

Bio-Data

Dr. A. S. Koshti

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Present Position Associate Professor
Department/College Electrical Engineering Department
Gokhale Education Society's R. H. Sapat College of
Engineering, Management Studies and Research, Nashik

Education	<ul style="list-style-type: none">• Passed High School (10th) certificate examination securing 75.38%• Passed Higher Secondary School(12th) examination securing 68.23%• Graduated in Electrical Engg. (BE) in the year 2001 with 79.23% (Honors) from SGSITS, Indore under RGPV, Bhopal(M.P)• Postgraduate (ME) in Electrical Engg. (Power Electronics) from SGSITS, Indore under RGPV, Bhopal in the year 2003 with 88.96% (Honors).• Awarded Ph.D. in the area of Power Systems(Electrical Engineering) with title 'Distributed Generation Capacity Planning and Optimization' on 23rd August 2012 from UIT, RGPV, Bhopal (M.P.)
Work experience	<p>Total Teaching experience is 19 years as follows:</p> <ul style="list-style-type: none">• Worked as Lecturer in Electrical Engg. Dept, SGSITS, Indore from 13th Aug-2001 to 30th July 2003 (2 years).• Worked as Lecturer in Electrical & Electronics Engg. Dept. at MITM, Indore from 18th July 2005 to 14th June 2006 (11 months).• Worked as Lecturer in Electrical Engg. Dept. at CITM, Indore from 19th June-2006 to 14th Feb-2008 (1 year 8 months).• Worked as Reader in Electrical & Electronics Engg. Dept. at IES, IPS Academy, Indore from 15th Feb-2008 to 12th Jan-2012 (3 years 11 months).• Worked as Associate Professor in Electrical & Electronics Engg. Dept. at SVCE, Indore from Jan-2012 to July-2014 and as Professor from July-2014 onwards July-2016. (16.01.2012-15.07.2016)-4 years 6 months

	<ul style="list-style-type: none"> • Worked as Associate Professor in Symbiosis University of Applied Sciences, Indore (M.P.) from 19 July-2016 to 30 June-2017 (11 months) • Presently working as Associate Professor in Gokhale Education Society's R. H. Sapat College of Engineering, Management Studies and Research, Nashik from 25.07.2017 to till date. (5 Years)
Other Activities & Achievements	<ol style="list-style-type: none"> 1. Currently research is being pursued in the area of Power System Optimization, Reliability Engg. and Artificial Neural Network applications to Power system. 2. Reviewer of International Journal of Electrical Power and Energy Systems (Science-Direct, Elsevier). 3. Reviewer in IET- Generation, Transmission and Distribution. 4. Reviewer in Institution of Engineers, India (series-B). 5. Professional Membership details-Member, Institution of Engineers, India from 31.03.2016. 6. (Award-Union Ministry of Energy department of power prize certificate with Gold medal) by Institution of Engineers, India for best paper in Journal of Institution of Engineers, Series-B (Springer) in Dec-2013 (details is given in annexure-A) 7. (Award-Pandit Madan Mohan Malviya Memorial Prize certificate with Gold medal) by Institution of Engineers, India for best paper in Journal of Institution of Engineers, Series-B (Springer) in Dec-2015 (details is given in annexure-A) 8. Certificate of Appreciation from Institution of Engineers, India for reviewing a paper which is downloaded from all across of globe (8 DEC 2015). <p>For the conceptual clarity of students developed following projects-</p> <ol style="list-style-type: none"> 1. Demonstration for Real Power flow along the transmission line model concept is developed. 2. Energy meter or Wattmeter testing for different power factor concept is developed. 3. Phase shifting circuit concept is developed which can demonstrates a

	<p>phasor rotating 0-360°</p> <ol style="list-style-type: none"> 4. Developed Inductor with Design 5. Developed Transformer with Design (small rating) etc. 6. Developed Lab Manual for working on dSpace Platform which enables to interact in dspace platform & executed U.G. projects on dspace platform & students published papers also in journals & conferences based on this platform. 7. Helped for Several PBL Projects execution & Testing in the department for S.E. students. 								
Courses taught (UG Level)	<ul style="list-style-type: none"> • Electrical Measurement & Instrumentation • Network Analysis • Power Systems • Computer Application to Power System. • Soft Computing Techniques and applications • Faults and System Protection. • Electrical Machines. • Computer Aided Electrical Machine Design 								
Research Publication /Programs attended	<p>Research papers published in national/International Journals, Conferences and programs attended. (Annexure-A, B & C)</p> <table border="1"> <tr> <td>International Journal-08</td><td>National Journal-09</td></tr> <tr> <td>International Conferences- 06</td><td>National Conferences-04</td></tr> <tr> <td>Book Chapter-03</td><td></td></tr> <tr> <td colspan="2">Programs attended (workshop/seminar) -23</td></tr> </table>	International Journal-08	National Journal-09	International Conferences- 06	National Conferences-04	Book Chapter-03		Programs attended (workshop/seminar) -23	
International Journal-08	National Journal-09								
International Conferences- 06	National Conferences-04								
Book Chapter-03									
Programs attended (workshop/seminar) -23									

Place: Nashik

(Dr. A. S. Koshti)

Date: 27.06.2022

ANNEXURE – A
Research Publications
List of papers published/accepted/communicated

Google Scholar citations		Scopus Citations	
Total citation	: 276	Total citation	: 183
h-index	: 06	h-index	: 05
i-10 index	: 04		

Recent Publications:

1. S.S. Halve, Rajesh Arya, Atul S. Koshti, 'Metaphor-less RAO-3 and Sine Cosine Algorithm for Optimal Sizing of DG's of Multiple Types in Radial Distribution system', Electrica Journal (Expanded SCI & Scopus), 2022. **Accepted.**
2. Two other research papers are under review for publication in Journal of institution of Engineers, India (Scopus indexed) under Springer and Journal of Operation and Automation in Power Engineering (Scopus indexed) with Ph.D. student Ms. S.S. Halve. **Under Review**
3. S.S. Halve, Rajesh Arya, Atul S. Koshti, 'Metaphor-less RAO-1 Optimization based algorithm to determine shunt capacitor capacity in distribution system, IEEE international conference CSNT 2022, SGSITS, Indore, 23-24 April 2022.
4. Mamata S. Patil, A.S. Koshti, 'Symmetrical Pulse Width Modulation technique for Harmonic elimination in PWM AC Voltage regulator using random Search Method, Lecture Notes in Electrical Engineering, Springer, 2022. **(BOOK CHAPTER) FINAL STAGE of PUBLICATION.**
5. Vishal R. Wagh, A.S. Koshti, 'Evaluation of Series Voltage Injection Using Genetic Algorithm for Constant Load End Voltage, Lecture Notes in Electrical Engineering, Springer 30.04. 2022, Vol. 836, pp. 209-221. **(BOOK CHAPTER).**
6. DB Ghorpade, AS Koshti, SS Halve, 'Reduction of Selective Harmonics in PWM AC Chopper Using Teaching–Learning-Based Optimization', Advances in Power and Control Engineering, Lecture Notes on Electrical Engineering, Springer, 2020, pp. 229-237. **(BOOK CHAPTER)**
7. V. Naphade, V. Ghate, A. Koshti, G. Dhole, 'Performance Investigation and Reactance Statistics with Monte Carlo Simulation of Saturated Core Fault Current Limiter', 2020 IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC), Nagpur, pp. 1-6.
8. S.S. Halve, A. Koshti and R. Arya, 'Statistical Analysis for Active Power Loss Incorporating Distributed Generation in Distribution System', IEEE conference ICECA 2019, Coimbatore, pp. 1185-1189.
9. Ashwini Tidke and A. Koshti, 'Differential Evolution based Voltage Injection Scheme for Maintaining Constant Load Voltage', IEEE conference ICECA 2019, Coimbatore, 2019, pp. 800-803.

Recognized publications in Reputed Journals/International Journals:

International Journal of Electrical Power & Energy Systems (Elsevier-Science Direct)

1. L.D. Arya, Atul Koshti, Anticipatory load shedding for line overload alleviation using Teaching learning based optimization (TLBO), International Journal of Electrical Power and Energy Systems, Vol. 63, Dec 2014, pp. 862-877. **(Impact Factor- 3.432) ISSN: 0142-0615**
2. L.D. Arya, Atul Koshti and S.C. Choube, 'Frequency-Duration analysis of composite distribution system using a non sequential Monte Carlo simulation', International Journal of Electrical Power and Energy Systems, Vol. 46, March 2013, pp. 17-25.**(Impact Factor- 3.432) ISSN: 0142-0615**
3. L.D. Arya, Atul Koshti and S.C. Choube, 'Distributed Generation planning using Differential evolution accounting voltage stability consideration', International Journal of Electrical Power and Energy Systems, Vol. 42, No 1. , November 2012, pp. 196-207.**(Impact Factor- 3.432) ISSN: 0142-0615**

Journal of Institution of Engineers, India (Series-B) Springer

1. L.D. Arya, Atul Koshti, 'Modified Shuffled Frog-Leaping Optimization Algorithm based Distributed Generation rescheduling for loss minimization', Journal of Institution of Engineers, India: Series-B (Springer edition), August-2018, Vol. 99, No. 4, pp 397-405. **ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version)**
2. Atul Koshti, L.D. Arya and S.C. Choube, 'Static load model determination using functional approximation based on Gaussian pulses and its comparison with ZIP load model', Journal of Institution of Engineers, India: Series-B (Springer edition), April 2014, Vol. 95, No. 2, pp 129-133. **(Award-Pandit Madan Mohan Malviya Memorial prize) (Gold Medal with certificate) ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version)**
3. Atul Koshti, L.D. Arya and S.C. Choube, 'Voltage stability constrained distributed generation planning using Modified Bare bones particle swarm optimization', Journal of Institution of Engineers, India: Series-B (Springer edition), Vol. 94, no. 2, June-August 2013, pp. 123-133. **ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version)**
4. L.D. Arya and Atul Koshti, 'Probabilistic Simulation Approach for Distributed Generation (DG) Capacity Evaluation using Artificial Neural Network Representation of Load Duration Curve', Journal of Institution of Engineers (India) Series B (Springer edition), Vol. 93, No. 1, March-May 2012, pp. 57-62. **(Award-Union Ministry of Energy department power prize certificate) (Gold Medal with certificate) ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version).**

Journal of Institution of Engineers, India

1. L.D. Arya and Atul Koshti, 'Distributed generation capacity reliability evaluation using safety index', Journal of Institution of Engineers, India, Pt-El, Vol. 89, December 2008, pp. 3-7.

2. L.D. Arya and Atul Koshti, 'Identification of static load models using artificial neural networks', Journal of Institution of Engineers, India, Pt-El, Vol. 88, March 2008, pp. 28-31. **ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version)**
3. L.D. Arya, Atul Koshti and P.K. Bhatt, 'Mitigation of harmonic content in PWM ac chopper using Particle swarm optimization (PSO) and implementation on ANN', Journal of Institution of Engineers, India, Pt-El, Vol. 87, March 2007, pp. 32-36. **ISSN: 2250-2106 (print version) ISSN: 2250-2114 (electronic version)**

ICFAI University Journal of Electrical & Electronics Engineering, India

1. Chitransh Shrivastava, Manoj Gupta, Atul Koshti, 'Load Flow Analysis for Radial Distribution System Using Forward Backward Sweep Method', IUPJEEE, Vol. 8, No.4, 2015, pp. 51-61. **ISSN: 0974-1704**
2. Atul Koshti and L.D. Arya, 'Statistical evaluation of frequency of oscillation in circuit breaker using Monte Carlo simulation', IUPJEEE, Vol. 8, No.2, 2015, pp. 62-71. **ISSN: 0974-1704**
3. D K Rai, Atul Koshti and Rajeev Gupta, 'Design of Voltage Stability Indicator Using Continuation Load Flow, Modal Analysis and Schur's Inequality', IUPJEEE, Vol. 8, No.2, 2015, pp. 7-24. **ISSN: 0974-1704**
4. Atul Koshti, L.D. Arya, Rajesh Ahirwar and Manoj Gupta, 'Statistical evaluation of restriking voltage characteristics using Monte Carlo simulation', IUPJEEE, India, Vol. VI, No. 3, July-2013, pp. 7-16. **ISSN: 0974-1704**
5. L.D. Arya and Atul Koshti, 'Adequacy assessment of a distribution system having distributed generators (DG) under extreme distributions', IUPJEEE. Pt-El, Vol. III, No. 3, July 2010, pp. 42-48. **ISSN: 0974-1704**
6. L.D. Arya and Atul Koshti, 'Distributed generation (DG) capacity planning using artificial neural network and Monte carlo simulation', IUPJEEE, Pt-El, Vol. II, No. 2, April 2009, pp. 17-27. **ISSN: 0974-1704**

Conference Papers (National/ International)

1. P. Purey, Atul Koshti and L.D. Arya, 'Evaluation of state probabilities based on deterministic criterion for a distribution system with distributed generation employing boot strapping technique', IEEE conference ICICIC-2017, 17-19 Aug. 2017, MITM, Indore.
2. Atul koshti, P. Purey, L.S. Titare and L.D. Arya, 'Reliability evaluation of distribution system accounting distributed generation using functional link network', IEEE conference ICPS-2009, Dec. 27-29, IIT Kharagpur, pp.1-6.
3. Atul Koshti, Rajesh Ahirwar and L.D. Arya, 'Distributed generation capacity optimization using local search method', AICTE sponsored National conference on Emerging Technological Trends NCETT-2010, VNS Instt. of Technology, Bhopal, March 19-20th 2010.

4. Atul Koshti, P. Purey and L.D. Arya, 'Reliability evaluation of Distribution system using Functional Link Network with Normally Distributed Capacity and Load', National conference on Challenges of power sector in 21st century, 13-14 November 2007, GEC, Jabalpur, pp. 1-4.
5. Atul Koshti, Ashish Garg and L.D. Arya, 'Evolutionary strategy based artificial neural network for identification of static load model', AEE 2006, 29-30 November 2006, MITS, Gwalior, pp. 366-368.
6. Rajesh Arya and Atul Koshti, 'Two-Membered Evolution strategy based Economic Load Dispatch', CGTTM-2011 conference, LNCT, Indore from 18-20th Aug 2011.

ANNEXURE – B

Research Based Activities

- Reviewer in “**International Journal of Electrical Power and Energy System by Science Direct (Elsevier)**”.
- Reviewer in Journal International Journal **IET-Generation, Transmission & Distribution**.
- Reviewer in Journal Of **Institution of Engineers, India Series-B (Springer)**
- Involved in Consultancy work with Akash Electricals, Nashik under Dr. G.M. Dhole, Professor, Electrical Engineering Department, R.H. Sapat College of Engineering, Management Studies and Research, Nashik.
- Invited as Reviewer in for CICON-2022 International conference on Computational Intelligence and Communication Networks. (22.05.2022)
- Invited as Reviewer in for CSNT-2022 International conference on Communication systems and Network Technology. (27.02.2022).
- Assisted as one of the Organizing Secretaries for National conference for Energy and Mobility-2021 (NCEAM-21) conducted in R.H. Sapat College of Engineering, management studies and research, Nashik.

ANNEXURE – C

List of Programs attended

Sr. No.	Category	Title	Venue
1.	FDP	A program on Teaching Methodology for development of teachers organized in SGSITS by TTTI, Bhopal for 5 days is attended (From 4-8th February 2002).	SGSITS, Indore
2.	National level Workshop	Attended National workshop TEQIP sponsored on Advances in Power Systems at SGSITS, Indore from 23-24 Feb 2007 .	SGSITS, Indore
3.	National level Seminar	Attended all India Seminar on Development of Green Fuels for Energy Security & Environmental	IES, IPS Academy, Indore (M.P.)

		Protection by IE, India (4-5th September 2009).	
4.	Workshop	Attended Workshop on Application of Soft Computing Techniques in Electrical & Electronics Engineering (ASCTEE-2009) (6-7th February 2009).	in IES, IPS Academy, Indore (M.P.)
5.	Workshop	Attended Workshop on MATLAB and SIMULINK (4-5th November 2011).	IES, IPS Academy, Indore (M.P.)
6.	FDP	A program MISSION-10 X by WIPRO Organized in SVCE, Indore is attended for 3 days along with DEL CARNEGIE certification for technical teachers improvement program. (28 May-1st June 2012).	SVCE, Indore (M.P.)
7.	National level Conference	Organized a National Conference on “ Advances in Electrical, Electronics & Communication Engineering ” on 15.02.2014.	SVCE, Indore (M.P.)
8.	12 Week Course NPTEL	12 Week NPTEL Course on Fundamentals of Electrical Engineering with Silver Elite Medal (July-Oct 2019)	NPTEL
9.	2-Day Workshop	Attended Renewable Energy Systems: Design and Challenges (09-10th August 2019)	Electrical Engineering Department, RHSCOEMSR, Nashik
10.	2-Day National Level Seminar	Attended Energy Storage Systems: Design and Challenges (24-25th January 2020)	Electrical Engineering Department, RHSCOEMSR, Nashik
11.	(Invited As Speaker) ‘ANN Application to Electric circuits’	As Speaker delivered Lecture in TEQIP-III (30.01.2020)	Shiv Kumar Singh College, Burhanpur
12.	Tata Steel capability development course (TSL)	Instrument and Control System (20.05.2020)	tatasteelelearning.com
13.	FDP	Attended Webinar on Ansys 29.04.2020 06.05.2020, 11.05.2020	Ansys Webinar
14.	3 days FDP	3 days FDP on AI & Machine Learning Applications in Power Systems in KK wagh Institute of Engineering Education & Research, Nashik (1-3 June 2020)	EED, KKWIEER, Nashik
15.	(Invited As Speaker) ‘ANN Applications to Electrical Engineering’	3 days FDP on AI & Machine Learning Applications in Power Systems in KK wagh Institute of Engineering Education & Research, Nashik (1-3 June 2020)	EED, KKWIEER, Nashik
16.	1-day FDP	Faculty Orientation Program on Curriculum	SIT Lonavala

		Implementation of Electrical Engineering-SE Electrical 2019 Course-Electrical Measurement and Instrumentation on 25.06.2020	(Department of Electrical Engineering)
17.	3-Day FDP	Awareness of e content development at GES 25-27 June 2020	Gokhale Education Society, Nashik
18.	1-day FDP	Faculty Orientation Program SE Electrical Engineering-2019 Pattern Sem-II- on 27.03.2021	PES's Modern College of Engineering Pune
19.	1 Week National Level FDP	Attended FDP on on Essentials of Data Science (27-31 July 2021)	Computer Engg. Deptt., RHSCOEMSR, Nashik
20.	Short Term Training Program (STTP)	STTP on Ansys Low Frequency Electromagnetics (26-30 July 2021)	EED, KKWIEER, Nashik
21.	Webinar	Machine Learning (18.09.2021)	SVVV, Indore
22.	Two days online FDP	Power System Design & Analysis using DigSILENT Power factory software, on 08-09 march 2022.	Germany in Association with M/S DELLSOFT Technologies Pvt. Ltd., New Delhi
23.	One day online FDP	Microgrid System Design & Simulation using HOMER Pro & HOMER Grid software, on 10th March 2022.	USA in Association with M/S DELLSOFT Technologies Pvt. Ltd., New Delhi
24.	MathWorks Webinar	Attended MathWorks Webinar on Enabling Project Based Learning with MATLAB, simulink & Target Hardware conducted by Design Tech Systems Pvt. Ltd. on 12th March 2022.	Design Tech Systems Pvt. Ltd.
25.	IPR Awareness program under NIPAM	IPR Awareness program under NIPAM on 21.07.22.	RHSCOEMSR, Nashik