I have done ***B.E (Electrical)*** from ***Jammu University*** and ***M.E (Power systems and Electric Drives)*** from ***Thapar University***. Currently I am pursuing my ***doctorate from GB University***, greater Noida. I am highly motivated in the research activities and implementing my innovative ideas.

I have worked on ***Economics of Energy System*** in my master's dissertation and try to solve ***economic dispatch problem***, ***Unit-commitment problem*** using ***dynamic programming*** and also with ***particle swarm optimization***. It can also be solved using many optimization techniques. My research work has been appreciated and has been cited by many journals papers and conferences. The coding has been performed in MAT-LAB. The work carried out in my Ph.D "***Design and Parameter Estimation of Permanent magnet synchronous Machine***", is as under:

- Optimum design of PMSM for a set of related objective functions using proposed modified optimization approach for improved performance and compare the results with existing heuristic approach for the formulated problem
- Design optimization of PMSM for modified objective functions to meet the change in the requirement using modified approach
- The incorporation of skin/skewing/temperature effect on the performance analysis of PMSM
- The estimation of PMSM parameters using modified optimization approach and its comparison with the existing method.
- By using obtained parameters of Electrical equivalent circuit, redesign the PMSM for evaluating the performance

Other Research Areas: ***Economics of Energy System, Design of Electrical Machines, Power System, Renewable energy, Optimization techniques***. ***Artificial Intelligence Techniques.***

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Education

B.E., Jammu University, (in Electrical Engineering), 2007.

M.E., Thapar University, (in Power System & Electric Drives), 2009.
Dissertation on **"Unit Commitment Using Particle Swarm Optimization".**

Course Work

Research methodology, Computer Application to Power System Analysis, Advance Power Electronics, power System Dynamics& stability, Industrial Drives & Automation, Power Quality& facts Devices, Optimal power system operation, Intelligence techniques& application, Digital Signal Processing & its application. Real Time Instrumentation.

Ph.D., Gautam Buddha University, (likely to be completed in Dec-2016)
Dissertation on **"Design and Parameter Estimation of Permanent Magnet Synchronous Machine**".

Course Work

Soft Computing, Power Converters & Application, Operation Research.

Employment

2013-2016	Assistant Professor, DIT UNIVERSITY, Dehradun, INDIA.
2012-2013	Guest Faculty, GB University, Greater Noida, INDIA.
2009-2012	Assistant Professor, SRM UNIVERSITY, NCR CAMPUS, INDIA

Fellowship.

2007-2009	GATE Scholarship from AICTE,

Short term courses.

2016	Soft Computing Techniques using Mat lab through ICT, NITTR, Chandigarh, MHRD, Govt. of India.
2016	Energy Management through ICT, NITTR, Chandigarh, MHRD, Govt. of India.
2015	Computational Techniques, DIT University, Dehradun.
2015	VLSI Design through ICT, NITTR, Chandigarh, MHRD, Govt. of India.
2015	GSM to 3G through ICT, NITTR, Chandigarh, MHRD, Govt. of India.

2007 Four weeks Summer Training at Grid Station, Gladni, Jammu in the field of Transmission, Distribution of Power & SCADA System Technology.

Editorial Board Member

2013-2017 Included In **Advisory Board Member** in **"Bio Info Publication".**
IEEE, Member, ID 91172009.

Research Publications/Communicated

2012 Puri, Vinod, and Yogesh K. Chauhan. "A Solution to Economic Dispatch Problem Using Augmented lagrangian Particle Swarm Optimization." *International Journal of Emerging Technology and Advanced Engineering. ISSN* (2012): 2250-2459.

2012 Vinod Puri, et al (2012) Unit Commitment Using Particle Swarm Optimization. BIOINFO Computational Optimization, ISSN: 2249-5533 & E-ISSN: 2249-5541, Volume 2, Issue 1, pp.-09-16.

2016 Vinod Puri, Y.K.Chauhan and Nidhi Singh, "Economic Load Dispatch Problem using Particle Swarm Optimization with Inertial Weight and Constriction Factor", *Thammasat International Journal of Science and Technology. DOI 10.14456/tijsat.2016.14*

2015 Puri, Vinod, Yogesh K. Chauhan, and Nidhi Singh. "Design optimization of permanent magnet synchronous machine for vertical axis wind turbine using gravitational search algorithm." *2015 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS)*. IEEE, 2015.

2016 Puri. V, Chauhan . Y. K, and Singh. N, "Parameter Estimation of Permanent Magnet Synchronous machine using Gravitational Search Algorithm", Presented in ICPS-2016 IEEE conference held at IIT-D in March, 4-6,2016.

Communicated

2016 Puri. V, Chauhan . Y. K, and Singh. N, "Design Comparison of Inner and Outer Rotor Permanent Magnet Synchronous Machine for Vertical Axis Wind Turbine using Gravitational Search Algorithm", submitted in Renewable Energy Elsevier Journal. 09, June , 2016….. Under Review.

2016 Puri. V, Chauhan . Y. K, and Singh. N, "Permanent Magnet Synchronous Machines: A Design Perspective ", submitted in IET Electric Power Applications. 20, May, 2016….. Under Review.

2016 Puri. V, Chauhan . Y. K, and Singh. N, "Optimal Design of Inner and Outer Rotor Permanent Magnet Synchronous Machine used in VAWT and Their Comparison using GSA and GSA-PSO ", submitted in Iranian Journal of Science and technology. 20, June, 2016….. Under Review.

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