

Name Atma Ram
Designation Assistant Professor
Date of Joining March 01,2014
Qualification B. Tech (Electrical Engineering)
M. Tech
(Power System & Drives)
Ph.D.
Area of interest Power Electronics, Power Quality
Teaching Experience 11 Years
E-mail atma.ram12@gmail.com



Ph.D Topic Control Aspects of D-STATCOM for Power Quality Improvement

Publications:-

International/ National Journals

1. Atma Ram, Parsh Ram Sharma, Rajesh Kumar Ahuja, Performance evaluation of different configurations of system with DSTATCOM using proposed Icos ϕ technique. Indonesian Journal of Electrical Engineering and Computer Science. Vol. 25, No. 1, January 2022, ISSN: 2502-4752, DOI: 10.11591/ijeecs.v25.i1.pp1-13. (**SCOPUS IAES publisher**).
2. Atma Ram, Parsh Ram Sharma, Rajesh Kumar Ahuja, Comparative Analysis of Different System Topologies for a Fuzzy Controlled DSTATCOM for Power Factor Correction. Journal of Emerging Technologies and Innovative Research (JETIR), vol.05; no.08; pp 1314-1322; Sept.2018.
3. Atma Ram, Parsh Ram Sharma, Rajesh Kumar Ahuja, Simulation Based Case Study for Power Quality Improvement Using DSTATCOM". International Journal of Research and Analytical Reviews, vol. 06; no. 1; pp 1383-1387, Feb. 2019. E-ISSN 2348-1269, P- ISSN 2349-5138.
4. Atma Ram, PR Sharma, Rajesh Kr Ahuja, Enhancement of power quality using U-SOGI based control algorithm for DSTATCOM. Ain Shams Engineering Journal, Vol. 15, No 1, 2024. (**SCIE Elsevier**)) impact factor 4.79.
5. Atma Ram, PR Sharma, Rajesh Kr Ahuja, Yogendera Arya, A Dual Fundamental Current Extraction Controller for DSTATCOM in the Distribution System for Power Quality Improvement Under Non-Ideal Source Voltage Condition. Electric Power Components and Systems, 0(0): 1–24, 2023. (**Accepted, SCIE, Taylor & Francis**)
6. Atma Ram, PR Sharma, Rajesh Kr Ahuja, CTF-based control technique for power quality enhancement in the SPV system tied to the grid, International Journal of Ambient Energy, Vol.45, No. 1, 2024 (**SCOPUS Taylor & Francis**).

Book Chapter

1. Atma Ram, PR Sharma, Rajesh Kr Ahuja, Nitin Goel “PLL Less Control Algorithm for Power Quality Improvement in Distribution System Using D-STATCOM”, *Innovations in Electrical and Electronic Engineering, Springer* (ISBN1876-1100), pp 115-126, Feb 2020. **SCOPUS**.
2. Atma Ram, PR Sharma, Rajesh Kr Ahuja, Harmonics Mitigation Using Proportional–Resonant Controller-Based DSTATCOM in Distribution System. *Advances in Energy, Electronics and Electrical Engineering. Springer Lecture Notes in Electrical Engineering* (LNEE, volume 979) pp 131–143, may 2023. DOI: 10.1007/978-981-19-7993-4_11 **SCOPUS**

International / National Conferences

1. Atma Ram, P.R.Sharma, R.K. Ahuja, Power Quality Improvement using Fuzzy-PI Controlled D- STATCOM. *2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*, 2018,414-419. DTU Delhi.
2. Atma Ram, P.R.Sharma, R.K. Ahuja, Adaptive Control Algorithm for DSTATCOM in three phase four wire distribution systems for Power Quality Improvement, *IEEE, 3rd International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)* 2019,622-627.Amity Noida.
3. Atma Ram, P.R.Sharma, R.K. Ahuja, Control mechanism for D-STATCOM using CrossCorrelation Approach for Power Quality Enhancement in 3 phase 4 wires Distribution System. *IEEE International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE-2020)*, July 29-31, 2020, Odisha, India.
4. Amit Sharma; Atma Ram; Poonam Singhal; Nitin Goel , Power Quality Enhancement in Distribution System using Simple Peak Detection Controller Based DSTATCOM. *4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE2021)* 7-8, oct2021, 10.1109/RDCAPE52977.2021.9633392.
5. Shakuntla Boora and Atma Ram, Vehicle a Game Changer Technology in Automobile Sector- An Extensive Review. *International conference on integrated approaches in science and technology for sustainable future-2022*. 28/02-01/03/2022. JCBUST YMCA.
6. Atma Ram, P.R.Sharma, R.K. Ahuja, IRPT Based Control Technique for DSTATCOM for Power Quality Enhancement. *Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021)*. 16/04-17/04/2021. JCBUST YMCA.
7. Parbhat, Atma Ram, Rajesh Kumar Ahuja, 4.5kw IGBT Based Natural Cooled Battery Charger with an Emergency Charging Unit. *Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021)*. 16/04-17/04/2021.

JCBUST YMCA.

8. Abhishek, Anubha Gautam and Atma Ram, Improvement of power systems Transient Stability using SSSC. *Advances in power and control (AIPS-2015)*. 28/05/2015. MRIU, Faridabad.
9. Nitin Goel and Atma Ram, Performance Enhancement of MPPT Based Photovoltaic System Using Fuzzy Logic Controller. *Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021)*. 16/04-17/04/2021. JCBUST YMCA.

Short term course/Workshops/Seminar attended

Sr.No.	Title	Session	Venue/organized by
1.	Resend trends in Electronics and Communication	17-21/08/2015	JCBUST, YMCA, FARIDABAD
2.	Artificial Neural Network through ICT conduct by NTTTR	25-29/04/2016	Chandigarh
3.	Research Methodology Through ICT conduct by NTTTR	06-17/06/2016	Chandigarh
4.	big Data Analysis & Data/Text Mining Using SPSS,	19-24/10/2016	Computer engg. deptt. JCBUST, YMCA
5.	Automation: PLC & SCADA	17-21/01/2017	EL department JCBUST, YMCA
6.	Real Time Data Acquisition and Analysis Using Lab VIEW	08-12/05/2017	ECE deptt. JCBUST, YMCA
7.	Intelligent Management of Renewable Energy Technologies	18-23/01/2018	JCBUST, YMCA, FARIDABAD
8.	Recent Advances in Distribution Generation System and Management (RADGSM-18)	02-04/04/2018	KNIT, Sultanpur
9.	Modelling and Simulation of Custom power Devices for power Quality Improvement	19-23/11/2018	MNIT, Jaipur
10.	Embedded World	26-30/11/2018	JCBUST, YMCA, FARIDABAD
11.	Next Generation Power Converter Design, PWM strategy and Control	01-05/07/2019	IIT, Delhi

12.	Hands on training on design and fabrication of PCB	18-23/07/2019	JCBUST, YMCA, FARIDABAD
13.	Power Electronic converters in Grid Integration of renewal resources	26-31/12/2019	MNIT, Jaipur
14.	Basics to Advances in structural Equation modeling	17-21/02/2020	IIM Kozhikode, Kochi Campus
15.	Digital transformation in teaching learning process	14/02-06/03/2020	JCBUST, YMCA, FARIDABAD
16.	Basic Computer Skills and ICT Tools Google Classroom	10-14/07/2020	EL department JCBUST, YMCA
17.	Green Technology	18-20/07/2020	EL department JCBUST, YMCA
18.	Master class on MATLAB Simulink	23/11-22/12/20	Pantec Prolabs, India Pvt. Ltd.
19.	Language lab application for communication skill	15/04-19/04/19	Media deptt. JCBUST, YMCA
20.	Recent challenges and development in solar energy technologies and its applications	24/01-29/01/22	EL department JCBUST, YMCA
21.	Digital Circuit Implementation Using Zynq FPGA IC	16/09-20/09/19	EL department JCBUST, YMCA
22.	power quality	12/07-16/10/21	NPTEL online
23.	Electric Vehicle Techniques with OPAL-RT Solutions	20/12-25/12/21	EL department JCBUST, YMCA
24.	Power Quality and Harmonics	29/11-03/12/21	Ntttr chandigarh online
25.	power electronics application in microgrid and electrical vehicle systems	01/03-06/03/21	EL department JCBUST, YMCA
26.	Research Methodology	11/05-17/05/20	UIET,MDU, online mode
27.	Modeling and Simulation of Dynamical Systems	27/09-01/10/21	MNNIT, Allahabad, Prayagraj
28.	Power Systems and Power Electronics for Green Energy	20/09-25/09/21	EL department JCBUST, YMCA

29.	Emerging Control Methodologies and Resilience Industry 4.0 (ECMR-2023)	16/08-20/08/2023	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India.
30.	Electrical Vehicale Technologies	07/08-11/08/2023	EL department JCBUST, YMCA
31.	Modelling simulation and control of renewable energy systems	12/06-16/06/2023	NSUT, Delhi
32	Advancing Renewable Energy Technologies for Sustainable E-Mobility	29/01/2024 to 03/02/2024	EL department JCBUST, YMCA

One / two day workshop attended

Sr.no.	Title	session	Venue/Organised by
1	BARC Outreach Program on Atomic Energy:gearing up for Future organizedby BARC, Mumbai	02-03/09/2014	JCBUST,YMCA, Faridabad
2	IEEE Xplore Digital Library Awareness Workshop	16/10/2015	JCBUST,YMCA, Faridabad
3	workshop on Data Analysis organized by IEI	25/02/216	IEI, Faridabad Local Centre.
4	Learning Basics of Publishing in High Quality Journals	21/07/2020	Pt. Dean Dayal library, JCBUST,YMCA
5	MOOC digital learning	29/07/2020	JCBUST,YMCA, FARIDABAD
6	An insight into revised accreditation framework of NAAC	12/02/2020	JCBUST,YMCA, FARIDABAD
7	artificial intelligence,machine learning and robotics	19/06/2020	JCBUST,YMCA, FARIDABAD
8	Building Motivation and Nurturing opportunities	20/06/2020	EL deptt JCBUST,YMCA
9	Industry 4.0	22/06/2020	EL deptt JCBUST,YMCA

10	Research Methodology Paper Writing Online Tools	24/07/2020	EL dept. SGI, Sikar (India)
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Professional Membership

1. International Association of Engineers (IAENG) (membership no.167978)
2. The Institution of Engineering INDIA (IEI) (membership no.AM1637978)
3. The Indian Society for Technical Education (ISTE) (LM111265)
4. Indian Science Congress Association (ISCA) (membership no.L29250)

Additional duties in University/ Department

1. Working as University, Digital India cell member (since 2017)
2. University NSS coordinator (since May 2023)
3. Working as MOOC coordinator department level (since 2017)
4. Working as University, C&C cell member (since2015)
5. Participation in UG/PG admission committee.
6. Power Electronics Lab in charge (since dec.2014)
7. Works as a department NIRF coordinator in 2021.
8. Departmental TPO Coordinator (since july2022)