2016.v5i6.1-6, Vol.5, Issue 6, PP:1-6, June 2016.
47. Mrs.Deepa.S.Bhandare,Prof.Dr.Mrs.N.R.Kulakrni" **Design of an Intelligent Pressure Control System Based on the Fuzzy Self-tuning PID Controller**", International Journal Of Recent Advances in Engineering & Technology (IJRAET), IRD INDIA, ISSN (Online): 2347 – 2812, Volume 4, Issue 8, PP:16-20, 2016.
48. Mrs.Deepa.S.Bhandare,Prof.Dr.Mrs.N.R.Kulakrni" **Design of an Intelligent Pressure Control System Based on the Fuzzy Self-tuning PID Controller**", International Journal Of Recent

Advances in Engineering & Technology (IJRAET), IRD INDIA, ISSN (Online): 2347 – 2812, Volume 4, Issue 7, PP:150-155, 2016.

49. Dr.Mrs.N.R.Kulkarni Mr.Manoj M Kharade” **Automation in speed control and over current protection of three phase induction motor**”, International journal on instrumentation & Control Engineering, Volume 4, Issue 2, PP:1-6, 2016.
50. Mrs.Deepa.S.Bhandare,Prof.Dr.Mrs.N.R.Kulakrni” **Design of an Intelligent Pressure Control System Based on the Fuzzy Self-tuning PID Controller**”, International Conference on Recent Trends in Computing , Communication and Science, International institute of Information Technology, 2016.
51. Dr.Mrs.N.R.Kulkarni,Mr.Rushikesh Bagade,”**Design and Development of Temperature control System using Fuzzy PID Controller**”Dhyanmay-2017,2395-7484,36-40.
52. Mohan.H.Pokale, Prof.Dr.Mrs.N.R.Kulkarni, ”**Modelling and simulation of photovoltaic module using MATLAB/Simulink in Dr.Babasaheb Ambedkar solar project**” OSMANABAD, Maharashtra, The institution of Engineer’s-Pune Local center, Sep 2017, 978-81-924990-2-4, Tech-38,217-222.
53. Juilee Dhole,Neelima. Kulkarni, Arbind Kumar, Jagruti Borse “**Double Sided Linear Induction Motor Modeling in 3D for EMALS**” International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering September 2017, 2278 – 8875, DOI:10.15662/IJAREEIE.2017.0609026, Volume 6, Issue 9, 6823-6829.
54. Jagruti Borse,Neelima. Kulkarni, Arbind Kumar, Juilee Dhole “**3D Modeling of Double Sided Linear Synchronous Motor for EMALS** ”International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) August 2017,2278-2540,Volume 6,Issue 8,7-10.
55. Dr.Mrs.N.R.Kulkarni, “**Energy Audit of Energy Conservation of various sectors**” fourth international conference on Science, Technology & Management (ICSTM-2017), Volume 6, Issue: 11, November 2017, ISSN 2348-117X at IETE, Pune, Maharashtra, India.
56. Seema Mathew, Pooja Mogare, Rohan Chouthai, P.B.Karandikar, N.R.Kulkarni “**Super capacitor based energy recovery system for an elevator**”.
57. Mrs.S.C.Choudhary, Prof.Dr.Mrs.N.R.Kulkarni, “**Dual redundancy based secured SCADA Architechure for gas plant using IDE & PLC Simulation**” at international journal for scientific research and development, Vol 6, Issue 02, 2018.

FUNDED PROJECTS & QUALITY IMPROVEMENT PROGRAM

1. Worked as a Co-Investigator for project “**Design control and comparative studies of various topologies of ZSI fed RL Load**” fetch a grant of Rs 1,30,000/- funded under BCUD Savitribai Phule Pune University.
2. Worked as a Co-Investigator for project “**Positioning of Platform for launching of object by application of integrated brushless D. C. Motor Panel**” fetch a grant of Rs 1,70,000/- funded under BCUD Savitribai Phule Pune University.
3. Worked as a Co-Investigator for project “**Design of Embedded Fuzzy coordinated P I D Controller for Pressure and Liquid Flow Control Process (SISO) system and Multivariable Process Control (MIMO)**” fetch a grant of Rs 2,00,000/- funded under BCUD Savitribai Phule Pune University.
4. Worked as a convener for “ **Pradhan Mantri Kusal Vikas Yojana (PMKVY-TI) courses (Solar PV Installer- Electrical, Plumber General, and Waste Water Treatment Plant Technician approved by AICTE.**
5. Worked as convener for **One day workshop on “Advance Microcontroller”** and fetch a grant of Rs 60,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.
6. Worked as convener for **One day Workshop on “ME syllabus revision”** and fetch a grant of Rs 20,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.
7. Worked as convener for **International Seminar “Recent trends in Renewable Energy System”** and fetch a grant of Rs 3,00,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.
8. Worked as convener for **Two day workshop on “Smart Grid Technologies”** and fetch a grant of Rs 1,00,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.
9. Worked as convener for **National level seminar on “Innovations in Electrical Engineering Research”** and fetch a grant of Rs 50,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.
10. Worked as convener for **Two days workshop on “MATLAB based signal processing for Electrical Engineering”** and fetch a grant of Rs 25,000/- from Savitribai Phule Pune University under Quality Improvement Program held at Department of Electrical Engineering PES’s Modern College of Engineering.

11. Worked as convener for **One week Faculty Development Program on “Enhance Learning through various Audits in Electrical Engineering”** and fetch a grant of Rs 75,000/- under **Quality Improvement Program** held at Department of Electrical Engineering PES’s Modern College of Engineering.



Prof. Dr. Mrs. N.R. Kulkarni
Vice Principal and HOD,
Department of Electrical Engineering
PES's Modern College of Engineering Pune-5

p/f: 02025533648-215 m: 9922711306 a: 1186/A, Off J.M.
Road, Shivaji nagar, Pune, Maharashtra 411005
w: <https://moderncoe.edu.in/> e: hodelect@moderncoe.edu.in,
nrkmcoe@gmail.com