# Yaduvir Singh

**Professor, Electrical Engineering**

**Specialization:** Control Systems, Automation, Artificial Intelligence, System Modeling

**Qualification**: Doctor of Philosophy (Ph.D), Thapar Institute of Engineering & Technology, Patiala

M.E.(Control & Instrumentation Engineering), Motilal Nehru Regional Engineering College, Allahabad

Bachelor of Science in Engineering (B.Sc. Engineering), Faculty of Engineering, DEI, Agra

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- Prof. Yaduvir Singh is presently Professor of Electrical Engineering, Dean (Planning & Resource Generation) and World Bank TEQIP-II Coordinator, at Harcourt Butler Technical University, Kanpur. Prof. Yaduvir Singh had been Head of Department of Electrical Engineering at HBTI Kanpur during 2013-2016. He teaches Control Systems, Artificial Intelligence, Non-conventional Energy Resources, Power Plant Engineering etc. at UG and PG levels of electrical engineering. His research focus is on Control Systems, Artificial Intelligence, System Modeling, Automation etc. Prof. Singh obtained Bachelor of Science in Engineering (B.Sc. Engineering) in Electrical Engineering degree from Dayalbagh Educational Institute (Deemed University) Agra in year 1991, Master of Engineering (Control and Instrumentation) from Motilal Nehru Regional Engineering College (now , Motilal Nehru National Institute of Technology) University of Allahabad, Allahabad in year 1993 and Doctor of Philosophy (Industrial Electronics) from Thapar Institute of Engineering and Technology (now, Thapar University) Patiala in year 2004. Dr. Singh completed his Ph.D. under the supervision of Dr. P. S. Bimbhra, who is an iconic figure, nationally and internationally acclaimed electrical engineer and academician. Prof. Singh as a teaching faculty has served N.E. Regional Institute of Science and Technology (NERIST), Itanagar, G.B. Pant Engineering College (GBPEC), Pauri Garhwal, Harcourt Butler Technological Institute, Kanpur (HBTI, Kanpur) from 1995-2000, Kanpur and Thapar Institute of Engineering and Technology (now, Thapar University) Patiala till the end of year 2011. Prof. Singh had been Director of Noida Institute of Engineering and Technology (NIET), Greater NOIDA and Executive Director of NIET Business School, Greater NOIDA from January 2012 till March 2013, before joining HBTI Kanpur once again as Professor and Head of Department. With more than 157 research publications in various conferences and journals, he possesses nearly twenty three years of teaching and research experience at UG, PG and PhD levels of engineering and technology. He has guided more than 55 projects, 59 master level theses / dissertations and 07 PhDs. Several PhDs are in the pipeline. Prof. Singh has already authored 08 bestselling technical books in the areas of electrical, electronics and soft computing. He is considered to be an encyclopedic writer in these areas. He is member of several professional bodies and societies. Included in Prof. Singh's research interests are the areas of electrical and electronic systems, intelligent systems design, soft computing, automated control systems, artificially intelligent systems, industrial electronics, robotics, system modeling and identification, graph theory, design of instrumentation systems etc..

## Teaching Areas

- Control Systems
- Artificial Intelligence
- Power Plant Engineering

etc.

## Research Areas

- Automated control systems
- Artificially intelligent systems
- System modeling and identification

etc.

## Consulting Areas

- Control System
- Machine Intelligence
- Industrial Electronics

etc.

## Some Recent Publications

- "Fuzzy Fault Tree Approach for Analyzing the Fuzzy Reliability of a Gas Power Plant ", International Journal of Reliability and Safety (IJRS) Vol. 6, No. 4, pp 354-371, 2012 Inderscience
- "Application of non-normal p-norm trapezoidal fuzzy number in reliability evaluation of electrical substations", Neural Comput & Applic, DOI10.1007/s00521-012-0949-7, Springer
- "Vague Modeling for risk and reliability analysis of compressor system", Journal of Concurrent Engineering, DOI: 10.1177/1063293X11435178, SAGE
- "Vague Reliability Assessment of Combustion System using Petri Nets and Vague Lambda-Tau Methodology" in Emerald Engineering Computations: International Journal for Computer-Aided Engineering and Software, Vol. 30, No. 5, 2013, pp. 665-681
- Book on Modern Control Engineering, Cengage Learning, N. Delhi (ISBN -13:978-81-315-11695-5)
- Book on Electromagnetic Field Theory, Pearson India, New Delhi (ISBN – 978 – 81- 317-6061-1)