

Achievements of Department and Faculty:

Patents:

Dr. L. M. Saini

Sr No.	Title	My role	Application No.	Status
1.	System and method for detection, prevention of accidents, faults and theft of power on distribution lines and automation.	Applicant and Principal or main inventor	665/DEL/2007	Granted Patent No. 225783
2.	System and method for automatic transfer of liquid from source to destination reservoir or tank and automatic filling of an overhead liquid reservoir or tank from a continuous liquid source.	Applicant and Principal or main inventor	1502/DEL/2007	Granted Patent No. 263703
3.	System and method for controlling the temperature of liquid flowing through a pipe line	Co-inventor	1351/DEL/2009	Granted Patent No.300433
4	Inflatable, Soft Retractor For Surgery	Main inventor	201811023272	Under examination
5	Portable Automatic Artificial Breathing System	Main inventor	202011014480	--do--

Mr. Pradeep Ranga (301804105) granted Patent on 09/11/2021, titled, "Reduction of Harmonics in Three Phase Induction Motor Using Harmonic Injection Method

Projects:

Faculty	Project Title	Funding Agency	Amount (in lacs)
Prof. A Swarup	Information Security and Awareness(ISEA) project-Phase II	Ministry of Electronics and Information Technology (MeitY) GOI	36.06 (First Installment)
Prof. Sathans	Building Integrated PVT Systems for Domestic and Industrial Applications	NPIU TEQIP Collaborative Research Scheme	13.97

Prof. Monika Mittal	Data Fusion Algorithms for Vehicle Detection and Classification System	DRDO, GOI	21.39
Prof. Bhanu Pratap	Design, Fabrication & Testing of Active Magnetic Bearing for Centrifugal Pumps With VFD	Indian Navy	29.9
Dr. Saurabh Chanana	Modelling and Simulation of Explosively Driven Helical Flux Compression Generator	DRDO	9.80
Dr., Amit Kumar (co-P.I.)	Modelling and Optimization of Bio-Gas production for Advance Fuel, Heat and Power Production	NPIU	15.71
		Total	126.83

Consultancy:

Name of Faculty	Sponsoring Agency/Job Nos.	Financial Year (in lacs)
Dr. Monika Mittal	Proof checking of MEP design and drawings for construction of Nau Sena Bhawan-II in Delhi Cantt	5
Dr. Saurabh Chanana	Vetting of Air Conditioning Load Calculations for Air Force Auditorium, Jammu (Fire Envo Safety Engineers, Panchkula.)	0.472
Dr. Anil Dahiya	Proof checking of Electrical design and drawings of various 34 MLD STP scheme (Project Manager Construction Unit, U.P. Jal Nigam, Agra, U.P.)	1.18

Prof. Ashwani Kumar (PI) Dr. Atma Ram Gupta (Co-PI)	Sri Siddhi Vinayak Seviles To vet the design of lightning protection system for 3 buildings	1.062
Prof. Ashwani Kumar (CoPI) Dr. Atma Ram Gupta (PI)	Testing the samples for ACSR conductors size verification of two ACSR conductors Haryana State Agricultural Marketing Board, Panchkula	0.236
	Total	8.1

Publications of faculty in High impact factor Journals:

Name of Journals	Impact factor
Journal's Impact IF of Renewable and Sustainable Energy Reviews	14.982
The Impact Factor for the IEEE Transactions on Smart Grid is Applied Energy, Elsevier	8.96
IEEE Trans. On Power Systems	9.746
Sustainable Energy Technologies and Assessments – An International Journal · The Impact Factor of this journal	6.078
International Journal of Electrical Power & Energy: IET Generation, Transmission and Distribution, Impact factor	5.353.
Ain Shams Engineering Journal:	4.630
International Transactions on Electrical Energy Systems:	3.28
The International Journal of Control, Automation, and Systems (IJCAS):	3.180
Frontiers in Energy, Springer	2.860
Impact IF of International Journal of Ambient Energy i	2.817
IETE Journal of Research, Journal's Impact IF of IETE Journal of Research:	2.671
	2.326
	2.333

The impact score (IS) 2020 of International Journal of Automation and Control:	2.11
International Journal of Computing Science:	1.62
Journal's Impact IF of International Journal of Dynamics and Control:	2.016
Taylor and Francis, EPCS Impact Factor	1.221
Journal of the institution of engineers (India): Series b:	0.88
Journal's Impact IF of International Journal of Emerging Electric Power Systems	0.861

Books Published:

Edited Books of Conference Proceedings:

1. **Wiley Acing the GATE: Electrical Engineering, 2ed, 2020**, by Debashis Chatterjee, J. S. Lather, et al. | 1 January 2019



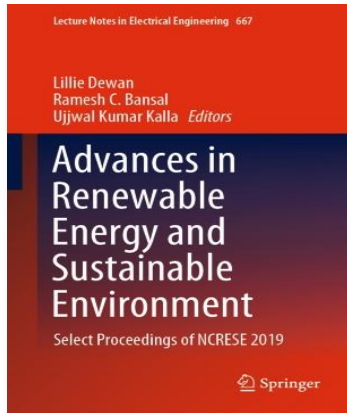
2. **Wiley's GATE Electrical Engineering Chapter - Wise Solved Papers (2000 - 2019)** by Debashis Chatterjee, J. S. Lather, et al. | 1 January 2019.



Advances in Renewable Energy and Sustainable Environment

Select Proceedings of NCRESE 2019

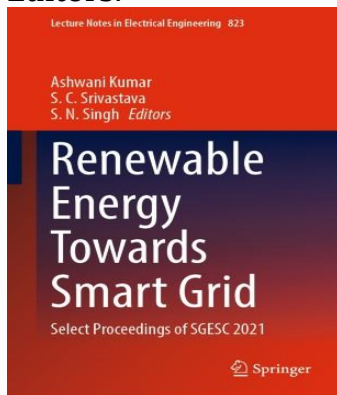
- **Editors:** Lillie Dewan, Ramesh C. Bansal, Ujjwal Kumar Kalla



Renewable Energy Towards Smart Grid

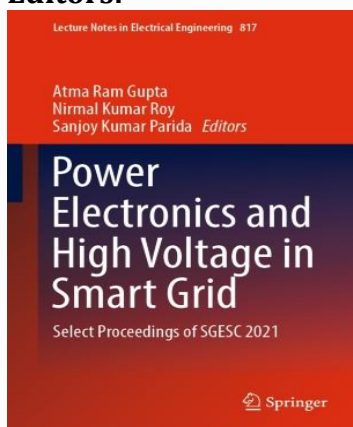
Select Proceedings of SGESC 2021

- **Editors:** Ashwani Kumar, S. C. Srivastava, S. N. Singh



Power Electronics and High Voltage in Smart Grid, Select Proceedings of SGESC 2021

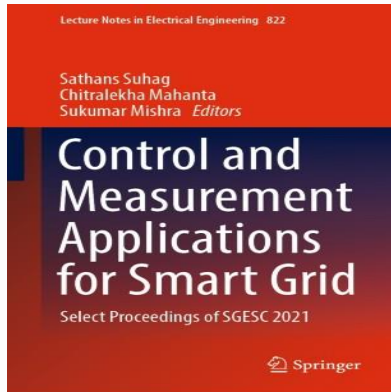
- **Editors:** Atma Ram Gupta, Nirmal Kumar Roy, Sanjoy Kumar Parida



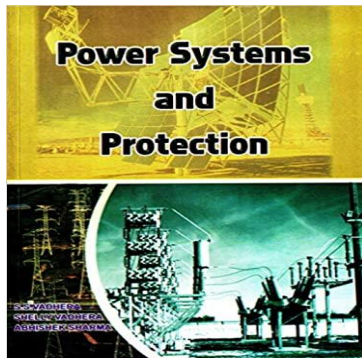
Control and Measurement Applications for Smart Grid

Select Proceedings of SGESC 2021

- **Editors:** **Sathans Suhag, Chitralkha Mahanta, Sukumar Mishra**



POWER SYSTEMS AND PROTECTION, May 2015
by ABHISHEK VADHERA S.S VADHERA, SHELLY VADHERA (Author)



Awards and Honors:

Dr. L. M. Saini, Best Faculty Award: Research and Citations, 2017, NIT Kurukshetra

Dr. Ashwani Kumar, Best Faculty Award: Research and Citations, 2017, NIT Kurukshetra

Dr. Lillie Dewan, Best faculty award in Administration, 2018

Dr. Sathans, Best faculty award in Administration, 2018

Dr. Akhilesh Swarup, SM, IEEE

Dr. Ashwani Kumar, Fellow of IEI, India, Fellow of IETE, SM IEEE

Dr. Atma Ram Gupta, SM, IEEE, Executive member IEEE Delhi Section, Editor of IARJET, Int. Advanced Research Journal of Engg. And Technology.

Dr. Ashwani Kumar

Awards for Best M. Tech. Thesis in India Best M. Tech. thesis award POSOCO Power Awards (PPSA)

- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2013 for the thesis “Load shedding scheme for multi-area system in pool and bilateral electricity markets”.
- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2014 for the thesis “Distribution System analysis with distributed generation and capacitors based on sensitivity methods with time variant load model”.
- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2015 for the thesis (with in top 20 thesis in India, ranked fourth in India) “A new load flow analysis and distributed generation placement in balanced and unbalanced distribution systems”.
- ❖ TATA Rao medal for the best paper in IEI, India, Springer Series, B., 2016.
- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2016 for the thesis (with in top 20 thesis in India) “Distribution system analysis with renewable energy sources integration”.
- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2017
 - (i) Distribution system pricing analysis with renewable sources and non-linear loads
 - (ii) Available transfer capability determination with renewable sources integration
 - (iii) Distributed generation placement and unit commitment using heuristic methods
 - (iv) Impact of renewable energy sources for congestion management in deregulated electricity markets
- ❖ Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2018
 - (i) Ms. Smriti Singh, NIT Kurukshetra, Congestion Management using Demand Response Program
 - (ii) Mr. Bhaskarjyoti Das NIT Kurukshetra, Optimal Scheduling of Energy Storage

Dr. Shivam :

Mr. Harshit Vallecha, got POSOCO Award for Masters research.

- ❖ VVSN Murty, TATA Rao medal for the best paper in IEI, India, Springer Series, B., 2018.
Dr. Amit Kumar and Dr. Sathans, Best paper award awarded the Union Ministry of Energy - Department of Power Prize Award for “Impact of TCPS, SMES and DFIG on Load Frequency Control of Nonlinear Power Using Differential Evolution Algorithm”, published in the Series B Journal of IEI, Vol. 100, Issue 2, which was presented at the Prize Distribution Ceremony of the 36th Indian Engineering Congress held at Vigyan Bhawan, Maulana Azad Road, New Delhi on December 26, 2021

Achievement of Students:

Best M. Tech. thesis award POSOCO Power Awards (PPSA),

- ❖ **Deepak Tyagi**, for the thesis “Load shedding scheme for multi-area system in pool and bilateral electricity markets”.
- ❖ **V.V.S.N Murty** “Distribution System analysis with distributed generation and capacitors based on sensitivity methods with time variant load model”.
- ❖ **Ravi Teza** “**A new load flow analysis and** distributed generation placement in balanced and unbalanced distribution systems”.
- ❖ **Mittapalli, TATA Rao medal for the best paper in IEI, India, Springer Series, B., 2016.**
- ❖ **Sooraj Narayan, “Distribution system analysis with renewable energy sources integration”.**
- ❖ **Best M. Tech. thesis award POSOCO Power Awards (PPSA), 2017**
 - (v) Karrimula Polishetti, Distribution system pricing analysis with renewable sources and non-linear loads
 - (vi) Available transfer capability determination with renewable sources integration
 - (vii) Ankit Uniyal, Distributed generation placement and unit commitment using heuristic methods
 - (viii) Rahul Sagwal, Impact of renewable energy sources for congestion management in deregulated electricity markets
 - (iii) Ms. Smriti Singh, NIT Kurukshetra, Congestion Management using Demand Response Program
 - (iv) Mr. Bhaskarjyoti Das NIT Kurukshetra, Optimal Scheduling of Energy Storage

- **VVSN Murty, TATA Rao medal for the best paper in IEI, India, Springer Series, B., 2018.**
- **Jaswant Singh Bhati M. Tech. Scholar, PS, secured all India rank 84 in GATE 2020.**
- **Smriti Singh has been conferred with POSOCO power system awards -2018 for her M. Tech dissertation.**
- **‘Harshit Vallecha’ worked with Prof. Shivam, got POSOCO Award for Masters research, 2018**

Placement:**Names of the Companies:**

Name Of Company
Infosys Bangalore
IBM India Pvt Ltd
CSIR NIO
KPIT
ONWORDS TECH. LTD.
CUMMINS
M/S Eclerx
Expertlancing
M/S Technip FMC
Wi2wi India Pvt. Ltd.
Arcelor Mittal Nippon Steel India LTD
Expertlancing
Stryker India
General Electric
Power Grid
PWD (B&R)
Indian Railways
AIS Glass, Bawal, HR
West Bengal Development Corporation Limited
Supervisory Training Centre, New Bongaidaon
M/S Eclerx
Faculty,Rajasthan Tech. Univ. Kota

Higher Studies: Names of the Institutions:

IIT Kharagpur, IIT Delhi, NIT Silcher, IIT Bombay,IIT BHU, IIT Roorkee etc.

Administrative Contribution of Faculty:

S. No.	Name of Faculty	Administrative Responsibility
1.	Prof. Akhilesh Swarup	Director Incharge, Dean (Planning and Development), Dean (Faculty Welfare), TEQIP Coordinator, Founder and Coordinator SREE, Head of Department
2.	Prof. K. S. Sandhu	Dean Academics, Prof. I/C Training and Placement, Proctor, Chairman PFC, Warden, Head of Department, Chairman Recruitment under Compassionate Ground
3.	Prof. Lillie Dewan	Chief Warden (Girls), Coordinator SREE, Prof. I/C CCN, Literati Coordinator, Head of Department
4.	Prof. R. S. Bhatia	Head MCA, Prof. I/C CCN, Head of Department
5.	Prof. G. L. Pahuja	Literati Coordinator, Head of Department
6.	Prof. Ratna Dahiya	Coordinator SREE, Prof. I/C Sports, Head of Department

7.	Prof. L. M. Saini	Founder and Coordinator School of Biomedical, Prof. I/C (Admissions), Head of Department
8.	Prof. A. Kumar	Prof. I/C CCN, Prof. I/C Electrical Maintenance, Prof. I/C Results. Hostel Warden, Prof. I/C Health Center, Head of Department, Nodal Officer Grievance Cell
9.	Prof. Jyoti Ohri	Chief Warden (Girls), Prof. I/C Students Clubs, Prof. I/C Institute Time Table
10.	Prof. J. S. Lather	Faculty I/C Unnat Bharat Abhiyan, Faculty I/C CCN, Co-coordinator MCA
11.	Prof. Sathans.	Dean Academic. Dean Student Welfare, TEQIP Coordinator
12.	Prof. Yashpal	Member Canteen Committee
13.	Ms. Sunita Chauhan	Special Nominee Board Member,
14.	Ms. Rupanshi Batra	Special Nominee Board Member,
15.	Dr. Monika Mittal	Faculty I/C Fine Arts Club
16.	Dr. Saurabh Chanana	Prof. I/C Electrical Maintenance,
17.	Dr. Shelly Vadhera	Co-coordinator SREE, Faculty I/C Clubs, Faculty I/C Electroteck
18.	Dr. Anil Kumar Dahiya	Prof. I/C Horticulture
19.	Dr. Bhanu Pratap	Warden
20.	Dr. Atma Ram Gupta	Warden, Faculty I/C Electroteck
21.	Dr. M.P.R. Prasad	Warden, Nodal Officer OBC Cell
22.	Dr. Sandeep Kakran	Faculty I/C Electrical Maintenance
23.	Dr. Rahul Sharma	Warden
24.	Dr. S. B. Singh	Faculty I/C SpicMacay Club
25.	Dr. Pradeep Kumar	Faculty I/C Institute Time Table, Warden, Faculty I/C Student Activity Club
26.	Dr. Shivam	Warden
27.	Dr. Amit Kumar	Warden

Foreign Visits: (Academic Activities/attending Conferences:

S. No.	Name of Faculty	Countries
1.	Prof. Akhilesh Swarup	Netherland, Italy
2.	Prof. K. S. Sandhu	UK, Italy, Spain, Switcheerland
3.	Prof. Lillie Dewan	USA, Canada, Spain
4.	Prof. R. S. Bhatia	USA
6.	Prof. Ratna Dahiya	Spain, USA, Switchezand, Egypt, Greece
7.	Prof. L. M. Saini	Singapore, Australia
8.	Prof. A. Kumar	Italy, USA, Netherland, Malasiya
9.	Prof. Jyoti Ohri	USA, UK
10.	Prof. J. S. Lather	USA, Canada, UK
11.	Prof. Sathans.	USA, Canada, Dubai
12.	Dr. Monika Mittal	USA, UK
13.	Dr. Saurabh Chanana	USA, Australia , Chekoslovakia
14.	Dr. Shelly Vadhera	USA, Australia, Italy

Reviewers of Int. Journals:

Most of the faculty in the Dept. are reviewers of the Journals:

IEEE Trans. On Power Systems, IEEE trans. On Power Electronics, IEEE Trans. On Smart Grid, Elsevier, Taylor and Francis, Applied Energy, Electric energy systems, Jon Wiley, Automatica, Springer etc.