




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Electrical and Electronics Engineering



FACULTY PROFILE

1. Personal Details

NAME	Dr. Anand Kumar Pandey	
DEPARTMENT	Electrical and Electronics Engineering	
DESIGNATION	Assistant Professor	
PHONE	7838434833	
EMAIL ID	anandkrpandey@jssaten.ac.in	
Date of Joining (JSSATEN)	13/08/2015	

2. Experience

Total Experience in Years	Teaching: 14 Years	Industry: Nil	Research: 05 Years
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3. Qualifications

COURSES	SPECIALIZATION	YEAR OF AWARD	INSTITUTION	UNIVERSITY
B.E.	Electrical and Electronics Engineering	2009	University Institute of Engineering and Technology	Panjab University, Chandigarh
M.Tech.	Power Systems	2011	National Institute of Technology	National Institute of Technology, Calicut
Ph.D.	Renewable Energy	2020	Faculty of Engineering, Department of Electrical Engineering	Jamia Millia Islamia, New Delhi
PG Certificate	AI and ML	2025	IIIT Lucknow	IIIT Lucknow

4. Research & Publications

Papers Published in SCI and Web of Science indexed Journals	International: 08	National: Nil
Papers Published in SCOPUS indexed Journals	International: 15	National: Nil
Papers Published in other Journals	International: 11	National: Nil

Papers Presented in Conferences / Symposium	International: 12	National: 03
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5. Research Guidance

PhD Guide? Give field & University	Nil	Nil
PhDs / Projects Guided	Ph.D. Awarded: Nil Guiding: Nil	Projects at Bachelor's Level: 30

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Solar PV based Paddy harvester	0.50 Lakhs	20/08/2019	One Year	GOI, Unnat Bharat Abhiyaan(UBA)

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Machine learning based solar tracking system and method thereof	Patent no. 2021100895/Granted
2	Effective management of battery selection along with its economic and risk analysis for solar photovoltaic system	Patent no. 202211036974 A/published/29.07.2022.
3	Dynamic pricing and scheduling ptimization for EV charging based on user profiles	202511067000A/published/01.08.2025

7. Awards Received

"Best Faculty Award"	Odd Semester, 2015-16 Even Semester, 2017-18
"Best Paper Award"	Ritvik Aulakah, Anushka Jaiswal, Sachine dev and Anand Kumar Pandey,"GSM Based Power Theft Detection, Alert and Cut off System ", Proceedings of National Conference on Smart Energy, VLSI and Embedded Systems, (NCSEVES-2021), JSSATEN, 24 Sept. 2021.

8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / other	Impact Factor	Publisher
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1	Multi-objective optimal location and sizing of hybrid system using analytical crow search optimization algorithm	Anand Kumar Pandey and Sheeraz Kirmani	International Transactions on Electrical Energy Systems	Vol.30 (5), 2020	SCIE, WoS and Scopus	1.9	Willey
2	Allocation of DG in Distribution Network Using Parameter Independent JAYA Algorithm	Anand Kumar Pandey, Sheeraz Kirmani, Ankesh Kumar and Iram Akhtar	Journal of Electrical Engineering & Technology	1-18, 2022	SCIE, WoS and Scopus	1.6	Springer
3	Parameter-based Progressive Alpha Model Method based on Generalized Functions Analysis for Power System Reliability Enhancement Utilizing the Wind Energy System	Iram Akhtar, Sheeraz Kirmani, Anand Kumar Pandey and Mohammed Jameel	IETE Journal of Research	1-9, 2022	SCIE, WoS and Scopus	1.5	Taylor and Francis
4	Stochastic Modelling and Integration of Electric Vehicles in the Distribution System Using the Jaya Algorithm	Mohd Owais Khan, Sheeraz Kirmani, Mohd. Rihan and Anand Kumar Pandey	IETE Journal of Research	10.1080/03772063.2023.2294874, 2024	SCIE, WoS and Scopus	1.5	Taylor and Francis

5	Graph theory-enhanced integrated distribution network reconfiguration and distributed generation planning: A comparative techno-economic and environmental impacts analysis	Sunday Adeleke Salimon, Ifeoluwa Olajide Fajinmi , Oludamilare Bode Adewuyi, Anand Kumar Pandey, Oluwaseyi Wasiu Adebisi and Hossam Kotb	Cleaner Engineering and Technology	Volume 22, 100808, 2024	WOS and SCOPUS	6.5	Science Direct
6	Simulation and Analysis of an Alkaline Electrolysis System for Hydrogen Production using ASPEN Plus Model	Anand Kumar Pandey, Nihal Patel and Amarjeet Singh	International Energy Journal	2025	WOS and SCOPUS	0.77	International Energy Journal
7	Multi-Objective Optimal Location and Sizing of Hybrid Photovoltaic System in Distribution Systems Using Crow Search Algorithm	Anand Kumar Pandey and Sheeraz Kirmani	International Journal of Renewable Energy Research	Vol.9(4), pp. 1681-1693, 2019	WOS and SCOPUS	5.127	International Journal of Renewable Energy Research
8	Minimization of power losses with different types of DGs using CSA	Anand Kumar Pandey, Sujatha K S and Sheeraz Kirmani	International Journal of Renewable Energy Research	Vol.10(4), pp. 1986-1997, Dec. 2020	WOS and SCOPUS	5.127	International Journal of Renewable Energy Research

9	Placement of PV Units Considering Uncertainties of Generation and Load in Distribution Systems" International Journal of Recent Technology and Engineering	Anshu Parashar, Anand Kumar Pandey and Ritesh kumar Rai	International Journal of Recent Technology and Engineering	ISSN:2277-3878, Vol.9(2), pp.1200-1207, September 2020	SCOPUS	0.158	Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
10	Allocation of PV unit in distribution network using Analytical method	Ritesh kumar Rai, Anand Kumar Pandey, Anshu Parashar and Sujatha K S	International Journal of Recent Technology and Engineering	ISSN:2277-3878, Vol.9(2), pp.1200-1207, July2020	SCOPUS	0.158	Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
11	Solution for partial shading problem of PV array in portable applications	Ritesh kumar Rai and Anand Kumar Pandey	International journal of applied engineering research	ISSN:0973-4562, Vol.14(10), pp.26-32, 2019	Scopus, UGC approved	8.1	International journal of applied engineering research (IAES)
12	A Metaheuristic Approach to Find the Best Position and Size of a Photovoltaic System in Distribution Networks	Anand K Pandey, Sheeraz Kirmani	International Journal of Engineering Science and Technology	ISSN:0975-5462, Vol.9(7), pp.26-32, July 2017	Google Scholar	0.193	International Journal of Engineering Science and Technology (IJEST)

13	Modeling and Simulation of single phase cycloconverter	Ritesh kumar Rai and Anand Kumar Pandey	International Journal of Emerging Technologies and Engineering	ISSN:2348-8050, Vol.4(5), pp.04-06, May 2017	SCOPUS	7.127	International Journal of Emerging Technologies and Engineering (IJETE)
14	DG Installation in Distribution System for Minimum Loss	Anand Kumar Pandey, Om Mishra, Alat and Saurabh kumar	International Journal of Engineering Research & Technology	ISSN:2278-0181, Vol.6(4), pp.1008-1012, April 2017	Mendeley, Google Scholar	7.87	International Journal of Engineering Research & Technology (IJERT)
15	Modeling and simulation of Automatic three point starter	Anand Kumar Pandey, Vishesh Sharma, Udit Mittal and Shardha Srivastava	International Journal of Engineering Research & Technology	ISSN:2278-0181, Vol.6(5), pp.232-234, April 2017	Mendeley, Google Scholar	7.87	International Journal of Engineering Research & Technology (IJERT)
16	A Holistic Review on Energy Efficient Green Buildings Considering Environmental, Economy and Technical Factors	Bishnu Kant Shukla, Anand Kumar Pandey, Ashish Singh, Devesh Singh and Mohd. Anas	Lecture Notes in Electrical Engineering,	28 Oct. 2024	Scopus		Springer

17	Design and Simulation of a Small Agri Voltaic System	Nihal Patel, Anand Kumar Pandey, Manish Tripathi and Bishnu Kant Shukla	Lecture Notes in Electrical Engineering	2024	Scopus		Springer
18	A Technological and Environmental Overview on Waste-to-Energy Systems for Effective Municipal Solid Waste Management	Nitya Singh, Bishnu Kant Shukla and Anand Kumar Pandey	Lecture Notes in Electrical Engineering	2024	Scopus		Springer
19	Optimal Management of Voltage, Current and State of charge of Li-ion battery pack	Anand Kumar Pandey, Arun Kumar Rawat and Bishnu Kant Shukla	Lecture Notes in Electrical Engineering	2024	Scopus		Springer
20	Strategic Planning and Operational Analysis of PV-Wind Hybrid Systems in Emerging Asian Markets: A Detailed Assessment of India and China	Hansh kumar singh, Abhinav malik, Ayushi karanwal, Aditi dhama, Bishnu kant shukla, Anand kumar pandey and Shivam verma	Lecture Notes in Electrical Engineering	2024	Scopus		Springer

	Green Building Paradigms: Comprehensive Insights into Sustainability, Occupant Well-being and Future Technological Transformations	Prashant sharma, Nikhil rawat, Shatrughn singh, vikas narayan, Bishnu kant shukla, Anand kumar pandey and Shivam verma	Lecture Notes in Electrical Engineering	2024	Scopus		Springer
21	Analytical Approach to Integrate Distributed Generation and a Static Compensator in a Distribution System	Anand Kumar Pandey, Ankesh Singh, Dharmendra Singh, and Bishnu Kant Shukla	Lecture Notes in Electrical Engineering	2025	Scopus		Springer

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	DOI	WOS / Scopus / Both	Publisher
1	Implementation of Genetic Algorithm to find the optimal timing of Overcurrent relays	Sheeraz Kirmani and Anand K Pandey	IEEE Power Electronics and Motion Control Conference held on 25 th -30 th September 2016 in Varna Bulgaria	10.1109/EPEPEMC.2016.7752031	Scopus	IEEE Xplore
2	Efficient Approach for DG placement and size in medium voltage distribution system	Anand Kumar Pandey and Sheeraz Kirmani	2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi India, Oct.22-24. 2018	10.1109/ICPEICES.2018.8897454	Scopus	IEEE Xplore

3	Placement of distributed generator in distribution systems using crow search algorithm	Anand Kumar Pandey and Sheeraz Kirmani	IEEE international conference on Electrical, Electronics and Computer engineering, UPCON 2019 held on 08-10 November 2019 in AMU Aligarh, India	10.1109/UPCON47278.2019.8980157	Scopus	IEEE Xplore
4	Optimal location and sizing of DG using exhaustive search approach	Sheeraz Kirmani, Ankesh Kumar and Anand Kumar Pandey	IEEE international conference on Electrical, Electronics and Computer engineering, UPCON 2019 held on 08-10 November 2019 in AMU Aligarh, India	10.1109/UPCON47278.2019.8980255	Scopus	IEEE Xplore
5	Optimal Integration of Electric Vehicle Charging Stations and Distributed Generation in Distribution Network	Mohd Owais Khan, Sheeraz Kirmani, Mohd Rihan and Anand Kumar Pandey	2022 IEEE Students Conference on Engineering and Systems (SCES), MNNIT, Allahabad, (Scopus indexed)	MNIT, Allahabad	Scopus	IEEE Xplore
6	Temperature Impact on Lithium-Ion batteries in Electric Vehicles	Suraj Pal, Aabda Khatoon and Anand Kumar Pandey	Proceddings of International Conference on Intelligent Control and Computation for Smart Energy and Mechatronic Systems	25-26 Sept. 2020, JSS Noida.		Proceddings
7	Intelligent Street Lights with Vehicle Detection	Aman Vardia, Kartik Kumar and Anand Kumar Pandey	Proceddings of International Conference on Intelligent Control and Computation for Smart Energy and Mechatronic Systems	25-26 Sept. 2020, JSS Noida.		Proceddings

8	Multiobjective Optimal location and sizing of solar PV considering time varying nature of solar irradiance and load model in commercial distribution system	Anand Kumar Pandey and Sheeraz Kirmani	Proceedings of national conference on smart energy systems (NCSES-2019).	organized by JSS Noida		Proceedings
9	Optimal location and sizing of Photovoltaic DG system using Direct Load Flow method	Ankesh Kumar, Anand Kumar Pandey and Sheeraz Kirmani	Proceedings of national conference on smart energy systems (NCSES-2019).	organized by JSS Noida		Proceedings
10	GSM Based Power Theft Detection, Alert and Cut off System	Ritvik Aulakah, Anushka Jaiswal, Sachine dev and Anand Kumar Pandey	Proceedings of National Conference on Smart Energy, VLSI and Embedded Systems, (NCSEVES-2021)	organized by JSS Noida		Proceedings

iv. Workshops /Conferences Attended

S. No.	Name of the Workshop/conference	Organizer	Date
1	IEEE international conference on Electrical, Electronics and Computer engineering	AMU, Aligarh, India	08/11/2019 to 10/11/2019
2	IEEE international conference on Power Electronics, Intelligent Control and Energy Systems	DTU, New Delhi, India	22/10/2018 to 24/10/2018
3	International Conference on Intelligent Control and Computation for Smart Energy and Mechatronic Systems	JSSATE, Noida, India	25/09/2020 to 25/09/2020
4	National Conference on smart energy systems	JSSATE, Noida, India	14/06/2019 to 15/06/2019
5	IEEE conference on Advance computing and innovative technologies in engineering	GCET, Gr. Noida, India	04/03/2021 to 05/03/2021
6	IEEE International Power Electronics and Motion Control Conference (PEMC)	Varna, Bulgaria	25/09/2016 to 28/09/2016

7	National Conference on Smart Energy, VLSI and Embedded Systems, (NCSEVES-2021)	JSSATE, Noida, India	24 Sept. 2021
8	International Conference on Energy Transition and Innovations in Green Technology, ICETIGT-2024	MANIT, Bhopal	Jan 2024
9	3rd International Conference on Smart Grid Energy Systems and Control (SGESC-2025)	NIT Kurushetra	June 2025

v. Workshops / Conference (Organized)

S. No.	Name of the Workshop/conference	Organized By	Date	Role
	INDO-Frensh Seminar 20-25	EEE Department, JSSATE Noida	17-21 Nov. 2025	Organizing committee member
1	National Conference on Smart Energy, VLSI and Embedded Systems, (NCSEVES-2021)	JSSATE, Noida, India	24/9/2021	Co-convener
2	National Conference on smart energy systems	JSSATE, Noida, India	14/06/2019 to 15/06/2019	Organizing committee member
3	IEEE conference on Advance computing and innovative technologies in engineering	GCET, Gr. Noida, India	04/03/2021 to 05/03/2021	Session Chair
4	Virtual conference on Smart computing and advanced Communication	PSNA CET, Dindigul, India	12/03/2021	Advisory Committee member

9. Details of NPTEL / COURSERA courses completed

S. No.	Name of the Subject	Organized By	Date of Completion Award	Grade/Marks
1	DC Microgrid and Control System	NPTEL	18.12.2020	-
2	Roadmap for Patent creation	NPTEL	12.03.2021	-

10. Membership of Professional Bodies:

1. Senior member IEEE

11. Any other information you will like to share about your professional experience

ADMINISTRATIVE AND DEPARTMENTAL RESPONSIBILITIES

1. Department research coordinator.
2. Co-Convener of the National Conference on Smart Energy, VLSI and Embedded Systems, (NCSEVES-2021), JSSATE, Noida.
3. Coordinator of the STTP on Solar PV and storage systems, 2020 sponsored by AICTE.
4. Department NBA Coordinator since 2017.
5. Member of department DAC committee since 2017.
6. Member of department PAC committee since 2017.
7. Member of department PAQIC committee since 2017.
8. Module Coordinator for the module Power systems, electrical machines and drives since 2017.
9. Organising committee member of FDP on recent trends in electrical power systems sponsored by AICTE in June, 2020
10. Organising committee member of National Conference on smart energy systems, JSSATE, Noida, 14-15 sept. 2019.
11. Organising committee member of Internal SIH (Software & Hardware Edition) in 2019-20 AY
12. Deputy Coordinator of Internal SIH (Software & Hardware Edition) in 2019-20
13. Departmental Mini-Project or Internship Coordinator since 2019-20 AY
14. Department time table coordinator for 2017-18 and 2018-19 AY
15. Departmental Examination cell coordinator for 2017-18 AY
16. NBA criterion-5 & NAAC Criteria-6 Coordinator in the department.
17. Seminar Coordinator in 2018-19 and 2019-20 AY
18. Lab Coordinator of Analog Electronics since 2018-19 AY
19. Class Coordinator from 2018-19 (Even Semester) to 2019-20 (Even Semester)
20. Placement coordinator B.Tech 2017-2018.
21. Departmental faculty Coordinator of Industry Interaction Cell (IIC)
22. External Practical examiner G L Bajaj institute of Technology and Management, UPTU Greater Noida.
23. External Practical examiner NIET, AKTU Greater Noida.
24. External Practical examiner GCET, AKTU Greater Noida.
25. External Practical examiner RKGIT, AKTU Greater Noida.

WORKSHOP/ PROFESSIONAL TRAININGS / SHORT TERM COURSES ATTENDED

1. Selected for the Summer faculty research fellowship programme in IIT Delhi
2. Attended two weeks MHRD sponsored online FDP on “Python” from 22nd June-4 July 2020 jointly organized by IIT Bombay and JSS noida.
3. Attended two months summer faculty research fellowship programme-2019 under continuing education programme held from 16 May to 28 June 2019 at IIT delhi.
4. Attended two week AKTU sponsored FDP on 'Universal human values and professional ethics' from 11-15 June, 2018 at GNIOT, Greater Noida.
5. Attended one week AKTU sponsored FDP on 'Recent developments in electrical power systems' from 11-15 June, 2018 at JSS Academy of Technical Education, Noida.

6. Attended the one day seminar on 'Application of soft computing techniques to distributed energy resources in a smart grid' held on 24 March, 2018 organized by JSS Academy of Technical Education, Noida.
7. Attended One week Entrepreneurship development program on 'Solar PV rooftop' at NPTI, Faridabad from 19-23 march, 2018.
8. Attended one week AICTE recognized short term course on Scilab programming' through ICT from 21-25 August 2017 at JSS Academy of Technical Education, Noida.
9. Attended two weeks DST sponsored FDP on "Entrepreneurship Development" from 5-17 Dec. 2016 at JSS Academy of Technical Education, Noida.
10. Attended one week AICTE recognized short term course on 'Artificial Neural Network' through ICT from 25-29 Feb., 2016 at JSS Academy of Technical Education, Noida.
11. Attended three-day FDP on 'Developments in the field of Power System Protection from 20-22 Oct. 2016 at RKGIT, Ghaziabad.
12. Attended two weeks AICTE sponsored FDP on "Power generation, Transmission & Distribution" from 15th -27 June, 2015 at Vishveshwarya group of institutions, Dadri, UP.

Dr. Anand Kumar Pandey
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