

Assistant Professor	National Institute of Technology- Tiruchirappalli	Mar 2020	Till date
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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Jamia Millia Islamia University (Central University), New Delhi	2018		
Master of Technology	Jamia Millia Islamia University (Central University), New Delhi	2013	9.67/10	Electrical Power Systems Management
Bachelor of Technology	Maharaja Surajmal Institute of Technology, New Delhi	2010	72.5%	Electrical and Electronics Engineering,

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2015	Best paper award	IEEE Conference INDICON

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels –
 Subjects: Microprocessor and Microcontroller; Power Generation System; Integrated Circuits and Applied Instrumentation; Distribution System Automation; Alternate Sources of Energy; Power System Automation; Dynamics of Electrical Machines

Laboratory handled: Power Systems Lab; Network Theory Lab; Advanced Power Systems Lab; SCADA Lab; DC Machines and transformer Lab; Synchronous and Induction Machines Lab; Electronics and Circuits Lab; Microcomputing and VLSI Design Lab; Simulation Tools for Electrical Engineering Lab; Power System Automation Lab; Seminar/Colloquium

(iii) Projects guided at Postgraduate level – 04

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
“Modelling and Simulation Tools in Electrical Engineering (Level-1)	National	12 th to 16 th April 2021	Coordinator	Virtual
Modern Power System Optimization: Techniques, Tools, and Applications (MPSOTTA)	National	3 rd -7 th May 2021	Coordinator	Virtual

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
IEEE Member	IEEE	93392834

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Ankur Singh Rana, Jnaneswar K, Mouna Krishna, Neeraj Kumar, Shufali Ashraf Wani, Mini S Thomas	Design and Implementation of Low-Cost PMU for Off-Nominal Frequency and DDC in Compliance with IEEE C37.118 Standard	Distributed Generation & Alternative Energy Journal			2022	
Ankur Singh Rana, B Bhavani Bhagyasree, Harini T.M, Sreenu Sreekumar, More Raju	Optimisation of Economic and Environmental Dispatch of Power System with and without Renewable Energy Sources	Distributed Generation & Alternative Energy Journal			2022	
Sreenu Sreekumar, Sumanth Yamujala, Kailash Chand Sharma, Rohit bhakar, Sishaj P Simon,	Flexible Ramp Product; Net Load Forecasting; Net Load Uncertainty; Power system flexibility; Renewable integration;	Renewable and Sustainable Energy Reviews (Accepted).			2022	

Ankur Singh Rana	Wind and Solar generation					
Shufali Ashraf Wani, Ankur Singh Rana, Shiraz Sohail, Obaidur Rahman, Shaheen Parveen, and Shakeb A. Khan	Advances in DGA based condition monitoring of transformers: A review	Renewable and Sustainable Energy Reviews	149	111347	2021	
Ankur Singh Rana, Fahad Iqbal, A S Siddique, Mini S. Thomas	A Hybrid Methodology to Analyse Reliability and Techno-Economic Evaluation of Microgrid Configurations	IET Generation, Transmission & Distribution	13	4778-4787	2019	
Ankur Singh Rana, Mini S. Thomas, Nilanjan Senroy	Reliability Evaluation of WAMS using Markov Based Graph Theory Approach	IET Generation, Transmission & Distribution	11	2930-2937	2017	
Ankur Singh Rana, Mini S. Thomas, Nilanjan Senroy	Communication Latency Reduction In Wide Area Measurement Control And Protection	Australian Journal of Electrical and Electronics Engineering, Taylor and Francis	13	220-228	2016	
Fahad Iqbal, Anwar Shahzad Siddiqui, Tanmoy Deb, Mohd Tauseef Khan, Ankur Singh Rana	Power Systems Reliability- A Bibliographical Survey	Smart Science; Taylor and Francis	6	80-93	2018	

Mohammad Usman, Mohd Tauseef Khan, Ankur Singh Rana, Sarwar Ali	Techno-Economic Analysis of Hybrid Solar-Diesel- Grid Connected Power Generation System	Journal of Electrical Systems and Information Technology, Elsevier Publishers	5	653-6623	2018	
Shahzad Ahsan, Kashif Javed, Ankur Singh Rana, Mohammad Zeeshan	Design and Cost Analysis of 1 kW Photovoltaic System Based on Actual Performance in Indian Scenario	Perspectives in Science (Elsevier Publishers)	8	642-644	2016	
Mohit Bajaj, Ankur Singh Rana	“Harmonics and Reactive Power Compensation of Three Phase Induction Motor Drive by Photovoltaic based DSTATCOM	Smart Science; Taylor and Francis	6	319-3293	2018	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Ankur Singh Rana, Shufali Ashraf Wani, Nisha Parveen, and Mini Shaji Thomas	Estimation of Fault Location Using Cyber-Physical System in WAMCP	Internet of Energy Handbook	139-157			2021
Ankur Singh Rana, Mohit Bajaj,	Optimal power flow solution in smart grid environment using SVC and TCSC	Advanced Communication and Control Methods for Future Smartgrids				2019

Shrija Gairola						
Fahad Iqbal, Ankur Singh Rana, Shufali Ashraf Wani	Design and Analysis of a Cost Effective Standalone Solar – Diesel Hybrid Power System	Handbook of Research on Power and Energy System Optimization	552-570			2018
Ankur Singh Rana, Nisha Parveen, S. Afroz Ali and Mini S. Thomas	Power system protection enhancement using synchronized measurements	Emerging Trends in Electrical and Electronics Engineering	53-61		New Delhi	2015
Syed Afroz Ali, Ankur Singh Rana, Nisha Parveen and Mini S. Thomas	Practical implementation of IEC 61850 based substation	Emerging Trends in Electrical and Electronics Engineering	329-338		New Delhi	2015
Prakhar Srivastava, Mohit Bajaj and Ankur Singh Rana	Overview of ESP8266 Wi-Fi module based Smart Irrigation System using IOT	Fourth International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)	1-5		Chennai	2018
Prakhar Srivastava, Mohit Bajaj and Ankur Singh Rana	IOT based controlling of hybrid energy system using ESP8266	IEEMA Engineer Infinite Conference (eTechNxT)	1-5		New Delhi	2018
Mohit Bajaj, Ankur Singh Rana,	An Improved SRF based Control Algorithm for D-STATCOM under Abnormal Source Voltage	3rd IEEE Nanotechnology for Instrumentation and Measurement	1-6		New Delhi	2016

Nisha Parveen, Ankur Singh Rana, and Mini S. Thomas	A Practical approach for locating faults for overhead transmission lines using synchronized measurements from PMUs	1st IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016)	1-5		Delhi	2016
Ankur Singh Rana, Mini S. Thomas, Nilanjan Senroy	Wide Area Measurement system performance based on latency and link utilization	12th IEEE India International Conference (INDICON-2015)	1-5		Delhi	2015
Ankur Singh Rana, Nisha Parveen, Shaziya Rasheed, and Mini S. Thomas,	Exploring IEEE standard for synchrophasor C37.118 with practical implementation	12th IEEE India International Conference (INDICON-2015)	1-6		New Delhi	2015
Syed Afroz Ali, Mini S Thomas, Ankur Singh Rana	Improving the performance and reliability of IEC 61850 based substation using backup IED concept	12th IEEE India International Conference (INDICON-2015)	1-6		New Delhi	2015
Mohit Bajaj, Mukesh Pushkarna, Ankur Singh Rana, Mohd Tauseef Khan	An Improved SRF based Control Algorithm for D-STATCOM under Abnormal Source Voltage	12th IEEE India International Conference (INDICON-2015)	1-6		New Delhi	2015
Mohit Bajaj, Mukesh Pushkarna, Ankur	A Modified Algorithm for Time Varying Reactive Power Control and	12th IEEE India International Conference	1-6		New Delhi	2015

Singh Rana, Mohd Tauseef Khan	Harmonics Compensation by D-STATCOM	(INDICON-2015)				
Mini S. Thomas, Nilanjan Senroy, Ankur Singh Rana	Analysis of Time Delay in a Wide-Area Communication Network	IEEE International conference (PIICon)	1-6		New Delhi	2014

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number