DR. ABRAR AHMAD

Assistant Professor [Stage-3]
Department of Electrical Engineering
Faculty of Engineering and Technology

Jamia Millia Islamia, New Delhi -110025, India.
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TEACHING PHILOSOPHY:

The subject under study must be made relevant to the students by citing relevant news and events happening around that topic. I believe this makes the subject interesting with improved retention. The ability to motivate, inspire and clear expressions (verbal and non-verbal) are the most important factors in the teaching learning process. Developing a holistic view towards life makes technical understanding more innovative and object oriented.

RESEARCH AREA:

Renewable Energy, Public Participation in Power Generation, Energy Management and Energy Geo-Politics.

EDUCATION:

Program	Uni.	Year	Pass Percentage	Remarks
PhD. Electrical Engineering [Renewable Energy]	JMI, Delhi	2016	PhD Topic: Integration challenges solutions for Renewable Energy Source	
M. Tech. Electrical Power System	C;			
Management B. Tech. Electrical Engineering	JMI, Delhi	2003	First (74%)	Absolute System
SSC (XII)	JMI, Delhi	1998	First (70%)	-
HSC (X)	JMI, Delhi	1996	Distinction (80%)	School Topper

TEACHING EXPERIENCE: [20 years Academic] + [2 years Industry]

S. N.	Duration	Dates	Designation	University / College / Institution /
1	3 years	17/07/2022-	Assistant	Department of Electrical Engineering, JMI
		continuing.	Professor [III]	
2	5 years	17/07/20 17-	Assistant	Department of Electrical Engineering, JMI
		17/07/2022	Professor [II]	
3	4 years	17/07/2013-	Assistant	Department of Electrical Engineering, JMI, New
		16/07/2017	Professor [I]	Delhi (Central University)
4	1 Year	01/08/2012-	Asstt. Professor	JRE Group of Institutions, U.P.
		16/07/2013		
5	1 year	23/08/2011-	Asstt. Professor	ITS College of Engineering and Technology, Gr.
		31/07/2012		Noida, U.P.
6	1 year	10/08/2010-	Asstt. Professor	Galgotias College of Engineering and
		22/08/2011		Technology, Gr. Noida
7	2 years	01/09/2008-	Sr. Lecturer	Al Falah University, Dhauj, Faridabad, NCR,
		09/08/2010		Haryana, India.
8	3 years	09/09/2005-	Lecturer	Al Falah University, Dhauj, Faridabad, NCR,
		31/08/2008		Haryana, India.
Total A	Academic Exp	perience = 20 yea	rs	
1.	2 year	01/07/2003-	Project Engineer	Siemens India Limited. Posted in Dhaka
		08/09/2005		Bangladesh [2003-2004]

Total Experience = 22 years

ADMINISTRATIVE RESPONSIBILITIES [JMI]:

S. No.	Position / Responsibility	Year	Duration
1	Deputy In Charge- Alumni Connect Cell, Jamia Millia Islamia	2022 onwards	2+ years
2	IQAC Nodal Officer - Electrical Engineering, JMI	2015 on wards	7+ years
3	Departmental NAAC coordinator for 2 cycle of assessment, EED- JMI	2016 onwards	4+ years
4	Prime Minister Research Fellowship (PMRF) Coordinator - EED-JMI	2020-2021	1 year
5	Assistant Proctor – JMI, New Delhi	2017-2019	2 years
6	TPO - Coordinator Electrical Engineering	2013-2014	2 years
7	Program Coordinator, "Weekly Alumni/Industry Lecture Series"	2014-2015	2 years
8	Sessional Exam Coordinator	2018-2019	1 year

COURSES TAUGHT [along with associated laboratories]

Undergraduate (EED - JMI)	Post Graduate (EED - JMI)	Visiting Faculty
Electrical Power Generation	Automation Systems	Wind Power Generation – TERI
		University, New Delhi.
Electra-mechanical Energy	Energy Management Systems	Energy Audit - M. Tech. (Energy
Conversion		Engineering) JMI.
Electrical Machines	Transmission and Distribution	Electric Vehicles and Charging
	Automation	stations - M. Tech. (Energy
		Engineering) JMI

EXPERT LECTURES / INVITED TALKS DELIVERED [Few Mentions]:

Venue	Topic	Date/Year
NPTI-Faridabad	Wind Energy Integration Challenges	05/07/2024
NPTI - Faridabad	Energy Security and Sustainable alternatives	07/07/2024
Iqbal Memorial College, Srinagar	Energy Geopolitics in Indian Subcontinent	24/12.2023
SSM College, Kashmir ONLINE	Cyber Security challenges to Indian Power Grid	25/03/2021
SECAB Inst. of Engg. Technology,	Challenges in Smart Grid Technologies: Indian	04/01/2020
Bijapur, Karnataka. ONLINE	Perspective	
SSM College, Kashmir ONLINE	Green Technologies: Development and Future Scope	18/08/2020
SECAB Inst. of Engg. Technology,	Challenges in Smart Grid Technologies: Indian	04/01/2020
Bijapur, Karnataka. ONLINE	Perspective	
Jamia Millia Islamia, Delhi	SCADA- HMI to POSOCO Employees Training	01/02/2018
TERI University, Delhi	RES power generation scenario in India	29 [/] 09/2017
Kathmandu University, Nepal.	Energy Geopolitics in Indian subcontinent	10/02/2017
SECAB Inst. of Engg. Technology,	Integration challenges and solutions for RES	09/03/2015
Bijapur, Karnataka.		
Engg Faculty, Jamia Millia Islamia, Delhi	Effective Body Language for Professional Success	27/09/2014
The Boulevard, Kulalampur, Malaysia	Renewable Energy is no more Alternative	20/09/2013
JRE Group of Institutions, Greater Noida.	Renewable Energy Quotient of India	18/03/2013

SESSION CHAIR / ORGANIZATION OF STTP - WORKSHOP - CONFERENCES ETC.

Type of Involvement	Name of Event - Venue	Dates / Duration
Session Chair	Amity University	May 2024
Workshop	JMI	18 January 2024
Session Chair	Track - New and Renewable Energy, JTA-CON, JMI, New Delhi.	16.02.2018 - 18.02.2018
Organization of GIAN	Role of Smart building energy management system in the	06.03.2018-10.03.2018
	development of smart city, JMI, New Delhi.	
Organization of National Conference	National Conference on Emerging Trends in Electrical and	02.02.2015-03.02.2015
ETEEE-2015	Electronics Engineering, JMI, New Delhi.	
Session Chair	ICPECA JMI	November, 2018
Session Chair	IEEE Sponsored RDCAPE - 2021	7-8 October 2021

PROJECT / RESEARCH GUIDANCE

PHD	Year	Scholar Name	TOPIC OF PHD	Status
4.	2023	Omar bin Abu Bakar	Multilevel Inverters for Sustainable Energy	Continuing
3.	2022	Umar Majeed Sada	Energy trading and Block chain technology	Continuing
2.	2021	Safdar Ahmad	Optimal allocation of battery storage in distributed networks on wind power generation.	Continuing
1.	2016	Sajjad Ahmad	Performance evaluation and optimization of renewable energy sources using intelligent techniques.	Awarded

M Tech	YEAR	Student Name	TOPIC	STATUS
23	2025	Umra Hasan	Agri Photovoltaics - Techno-Economic analysis for Indian fields	Pursuing
22	2024	Tauqeer un Nisa	Block chain based power trading	Awarded
21	2024	Mohammad Imtesal	Micro-Grid based Distributed Power Generation	Awarded
20	2024	Wajeeh	Solar Phto-Volatic based Distributed generation for Rural Electrification.	Pursuing
19	2023	Mohd. Talib	Power sharing in EV and Blockchian management	Awarded
18	2023	Salma Tabassum [20MEM18]	Smart Grid challenges : issues and solutions	Awarded
17	2022	Syed Mahfooz Ali [Energy Sciences]	India's Net Zero by 2070 - Feasibility analysis	Awarded
16	2022	Mohd Shahrukh	Parasitic Capacitors	Awarded
15	2022	Nusrat Jahan [20MEM15]	Intelligent control of Electric Vehicles	Awarded
14	2021	Maksood Ahmad	Energy Management Strategies of Hybrid Electrical Vehicle	Awarded
13	2021	Mohammad Suhail	Power management of electric vehicles using intelligent techniques.	Awarded,
12	2021	Aamir Khan [17MEM001]	Solution to economic load dispatching using PSO technique	Awarded
11	2021	ADIL ahmad mir [18MEM002]	Performance evaluation of switched reluctance motor drives used in electric vehicles	Awarded
10	2021	Md Afsar Ali [18MEM008]	Design of hybrid electric vehicles by using fuzzy logic based MPPT for solar PV array and dc to dc converter	Awarded
9	2019	Rayees Ul Hassan [16MEM-014]	Advanced MPPT technique for solar PV system using dynamic atmospheric conditions	Awarded
8	2019	Aarif Hussain Najar [16MEM-001]	Maximum power extraction from WPG system using Intelligent controllers	Awarded
7	2019	Safdar Ali [17MEM022]	Probabilistic approach for optimal allocation of wind based distributed generation in power dist. System.	Awarded
6	2018	Dharmendra Kumar [14MEE 004]	"Comparison of fuzzy based Proportional Integral and Sliding Mode Controller of Wind Energy Conversion System For MPPT"	Awarded
5	2018	AFROJ AHMAD [14MEEE001]	Optimal Integral sliding mode controller design for DFIG based wind energy conversion system.	Awarded
4	2017	Rajeev Kumar Singh [15MEE - 015]	Wind Energy Optimization	Awarded
3	2017	Md Ekrima Arshad [15MEE-004]	Harmonics minimization in multilevel inverters using PSO and BAT algorithm	Awarded
2	2015	Mohammad Waris Senan [13MEE007]	Performance analysis of PMSG based standalone wind power generation system	Awarded
1	2014	Ishtiyaq Shafi Rafiqui [AMITY]	The Performance of Solar wind hybrid system in power grid	Awarded

PARTICULARS OF ACADEMIC VISITS ABROAD

Dhaka, Bangladesh	Siemens Training on Substation Management.	4 th Nov 2003 – 03 rd December 2003
Jakarta, Indonesia	Participated and presented a paper in an International conference.	1-5 May 2013
KL, Malaysia	Participated and presented a lecture in IDB Global Leadership Program on Energy Geo-Politics 16-20 September 2013	
Cambridge University, U.K.	Participated and presented a paper in an international conference on Recent Developments in Sustainable Engineering and Technology.	4-6 January 2018
Male, Maldives	Expert lecture on wind energy potential in Maldives.	10-12 July 2018
Dubai, UAE	Participated in Intersolar Conference, Middle East	October - 2022

Energy, 2022

FACULTY DEVELOPMENT PROGRAMS & TRAINING:

Duration	Theme	Location	Date / Duration
1 Week	AICTE (ATAL) Faculty Development Program on "Decarbonization and Distributed Energy Resources to Mitigate Climate Change"	IUST- J&K	18-23 December, 2023
1 WEEK	STUTI-DST workshop on, "Technological Advancements in Digital Healthcare" organized by Jamia Millia Islamia	FET-JMI, NEW DELHI	1-7 February, 2023
1 Week	GIAN ON "Cyber-Security Control and Sensing Technology for Future Smart Grids."	FET-JMI, New Delhi	23-27 May, 2022
2 Weeks	Faculty development program on Robotics and Automation under AQIS FDP21-010	FET-JMI, New Delhi	16.06.2021 - 30.06.2021
1 Week	Online faculty development program on Emerging techniques in smart power systems.	NIT Warangal	24.08.2020 - 28.08.2020 -
1 week	GIAN on Role of Smart building energy management system in the development of smart city	EED-JMI, New Delhi	06.03.2018- 10.03.2018
1 Week	Emerging Techniques in Smart Power System, NIT Warangal	NIT-Warangal	24/08/2020- 28/08/2020
1 day	Energy Audit in mixed use buildings by HIOKI industries	online	09/09/2020
3 Week	UGC Summer school at HRDC, JMI	HRDC-JMI	29/05/2017- 18/06/2017
4 Weeks	UGC 115 Orientation Program	HRDC-JMI	15/04/2016- 13/05/2016
1 Week	Islamic Development Bank sponsored Global Leadership Program	KL- Malaysia	16/09/2013- 20/09/2013
3 Weeks	Edu-comp Summer Staff Development Program	JRE Group of	15/05/2013- 30/06/2013
2 Weeks	AICTE sponsored Staff Development Program on "Recent Advances in Electrical Power and Energy Systems	JMI, New Delhi	09/12/2012- 22/12/2012
1 Week	Pedagogical Training on "Teaching and Learning Process	AFSET, Dhauj, Faridabad	03/07/2007- 07/07/2007
5 Weeks	Siemens Training on Substation Management.	Dhaka, Bangladesh	04/11/2003- 03/12/2013

PUBLICATIONS - Summary

S.N.	Publication Category	Numbers
1	SCI Journals	5 [SCI DOCs = 5]
2	SCOPUS Indexed Journals: Profile Abrar Ahmad https://www.scopus.com/authid/detail.uri?authorId=5 7209951910	15 [TOTAL SCOPUS DOCS = 22]
3	UGC Approved Journals	7
3	ISSN peer reviewed Journals	9
4	Book Chapters	3 (2 Scopus Indexed)
5	Scopus Indexed Conferences and IEEE	10
6	Other Conferences	15
7	Magazines	7
	Total Publications	71

1. SCI JOURNALS

[1] **2023** Md. Sajjad Ahmad & Abrar Ahmad, "Advanced Rapid Predictive and Modulation Model for PV System", Electric Power Components and Systems, DOI: https://www.tandfonline.com/doi/abs/10.1080/15325008.2023.2210562?src=&journalCode=uemp20

[2] **2014** Ishtiyaq Shafi Rafiqi, Abrar Ahmad, and Mehtab Fatima, "The Performance of Solar Wind Hybrid System in Power Grid", Advanced Science Letters, Volume 20, No. 7-9, pp. 1287-1296, July 2014, doi.org/10.1166/asl.2014.5529, American Scientific Publishers. Issn no - 1936-6612 eissn 1936-7317 [SCI JOURNAL Impact Factor 0.210]; https://www.ingentaconnect.com/content/asp/asl/2014/00000020/f0030007/art00008;jsessionid=48but7uus57ab.x-ic-live-01

2. SCOPUS / UGC Care INDEXED JOURNALS

- [1] **2024** Rafeque Ahmad ,Ibraheem ,Yogendra Arya ,Md Safdar Ali ,.Abrar Ahmad , Zafeer Uddin, "Palliation of Current Harmonics by Employing Optimised FO (PI+PD) Cascade Controller Regulated SAPF with the Exertion of Taguchi SNR Method.", journal of propulsion technology, Vol 45, No.1 **[SCOPUS Indexed]**
- [2] **2023** Umar Majeed Sada, Md Sajjad Ahmad, Abrar Ahmad, "Integrating Hybrid Fuzzy Control and PSO Optimization for enhanced energy management in Photovoltaic Systems", JXAT Journal, Vol XV, Issue 12, ISSN NO. 1006-7930, 2023 SCOPUS Indexed. [SCOPUS Indexed]
- [3] **2023** Syed Mahfuz Ali, Abrar Ahmad, Nadeem Ahamd Arif, Mudassir Hashmi, "India's NET ZERO Emission by 2070: A critical analysis of feasibility and challenges of Power Sector", JXAT, Volume XV, Issues XI, 2023. ISSN NO. 1006-7930, 2023 SCOPUS Indexed. [SCOPUS Indexed]
- [4] **2023** Md Safdar Ali, Abrar Ahmad, Ibraheem, Ward ul Hijaj Paul, Anwar Shahzad Siddiqui, Sheeraz Kirmani, "Optimal Sizing and Placement of Energy Storage Systems in Hybrid Energy Environment", Journal of Propulsion Technology, Vol. 44 3 (2023) DOI: https://doi.org/10.52783/tjipt.v44.i3.1412 **SCOPUS**
- [5] **2022** Abrar Ahmad, Talib Hasan, "Assessing and combating the challenge of fire in Electric Vehicles", Journal of Xian University of Architecture and Technology, ISSN NO: 1006-7930, VOI XIV, Issue 12, Page No. 759-762. VOLUME XIV, ISSUE XII, 2022 JOURNAL OF XI'AN UNIVERSITY OF ARCHITECTURE & TECHNOLOGY (xajzkjdx.cn) **SCOPUS**
- [6] **2022** Md Sajjad Ahmad, Abrar Ahmad, "RMPM based optimization for residential PV System" Journal of Xian University of Architecture and Technology, ISSN NO: 1006-7930, **SCOPUS**
- [7] 2021 Md Sajjad, and Abrar Ahmad. "Hybrid PSO-Fuzzy Based Controller Technique to Optimize Energy Resource for PV System." Design Engineering (2021): 7425-7440. [SCOPUS]; https://thedesignengineering.com/index.php/DE/article/view/3252
- [8] 2021 Md Sajjad Ahmad, Abrar Ahmad, "HYBRID PSO-DE TECHNIQUE TO OPTIMIZE ENERGY RESOURCE FOR PV SYSTEM", International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 6, June 2021, pp. 128-139; ISSN Print: 0976-6545 and ISSN Online: 0976-6553 DOI: 10.34218/IJEET.12.6.2021.014 [SCOPUS]; https://iaeme.com/MasterAdmin/Journal_uploads/IJEET/VOLUME_12_ISSUE_6/IJEET_12_06_014.pdf
- [9] **2019** Abrar Ahmad, Md Sajjad Ahmad, "Cyber Security challenges in Electrical power Infrastructures: India's Perspective", Journal of Emerging Technologies and Innovative Research (ISSN-2349-5162), Volume 6, Issue 5, pp 3149-3153. May 2019. [UGC Approved Journal as per 2018 List: Journal No 63975; Impact Factor 7.95]; https://www.jetir.org/papers/JETIR1812D67.pdf
- [10] **2018** Abrar Ahmad, Md. Sajjad Ahmad, Maksood, "ENERGY CONTROL STRATEGIES AND RESPONSE OF A SERIES-PARALLEL HYBRID ELECTRIC VEHICLES ON FTP-75 DRIVE CYCLE." Journal of Emerging Technologies and Innovative Research (ISSN-2349-5162), Volume 5, Issue 12 pp 279-286, Dec 2018. [UGC Approved Journal as per **2018** List: Journal No 63975; Impact Factor 7.95]; https://www.jetir.org/papers/JETIR1812E63.pdf
- [11] **2018** Abrar Ahmad, Addit Anwar, "Techno-economic feasibility analysis solar roadways: A case study of DND flyway Delhi", Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 8, ISSN: 2349-5162; August 2018. [UGC Approved Journal as per 2018 List: Journal No 63975; Impact Factor 7.95]; https://www.jetir.org/papers/JETIRA006161.pdf
- [12] **2014** Abrar Ahmad, A.S. Siddiqui, "Modeling of A Wind Diesel Integrated System with No Storage", International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459), Volume 4, Special Issue 1, February 2014. [UGC Approved Journal as per 2017: Serial Number 4677; Impact Factor 4.02] [SCOPUS INDEXED 2020-2021]; https://www.ijetae.com/files/ICADET14/IJETAE_ICADET_14_20.pdf
- [13] **2014** Abrar Ahmad, A.S. Siddiqui, Aman Kumar "Performance of Wind Diesel Integrated System Under Different Wind Conditions", International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459), Volume 4, Special Issue 1, February 2014. [UGC Approved Journal 2017: Serial Number 4677; Impact Factor 4.02] [SCOPUS INDEXED 2020-2021]; https://www.ijetae.com/files/ICADET14/IJETAE ICADET 14 19.pdf

3. ISSN PEER REVIEWED JOURNALS

- [1] 2022 Mohammad Suhail, Abrar Ahmad, Sheeraz Kirmani, Munna Khan, "A Novel Rule based Energy Management Strategy using Fuzzy Logic for Power Management of Plug-in Hybrid Electric Vehicle in Parallel Operation", Grenze International Journal of Engineering and Technology, Jan Issue. Grenze ID: 01.GIJET.8.1.1, © Grenze Scientific Society, January 2022. [ISSN Peer reviewed]
- [2] **2021** M. S. Ahmad and Abrar Ahmad, "Improvement of Power peak value by using PSO in the solar photovoltaic cell" JOURNAL OF INNOVATION IN ELECTRONICS AND COMMUNICATION ENGINEERING, Vol.11(1), Jan. June 2021 @ISSN 2249-9946.
- [3] **2018** Abrar Ahmad, Shadab Ahmad, "SOLAR PV FED DC LOAD EMPLOYING MPPT WITH ENERGY STORAGE SYSTEM INTEGRATION USING BIDIRECTIONAL DC/DC CONVERTER", International Journal of Latest Trends in Engineering and Technology, Vol.(9)Issue(4), pp.088-094, DOI: http://dx.doi.org/10.21172/1.94.15, e-ISSN:2278-621X.
- [4] **2018** Abrar Ahmad, "TECHNO-ECONOMIC ANALYSIS OF DISTRIBUTED SPV BASED AC MICRO-GRID VS DC MICRO-GRID", International Journal of Latest Trends in Engineering and Technology, Vol.(9)Issue(4), pp.083-087, DOI: http://dx.doi.org/10.21172/1.94.14, e-ISSN:2278-621X.
- [5] **2015** Mirza Tanweer Baig, **Abrar Ahmad**, Dr. Mohammad Muazzam, "Mitigation of Harmonics in a grid connected DFIG Wind Power System", International Journal of Emerging Engineering Research and Technology Volume 3, Issue 8, August 2015, PP 145-153 ISSN 2349-4395 (Print) & ISSN 2349-4409 (Online) [CiteFactor Indexed]. http://www.ijeert.org/pdf/v3-i8/20.pdf
- [6] **2015** Anwar Shahzad Siddiqui, Abrar Ahmad, Ahraz Athar, "Economic impact of power outage on GDP of India", International Journal of Engineering technology, Managements and Applied Sciences, ISSN 2349-4476, Volume 3, Special Issue, pp 210-216, March 2015. [Approved by DIIF, Impact Factor 2.24]; http://www.ijetmas.com/admin/resources/project/paper/f201503081425821597.pdf
- [7]. 2014 Anwar Shahzad Siddiqui, Abrar Ahmad, "Public Participation in Power Generation An Assessment through SPV in India", International Journal of Emerging Engineering Research and Technology Volume 2, Issue 6, September 2014, PP 24-31 ISSN 2349-4395 (Print) & ISSN 2349-4409 (Online) [CiteFactor Indexed]. https://docs.google.com/viewer?url=http://www.ijeert.org/pdf/v2-i6/4.pdf&embedded=true?iframe=true&width=700&height=450
- [8] 2014 Abrar Ahmad, "India's Energy Challenge and Renewable Energy Solution", International Journal of all research education and scientific methods (IJARESM), ISSN: 2455-6211, Volume 2, Issue 6, June 2014. http://www.ijaresm.com/uploaded_files/document_file/Abrar_Ahmad_june_2014mbGw.pdf
- [9] 2013 Abrar Ahmad, "Signal processing of Power Line Carrier Communication (PLCC) based on wavelet packet analysis", IJCRT ISSN NO 2320-2882, Volume 1, Issue 1, January 2013. https://www.ijcrt.org/papers/IJCRT1134423.pdf

4. BOOK CHAPTERS

- [1] **2023** Safdar, Abrar Ahmad, Wardaul Hijaj Paul, Danish, "Optimal Allocation of Wind Based Distributed Generators in Power Distribution Systems using Probabilistic Approach" Springer letters of electrical engineering 2021, 926pp. 385-396. **Springer Nature Singapore Pvt. Ltd.** 2022. [SCOPUS INDEXED] https://link.springer.com/chapter/10.1007/978-981-19-4971-5 29
- [2] 2020 Ekrama Arshad, Abrar Ahmad, Springer "Lecture Notes on Innovations in Electronics and Communication Engineering", Chapter Title: Harmonic Minimization in Cascaded Multilevel Inverter Using PSO and BAT Algorithms, Pages 757-771. Springer Nature Singapore Pvt. Ltd. 2020. [SCOPUS INDEXED]; Harmonic Minimization in Cascaded Multilevel Inverter Using PSO and BAT Algorithms | SpringerLink
- [3] **2012** Abrar Ahmad, A.S. Anees, A.S. Siddiqui, Majid Jamil, "Proceedings of International Conference on Energy Security, Global Warming and Sustainable Climate (Solaris 2012)", Chapter titled Techno-Economic Analysis of Stand-alone Solar Fed AC vs DC Systems (PV-12)" Published by I.K. International Publishing House. New Delhi. p. 231-238. 2012 https://drive.google.com/drive/u/1/folders/1EPuMVP42M4t7bClHOb9b7CPadZ2FhPKN

5. SCOPUS INDEXED CONFERENCES

[1] **2023** Md Sajjad Ahmad, Abrar Ahmad, "Rapid Predictive and Modulation based Controller for PV system in smart residential buildings", Recent Advances in Electrical, Electronics & Digital Healthcare Technologies(REEDCON), **IEEE Conference 2023.**

- [2] **2023** Abrar Ahmad, Safdar Ahmad, Umar Majeed, "Automatic Load Sharing of Transformers using Fuzzy Logic in a distributed generation environment", Recent Advances in Electrical, Electronics & Digital Healthcare Technologies(REEDCON), **IEEE Conference 2023**. Automatic load sharing of Transformers using Fuzzy Logic in a distributed generation environment | IEEE Conference Publication | IEEE Xplore https://doi.org/10.1109/REEDCON57544.2023.10151202 [SCOPUS]
- [3] 2022 Suhail, M., Ahmad, A., Kirmani, S., Khan, M., "A Novel Rule based Energy Management Strategy using Fuzzy Logic for Power Management of Plug-in Hybrid Electric Vehicle in Parallel Operation", 13th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2022, 2022, 8, pp. 7–13 https://www.scopus.com/record/display.uri?eid=2-s2.0-85143309970&origin=resultslist&sort=plf-f
- [4]. **2019** Abrar Ahmad, Mohammad Waris Senan, Md Inayat Ali, "PMSG Wind power and Fuel Cell (FC) based hybrid power generation system", **IEEE Conference** on Electrical Computer and Electronics (UPCON), 8-10 November2019, Aligarh India. https://ieeexplore.ieee.org/document/8980222.
- [5] **2019** Md Sajjad Ahmad, Sonam Lata, Shabana Mehfuz, Abrar Ahmad, "Lossless Compression Algorithm for Energy Efficient Wireless Sensor Network", **IEEE International Conference** on Power Electronics, Control and Automation (ICPECA), 16-17 Nov. 2019, New Delhi. https://ieeexplore.ieee.org/document/8975686.
- [6] **2019** Mohd Faizan, Sajjad Ali, Abrar Ahmad, "<u>An overview of Fuel Cell Based Distribution Generation Integration</u>", **IEEE International Conference** on Power Electronics, Control and Automation (ICPECA), 16-17 Nov. 2019, New Delhi. https://ieeexplore.ieee.org/document/8975622.
- [7]. **2015** Anwar Shahzad Siddiqui, Abrar Ahmad, Waris Senan "Improving power reliably in hostile territory through SPV A case study of Gaza", **IEEE International Conference** on Recent Developments in Control, Automation and Power Engineering (RDCAPE 2015) hosted at Amity University 2015. https://ieeexplore.ieee.org/document/7281428.

6. OTHER CONFERENCES

- [1] **2021** M. S. Ahmad and **Abrar Ahmad**, "Improvement of Power peak value by using PSO in the solar photovoltaic cell" 9th INTERNATIONAL CONFERENCE ON INNOVATIONS IN ELECTRONICS & COMMUNICATION ENGINEERING 2021, Hyderabad.
- [2] **2021** Safdar, **Abrar Ahmad**, Wardaul Hijaj Paul, Danish, "Optimal Allocation of Wind Based Distributed Generators in Power Distribution Systems using Probabilistic Approach" in 1st International Conference on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021) organized by the Department of Electrical Engineering, in National Institute of Technology Jamshedpur, Jharkhand, India during 6th 8th September 2021.
- [3] **2021** Suhail, **Abrar Ahmad**, Munna Khan, "A Novel Rule based Energy Management Strategy using Fuzzy Logic for Power Management of Plug-in Hybrid Electric Vehicle in Parallel Operation", Sixth International Joint Colloquiums on Computer Electronics Electrical Mechanical and Civil, Mumbai 2021.
- [4] **2019** Md. Ekrama Arshad and **Abrar Ahmad**, "Harmonic Minimization in Cascaded Multilevel Inverter Using PSO and BAT Algorithms", 8th International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2019), Guru Nanak Institutions Technical Campus, Hyderabad during August 2-3, 2019. https://www.springer.com/gp/book/9789811531712 [Scopus]
- [5] **2018 Abrar Ahmad**, "Performance of Characteristics of hybrid wind fuel cell power generation system", International conference on Engineering, and Technology, held at Murray Edward College, University of Cambridge, U.K. during 1-3 January 2018.
- [6] **2017 Abrar Ahmad**, Waris Senan, "Performance evaluation of PMSG based hybrid generation system", International conference on Energy, Communication, Data Analytics, and Soft Computing (ICECDS-2017) held at Poonamalli, Tamilnadu, India during 1-2 August 2017.
- [7] **2015** Anwar Shahzad Siddiqui, **Abrar Ahmad**, Ahraz Athar, "Economic impact of power outage on GDP of India", International conference on Emerging Trend of Engineering, Science, Management and its Applications (ICERESMA-15) held at JNU, New Delhi on 1st March 2015.
- [8]. **2014 Abrar Ahmad**, A.S. Siddiqui, "Modeling of A Wind Diesel Integrated System with No Storage", International conference on Advance Development in Engineering and Technology (ICADET 2015) held at LKCE, Ghaziabad, U.P., India during 15-16th February, 2014.
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HONORS AND AWARDS

Class X Topper of Jamia Sr. Secondary School, 1998, JMI, New Delhi [Awarded Rs. 1000 from JMI] Islamic Development Bank Scholarship Award: 1999-2003, Jeddah, KSA [Rs. 124000] Awarded Islamic Development Bank GILP CONFERENCE MALAYSIA – 2013. Awarded CORONA WORRIER certificate for supporting Lockdown affected families from GOI, 2020.

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