

# Resume



**Name** : Prof. Ram Naresh Sharma  
**Designation** : Professor  
**Department** : Electrical Engineering  
**Qualification** : PhD  
**Phone** : 254526  
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## Other Profile Links

**Research Gate Link :**

**Personal Web Link :**

**Google Scholar Link :**

**Research Profile**

**Research Interests :** Artificial intelligence applications to power system optimization problems, Evolutionary computation, Neural networks and fuzzy systems

**Brief Research Profile :** Power systems are undergoing a dramatic change. Power systems optimization problems are very difficult to solve because power systems are very large, complex, geographically widely distributed and are influenced by many unexpected events. It is therefore necessary to employ most efficient optimization methods to take full advantages in simplifying the formulation and implementation of the problem. The application of optimization techniques to power systems security and electricity markets is a rather relevant research area in power engineering. The study of optimization models to determine critical operating conditions of a power system to obtain secure power dispatches in an electricity market has gained particular attention.

## Qualification

Name of the Degree	Year Of Passing	Institute/University
Matric	1981	H.P.B.S.E
Senior Secondary	1983	G.N.D.U. ASR
B.Tech	1987	T.I.E.T. Patiala
M.Tech	1990	P.U. Chandigarh
PhD	1999	University of Roorkee

## Publications

Year	Journal	Publication	Indexed In
2000	IEEE Transactions on Power Systems	Hydro system scheduling using ANN approach, Vol. 15, No. 1, February-2000, pp. 388-395	Abstracting & Indexing:Print-ISSN:- 0885-8950 Scopus:- Source record id: 28825 Science Citation Index at S. No. 1593 Web of Science
2000	International Journal of Systems Science	A hybrid method for hydro generation Scheduling, Vol. 31, No. 2, Feb. 2000, pp. 263-271	Abstracting & Indexing:Print-ISSN:- 0020-7721 Scopus:- Source record id: 12419 Web of Science
2001	International Journal of Systems Science	Reservoir Operation Using Fuzzy-Neural System for Hydro Generation Scheduling, Vol. 32, No. 4, April-2001, pp. 479-486	Abstracting & Indexing:Print-ISSN:- 0020-7721 Scopus:- Source record id: 12419 Web of Science
2002	International Journal of Electrical Power & Energy Systems	Short Term Hydro Scheduling Using Two-phase Neural Network, Vol. 24, No. 7, September 2002, pp. 583-590	Abstracting & Indexing:Print-ISSN:- 0142-0615 Scopus:- Source record id: 17985 Web of Science
2002	Journal of Institution of Engineers-EL	A Decomposition Method for Hydro Generation Scheduling, Vol. 82, March 2002, pp. 268-272	Abstracting & Indexing:Print-ISSN:- 0020-3386 Registration No.:-TECH/WB/RNP-366/2002 License of Tech/WB/RNP-366/LPWP-05/2002 Taylor & Francis
2003	Water and Energy International	Hopfield Neural Network Approach for Multi-reservoir Network Control, Vol. 60, No. 4, Oct-Dec-2003, pp. 21-27	Abstracting & Indexing:Print-ISSN:- 0972-057X Scopus:- Source record id: 18755
2004	Electric Power Systems Research	Optimal Multi-reservoir Network Control by Two-phase Neural Network, Vol. 68, 2004, pp. 221-228	Abstracting & Indexing:Print-ISSN:- 0378-7796 Scopus:- Source record id: 16044 Web of Science
2004	IEE Proceedings on-Generation Transmission and Distribution	Two-phase Neural Network Based Modelling Framework of Constrained Economic Load Dispatch, Vol. 151, No. 3, pp. 373-378, May 2004	Abstracting & Indexing:Print-ISSN:- 0143-7046 Scopus:- Source record id: 96725 Science Citation Index at S. No. 1612 Web of Science
2005	International Journal of Engineering Optimization	Augmented Lagrange Programming Neural Network for Short-term Hydroelectric Generation Scheduling, Vol. 37, No. 5, July 2005, pp. 479-497	Abstracting & Indexing:Print-ISSN:- 0305-215X E-ISSN:-10-9-0273 Scopus:- Source record id: 29114 Web of Science
2005	Water and Energy International	Multiobjective Hydro Scheduling Using Artificial Neural Networks, Vol. 62, No. 1, Jan.-March, 2005, pp. 32-39	Abstracting & Indexing:Print-ISSN:- 0972-057X Scopus:- Source record id: 18755
2006	International Journal of Engineering Intelligent Systems, CRL Publishing Ltd. U.K. EIS	Quadratic Programming Neural Network Approach for Multi-reservoir Network Control, Vol. 3, 2006, pp. 147-152.	Abstracting & Indexing:Print-ISSN:- 0969-1170 Scopus:- Source record id: 78090
2007	Applied Soft Computing, Elsevier science	Optimal Multi-reservoir Network Control by Augmented Lagrange Programming Neural Network, U.K. Elsevier 7, 783-790, 2007	Abstracting & Indexing:Print-ISSN:- 1568-4946 Scopus:- Source record id: 18136 Web of Science

Year	Journal	Publication	Indexed In
2007	International Journal of Electrical Power and Energy Systems	Efficient Real Coded Genetic Algorithm to Solve the Nonconvex Hydrothermal Scheduling Problem, Vol. 29, 2007, pp 738-747	Abstracting & Indexing:Print-ISSN:- 0142-0615 Scopus:- Source record id: 17985 Web of Science
2008	IEEE transactions on Power Delivery	Title of Transactions Paper: An Integrated Neural-Fuzzy Approach for Fault Diagnosis of Transformers, Vol. 23, No. 4, pp: 2017-2024, 2008	Abstracting & Indexing:Print-ISSN:- 0885-8977 Scopus:- Source record id: 17370 Science Citation Index at S. No. 1591 Web of Science
2009	International Journal of Power and Energy Systems	A neural network optimizer for scheduling hydropower generation plants, ACTA press , Volume 29, Number 4, pp: 233-240	Abstracting & Indexing:Print-ISSN:- 1078-3466 Scopus:- Source record id: 26993 Web of Science
2009	Applied Soft Computing	An Efficient Real Coded Genetic Algorithm to Solve the Nonconvex Economic Load Dispatch Problem, Vol. 9, pp. 321-329, 2009	Abstracting & Indexing:Print-ISSN:- 1568-4946 Scopus:- Source record id: 18136 Web of science
2009	Water and Energy International	Stream flow forecasting in long term reservoir operation scheduling, Vol. 67, No. 10, pp. 59-63, December 2010	Abstracting & Indexing:Print-ISSN:- 0972-057X Scopus:- Source record id: 18755
2010	International Journal of Electronic and Electrical Engineering	Artificial neural network based hydroelectric turbine efficiency modelling, Vol. 3, No. 3, 2010, pp. 183-197	Abstracting & Indexing:E-ISSN:- 0974-2174
2010	International Journal of Applied Engineering Research	Artificial neural network based hydroelectric generation modeling, Vol. 1, No. 3, 2010, pp. 343-359	Abstracting & Indexing: Print-ISSN:- 0973-4562 Scopus:- Source record id: 21100217234
2011	International Journal of Water Resources and Environmental Engineering	Stream flow forecasting using Levenberg- Marquardt algorithm approach, Volume 3, No. 1, pp:30-40, 2011.	Abstracting & Indexing:Print-ISSN:- 2141-6613
2011	Applied Soft Computing	Neural Network Predictive Control of UPFC for improving transient stability performance of power system, Vol. 11, No. 8, pp. 4581-4590, 2011	Abstracting & Indexing:Print-ISSN:- 1568-4946 Scopus:- Source record id: 18136 Web of Science
2011	International Journal of Computer and Electrical Engineering	Study the Insulation System of Power Transformer Bushing, Vol. 3, No. 4, August 2011, pp. 544-547	Abstracting & Indexing:E-ISSN:- 1793-8163
2011	Journal of Water, Energy and Environment Hydro Nepal, Energy Nepal Limited	Short term Hydro thermal scheduling using Lambda Gamma iteration method, Vol. 9, July 2011, pp.20-26	Abstracting & Indexing:Print-ISSN:- 1998-5452 E-ISSN:- 2392-4101
2011	Research Journal of Applied Sciences, Engineering and Technology	Optimal Hydro-Thermal Generation Scheduling using an efficient Feedback Neural Network Optimization Mode, Maxwell Science Publication , Vol. 3, No. 8, August 2011, pp.770-778	Abstracting & Indexing:Print-ISSN:- 2040-7459 Online ISSN: 2040-7467
2011	Int. J. on Recent Trends in Engineering & Technology	Modern Diagnostic Facilities for Power Transformers in TIFAC-CORE, Vol. 05, No. 02, Mar 2011	Abstracting & Indexing:Print-ISSN:- 2158-5563
2011	International Journal of Computer and Electrical Engineering (IJCEE)	Investigation of Polarization and Depolarization Current for Evaluation of Moisture in Oil-Pressboard Insulation, Vol. 3, No. 6, 2011, pp. 853-856. DOI: 10.7763/IJCEE.2011.V3.432	Abstracting & Indexing:Print-ISSN:- 1793-8163
2012	International Journal of Computer and Electrical Engineering (IJCEE)	Condition Monitoring of Insulation System in Power Transformers, Vol.4, No.2, April 2012, pp.149-152 DOI: 10.7763/IJCEE.2012.V4.468	Abstracting & Indexing:Print-ISSN:- 1793-8163
2012	International Journal of Advancements in Electronics and Electrical Engineering (IJAEED).	Neural Network Predictive Control of UPFC for Enhancing Transient Stability Performance of a Single Machine Infinite Bus System, Vol. 1, No. 2, pp. 100-104, 2012.	Abstracting & Indexing:Print-ISSN:- 2319-7498
2012	International Journal of Electrical Engineering and Technology,	Fixed Head Short Term Hydro Thermal Generation Scheduling using Real Variable Genetic Algorithm, vol.3,issue 2, pp. 430-443, 2012.	Abstracting & Indexing:Print-ISSN:-0976-6545 Online-ISSN-0976-6553
2012	TIDEE, TERI Information Digest on Energy and Environment	Energy generation plan at hydro power plant, Vol. 11, No.2, June-September 2012, pp. 167-178.	Abstracting & Indexing:Print-ISSN:-0972-6721 Online-ISSN-0975-7589 Scopus: scopus source id-74282
2013	Asian Journal of Current Engineering and Maths	Fixed Head Short term Hydro Thermal Generation Scheduling using Differential Evolution, Vol.2, No.1, pp. 17-23, 2013	Abstracting & Indexing:Print-ISSN:-2277 -4920
2014	Hydro Nepal :Journal of Water, Energy and Environment	Improved Particle Swarm Optimization Algorithm for Hydrothermal Generation Scheduling, Issue No. 15, pp. 65-72, 2014	Abstracting & Indexing:Print-ISSN:-1998-5452
2014	Review of Business & Technology Research	Automatic generation control using a gravitational search algorithm based PID controller, Vol. 11, No. 1, pp. 280-286, 2014	Abstracting & Indexing: Print-ISSN:-1941-9406 Listed in UGC (India), and Ulrich Database
2014	Sylwan	Performance analysis and comparison of automatic generation control techniques for four area interconnected system, Vol. 158, No. 5, pp. 461-481, 2014	Abstracting & Indexing: Print-ISSN:- 0039-7660 Web of Science Scopus
2015	Renewable and sustainable energy reviews, Elsevier	Decision support system for operation scheduling and optimization of hydro power plant in Jammu and Kashmir, Vol. 43, 2015, pp. 1099-1113	Abstracting & Indexing:Print-ISSN:- 1364-0321 Scopus:- Source record id: 27567 Science Citation Index at S. No. 3302 Web of Science
2015	Arab. J Sci. Eng	A novel strategy-based hybrid binary artificial bee colony algorithm for unit commitment problem, Vol. 40, pp. 1455-1469, 2015	Abstracting & Indexing:Print-ISSN:- 1319-8025, Scopus:- Source record id: 13951 Web of Science
2015	International Transactions on Electrical Energy Systems	A modified binary artificial bee colony algorithm for ramp rate constrained unit commitment problem, pp: 3472-3491, 2015, DOI: 10.1002/etep.2046	Abstracting & Indexing:Print-ISSN:-2050-7038 Scopus:- Source record id: 21100241220 Web of Science
2015	IETE Journal of Research	Optimal Generation Control of Interconnected Power System Including DFIG-Based Wind Turbine, Vol. 61, No. 3, pp. 285-299, 2015	Abstracting & Indexing:Print-ISSN:- 0377-2063 Scopus:- Source record id: 130012 Web of Science

Year	Journal	Publication	Indexed In
2015	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Comparative performance analysis of optimal meta-heuristic approaches for hydrothermal coordination, Vol. 4, No. 4, pp. 2675-2683	Abstracting & Indexing:Print-ISSN:- 2320-3765
2015	Scholars Journal of Engineering and Technology	Sinusoidal migration of biogeography based optimization for short term hydrothermal scheduling, Vol. 3, No. 3, pp. 2675-2683	Abstracting & Indexing:Print-ISSN:- 2347-9523
2015	Advances in Electrical and Computer Engineering	Solution approach to automatic generation control problem using hybridized gravitational search algorithm optimized PID and FOPID controllers, Vol. 15, No. 2, pp. 23-34, 2015	Abstracting & Indexing:Print-ISSN:-1582-7445, Online-ISSN: 1844-7600 Scopus:- Source record id: 18000156702 Web of Science
2015	Turkish Journal of Electrical Engineering & Computer Sciences	Thermal aging of solid insulation under dual temperature variation, DOI: 10.3906/elk-1411-23	Abstracting & Indexing:Print-ISSN:- 1303-6203 Online-ISSN: 1300-0632 Scopus:- Source record id: 22933 Science Citation Indexed (screenshot) Web of Science
2015	Asian Journal of Current Engineering and Maths	An oppositional learning based gravitational search algorithm for short term hydrothermal scheduling, Vol. 4, No. 3, pp. 45-54, 2015	Abstracting & Indexing:Print-ISSN:- 2277-4920
2015	Expert Systems with Applications	Disruption based gravitational search algorithm for short term hydro thermal scheduling, Vol. 42, pp. 7000-7011, 2015	Abstracting & Indexing:Print-ISSN:- 0957-4174 Scopus:- Source record id: 24201 Web of Science
2015	IETE Journal of Research	Hybridized Gravitational Search Algorithm for Short-Term Hydrothermal Scheduling, pp. 468-478, 2015, DOI: 10.1080/03772063.2015.1083904	Abstracting & Indexing:Print-ISSN:- 0377-2063 Scopus:- Source record id: 130012 Web of Science
2015	IEEE Transactions on Dielectrics and Electrical Insulation	Development of a Novel Dual Temperature Model for Insulation Aging in Oil Immersed Transformers, Vol. 22, Issue 5, pp. 2723-2736, October 2015	Abstracting & Indexing:Print-ISSN:- 1070-9878 Scopus:- Source record id:17343 Science Citation Index at S. No. 1564 Web of Science
2015	Journal of Basic and Applied Engineering Research	Optimal control of two area interconnected power system Vol. 2, No. 18, pp. 1617-1622, 2015	Abstracting & Indexing:Print-ISSN:- 2350-0077 Online-ISSN:- 2350-0255
2015	International Journal of Engineering, Science and Technology	Generator scheduling under competitive environment using genetic algorithm, Vol. 7, No. 3, pp. 24-32, 2015	Abstracting & Indexing:Print-ISSN:- 2141-2820
2015	IET Generation, Transmission & Distribution	Binary Fish Swarm Algorithm for Profit-Based Unit Commitment Problem in Competitive Electricity Market with Ramp Rate Constraints, Vol. 9, No. 13, pp. 1697-1707, 2015	Abstracting & Indexing:Print-ISSN:- 1751-8687, Online ISSN:- 1751-8695 Scopus:- Source record id: 5400152713 Science Citation Index at S. No. 1612 Web of Science
2016	IET Generation, Transmission & Distribution	Application of nondominated sorting gravitational search algorithm with disruption operator for stochastic multiobjective short term hydrothermal scheduling, Vol. 10, No. 4, pp. 862-872, 2016	Abstracting & Indexing:Print-ISSN:- 1751-8687, Online ISSN:- 1751-8695 Scopus:- Source record id: 5400152713 Science Citation Index at S. No. 1612 Web of Science
2016	Electric Power Components and Systems	Non dominated sorting disruption based gravitational search algorithm with mutation scheme for multi-objective short term hydrothermal scheduling, Vol. 44, no. 9, pp. 990-1004, 2016	Abstracting & Indexing:Print-ISSN:-1532-5008Online-ISSN:- 1532-5016 Scopus:- Source record id: 16031 Web of Science
2016	Soft Computing	A solution network based on stud krill herd algorithm for optimal power flow problems, DOI: 10.1007/s00500-01-2319-3	Abstracting & Indexing:Print-ISSN:- 1432-7643 Online-ISSN:- 1433-7479 Scopus:- Source record id: 28554 Web of Science
2016	IET Generation, Transmission and Distribution	Automatic generation control using disrupted oppositional based gravitational search algorithm optimized sliding mode controller under deregulated environment, Vol. 10, No. 16, pp. 3995-4005, 2016	Abstracting & Indexing:Print-ISSN:- 1751-8687, Online ISSN:- 1751-8695 Scopus:- Source record id: 5400152713 Science Citation Index at S. No. 1612 Web of Science
2016	International Transactions on Electrical Energy Systems	Application of stud krill herd algorithm for solution of optimal power flow problems, DOI: 10.1002/etep.231	Abstracting & Indexing: E-ISSN:-2050-7038 Scopus:- Source record id: 21100241220 Web of Science
2017	Optimal Control Applications and Methods	Hybridized gravitational search algorithm tuned sliding mode controller design for LFC system with DFIG wind turbine, John Wiley & Sons Publication, 2017. DOI: 10.1002/oca.2305	Abstracting & Indexing:Print-ISSN:- 0143-2087 Online-ISSN:- 1099-1514 Scopus:- Source record id: 25529 Web of Science
2017	Applied Soft Computing	An enhanced self-adaptive differential evolution based solution methodology for multiobjective optimal power flow, Vol. 54, pp. 229-245, 2017	Abstracting & Indexing:Print-ISSN:- 1568-4946 Scopus:- Source record id: 18136 Web of Science
2018	Recent advances in electrical & electronic engineering	Model predictive based load frequency control of interconnected power systems, Vol. 11, Issue 3, pp. 322-333	Scopus: - Source record id: 21100324717 Web of Science

### Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book	Optimal operation of Hydro Power Plants	LAP LAMBERT Academic Publishing	Ram Naresh Sharma	978-3659352294	2014
Chapter	Modern Trends in Operation Scheduling and Optimization of Hydro Power Plant	Bhaddal Technical Publications	Ram Naresh Sharma	978-81-921786-6-0	2011
Chapter	Multi-area economic Dispatch using Dynamically controlled Particle Swarm Optimization	Springer, Singapore	Vineet Kumar, R.N. Sharma and Shiv Kumar Sikarwar	978-981-13-0661-7	2018

### Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI	Research Project	Hydrothermal Scheduling Using Artificial Intelligent Techniques	CSIR New Delhi	01/06/2004	31/05/2008	Rs 1000000(App)	Completed	No
Faculty Mentor	Research Project	Design and development of an experimental setup for dielectric spectroscopic analysis of composite insulation system	TEQIP-II	13/11/2013	27/05/2014	50000	completed	Dr. Veena Sharma

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co-PI	Research Project	Optimal Automatic Generation Control of Interconnected Power Systems Using Meta-heuristic Approaches	sponsored by CSIR	18/06/2015	30/09/2018	10 Lakhs	Completed	Veena Sharma (PI)

## Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ph.D	Deepika Yadav	Optimal operation and scheduling of Hydro Power Plant	Awarded	2014	Dr. Veena Sharma
Ph.D	Sheela Shukla	Identification and control of UPFC equipped multi-machine power systems	Awarded	2014	Dr. R. Jha
Ph.D	Amit Kumar Mehta	Investigations on insulation aging in oil immersed transformers	Awarded	2015	Dr. Sushil Chauhan
Ph.D	Goutham Kumar Nadakuditi	Hybrid gravitational search algorithm based solution methodology for short term hydrothermal scheduling problems	Awarded	2016	Dr. Veena Sharma
Ph.D	Prateek Kumar Singhal	Investigations using meta-heuristic based approaches to solve unit commitment problems	Awarded	2016	Dr. Veena Sharma
Ph.D	Harish Pulluri	Multi-objective optimal power flow using evolutionary algorithms	Awarded	2018	
M.Tech	Manisha Vaishist	Transformer fault diagnosis under DGA	Awarded	2007	
M.Tech	Vaneeta Thakur	Multi-objective economic dispatch by genetic algorithm	Awarded	2007	
M.Tech	Anil Sharma	Damping controller for UPFC in SMIB System	Awarded		
M.Tech	Devendra Kumar	Stream flow forecasting in long term reservoir operation scheduling	Awarded		
M.Tech	Ravi Nakka	Sweep frequency response analysis of power transformer winding movements using PSPICE	Awarded		
M.Tech	Anuradha Tomar	Design of earthing systems for substations	Awarded		
M.Tech	Venkateswarlu Kesari	Optimal Reservoir Operation Using Dynamic Programming	Awarded		
M.Tech	Ashutosh Bhatt	Design of High Voltage Bushing Using Electrical Computation Method	Awarded		
M.Tech	Jivitesh Rattan	Polarization and depolarization current measurement for assessing the condition of oil paper insulation system	Awarded		
M.Tech	Prateek Kumar Singhal	Thermal Unit Commitment Using Dynamic Programming Methodologies	Awarded		
M.Tech	Mahiraj Singh Rawat	Transient Stability Analysis of Multi- machine System	Awarded		
M.Tech	Abdul Azeem	Condition Assessment of In-Service Power Transformer	Awarded		
M.Tech	Rakesh Kumar	Dissolved Gas Analysis of Transformer Oil	Awarded		
M.Tech	Satyabrata Sahoo	Transformer Diagnostics under dissolved gas analysis	Awarded		
M.Tech	Mantosh Kumar	Electric Field analysis of EHV underground cables using numerical method	Awarded		
M.Tech	Vijaypraneeth Reddy	Short-term hydrothermal scheduling using Biogeography based optimization	Awarded		
M.Tech	Thomas Baby	Short-term hydrothermal scheduling using genetic algorithm	Awarded		
M.Tech	Goutham Kumar Nadakuditi	Short-term hydrothermal scheduling using Particle swarm optimization	Awarded		
M.Tech	Sarath R.	Short-term hydrothermal scheduling using differential evolution	Awarded		
M.Tech	Deepak Kumar Gupta	Power plant control system design using soft computing techniques	Awarded		
M.Tech	Mukesh Kumar Singh	Hydro generator governor modeling and tuning	Awarded		
M.Tech	Pawan Kumar	Generator maintenance scheduling using genetic algorithm	Awarded		
M.Tech	Siddharth nair	Optimal tuning of PID controllers in automatic generation control of two area system using genetic algorithm	Awarded		
M.Tech	khushbu thakur	Dielectric spectroscopic analysis of composite insulation system for moisture assessment of solid insulation	Awarded		
M.Tech	Ruchika Bansal	Transformer fault diagnosis using fusion techniques based on dissolved gas analysis	Awarded		
M.Tech	Etampuram sreenadh	Short term hydrothermal scheduling using adaptive particle swarm optimization	Awarded		
M.Tech	Banna Suresh	Performance analysis of classical and evolutionary approaches to optimal power flow problem	Awarded		
M.Tech	Amita Singh	Dissolved gas analysis of power transformer using K-means and support vector machine	Awarded		
M.Tech	Nitika Ghosh	Fuzzy logic based analysis of dissolved decay content in transformer oil	Awarded		
M.Tech	Deepika Negi	Improved binary PSO for wind-thermal unit commitment considering wind power uncertainty and emission	Awarded		
M.Tech	Sanjay Kumar Agastu	Analysis and reduction of inrush current in transformer	Awarded		
M.Tech	Gaurav Sharma	Multi Area economic Dispat ch using dynamically controlled particle swarm optimization	Awarded		
M.Tech	Amit Singh	Multi area automatic generation control of integrated wind-thermal power system	Awarded		
M.Tech	Pragya Singh	Topologies of multi-stage solid state transformer (modeling and simulation)	Awarded		
M.Tech	Shiv Kumar Sikarwar	Power system state estimation using particle swarm optimization	Awarded		
M.Tech	Vineet Kumar	Multi-area economic dispatch using evolutionary algorithms	Awarded		
M.Tech	Vaddi Narendrababu	Optimal Power Flow Using Ant lion Meta heuristic algorithm	Awarded		
M.Tech	Ankit Aharwar	Optimization of cogeneration system by using Interior Point and Generalized Pattern Search method.	Awarded		
M.Tech	Gedela ravi Chandra reddy	Short term hydrothermal scheduling using Symbiotic Organism Search Algorithm	Awarded		
M.Tech	Afreen Sheikh	Development of methodology for DGA of Power Transformers	Awarded		
Ph.D	Vineet Kumar	Solution Techniques to Unit Commitment Problems in Power System integrated with Renewable Energy Sources	ongoing		
M.Tech	Shilvi	A learning tool for fault diagnosis of transformer using Duval Pentagon Method	ongoing		

## Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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**Teaching**

Programme Name	Subjects Taught	From	To	Credits
Lecturer	Electrical, NIT Hamirpur	02/01/1989	03/01/2000	11 years
Assistant Professor	Electrical, NIT Hamirpur	03/01/2000	24/08/2007	7 year 6 months
Professor	Electrical, NIT Hamirpur	24/08/2007		Till now

**Administrative Responsibilities**

Position Held	Organization	From	To	Remarks
Head of Department	Electrical Engineering	04/02/2008	06/02/2011	06
Dean (Academics)	Nit Hamirpur	22/05/2018		02
TEQIP (Coordinator)	Nit Hamirpur	08/10/2012		2011,,04
Faculty In-charge (Purchase)	Nit Hamirpur	05/01/2007	04/02/2008	02
Other institutional activities SAG Level Officer	Nit Hamirpur	19/01/2017		2008,,02
Member License Committee	Nit Hamirpur	03/10/2012	02/10/2014	10
Member Senate Since Member SRC of different committees from time to time	Nit Hamirpur	02/12/2009		2014,,31
Chairman (TEQIP Purchase Committee)	Nit Hamirpur	28/01/2013	31/03/2017	03
Chairman (Screening Committee)	Nit Hamirpur	14/01/2008	30/11/2008	2017,30
Member (Institute Purchase Screening Committee)	Nit Hamirpur	01/09/2017		11
Member (Flying Squad for checking unfair means during conduct of examination)	Nit Hamirpur	27/11/2017	09/12/2017	2008,,09
Member (Committee to look into the appeal of technical and ministerial staff)	Nit Hamirpur	22/12/2017	10/01/2018	12
Committee constituted to evolve a policy to spare faculty	Nit Hamirpur	11/02/2009	11/03/2009	2017,10
Member (Anti Ragging Squad)	Nit Hamirpur	08/08/2018		01
Lab In-charge Machine Lab OIC( IEEE)	Electrical Engineering	27/07/2015		2018,11
Coordinator Research for TIFAC-Core activities	Electrical Engineering	12/10/2006	08/02/2011	03
Member of Departmental Infrastructure Planning and Development Committee	Electrical Engineering	01/03/2007	01/03/2011	2009,,08
OIC Computer LAB	Electrical Engineering	01/03/2007	06/02/2008	02
Member of the committee to prepare SAR for accreditation of M. Tech Prog on CMCPEA	Electrical Engineering	01/03/2007		2011,01
Any other Committee Member Member Committee of Experts for Purchase of TIFAC CORE equipments	Electrical Engineering	11/03/2013	10/03/2017	03

**Expert Talks**

Title	Place	Year	Description
History of Electricity in CDP on Operation and Routine Maintenance of Electrical Apparatus	NITH	2007	To develop suitable texts relating to preventive maintenance of electrical systems and equipment used in industrial-type applications with the view of reducing loss of life and property. The purpose is to correlate generally applicable procedures for preventive maintenance that have broad application to the more common classes of industrial electrical systems and equipment without duplicating or superseding instructions which manufacturers normally provide.
Hand on training on repair & maintenance of Electrical & Electronic Equipment's and Gadgets	NITH	2008	Electrical power installers and repairers tend to concentrate in specific areas. These areas include electric motor, power tools, transportation, commercial and powerhouse equipment repairs and maintenance.
Hydrothermal Scheduling	NIT Kurushetra	2008	Advances in Power System Operation and Control
Introduction to Optimization toolbox and GA	NITH	2008	Application of MATLAB, ORCAD, SPICE Simulation tools in Engineering
History of Electricity	NITH	2008	CDP on Safe Handling of Electrical Appliances, repair and Maintenance
Software for Scheduling and Optimization of Hydro Power Plants	NIT Kurushetra	2008	Advances in Power System Operation and Control

**Professional Activities**

Name of Activity	Role	Duration	Organization
Software for optimal operation scheduling and optimization of hydro power plants	BHEL Electronics Division Bangalore	Dr R N Sharma ,Dr Narottam,Dr Veena Sharma,Sh Jagdish Verma	10.75 Lakhs (including 12% ST)
Third party inspection of UPS	NEDS PVT Ltd Consultancy Work Financial	Dr R N Sharma, Dr Sushil Chauhan	5.25 Lakhs
Power Transformer Diagnostics 2007-08	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	1.36 Lakhs
Power Transformer Diagnostics 2008-09	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	0.485 Lakhs
Power Transformer Diagnostics 2009-10	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	7.28lakhs
Power Transformer Diagnostics 2010-11	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	4.22 Lakhs
Power Transformer Diagnostics 2011-12	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	2.99Lakhs
Power Transformer Diagnostics 2014-15	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	2.79Lakhs
Power Transformer Diagnostics 2015-17	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	3.12Lakhs
Power Transformer Diagnostics 2016-17	HPSEB, Private Electric Utilities	Dr Sushil Chauhan ,Dr R N Sharma, Dr Ravinder Nath, Dr Mrs Veena Sharma, Sh O P Rahi	6.62Lakhs

**Courses Organized**

Category	Type	Title	Venue	From	To	Designation
stc	Skill development training	Operation and routine maintenance	NITH	24/12/2007	28/12/2007	Coordinator

Category	Type	Title	Venue	From	To	Designation
stc	Skill development training	Measuring instruments and electrical appliances	NITH	08/07/2008	12/07/2008	Coordinator
stc	Skill development training	Sustainable energy generation and environment management	NITH	16/06/2008	28/06/2008	Coordinator
stc	Skill development training	Transformer Engineering and Practices	NITH	23/10/2009	25/10/2009	Coordinator
stc	Skill development training	Electrical Measuring Instruments	NITH	21/12/2009	25/12/2009	Coordinator
stc	Skill development training	Condition monitoring of plant and machinery	NITH	21/06/2010	25/06/2010	Coordinator
stc	Skill development training	Advances in Power Generation Operation and Control	NITH	12/07/2010	16/07/2010	Coordinator
stc	Skill development training	Power Generation Operation and Control	NITH	08/07/2013	12/07/2013	Coordinator
conference	convention	ISTE Section (Faculty) Convention	NITH	30/09/2015	01/10/2015	Co-Chairman
conference	National Conference on Technological Advances and Computational Techniques in Electrical Engineering(TACT-2009)	Power Transformer Design and Monitoring	NITH	16/03/2009	17/03/2009	General Chair
conference	National	Power Electrical Systems and Energy Technologies(ESET-2013)	NITH	28/06/2013	29/06/2013	Joint Organizing Secretary
conference	International	Energy and Environment (ENVIRO-ENERGY)	Chandigarh	19/03/2001	21/03/2001	Technical Chairperson
fdp	Expert lecture of Dr M. M. Goswami Additional General Manager Power Grid Corporation of INDIA	Challenges in Power Transformer design and maintenance and On-line monitoring of Bushing and OLTC	NITH	14/03/2009	15/03/2009	Organized
fdp	Expert lecture of Prof S. V. Kulkarni Electrical Engineering Department IIT Bombay	Insulation design & Processing, Short circuit forces and withstand, Detection of Winding dislocation ,Stray loss evaluation & control and Fundamentals of Electromagnetics	NITH	14/03/2009	15/03/2009	Organized
fdp	Expert lecture of Dr V. Jaishankar IIT Madras	Detection of Winding dislocation	NITH	14/03/2009	14/03/2009	Organized
fdp	Expert Lecture of Mr S. Rengarajan from BHEL R&D Corporation Hyderabad	On Site Detection of PD in Transformer	NITH	14/03/2009	14/03/2009	Organized
fdp	Expert lecture of Dr V Shrinet from ERDA Vadodra	Significance of Oil properties & DGA	NITH	15/03/2009	15/03/2009	Organized
fdp	Expert lecture of Prof Sivaji Chakaravorti Jadhavpur University Kolkatta	Cellulose ageing and Moisture determination	NITH	15/03/2009	15/03/2009	Organized
fdp	Expert lecture of Dr M. G. Sharma from Himachal Pradesh State Electricity Board	Modern trends in power transformer design requirements	NITH	27/02/2009	27/02/2009	Organized

**Date :**

**Place :**

**Signature**