**MASTER RESUME**

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**Dr. Abhinav Saxena**

**Ph.D(Jamia Millia Islamia,New Delhi), M.Tech. (IIT Roorkee)**

**B.Tech ( UPTU, Lucknow)**

**Email:** [abhinnav.saxena@jssaten.ac.in](mailto:abhinnav.saxena@jssaten.ac.in), [abhinaviitroorkee@gmail.com](mailto:abhinaviitroorkee@gmail.com)

**Contact No:** 9810241846,8909263616  **D.O.B: 23rd March, 1989**

**Area of interest:**

Renewable energy,Electric machines, power system generation,transmission & distribution, power electronics,control system, Environment sustainability,Communication signals noise & interference mitigations,Electric vehicle,Design of non linear controller,Smart grid,Analog and Digital Electronics, Digital Signal Processing(DSP), energy management,congestion management, Artificial intelligent techniques, Deep learning, IOT, ANN, ANFIS, Machine learning,Image processing

**Academic Qualifications:**

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| --- | --- | --- | --- | --- |
| **Sl. No.** | **Degree Discipline** | **University/Institution** | **Year of Passing** | **CGPA / (%)** |
| 1 | PhD.(Electrical Engg.) | Jamia Millia Islamia, (Delhi) | July 2020 | 80.26 % |
| 2 | M.Tech. (Electrical) | IIT Roorkee, Roorkee (UK) | 2013 | 7.118 |
| 3 | B.Tech.(Electrical Engg.) | UPTU,Lucknow | 2011 | 70.62 % |
| 4 | Intermediate (PCM) | Army School Bareilly Cantt. | 2006 | 80.00 % |
| 5 | High school | Wood Row School,Bareilly | 2004 | 78.0 % |

**Work Experience (8 years 10 month)**

1. **Currently working as Assistant professor & Research Coordinator in Department of Electrical Engineering at JSSATE Noida.**

2. 6 Months teaching experience as Assistant professor in Galgotia college of engineering and subject covered is Electrical machines,EMMI, digital electronics.

3. 10 Month teaching experience in BIT Meerut as Assistant Professor and subjects covered are Control system, sensor & instrumentation.

**Ph.D Supervising(3)**

1. Co-Supervising a Ph.D student from G.D Goenka University, Gurugram, Haryana

2. Co-Supervising a Ph.D student from Shobhit University,Meerut,U.P

3. Co-Supervising a Ph.D student from Dr. A.P.J AKTU University,U.P

**PUBLICATIONS (59)**

**JOURNALS (19):**

**1.** Abhinav Saxena,Prashant, Anwar Shahzad Siddiqui,’ Optimal Intelligent Strategic LMP Solution & Effect of DG in Deregulated System for Congestion Management’ International Transactions on Electrical Energy Systems (Wiley),Impact factor:**2.86**,(**SCI Journal**),Vol.31, Issue.11,first published online: 13-08-2021, ISSN: 2050-7038, <https://doi.org/10.1002/2050-7038.13040>

2. Arunesh Singh,Abhinav Saxena, N Roy, U chaudhary, “Inter-turn fault stability enrichment & diagnostic analysis of power system network using wavelet transformation based sample data control & Fuzzy logic Controller”, Transactions of the Institute of Measurement and Control, SAGE Journal, **(SCI Journal)** Impact factor:**1.796**, first published online 27-04-2021,Vol.43,Issue:12,pp: 2788–2798 doi: <https://doi.org/10.1177/01423312211007006>, ISSN: 1447-0369

3. A.K Singh,Abhinav Saxena, “A novel neuro-fuzzy control scheme for wind-driven DFIG with ANN-controlled solar PV array”, Environment,Development and Sustainability,Springer **(SCI Journal)**, Impact Factor:**3.219**,vol.22,issue.7,pp:6605–6626,doi:https://doi.org/10.1007/s10668-019-00502-5,ISSN: 1573-2975,October 2020.

4. Abhinav Saxena,A k singh, , Shahida Khatoon, Kriti, “Impact Review Analysis & Scope of Noise Pollution for Energy Harvesting”, Journal of engineering research,Kuwait University,Faculty of engineering and petroleum **(SCI Journal**),EMSME Special Issue,pp. 112-121  **ISSN: 2307-1885,doi:** https://doi.org /10.36909/jer.EMSME,impact factor:0.62, 20-08-2021

5.Abhinav Saxena,Prashant, Nirmal Kumar Agarwal, Md. Abul Kalam, Nitin Kumar Pal, “Optimal Converging distributed load allocation of three generating units using Genetic Algorithm (GAs)”, Vol. 33 Issue no 12, Baltica Journal **(SCI Journal)** (Impact factor: **1.037**), Dec 2020, ISSN: 0067-3064

6. Arunesh Singh ,Abhinav Saxena, “Robust designing of Wind Power based Doubly fed Induction generator (DFIG) using ANN Controlled Solar PV Array feeding 9-IEEE Bus System”, Journal of Engineering Technology **(SCI Journal)**, October 2018(special issue), PP. 485-503,Vol. 7,ISSN: 0747-9964  Impact factor:**1.3**

7.Arunesh Singh, Abhinav Saxena, ASharma, Ibraheem, “Modelling, Simulation,controlling of eddy current breaking system using intelligent controller”, Journal of fuzzy & intelligent system’ JIFS **(SCI Journal)** 2018’,Impact factor:**1.851**, Journal vol.36,no.3,pp.2185-2194,January 2019 with DOI:10.3233/JIFS-169930, ISBN: 1064-1246

8.Arunesh Singh, Abhinav Saxena, ASharma, Ibraheem, “Implicit control of eddy current braking system using fuzzy logic controller (FLC) and particle swarm optimisation (PSO)”, Journal of Discrete Mathematical Science & Cryptography(Taylor & Francis), **(ESCI Journal)**, Vol.22, Pages 253-275, Issue 2, 8 Mar 2019, ISSN: 09720529, Impact factor:0.31, ht[tps://doi.org/10.1080/09720529. 2019.15 82871](https://doi.org/10.1080/09720529.%202019.15%2082871)

9. Abhinav Saxena, Nirmal kumar Agarwal, Sudhanshu, Rakesh, “Smart grid in distributed system: A review”, Journal of mechanics of continua and mathematical sciences,2020, **(ESCI Journal)** (Wos), accepted.

10. Arunesh Singh, Abhinav Saxena, “Implementation Of Fuzzy Logic Controller In Solar Pv Array Based Ac Drives”, International Journal of Recent Technology and Engineering ,IJRTE (Journal Indexed in Scopus & Elsevier), ISSN: 2277-3878, Volume-8, pp.423-428, Issue-2S7, July 2019, Impact factor:0.16, B10780782S719/19©BEIESP DOI: 10.35940/ijrte.B1078.0782S719

11. Prashant, Abhinav Saxena, Anwar,satyam,vidushi, “An Advance Methodology For Hybrid Modelling And Selection Of Grid Integrated Renewable Energy [Wind/Solar] Profile Through Proteus”, International Journal of Recent Technology and Engineering ,IJRTE (Journal Indexed in **Scopus & Elsevier**), ISSN: 2277-3878, Volume-8, pp.429-434, Issue-2S7, July 2019, Impact factor:0.16, DOI: 10.35940/ijrte.B1079.0782S719

12. Abhinav Saxena, G M Patil, ppt, arun, Nirmal Kumar Agarwal, prashant, “Optimal load distribution of thermal generating units using particle swarm optimization (PSO)”, International Journal of Recent Technology and Engineering ,IJRTE (Journal Indexed in **Scopus & Elsevier**), ISSN: 2277-3878, Volume-8, pp.440-444, Issue-2S7, July 2019, Impact factor:0.16, DOI: 10.35940/ijrte.B1081.0782S719

13. Abhinav Saxena, A K singh, ppt, palak, waris, “Speed control of dc motor using fuzzy logic”, IOP press ,Journal of material science & engineering,**(scopus journal)**, Vol 594, Issue 1, pp:1-9, 1757-899X, 2019. 10.1088/1757-899X/594/1/012018

14. Abhinav Saxena, A.Singh, prashant, waris, A rana, “Novel Power Coefficient for extracting the maximum power in wind power based Doubly fed Induction generator(DFIG) using vector control”, IOP press , Journal of material science & engineering,2018,**(scopus journal)**., Vol 594, Issue 1, pp:1-12,2019, ISBN:1757-899X <https://doi.org/10.1088/1757-899X/594/1/012007>

15. Abhinav Saxena, A.Singh, “Implicit control of Induction Motor using Genetic Algorithm”, International Journal of Energy Technology and Policy-Publisher Inderscience’2019, **scopus journal**, (accepted)

16. Abhinav Saxena, shashank, “Construction Of Extra High Voltage Transmission Line Using MATLAB”, International Journal of Latest Technology in Engineering, Management & Applied Science” ISSN 2278-2540, Vol.7, Issue.3,april 2018 **(UGC Journal)**

17. Abhinav Saxena,A singh, “Modeling Of 3 Phase Induction Motor In Different Reference Frame”, published in “TIT International Journal of Science & Technology”,Vol:04,No:01,June2015,ISSN:2319-6688

18. Abhinav Saxena, A singh, shipra, saurabh, kodank, “Comparison between Wound Rotor Induction Motor and Doubly Fed Induction Motor Under Different Fault Condition”, Published in IJERT ISSN: 2278-0181, IJERTV5IS100154 Vol. 5 Issue 10, October-2016

19. Abhinav Saxena, Mohit Agarwal, “Comparative analysis of Brushless DC Motor”, published in the Journal ‘IETE,2017.

**INTERNATIONAL/NATIONAL CONFERENCES (37):**

20) Abhinav Saxena, Suyash Binod,Sudhanshu maurya,Om Kapoor, Utkarsh Singh, Rajesh Kumar,Amit kumar Sharma,’ Electric Vehicle Intelligent Monitoring and Analysis for Battery’, AIP publisher sponsored conference ICACITEE Dec. 2021 held at Greater Noida

21) Abhinav Saxena, Nirmal Kumar Agarwal, Archana Rani,’ To Analyze the Comprehensive Review MPPT Techniques of Wind Driven PMSG’ IEEE Conference ICACFCT 2021 MIET Meerut

22) Abhinav Saxena, Sachin Pachauri, Ramashankar Yadav, Sudhanshu Maurya, Gaurav Verma, Nirmal Kumar Agarwal,’Performance Analysis of Different Techniques of Traffic Control System’, IEEE Conference ICACFCT 2021 MIET Meerut

**23)** Prashant,Abhinav Saxena, Jay Singh, Amit Kumar Sharma,Nitin kumar pal,’ Design of Buck Converter with Modified P&O Algorithm Based fuzzy logic controller for solar charge controller for efficient MPPT, IICS Conference(springer sponsored)2021.

**24** Abhinav Saxena, Rajesh Kumar, Jay Singh, shilpi Kumari,,Mahima verma, Priyanshi Kumari, A soft computing intelligent technique implication for the comprehensive audit of Electric Vehicle, IICS Conference(springer sponsored)2021.

**25.** Abhinav Saxena, Nirmal Kumar Agarwal, Archit Kumar, Arpit Singh, Arpit Yadav, Arun Kumar ,

Amit Kumar Sharma,Electric Hazards Analysis:A review,RTPDP Conference, published in IOP series(scopus).

26. Nirmal Kumar Agarwal, Abhinav Saxena, Amurt Prakash, Amrit Kumar Yadav, Anant Sharma, Anand Pratap Singh,’Review on Unified Power Quality Conditioner (UPQC) to mitigate power quality problems, IEEE GCAT 2021, Date of publication:13-11-2021, doi:[10.1109/GCAT52182.2021.9587586](https://doi.org/10.1109/GCAT52182.2021.9587586)

27. Dr. Abhinav Saxena,Nirmal Kumar Agarwal,  Aman Rathore, Sonali Arora, Akash Yadav and Ayush Yadav,Auto-Intensity Regulation of Streetlights using Arduino, IEEE ISCON 2021,GLA Mathura,22-23 October 2021, doi:[10.1109/ISCON52037.2021.9702443](https://doi.org/10.1109/ISCON52037.2021.9702443), 14/02/2022 at Xplorer

28. Abhinav Saxena, G.M Patil, Nirmal Kumar Agarwal, Anushka, Amrut, Kailash,Environmental and Social Aspects of Microgrid Deployment- A Review' IEEE conference on UPCON 2021, doi: [10.1109/UPCON52273.2021.9667612](https://doi.org/10.1109/UPCON52273.2021.9667612)

29. Dr. Abhinav Saxena, Sachin Pachauri, Dr. Rajat Kumar, Ramashankar Yadav, Gaurav Verma and Nirmal Kumar Agarwal,Wireless Power Transmission: A Review, International Conference MARC 2021

30. Abhinav Saxena, Abhishek Kumar Singh,G.M Patil, Sanjeev Kumar Sharma, Sampath Kumar V, Sanjiba Kumar Bisoyi,Rajesh   Kumar, Analysis of solar PV array based buck convertor design by using modified P&O Algorithm, NCSEVES 2021, JSSATE Noida

31. G.M Patil,Abhinav Saxena, Aishwarya patil, “Optimization of Second Order Non-linear System using Fuzzy Logic Controller”, IEEE International Conference on Computing, Electronics & Communications Engineering 2019 (IEEE iCCECE '19), London Metropolitan University, London, UK, 26 ,December,2019,ISBN: 1927-6338. [10.1109/iCCECE46942.2019.8941791](https://doi.org/10.1109/iCCECE46942.2019.8941791)

32. [Amit kumar sharma](https://ieeexplore.ieee.org/author/37088844862), [akash pandey](https://ieeexplore.ieee.org/author/37088842266),[mohd. Ammar khan](https://ieeexplore.ieee.org/author/37088844855), [abhinav tripathi](https://ieeexplore.ieee.org/author/37088842054), [Abhinav saxena](https://ieeexplore.ieee.org/author/37085677236), [pankaj kumar yadav](https://ieeexplore.ieee.org/author/37088843441),’ Human following Robot’, IEEE [International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)](https://ieeexplore.ieee.org/xpl/conhome/9404366/proceeding), Greater Noida, doi: [10.1109/ICACITE51222.2021.9404758](https://doi.org/10.1109/ICACITE51222.2021.9404758), Date: 20,April,2021, ISBN: 978-1-7281-7742-7

33. Abhinav Saxena, G.M Patil, Anuradha, sajid, Siddhartha, abhishek, “A new implicit design & controlling of LQR for electric vehicle”, ICCSEMS 2020,25-26  September 2020,JSSATE Noida

34. Abhinav Saxena, Y.K singh, Ajai, satyam, Mohit, abhishek, “Power failure Fault detection wavelet transformation Algorithm for Transmission line network”, ICCSEMS 2020,25-26  September 2020,JSSATE Noida

35. Abhinav Saxena, A singh, Ankit, Sitesh, Anmol, Sharik, “Vector Control Analysis of Doubly fed Induction generator(DFIG) for different controlled parameters”, ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018. [http://bvicam.in/INDIACom/news/ INDIACom%202018%20Proceedings /Main /papers.html](http://bvicam.in/INDIACom/news/%20INDIACom%202018%20Proceedings%20/Main%20/papers.html)

36.Abhinav Saxena, A singh, Abhishek, Raj, Tanul, “Wind Power Based Doubly Fed Induction Generator (DFIG) For The Speed Control Using Rotor Side And Grid Side Converter”, ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018. [http://bvicam.in/INDIACom/news/ INDIACom% 202018%20 Proceedings /Main /papers.html](http://bvicam.in/INDIACom/news/%20INDIACom%25%20202018%20%20Proceedings%20/Main%20/papers.html)

37. Abhinav Saxena, Palak Tusyan, A singh, prashant, “Study of various FACTS devices for steady and dynamic state stability of Power System”, ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018. [http://bvicam.in/INDIACom/news/ INDIACom%202018%20Proceedings /Main /papers.html](http://bvicam.in/INDIACom/news/INDIACom%202018%20Proceedings/Main/papers.html)

38. Arunesh Singh, Abhinav Saxena, Asif, “A Review on DC Distributed System”, National Conference (NCSES),JSSATE Noida,ISBN: 978-93-5361-694-6,June,2019

39. Abhinav Saxena, Nirmal Kumar Agarwal, priya singh, vijay tomar, tushar jain, shivam samrat, “Underground Cable Fault Detection Using Arduino And GSM (5 V D.C.)”, National Conference (NCSES),JSSATE Noida,ISBN: 978-93-5361-694-6,June,2019

40. Abhinav Saxena, ppt, akshay, anshuman, “Advancement in Energy meter Reading”, International Conference on SV-TDFS,Manipal University Jaipur, Rajasthan, ISBN: 978-81-938236-5-1 ,08-09 October 2018. http://toc.proceedings.com/51648webtoc.pdf

41.Abhinav Saxena,ppt,vasu,shreya,anurag, “Photovoltaic Applications through muti-level cascading of DC/DC Converter”, International Conference on SV-TDFS 2018, Manipal University Jaipur, Rajasthan, ISBN: 978-81-938236-5-1, 08-09 October 2018

42. Abhinav Saxena,ppt,apar,aprajita, “Scada and its application in power generation and distribution system”, International Conference on SV-TDFS 2018,Manipal University Jaipur, Rajasthan, ISBN: 978-81-938236-5-1, 08-09 October 2018

43. Abhinav Saxena, A singh, rinki goyal, “Hybrid approach for Digital Watermarking using Intelligent System and Discrete Wavelet Transform (DWT)”, International Conference on SV-TDFS 2018, Manipal University Jaipur, Rajasthan, ISBN: 978-81938236-5-1 ,08-09 October 2018

44. A Saxena, A singh, “Sensorless fault analysis of Doubly fed induction motor”, IEEE Sponsored Conference, NSC-2017, Dayalbagh(DEI), Dec-2017

45. Abhinav Saxena, A singh, prashant, Nirmal Kumar Agarwal, “’ANALYSIS OF 3-PHASE INDUCTION MOTOR IN DIFFERENT SPEED REFERENCE FRAME COORDINATES”, IEEE International Conference ‘ICPCSI 2017’ ISBN: 978-1-5386-0814-2, June 2018. Doi: [10.1109/ICPCSI.2017.8391772](https://doi.org/10.1109/ICPCSI.2017.8391772).

46. Abhinav Saxena,Prashant, shipra, saurabh, kodank, aniket, “FAULT INJECTION ANALYSIS OF WOUND ROTOR INDUCTION MOTOR AND DOUBLY FED INDUCTION MOTOR(DFIG)”, IEEE International Conference on INDIACOM 2017, ISSN 0973-5658 ; ISBN 978-93-80544-24-3,2017

47. Abhinav Saxena,A srivastava,vijay,sumeta,pulkit, “ANALYSIS OF SPEED CONTROL OF DOUBLY FED INDUCTION MACHINE (DFIG) USING DIFFERENT TECHNIQUES”, IEEE International Conference on INDIACOM 2017, ISSN 0973-5658 ; ISBN 978-93-80544-24-3,2017

48.Abhinav Saxena, A singh, “Performance of Sensor and Sensorless Doubly fed Induction motor (DFIG) under the current sensor fault”, IEEE Explorer International Conference on ICPEICES 2016, ISBN 978-1-4673-8587-9/16/$31.00 ©2016 IEEE,february 2017, doi: [10.1109/ICPEICES.2016.7853315](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1109%2FICPEICES.2016.7853315?_sg%5B0%5D=KZy595bkaBs3kww8XwoJheuAaEl6OQLfy_gOAP3Nbd4e3kCNFiq62CtjBgM-K5QMLnpXt6uzA17rN1Ex127nzjUSPQ.qfNpXRBCa-9v7VF9W37cgYtr4uv0JpP6u0vOCDzJSXhpp3UHZU7bDLjzfRa2Q-UNGn5RxRYAAcnwLRgrR3ORfw).

49.Abhinav Saxena,A singh,pawar,sangeeta, “Analysis of Intelligence Techniques on Sensor less Speed Control of Doubly fed Induction machine (DFIG)”, IEEE Explorer International Conference on INDIACOM 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5,2016

50. Abhinav Saxena,divyang,shipra,dushyant,periyal, “Comparative analysis of Sensor-less speed control of Three phase Induction motor”, IEEE Explorer International Conference on INDIACOM 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5,2016

51. Abhinav Saxena, V chandana, “Limitation and improvement in the course outcome”, IEEE Explorer International Conference on MITE 2015, ISBN 978-1-4673-6746-2/15, 2015 IEEE,2015

52. Abhinav Saxena, A singh, International conference ‘GYANODAYA 2015’ on the topic ‘Sensor less Speed estimation of 3 phase Induction motor for open loop systeem’,2015

53. Abhinav Saxena, A singh ,national conference, “torque and speed response of doubly fed induction machine under current sensor fault”, ETEEE 2015 at JAMIA MILLIA ISLAMIA 2015

54. Abhinav Saxena, Nirmal kumar Agarwal, Rajesh, “Comparative Analysis of Hydropower Plant Using MATLAB/SIMULINK", INTERNATIONAL CONFERENCE ON ADVANCES IN BUSINESS AND ENGINEERING FOR SUSTAINABILITY, ABES ghaziabad, 27-28 march 2018

55.Abhinav Saxena,a kalam,ppt,priya, “Comparative Analysis of DC-DC Converter for Application in Energy System based on Renewable Energy Resources", INTERNATIONAL CONFERENCE ON ADVANCES IN BUSINESS AND ENGINEERING FOR SUSTAINABILITY, ABES ghaziabad, 27-28 march 2018

56.Abhinav Saxena,bisoyi,prashant, “Protection of 3-phase Induction motor under 1phase fault", INTERNATIONAL CONFERENCE ON ADVANCES IN BUSINESS AND ENGINEERING FOR SUSTAINABILITY, ABES ghaziabad, 27-28 march 2018

**Book Chapter (3):**

57. Abhinav Saxena,A k singh,Imran, Umakanth chaudhary, “A Comprehensive Review on Active & Reactive power control of grid connected converters”, lecture notes on electrical engineering,springer, 10 september 2021,pp:659-666,ISBN: 978-981-16-4149-7, DOI:https://doi.org/10.1007/978-981-16-4149-7\_59

58. Abhinav Saxena,Arunesh Singh, “Adaptive Fuzzy logic controller for the Minimum power extraction under Sensor less control of Doubly fed induction Motor(DFIM) feeding pump storage turbine”, DOI: [10.1007/978-981-13-1822-1\_40](http://dx.doi.org/10.1007/978-981-13-1822-1_40), In book: Applications of Artificial Intelligence Techniques in Engineering, pp.431-441,vol.2, ISBN: 2194-5357, September 2019

59. Abhinav Saxena, A singh, “‘A Review on Sensor less control of Doubly fed induction machine”, International conference ‘CSPE 2015’ organised by IDES, ISBN: 978-93-85965-79-1(scopus), Advance In Engineering And Technology(book chapter), 9789352603855, 173-179, 2015

**Research Project(1):**

1. Project on the topic **“Maximum power extraction from solar PV Array in distributed system using soft computing technique”** has been granted under AKTU ‘**Visvesvaraya Research Promotion Scheme(VRPS)’** worth 500000 INR.

**PATENT (10):**

1. Dr. Abhinav Saxena, Hemant Ahuja, Rahul Virmani, Gurpreet Singh, Arika Singh, Deepak Gangwar, “SYSTEM AND METHOD FOR REMOTELY CONTROLLED HOME APPLIANCES”, Application No.202011056762 A, Date of filing of Application :28/12/2020, Publication Date : 01/01/2021, The Patent Office Journal No. 01/2021, Page No.119
2. Dr.Abhinav Saxena, Dr. G.M Patil, Dr.Md.Abul Kalam, “autonomous switching & controlling of domestic home appliances in single switch board”, IP intellectual property india, patent no. 201911002166A, Date of filing: 16/01/2019,Published on 28/08/2020, date of file: 16/01/2020.
3. Dr.Abhinav Saxena,Dr. G.M Patil, Nirmal Kumar Agarwal, “Detection and monitoring of Covid-19 from smart phone and digital clock using intelligent technique”, Application No. 202011049427, Date of filing: 12/11/2020.
4. Dr. Abhinav Saxena, Nirmal Kumar Agarwal, Rajesh kumar, A K singh, prashant, Dr Md Abul Kalam, Amit Sharma, Nitin pal, Sunil, Kailash, Devendra, “Intelligent controlling and monitoring of charging and discharging of electric vehicle batteries”, Application No. 202111006557A, Date of filing: 17/02/2021, Published:26/02/2021
5. Dr. Abhinav Saxena, Dr. Amit Kumar Sharma, Dr. Nitin Kumar Pal, Dr. Sunil kumar Chaudhary, Dr. Puneet Chandra Srivastava, Dr. Kiran Srivastava, Dr. Neeraj Kumar, Mr. Chandan Choubey, Mrs. Priyanka Datta, Dr. Bharat Singh, Mr. Manoj Kumar, Mr. Gyanesh Singh,’ Optimal interference minimization between communication and transmission line using artificial intelligence based electromagnetic waves method’,Date of filing:30/07/2021’, Date of publication: 10/09/2021,Application No. 202111034313 A
6. Dr. Abhinav Saxena, Mr. Gaurav Verma,Dr Aseem Chandel, Mr. Nikhil Chaudhary, Mr. Sachin Pachauri, Dr. Chandra Bhan Vishwakarma,’A grid integrated hybrid renewable energy system with optimal controlling of carbon emission for sustainable and reliable solution’**,** Date of filing: 28/10/2021,Application No. 202111049294A, Date of publication: 26/11/2021
7. Dr. Abhinav Saxena, Dr. Md. Abul Kalam, Dr. Rajat Kumar, Mr. Mukesh Yadav, Mr. Pawan Kumar Kashyap, Mr. Amit Kumar Dash, Mr. Brijesh Prasad, Dr. Mohit Kumar, Dr. Govind Singh Patel,’Optimal control of electromagnetic waves through artificial intelligent for enhancing the power transmission in high voltage transmission line’**,** Date of filing: 28/10/2021, Application No. 202111049295A, Date of publication: 26/11/2021
8. Dr. Abhinav Saxena, Mr. Gaurav Verma, Mr. Shivam Yadav,Mr. Desh Deepak, Mr. Vijay pal singh, Mr. Baljeet Yadav, Mr. Sampath Kumar V, Prof. J P Pandey,“ Optimal intelligent controlling and management of Electrical Vehicle charging*”*,Application No. 202211007129A, Date of Filing: 10/02/2022, Date of published: 25/02/2022
9. Dr. Abhinav Saxena, Dr. Prakash Kumar Singh, Dr. Rajat Kumar, Mr. Prashant, Mr. Pawan Kumar Kashyap, Mr. Mukesh Yadav, Mr. Puneet Kumar,Mr. Manoj Kumar,Mr. Gaurav Verma, Mr. Baljeet Yadav, Mr. Gyanesh Singh,Mr. Lokendra Kumar, Dr. Mohit Kumar, “Stragedy economic analysis of plug-in battery of electric vehicle*”*, Application No.202211007133A , Date of Filing: 10/02/2022, Date of published: 25/02/2022
10. Dr. Abhinav Saxena ,Dr. Md.Abul Kalam, Dr. Srikanth Allamsetty, Mr. Mukesh Yadav,Mr. Tarun Rathi,Mr. Amit Kumar Dash,Dr. Natwar Singh Rathore, Dr. Gurulingappa M. Patil,’An implicit approach for power quality assessment and controlling of solar photovoltaic integrated converter system’, Application No.202211013318A , Date of Filing: 11/03/2022, Date of publishing: 25/03/2022

**FACULTY DEVELOPMENT PROGRAMME(FDP)/WORKSHOP**

1. One week FDP on Reliable solution and development in JSSATE Noida.
2. One Week FDP on the topic ‘ROBOTICS’ organised by NITTTR at BIT MEERUT
3. Two Week FDP on the topic ’ Research methodology ’ organised by NITTTR at JSSATEN
4. One Week workshop on INSPIRE PROGRAMME organised by Ministry of Science(Govt.) at JSSATEN
5. One Week FDP on Power electronics based renewable energy at ABES Ghaziabad
6. One Week FDP on Ethics at GL Bajaj G.B Nagar
7. Two Week FDP on Power system network at VIET Dadri

**INTERNSHIP INFORMATION**

**Bharat Heavy Electrical limited (BHEL) Ranipur, Haridwar (UK)**

Turbogenerator (1 month)

Brief study of turbo-generators and its constructional features

**PROJECTS**

1. **IIT ROORKEE**

**Sensorless control of grid connected Doubly fed Induction machine ( 1 year)**

Firstly, model the doubly fed induction machine using simulation in MATLAB, estimate the speed, current, torque of DFIM, Sensorless means compute the speed and torque estimation without considering the speed sensor by simply transforming the rotor currents in different reference frame, This scheme has advantage in such a way that it reduces the fluctuation in the measurement of grid voltage and current, reduces system complexity, more efficient machine, lesser cost, lesser error in the measurement of speed and torque.

**2. IIT ROORKEE**

Prepare Detailed project Report(DPR) forSARYU SANTESHWAR HPP in hilly areas of uttrakhand at river bed elevations varying from 832 to795 . The Catchment area is 1402 sqm.The observed river discharges at Bagheshwar guage site where catchment area is 1275 sqm. The main objective is to harness renewable energy sources for meet the growing energy demand. Further Power house designing is covered with different aspects of logic gates design for its operational for switch ON/OFF controller and different signal processing devices are assessed in the design of power house.

**3. JSSATE NOIDA**

**Design of Linear Induction motor for the propulsion of MAGLEV ( 6 month)**

Consider linear induction motor having stator on rail track of 1m and rotor on train .Rail track is impinged with electromagnet and rotor is provided permanent magnet. When supply given to stator terminal through auto transformer, sense of winding in electromagnet in such a way that it will produce same pole as permanent magnet, now this repulsion force will levitate the train above the track and maintain air gap of 5 mm, Now with the help of linear induction motor train will move in forward direction. Linear induction motor will be of Electro dynamic system (EDS) type

**Academic Achievements**

1. **Best Teacher award 2021** by Dr. A.P.J Abul kalam technical university lucknow.
2. Session chair in IEEE Conference ICACFCT-2021 held at MIET meerut.
3. Session Chair in IEEE Conference ICAT 2021 at Greater Noida.
4. Session Chair in IEEE Conference GCAT 2021 at Bangalore
5. Session Chair in Springer sponsored International conference MEDCOM 2021 at Greater Noida
6. Session chair in springer sponsored international conference IICS 2021 at Greater Noida
7. Session chair at IEEE Conference ‘ICAC3CN 2021’ held at Greater Noida.

1. IES 2012, 2015, 2016, 2017 written qualified.
2. Secured above **99 percentile in GATE** 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020,2021
3. More than **10 PSU’s** written qualified in NTPC, UPPCL,BARC,SAIL,HPCL, etc.
4. Selected in extended merit list of IIT JEE 2007
5. **Topper** of the school in 10th class

**SKILLS AND ACHIEVEMENTS**

* Computer Language: Basic knowledge of C, PYTHON, MACHINE LEARNING
* Software packages: MATLAB,
* Languages Known: English (SRW), Hindi (SRW)

**EXTRA CURRICULARS**

* **IIT ROORKEE (2012)**
* PLACEMENT COORDINATOR OF THE IIT ROORKEE
* Tech fest of IIT Roorkee 'COGNIZANCE ' (2012)
* Work as organising member
* **WIROLOGY (2010)**
* Event coordinator OF WIROLOGY in jss noida techfest 'ZEALICON 2010'
* **'OORJA' electrical enggineering society of JSSATE NOIDA (2011)**
* WORKS AS A TECHNICAL COORDINATOR
* **'EXTREME ENGINEERING' electric train (2009)**
* PARTICIPATED
* **INDIAN TALENT PROGRAM ORGANIZE BY HOPE (2006)**
* PARTICIPATED
* **MATHS OLYMPIAD (2006)**
* QUALIFIED AT CITY LEVEL

**PERSONAL DETAILS**

Father's Name : Sh. Rajesh Kumar Saxena

Madhu Saxena : Madhu Saxena

Date of Birth : March 23,1989

Gender : Male

Contact No : 9810241846,8909263616

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**REFERENCES**

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Associate Professor Assistant professor

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**CERTIFICATION**

I, the undersigned, certify that to the best of my knowledge and belief, this resume correctly describes me, my qualifications and experience.

Date: April, 2022

Palce: Noida (UP) **(Dr. Abhinav Saxena)**