

**Name** Dr. Aswant Kumar Sharma

Designation Assistant Professor  
Department Electrical Engineering  
Date of Joining the Institute 21/11/2022  
Education Ph.D. in Electrical Engineering  
M. Tech. in Power Systems  
B.Tech. in Electrical and Electronics Engineering  
Branch / Specialization Power Systems  
Model Order Reduction, Soft Computing Techniques, IR and  
Areas of Interest RF switching, Smart grid, metaheuristic algorithms in MOR  
Area.  
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Personal Homepage link



#### Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 21/11/2022 to 6/6/2023 8/6/2023 to till now	Assistant Professor
Total Experience – 7 Months		

#### Students projects Guided

1. Arduino and GSM Based Prepaid Energy Meter with Theft Alert. Year 2022- 2023.

#### Papers Published

#### Papers Published in National / International Journals - 05

##### International Journals – 05

1. D. K. Sambariya, A.K. Sharma and T. Gupta, “Order reduction of air core transformer using continued fraction,” *Journal of Engineering Sciences and Technology (JESTEC)*, vol. 14. pp. 253-264,1-3-2019. ISSN:1823-4690. Accession Number: WOS: 000458618600018. IDS Number: HL3MC ESCI and Scopus indexed.  
Link : [jestec.taylors.edu.my/Vol 14 issue 1 February 2019/14\\_1\\_18.pdf](http://jestec.taylors.edu.my/Vol%2014%20issue%201%20February%202019/14_1_18.pdf)
2. A.K. Sharma and D.K. Sambariya, “Mixed Method for Model Order Reduction Using Meta Heuristic Harris Hawk and Routh Hurwitz Array Technique,” *Indian Journal of Science and Technology*, vol. -14, pp2380-2390, 28-08-2021. DOI: [10.17485/IJST/v14i28.1054](https://doi.org/10.17485/IJST/v14i28.1054). Listed in WOS .  
Link : [Mixed Method for Model Order Reduction Using Meta Heuristic Harris Hawk and Routh Hurwitz Array Technique \(indjst.org\)](https://www.indjst.org/).

3. A. K. Sharma and D.K. Sambariya, "Model Reduction Using Harris Hawk Algorithm and Moment Matching," *Achieves of Electrical Engineering* vol. 70(278)-4, 2021. WOS: Clarivate analytics, Scopus, Thomson Reuters-ESCI with major indexing.  
Link: [Model reduction using Harris hawk algorithm and moment matching \(infona.pl\)](#)
4. Mutluri, R. B., A. Kumar Sharma, and V. K. Gali. "Solar Photovoltaic Grid Interconnection for Power Quality Enhancement at Distribution Level."  
Link: [paper\\_1207-libre.pdf \(d1wqtxts1xzle7.cloudfront.net\)](#)
5. D. K. Sambariya , Omesh Nagar , Aswant Kumar Sharma , "Application of FOPID Design for LFC Using Flower Pollination Algorithm for Three-Area Power System," *Universal Journal of Control and Automation(CEASE PUBLICATION)*, Vol. 8, No. 1, pp. 1 - 8, 2020. DOI: 10.13189/ujca.2020.080101. Link: [UJCA1-15014865.pdf \(hrpub.org\)](#)

### Papers Presented/Published in National/ International Conferences - 06

#### International Conferences – 06

- [1] D. K. Sambariya and A.K. Sharma, "An efficient approach for stability preservation in model order reduction using moment matching technique" in *International conference on Computer, Communication and Electronics(Comptelix)*, 2017 pp 478-483 **DOI:** [10.1109/COMPTELIX.2017.8004017](#).
- [2] A. K. Sharma and D. K. Sambariya, "Mixed Method Application in Order Reduction of Discrete System," presented at *3<sup>rd</sup> I.E.E.E. International Conference on Recent Trends in Electronics, Information & Communication Technology*, Bangalore, India 2018. **DOI:** [10.1109/RTEICT42901.2018.9012361](#).
- [3] A. K. Sharma and D. K. Sambariya, "Analysis of Novel Hybrid Method for Linear Higher Order Reduction " presented at *International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC)*, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Sri Jayendra Saraswathi Enathur, Kanchipuram, Tamil Nadu, India - 631 561., 2019. (**Accepted**).
- [4] A. K. Sharma; and D. K. Sambariya, "Analysis of Moment Matching Technique for Model Order Reduction " presented in *ICRDET-2019*, Jaipur, 2019. Link: <https://anandice.ac.in/icrdet/images/p.pdf>.

#### Book Chapter

- [5] A. K. Sharma and D. K. Sambariya, "Reduction of Discrete Systems Using Hybrid Method". In: Mishra S., Sood Y., Tomar A. (eds) *Applications of Computing, Automation and Wireless Systems in Electrical Engineering. Lecture Notes in Electrical Engineering*, vol. 553. Springer, Singapore. **DOI:** [https://doi.org/10.1007/978-981-13-6772-4\\_83](https://doi.org/10.1007/978-981-13-6772-4_83).
- [6] Singh, L., Sharma, K., Sharma, A.K., Palwalia, D.K. (2020). Load Sharing in Parallel Converters Using Adaptive Voltage Control for DC Micro-grid Application. In: Hitendra Sarma, T., Sankar, V., Shaik, R. (eds) *Emerging Trends in Electrical, Communications, and Information Technologies. Lecture Notes in Electrical Engineering*, vol 569. Springer, Singapore. [https://doi.org/10.1007/978-981-13-8942-9\\_23](https://doi.org/10.1007/978-981-13-8942-9_23).

## Number of Workshops, Seminars, STTPs, FDPs Attended

### STTP / FDPs

<b>31/10/2022-04/11/2022</b>	Power Electronics For Renewable Energy applications, Certificate No: ICT-17345/22, Rajasthan Technical University, Kota, NITTTR Chandigarh.
<b>5/2/2021-9/2/2021</b>	Energy Engineering AICTE Training And Learning (ATAL) Academy Certification (No: ATAL/2021/161226810) by AICTE.
<b>7/02/2020</b>	Green Manufacturing (Certification Number: ICT:6944/20) at Rajasthan Technical University, Kota duration 03/02/2020 to 07/02/2020. NITTTR.
<b>28/may/2020</b>	MATLAB Onramp by MATLAB
<b>27-31 Dec 2019</b>	STC on “Power Electronics Converters in Grid Integration of Renewable Energy Sources” at MNIT, Jaipur, Under the aegis of NaMPET Phase-III an Initiative of MeitY.
<b>2018</b>	Control and Integration techniques for renewable energy system at Rajasthan Technical University, Kota (Ref No. TEQIP-III/RTU (ATU)/FDP/111. (TEQIP-III Sponsored) duration 21/11/18 to 25/11/18.
<b>1-Week</b>	
<b>2017</b>	Short term Course on “Embedded System Practices through ICT” NITTTR Chandigarh (MHRD India) No- ICT-2138/17.
<b>1-week</b>	
<b>2017</b>	Short term Course on “Interventions for Effective Industry-Institute Partnership through ICT ” NITTTR Chandigarh (MHRD India) No- ICT-2138/17.
<b>1-Week</b>	
<b>2017</b>	Skill Development on Thermal Power Plant Familiarization from Jan 11 to Jan 13, 2017 SI .
<b>3 Day</b>	No NPTI/NR/BDR/2017RTU/076.

### Work Shops

<b>2018</b>	Workshop on Intellectual Property Right (IPR) and Indian Patent System at Rajasthan Technical University, Kota (TEQIP-III Sponsored) duration 28/9/2018 to 29/9/2018.
<b>2 - day</b>	
<b>2017</b>	Workshop on “Power System Laboratory ” by Power Research and development Consultant on Nov 14, 2017
<b>1-Day</b>	
<b>2017</b>	Workshop on “Real Time Simulator for Power Electronics” by QUARBZ INFOTECH Pvt. Ltd, TYPHOON Hil GmbH, Switzerland.
<b>1-day</b>	
<b>2014</b>	Two week Workshop on Control Systems by IIT Kharagpur through ICT (MHRD) from 2 <sup>nd</sup> to 12 <sup>th</sup> December , 2014. Under National Mission on Education through ICT (MHRD).
<b>2 Week</b>	
<b>2014</b>	Two week Workshop on Computer Programming by IIT Bombay through ICT (MHRD) from May 20 <sup>th</sup> to 21 <sup>st</sup> June 2014. Under National Mission on Education through ICT (MHRD).
<b>2 Week</b>	
<b>2014</b>	Two week Workshop on Signal and Systems by IIT Kharagpur through ICT (MHRD) from 2 <sup>nd</sup> Jan to 12 <sup>th</sup> Jan 2014. Under National Mission on Education through ICT (MHRD).
<b>2 week</b>	
<b>2014</b>	Two week ISET Workshop on Analog Electronics by IIT Kharagpur through ICT (MHRD) from 4 <sup>th</sup> to 14 <sup>th</sup> June 2013. Under National Mission on Education through ICT (MHRD).
<b>2 Week</b>	
<b>2013</b>	Two week ISET workshop on Data Base Management Systems Conducted By IIT Bombay 21 <sup>st</sup> May to 31 <sup>st</sup> May, 2013. Under National Mission on Education through ICT (MHRD).
<b>2 Week</b>	

## Certification Course / Refresher Courses completed

1. Industrial Automation Engineer at SOFCON, Gurgaon 8<sup>th</sup> April 12 to 7<sup>th</sup> July 12.
2. Object Oriented Programming Using C++ at NIIT.
3. Skill Development on Thermal Power Plant Familiarization from Jan 11 to Jan 13, 2017 SI . No NPTI/NR/BDR/2017RTU/076.
4. Foundation of Teaching for Learning: Introduction, Commonwealth Education Trust from [Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#).
5. Online Certificate course on Electrical Vehicle Design [Certificate - Great Learning \(mygreatlearning.com\)](#).

## Professional Membership

IAENG International Association of Engineers Member Ship Number 262327 Since 25 May 2020 onwards .  
IEEE Student Membership

### College Exam Duties

1. Junior- Supervisor.

### Other Experience

### College Level Committees

1. Feedback Committee Member.

### Departmental Level Committees

1. Dept. Coordinator NAAC Criteria V.
2. Dept. Website Coordinator
3. Dept. Feedback Coordinator
4. Dept. NBA Criteria 3

### Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Basics of Electrical Engineering_Lab	F.Y. (Sem - I)	3 Months
2.	Electrical and Hybrid Electrical Vehicles	S. Y (Sem - IV)	1 sem