

## Brief Bio-data of Prof. (Dr.) Yaduvir Singh



- 1. Name:** Dr. Yaduvir Singh
- 2. Date of birth:** 25<sup>th</sup> February, 1971
- 3. Birth place:** Pune, India
- 4. Nationality:** Indian
- 5. Present designation:** Professor & Head, Department of Electrical Engineering  
Harcourt Butler Technical University (HBTU)  
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- 6. Permanent mailing address:** Dr. Yaduvir Singh  
s/o Dr. Ganga Sagar Yadav & Mrs. Vidya Yadav  
H. No.: 60 (Earlier H. No.: 85), Shanti Kuti  
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### 7. Qualifications:

Class / Degree	Subjects / Specialization	Year	% of marks	Division	Board / University
High School	Biology, Science, Hindi, Mathematics, English	1985	74%	First	U. P. Board, Allahabad, INDIA
Intermediate	Physics, Chemistry, Mathematics, English	1987	73%	First	U. P. Board, Allahabad, INDIA
B. E.	Electrical Engineering	1991	73%	First	D. E. I., Agra, INDIA
M. E.	Control and Instrumentation Engg.	1993	73%	First	University of Allahabad, INDIA
Ph.D.	Industrial Electronics	2004	Not applicable		T.I.E.T., Patiala, INDIA

## 8. Employment details:

Sl. No.	Organization	Designation & Pay Scale	Duration
1	N. E. Regional Institute of Science & Technology, Itanagar, Arunachal Pra., INDIA-798 001	Lecturer, Dept. of Electronics and Comm. Engg. 2200-75-4000 (old scale)	25 / 06 / 1993 to 14 / 03 / 1995 <b>00 Y, 21 M, 20 D</b>
2	G. B. Pant Engineering College, Pauri Garhwal, Uttaranchal, INDIA	Lecturer, Dept. of Electrical and Electronics Engg. 2200-75-4000 (old scale)	20 / 03 / 1995 to 28 / 09 / 1995 <b>00 Y, 06 M, 08 D</b>
3	Harcourt Butler Technological Institute, Kanpur, INDIA	Lecturer, Dept. of Electrical Engg. 2200-75-4000 (old scale)	30 / 09 / 1995 to 23 / 05 / 2000 <b>04 Y, 07 M, 23 D</b>
4	Thapar Institute of Engineering & Technology, Patiala, INDIA	Assistant Professor, Dept. of Electrical & Instru. Engg. 12000-420-18300	24 / 05 / 2000 to 31 / 05 / 2006 <b>07 Y, 00 M, 07 D</b>
	Thapar University, Patiala, INDIA	Associate Professor, Dept. of Electrical & Instru. Engg. 16400-450-20400 / 37400-67000 with 10000 AGP	01/06/2006 to 02/01/2012 <b>05 Y, 07 M, 01 D</b>
5	NOIDA Institute of Engineering & Technology (NIET), Greater Noida	Director Professor, Department of Electrical & Electronics Engineering <i>(Pay Scale : 37400-67000/-, at Minimum of Rs 43,000/- + AGP:10,000/- with annual increments @3%+ 58%DA + Rs. 3000/- allowance for Director of PG Institute, Basic: Rs.59,660/- as on January 2012)</i>	10/01/2012 to 29/03/2013 <b>01 Y, 02 M, 19 D</b>
	NIET Business School (NBS)	Executive Director	03/08/2012 to 29/03/2013 <b>00 Y, 07 M, 26 D</b>
6	Harcourt Butler Technological Institute, Kanpur, INDIA / Harcourt Butler Technical University, Kanpur, INDIA	Professor, Dept. of Electrical Engineering Rs. 37400 – 67000/- with AGP of Rs.10000/- Basic Pay: Rs.63,300/-	Date of appointment <b>01/05/2007</b> but joined on <b>30/03/2013</b>  <b>30 / 03 / 2013</b> to <b>TILL DATE</b>

## 9. Administrative and Academic Responsibilities / Honour:

### Administrative Responsibilities :

1. Director and Executive Director at NIET / NBS
2. Director In-Charge HBTI Kanpur in the absence of Director
3. Dean – Continuing Education and Internal Quality Assessment, HBTU, Kanpur from 14<sup>th</sup> September 2021 for two years (vide letter from Registrar reference number 477/Adam/GA/Dean-Prabhari/2021 dated 13<sup>th</sup> September 2021)
4. IQAC Coordinator, HBTU Kanpur vide Registrar letter September, 2021
5. Dean (Planning & Resource Generation), HBTI, Kanpur / HBTU, Kanpur from 9<sup>th</sup> September, 2014 upto 2<sup>nd</sup> January, 2018
6. Head of Department, Department of Electrical Engineering, Harcourt Butler Technological Institute / University (HBTI / HBTU), Kanpur from 5<sup>th</sup> May 2013 to 29<sup>th</sup> May, 2016, 28<sup>th</sup> May 2019 till date

7. Head of Department, Department of Electrical Engineering, Dr. BRAECIT Bijnor at HBTI, Kanpur from 5<sup>th</sup> May 2013 up to June 2015
8. Head of Department, Department of Electrical Engineering, Government Engineering College, Kannauj at HBTI, Kanpur since June 2015 to 29 May, 2016
9. Coordinator, World Bank TEQIP-II / TEQIP-III, HBTI, Kanpur / HBTU, Kanpur
10. Director, N.I.E.T., Greater Noida
11. Executive Director, N.I.E.T. Business School, Greater Noida
12. Coordinator, Continuing Engineering Education Programme ( CEEP ), Department of Electrical and Electronics Engineering, T. I. E. T., Patiala, INDIA
13. Warden, Hostel-C, TIET, Patiala
14. Member, Counseling / Admissions Committee for B.E. / B.Tech., TIET, Patiala
15. Member, Admission Committee, TIET, Patiala
16. Programme Officer, N. S. S., H. B. T. I., Kanpur, INDIA
17. Hostel Warden, N.E.R.I.S.T., G.B.P.E.C., INDIA
18. Head of Department, Department Electronics and Communication Engineering in N. E. Regional Institute of Sc. & Technology, Itanagar, INDIA
19. General Secretary, Faculty Association, N. E. R. I. S. T., Itanagar, INDIA
20. President, Institute Innovation Council, 2018 HBTU, Kanpur
21. Nodal Officer, National Academic Depository Cell, HBTU, Kanpur
22. Member, Board of Studies
23. Member, Academic Council, ACET, Amritsar

**Academic Assignments / Honour / Responsibilities:**

24. Expert listed in INFLIBNET Centre, Gujarat
25. Member of Senate, T. I. E. T., Patiala, INDIA
26. Member of Board of Studies (UG and PG engineering programmes) at T.I.E.T., Patiala and several other engineering institutes / universities
27. Expert listed in DOEACC SOCIETY (Expert No.: 1539), Department of Information Technology, Ministry of Communications and Information Technology, Government of India
28. Coordinator, Project Semester, T. I. E. T., Patiala, INDIA
29. Coordinator, Postgraduate Programme, T. I. E. T., Patiala, INDIA
30. Faculty Advisor, Institution of Engineers ( I ) student's chapter, T. I. E. T., Patiala
31. Officer In-Charge UG and PG laboratories at NERIST, GBPEC, HBTI, TIET
32. Member, Purchase and Inspection Committee at TIET, Patiala
33. Advisor-Placement for Centre for Industrial Liaison and Placement (CILP), TIET, Patiala
34. Examiner approved by the boards of KNIT, Sultanpur, HBTI Kanpur, IET Lucknow, BIET Jhansi, NITTTR Chandigarh, SHSL-CIET Longowal, IET Bhaddal, Himachal Pradesh University Shimla, Punjab University Chandigarh, Kurukshetra University Kurukshetra, Uttar Pradesh Technical University Lucknow, RIMT-IET Mandi GobingGarh, SBSCET Ferozepur, LLLRIET Moga, Punjab Engineering College Chandigarh, MMMUT Gorakhpur , DEI Agra
35. Member, Placement Council 2003-04, TIET, Patiala
36. Member, Committee for Submitting Report on starting Integrated MBA Programmes in TIET, Patiala
37. Convener, Committee for Examination for Loss of Equipment, TIET, Patiala
38. Convener, Committee for Submitting Report on Industry-Institute-Linkages, TIET, Patiala
39. Member Organizing Committee, National Conference on Electronic Circuits and Communication Systems (ECCS-2004) September 23-24, 2004, ECED, TIET, Patiala

40. Coordinator, Centre for Excellence in Virtual Instrumentation, TIET, Patiala
41. Member Corporate (elect) in Executive Committee (2001-2002), I.E.T.E., Chandigarh Centre
42. Expert listed in the technical workshops at NITTTR Chandigarh
43. Expert with State Public Service Commissions of Uttar Pradesh, Andhra Pradesh and Uttarakhand
44. Appointed as Convener, Monitoring Committees by DOEACC SOCIETY (Expert No.: 1539), Department of Information Technology, Ministry of Communications and Information Technology, Government of India
45. Appointed as Observer, DOEACC Examinations by DOEACC SOCIETY, Department of Information Technology, Ministry of Communications and Information Technology, Government of India
46. Permanent paper-setter / evaluator for the national level engineering entrance test / promotion tests for various engineering institutes / universities in India
47. Permanent paper-setter / evaluator of A.M.I.E. for Institution of Engineers (India)
48. Appointed as Convener, Monitoring Committees by Punjab Technical Education Board
49. Member Evaluation Committees, Department of Technical Education and Industrial Training, Punjab
50. Expert / Examiner, Uttar Pradesh Technical University (UPTU), Lucknow
51. Expert / Examiner , Punjab Technical University (PTU), Jalandhar
52. Member, Committee for Medical Insurance Policy for the Institute Employees, TIET Patiala
53. Member, Committee for Insurance Policy of Fixed Assets, TIET Patiala
54. Member, National Advisory Committee, National Conference on Electrical Engineering Developments (NCEED) June 17-18, 2005 being organized by Department of Electrical & Electronics Engineering, Gandhi Institute of Technology and Management (GITAM), Vishakhapatnam, Andhra Pradesh
55. Coordinator (Electrical Engg.), International Training Programme, University of Waterloo, Canada, June - August 2005 at T.I.E.T., Patiala
56. Coordinator (Electrical Engg.), International Training Programme, University of Waterloo, Canada June - August 2005 at T.I.E.T., Patiala
57. Expert (for all lectures) in Short Term Course on, "Intelligent Engineering System's Design Using Artificial Intelligence" July 30-31, 2005 held at Lala Lajpat Rai Institute of Engineering and Technology, Moga, Punjab
58. Member-Senate of TIET Patiala, nominated by Director TIET, Patiala
59. Expert lecture on, "Intellectual Property Rights" October 20, 2005 held at Lala Lajpat Rai Institute of Engineering and Technology, Moga, Punjab
60. All expert lectures in CEEP course on, "Advanced Fuzzy Logic Technology & Its Applications" October 25-26, 2005 held at EIED, Thapar Institute of Engineering and Technology, Patiala, Punjab
61. Judge-Research Paper Presentation in Electronics & Communication / Instrumentation Category in Inter Institute Technical Festival, "HELIX'05", 18<sup>th</sup>-20<sup>th</sup> November 2005 TIET, Patiala
62. Expert lectures on topics, "Body Area Networks", "Genetic Algorithm", "Human Area Networking & Ted Tacton" in UGC sponsored refresher course titled, "Computer Networks- Present & Future" (CNPf-2005), 05-24 December 2005 TIET, Patiala
63. Member, Departmental Academic Affairs Committee, TIET, Patiala
64. Member Purchase and Inspection Committee 2005 - 2006, TIET, Patiala
65. Deputy Superintendent-Examinations at TIET May 2006
66. Member, National Advisory Board, National Conference on Advancements in Modeling and Simulation (AIMS'06) January 20-21, 2006 being organized by Lala Lajpat Rai Institute of Engineering and Technology, Moga, Punjab

67. Opening/First Key Note Lecture on, "Human Area Networking" on January 20, 2006 in National Conference on Advancements in Modeling and Simulation (AIMS'06) January 20-21, 2006 being organized by Lala Lajpat Rai Institute of Engineering and Technology, Moga, Punjab
68. Guest of Honour during inauguration of the National Conference on Advancements in Modeling and Simulation (AIMS'06) January 20-21, 2006 being organized by Lala Lajpat Rai Institute of Engineering and Technology, Moga, Punjab
69. Member, National Advisory Board, National Conference on Emerging Principles and Practices of Computer Science and Information Technology (EPPCSIT'06) August 18-19, 2006 being organized by Guru Nanak Dev Engineering College, Ludhiana, Punjab
70. Key Note Lecture on, "Evolutionary Programming and Its Applications in Engineering" on August 19, 2006 in National Conference on Emerging Principles and Practices of Computer Science & Information Technology (EPPCSIT'06) August 19-20, 2006 being organized by Guru Nanak Dev Engineering College, Ludhiana, Punjab
71. Session Chairman for the session, "AI and Intelligent Systems" 10.00 AM-12.00 Noon on August 19, 2006 in National Conference on Emerging Principles and Practices of Computer Science & Information Technology (EPPCSIT'06) August 19-20, 2006 being organized by Guru Nanak Dev Engineering College, Ludhiana, Punjab Observer-Examinations DOEACC Society Department of Information Technology, Ministry of Communication and Information Technology, Government of India
72. Session Chairman (session titled, "AI in Mechanical Engineering") on 09/09/2006 from 12.00 noon to 3.00PM at ISTE sponsored National Conference on Recent Advances in Mechanical Engineering (NCRAME-06) September 8-9, 2006 being organized by Rayat Institute of Engineering and Information Technology, Ropar, Punjab
73. Guest of Honour - Valediction of ISTE sponsored National Conference on Recent Advances in Mechanical Engineering (NCRAME-06) September 8-9, 2006 being organized by Rayat Institute of Engineering and Information Technology, Ropar, Punjab
74. Key note lecture on, "Soft Computing and Machine Intelligence" on September 09, 2006 in ISTE sponsored National Conference on Recent Advances in Mechanical Engineering (NCRAME-06) September 8-9, 2006 being organized by Rayat Institute of Engineering and Information Technology, Ropar, Punjab
75. Paper setter/examiner for The Punjab State Board of Technical Education and Industrial Training, Chandigarh
76. Expert lectures on, "Machine Intelligence" on 12<sup>th</sup> November 2006 at Khalsa College, Tarn Taran, Punjab
77. Expert lectures on, "Soft Computing and Artificial Intelligence" on 16<sup>th</sup> November 2006 at G G S College of Engineering and Technology, Talwandi Sabo, Punjab
78. Expert lectures on, "Fuzzy Logic and Machine Intelligence" on 20<sup>th</sup> November 2006 at Bhutta College of Engineering and Technology, Ludhiana, Punjab
79. Expert lectures on "Fuzzy Logic and Their Applications", Human Area Networking and Red Tacton", " Genetic Algorithms" and "Soft Computing and Machine Intelligence" in UGC sponsored refresher course on "Advanced Signal Processing Techniques in Wireless Communications" (ASPTWC-2006) during December 4-23, 2006 at T I E T, Patiala
80. Member - Senate Post Graduate Committee Session 2006-07, EIED, TIET Patiala
81. Expert and In-House Trainer for the course, "Short Term Training Programme (STTP) on Virtual Instrumentation and LabVIEW" March 16-17, 2007 at G G S College of Engineering and Technology, Talwandi Sabo (Bhatinda), Punjab
82. Member-Recruitment/Selection Panel for Lecturers / APs at LLRIET, Moga on 18<sup>th</sup> April 2007
83. Expert lecture on, "Genetic Algorithms" in national conference "Grand Challenges in Electrical Engineering" April 28-29, 2007 at Rayat Institute of Engineering & Information Technology, Nawanshahr, Punjab Session Chairman for session on "Renewable Energy Sources" on 28<sup>th</sup> April

- 2007 in national conference “Grand Challenges in Electrical Engineering” April 28-29, 2007 at Rayat Institute of Engineering & Information Technology, Nawanshahr, Punjab
84. Message published in national conference “Grand Challenges in Electrical Engineering” April 28-29, 2007 at Rayat Institute of Engineering & Information Technology, Nawanshahr, Punjab
  85. Expert Lecture on, “Efficient generation control of small hydropower and artificial intelligence” in short term course (under TEQIP) on Small Hydro Power, May 7-11, 2007 organized by Dept of Civil Engineering at National Institute of Technology, Hamirpur, Himachal Pradesh
  86. Expert lecture on, “Intelligent computing through MATLAB” in short term course on, “Applications of MATLAB in Engineering” July 27-28, 2007 organized by Department of Electronics and Instrumentation Engineering at IET, Bhattal, Ropar, Punjab
  87. Member, Students Consultative Committee (SCC)
  88. Member-National Advisory Board, National Conference on “Current Trends in Electrical Engineering” (CTEE-08), February 14, 2008, GZSCET Bhatinda, Punjab, India
  89. Expert lecture on, “Fuzzy Applications in Electrical Engineering” in AICTE sponsored summer school on, “Artificial Neural Network and Fuzzy Logic” 21<sup>st</sup> July – 01<sup>st</sup> August, 2008 organized by Department of Electrical Engineering at National Institute of Technical Teacher’s Training & Research (NITTTR), Chandigarh
  90. Expert lecture on, “Data Mining Applications using Expert Systems” in AICTE sponsored summer school on, “Artificial Neural Network and Fuzzy Logic” 21<sup>st</sup> July – 01<sup>st</sup> August, 2008 organized by Department of Electrical Engineering at National Institute of Technical Teacher’s Training & Research (NITTTR), Chandigarh
  91. Expert lecture on, “Fuzzy Logic and Genetic Algorithms” in Faculty Orientation and Development Programme on 8<sup>th</sup> August, 2008 organized by Department of Computer Science and Engineering at Rayat Institute of Engineering and Technology, Kharar, Mohali
  92. Expert lecture on, “Discrete Event System Modeling Using Petri Nets” and “Fuzzy Logic” in ISTE approves STTP titled “Simulation and Analysis of Engineering Problems with Computer Tools (Dec. 15-19, 2008)” on 18<sup>th</sup> December, 2008 organized by Department of Electronics and Computer Science & Engineering” at Sant Baba Bagh Singh Institute of Engineering & Technology, Khiala, Padhiana, Jalandhar
  93. Session Chair, National Conference on “Image Processing: Issues and Applications” March 27<sup>th</sup> 2009 Organised by Department of Computer Science and Engineering, IET Bhattal, Ropar Punjab
  94. Expert lecture on “Petri Nets” and “Fuzzy Logic” in ISTE sponsored course on “Artificial Intelligence and Its Engineering Applications” during April 3-5, 2009 at Adesh Institute of Engineering and Technology, Faridkot, Punjab
  95. Key note lecture on “Artificial Intelligence in Business” in National Conference on Advancements in Instrumentation Engineering on July 18, 2009 at Adesh Institute of Engineering and Technology, Faridkot, Punjab
  96. Expert lecture and workshop (one full day) in ISTE STTP on “Virtual Instrumentation” on 5<sup>th</sup> August 2009 at Sant Baba Bagh Singh Institute of Engineering & Technology, Khiala, Padhiana, Jalandhar
  97. Expert lecture on “Petri Nets and Engineering System Modeling” in ISTE sponsored National Seminar on “Emerging Trends in Core Engineering and Technology” on 7<sup>th</sup> December 2009 at Amritsar College of Engineering and Technology, Amritsar
  98. Expert lecture on “Petri Nets – An Introduction for Bioinformaticians (Theory & Demo)” in 9<sup>th</sup> National Workshop on “Emerging Machine Learning Techniques in Bioinformatics” on 18<sup>th</sup> December 2009 at Bio-Technology Information System (BTIS) Sub-Centre, National Dairy Research Institute, Karnal

99. Expert lecture on “Petri Nets” in AICTE / MHRD Winter School on “ Instrumentation & Signal Processing” January 11-15, 2010 organized by Department of Instrumentation & Control Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
100. Expert lecture on “Discrete Event System Modeling Using Petri Nets” in International Conference on “ Engineering Innovations: A Fillip To Economic Development” (ICEI2K10) February 18-20, Continental Group of Institutes, Fatehgarh Sahib, Punjab
101. Technical Session Chairman, Session-IV in International Conference on “Engineering Innovations: A Fillip To Economic Development” (ICEI2K10) February 18-20, 2010 Continental Group of Institutes, Fatehgarh Sahib, Punjab
102. Technical Session III “Databases” Chairman in National Conference on “Challenges in Emerging Computer Technologies (CECT-10)” April 8-9, 2010 organized by Department of Computer Science & Information Technology at Rayat & Bahra Institute of Engineering and Biotechnology, Mohali, Punjab
103. Research paper reviewer, International Conference, “ICSDC-2010”, 19<sup>th</sup>-22<sup>nd</sup> August 2010, MIT Manipal
104. Expert lectures on “Internal Model Control”, “Cascade Control” and “Ratio, Selective and Split Range Control” in Faculty Development Programme during July 12-16, 2010 at BBSBEC, Fatehgarh Sahib
105. Invited as a resource person for National Conference, “ ATPEPS-2010” during 28-29 August 2010 at Marudhar Engineering College, Bikaner, Rajasthan
106. Delivered an expert lecture on “Petri Nets and Its Avionic Applications” in National Symposium on “New Horizons in Avionics Display Systems (NHADS-2010)” at Central Scientific Instruments Organization, Chandigarh on 23<sup>rd</sup> October 2010
107. Plenary talk on “Efficient Modeling Using Petri Nets” and session chairperson in International Conference on Power Systems Operation and Control (ICOPS’10), December 20-22, 2010 at Guru Nanak Dev Engineering College Ludhiana, Punjab
108. Chairman of technical session 3B (11.30 AM -1.00PM) day 2 ( 21/12/2010) on “New Technologies” in International Conference on Power Systems Operation and Control (ICOPS’10), December 20-22, 2010 at Guru Nanak Dev Engineering College Ludhiana, Punjab
109. Session Chairman of 2<sup>nd</sup> technical session (2.30 PM -4.30PM) day 1 ( 27/12/2010) on “Solar Energy (PV)” in International Conference on Clean Technologies and Energy Efficiency For Sustainable Development (ENERSTATE 2010), December 27-29, 2010 organised by Uttarakhand Technical University, Dehradun, Harcourt Butler Technological Institute, Kanpur and Shivalik College of Engineering, Dehradun at The Competent Palace, Selaquin, Dehradun
110. Plenary talk on “Petri Nets” and session chairperson in National Conference on “Innovative Developments in Engineering Applications (IDEA-2011)”, January 27-28, 2011 at Bhai Gurdas Institute of Engineering and Technology, Sangrur, Punjab
111. Expert lecture on “Fuzzy Logic and Its Engineering Applications” on 1st March 2011 at Amritsar College of Engineering and Technology, Amritsar
112. Member, Advisory Board, Cambridge Engineering College, Fatehgarh Sahib, Punjab
113. Member, National Advisory Committee UGC sponsored national conference on “Emerging Trends in Computing and Information Technology 2011” 5<sup>th</sup> March 2011 organised by P G Department of Computer Science & IT, Guru Gobind Singh Khalsa College, Sarhali, Tarn Taran, Punjab
114. Expert lecture of “Latest variants of Fuzzy logic sets and their applications” in UGC sponsored national conference on “Emerging Trends in Computing and Information Technology 2011” on 5<sup>th</sup> March 2011 organised by P G Department of Computer Science & IT, Guru Gobind Singh Khalsa College, Sarhali, Tarn Taran, Punjab

115. Expert lecture on “Discrete System Modeling Using Petri Nets” at I.T.S. Engineering College, Greater NOIDA on 2<sup>0th</sup> April 2011 (invited vide email dated Friday Mar 4 2011 3.54 PM from Prof. Mandhir Verma, Head, EED, I.T.S. Engineering College, Greater NOIDA)
116. Session Chairman in technical session – II of IEEE Conference on “Signal Processing and Real Time Operating System (SPORTS)” March 26-27, 2011 organized by Department of Electronics Engineering, Harcourt Butler Technological Institute, Kanpur
117. Session Chairman session-III, chapter-III of National Conference on “Converging Technologies Beyond 2020 (CTB-2020)” April 6-7, 2011 organized by University Institute of Engineering and Technology (UIET), Kurukshetra University, Kurukshetra University, Haryana
118. Expert lecture of “Fuzzy logic and their applications” at Chitkara Institute of Engineering and Technology, Jansla, Rajpura, Punjab on 19<sup>th</sup> April 2011
119. Advisory Committee Member, UGC sponsored National Conference on Emerging Trends in Computing and Information Technology 2011, 5<sup>th</sup> March 2011 at Guru Gobind Singh Khalsa College, Sarhali, Tarn Taran, Punjab – 249541
120. Expert key note lecture on “Fuzzy Logic and Its Engineering Applications” on 13<sup>th</sup> June 2011 in inauguration of “AICTE sponsored staff development programme (SDP) on MATLAB and SIMULINK based technical programming and simulation in teaching and research( MSTR-2011) June 13-25, 2011 organized by Department of Electronics and Instrumentation Engineering, Institute of Technology and Management (ITM) Gwalior
121. Expert key note lecture on “MATLAB and SIMULINK programming in engineering” from 13<sup>th</sup> to 18<sup>th</sup> June 2011 in “AICTE sponsored staff development programme (SDP) on MATLAB and SIMULINK based technical programming and simulation in teaching and research( MSTR-2011) June 13-25, 2011 organized by Department of Electronics and Instrumentation Engineering, Institute of Technology and Management (ITM) Gwalior
122. Expert Board of Studies, EEE and ECE at Lovely Professional University, Phagwara, Punjab
123. Expert in Faculty Selection at Cambridge Engineering College (CEC), Fatehgarh Sahib, Punjab
124. Expert in Faculty Selection at Amritsar College of Engineering and Technology (ACET), Amritsar, Punjab
125. Reviewer, Research Papers of International Conference on Deregulated Environment and Energy Markets, July 22-23, 2011 at Chitkara Institute of Engineering and Technology, Rajpura, Punjab
126. Session Chairperson, Technical Session –III on Renewable Energy & Energy Management (Time: 2:30 -4:30 p.m., Venue : Curie Hall, Edison Block) in International Conference on Deregulated Environment and Energy Markets, July 22-23, 2011 at Chitkara Institute of Engineering and Technology, Rajpura, Punjab
127. Expert Talk on “Discrete System Modelling” in National Conference on Advancements in Convergence of Technologies(NCACT-2011) September 8-9, 2011 at Amity University, Gurgaon, Haryana
128. Member, UGC Expert Committee for evaluation and conferment of fresh autonomous status to B C T Kumaon Engineering College, Dwarahat, Almora, Uttarakhand
129. Session Chairperson, Session – 4 and Expert Talk on “Petri Nets in Engineering Systems” in International Conference RAITM January, 2012 at Shri Guru Ram Rai Institute of Technology and science Patelnagar, Dehra Dun
130. Session Chairperson, International Conference ICTM-20114<sup>th</sup> on November 2011 being organized by Continental Group of Institutes, Sirhind, Punjab
131. Advisor and Expert, Cambridge Engineering College, Fatehgarh Sahib, Punjab
132. Member Entrance Test / Admissions Committee M.E. / M.Tech. Electronics Instrumentation and Control / Power Systems and Electrical Drives 2011-2012
133. Member Entrance Test / Admissions Committee Ph.D. (Electrical Engineering) 2011-2012
134. Member, Advisory Committee of International Conference DEEM -2011 July 21-22, 2011 at Chitkara University, Punjab



135. Session Chairperson, Technical Session-IV of International Conference DEEM -2011 July 21-22, 2011 at Chitkara University, Punjab
136. Expert / Resource person for all the five days in Faculty Development Programme on “MATLAB and LABVIEW based Technical Programming in Electrical Engineering Teaching and Research” 25-29 July 2011, BBSBEC, Fatehgarh Sahib, Punjab
137. Member, Advisory Board of National Conference on “Role of Electronics and Instrumentation Engineering for Rural Development (NCREIE-2012)” January 2012 at J N Institute of Engineering and Technology, Jaipur
138. Member, Advisory Committee of Amritsar College of Engineering & Technology(ACET), Amritsar, PUNJAB
139. Member, National Advisory Board of National Conference on “Power and Energy Management (PEMCON-2012)” February 24-25, 2012 to be organized by Department of Electrical Engineering Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, PUNJAB
140. Chairperson, National Conference on Recent Trends in Electrical Engineering-2012 (RTEE'12) April 21-22, 2012 organized by Department of Electrical and Electronics Engineering, NOIDA Institute of Engineering & Technology, Greater NOIDA
141. Vice President, National Conference on Emerging Technologies in Computer Science-2012 (ETCS-12) September 15-16, 2012 organized by Departments of CS / IT / MCA, NOIDA Institute of Engineering & Technology, Greater NOIDA
142. Expert lecture of “Fuzzy logic and its Engineering Applications” at NOIDA Institute of Engineering and Technology (NIET), Greater NOIDA on 14<sup>th</sup> January 2012
143. Keynote lecture titled “Petri Nets and Discrete Event System Modeling” on 4<sup>th</sup> June 2013 in TEQIP sponsored FDP “RAEE” June 3-8, 2013, EED, HBTI, Kanpur
144. Keynote lecture titled “Fuzzy Logic and Its Engineering Applications” on 8<sup>th</sup> June 2013 in TEQIP sponsored FDP “RAEE” June 3-8, 2013, EED, HBTI, Kanpur
145. Expert lecture titled “Inputs of Intellectual Property Rights (IPRs) in Postgraduate Courses” on 4<sup>th</sup> July 2013 in TEQIP sponsored Faculty Development Programme (FDP) on “Curriculum Development and Evaluation Methods in Technical Education” 1-6, July 2013 organised by Department of Plastic Technology and Department of Mechanical Engineering, HBTI, Kanpur
146. Keynote lecture titled “Petri Nets: A Modeling Paradigm” in TEQIP sponsored National Seminar “Advances in Power Electronics and Control (APEC)”, August 13, 2013, EED, HBTI, Kanpur
147. Coordinator, TEQIP – II, World Bank, HBTI, Kanpur w.e.f. 2<sup>nd</sup> September 2013
148. Expert lecture titled “Design and Development of Fuzzy Logic Models for Engineering Systems” on 30<sup>th</sup> October 2013 in TEQIP sponsored Faculty Development Programme (FDP) on “Modeling, Simulation and Analysis of Engineering Systems” 25-30, October 2013 organised by Department of Computer Science & Engineering, HBTI, Kanpur
149. Expert lecture titled “Genetic Algorithms and its Applications in Engineering” on 7<sup>th</sup> January 2014 in TEQIP sponsored Faculty Development Programme (FDP) on “ Digital Signal Processing Using MATLAB” 6-10, January 2014 organised by Department of Electronics Engineering, HBTI, Kanpur (vide invitation letter no. 772/ET/2014 dated January 2, 2014)
150. Expert lecture titled “Discrete Event System Modeling Using Petri Nets” on 7<sup>th</sup> January 2014 in TEQIP sponsored Faculty Development Programme (FDP) on “ Digital Signal Processing Using MATLAB” 6-10, January 2014 organised by Department of Electronics Engineering, HBTI, Kanpur (vide invitation letter no. 772/ET/2014 dated January 2, 2014)
151. Expert lecture titled “Fuzzy Logic” on 27<sup>th</sup> March 2014 at Kamla Nehru Institute of Physical & Social Sciences (KNIPSS), Sultanpur (U.P.)
152. Keynote speech titled “Petri Nets” on 28<sup>th</sup> March 2014 in TEQIP sponsored National Conference on “Emerging Trends in Electrical Systems” 28-29, March 2014 organised by Department of

- Electronics Engineering, Madan Mohan Malviya University of Technology (MMMUT), Gorakhpur (U.P.)
153. Expert Lecture titled “Fuzzy Logic MATLAB Programming and Simulation” 5<sup>th</sup> April, 2014 in TEQIP sponsored Workshop on “MATLAB Programming” April 5-6, 2014 organised by Department of Electrical Engineering, Harcourt Butler Technological Institute, Kanpur (U.P.)
  154. Expert Lecture titled “Neuro-Fuzzy MATLAB Programming and Simulation” 6<sup>th</sup> April, 2014 in TEQIP sponsored Workshop on “MATLAB Programming” April 5-6, 2014 organised by Department of Electrical Engineering, Harcourt Butler Technological Institute, Kanpur (U.P.)
  155. Expert Lecture titled “Petri Nets Design and Applications” 13<sup>th</sup> April, 2014 in IETE sponsored National Conference on “Advances in Electrical & Information Communication Technology (AEICT-2014)” April 12-13, 2014 organised by Department of Electronics & Communication Engineering, PSIT College of Engineering, Kanpur (U.P.)
  156. Member-Board of Studies, Chandigarh University, Chandigarh
  157. Member, Academic Council, Mahamaya Technical University NOIDA
  158. Vice President, National Conference on Electronics, Communication and Information Systems-2013 (ECIS3) March 16-17, 2013 organized by Departments of Electronics and Communication Engineering, NOIDA Institute of Engineering & Technology, Greater NOIDA
  159. Chairman, TEQIP sponsored National Seminar “Advances in Power Electronics and Control (APEC)”, August 16, 2013, EED, HBTI, Kanpur
  160. Coordinator, TEQIP – II, World Bank, HBTI, Kanpur w.e.f. 2<sup>nd</sup> September 2013
  161. Member, Law Committee, HBTI Kanpur w.e.f. 3<sup>rd</sup> April, 2014
  162. Executive Committee Member, IETE Kanpur Chapter, 2014-2015, Kanpur
  163. Expert Lecture titled “Preparation and Presentation of an Academic Research Paper” 01<sup>st</sup> September, 2014 at Dr. Ambedkar Institute of Technology for Handicapped, Kanpur (U.P.)
  164. Expert, Board of Studies, EED, MMM University of Technology, Gorakhpur
  165. Member, Organising Committee, Workshop on, “Innovative Practices in Vegetable Oil Processing” September 27-28, 2014, organised by Department of Oil and Paint Technology, HBTI, Kanpur
  166. Expert Lecture titled, “Fuzzy Logic Real-time control system for industrial microwave reactor to produce biodiesel from waste cooking oil and animal’s fats” in Workshop on, “Innovative Practices in Vegetable Oil Processing” September 27-28, 2014, organised by Department of Oil and Paint Technology, HBTI, Kanpur
  167. Keynote speech on “Leveraging ICTs for development of smart cities” in IETE Foundation Day, celebrated at EED, HBTI, Kanpur, jointly organized by IETE Kanpur Centre and EED, HBTI, Kanpur November 2, 2014
  168. Expert, Workshop on “Curriculum Development” organized by Dept. of Electrical Engineering, Board of Studies on 01<sup>st</sup> Dec., 2014 at MMM University of Technology, Gorakhpur
  169. Expert - Electrical, Nagar Nigam, Kanpur
  170. Key note speaker Internal Conference on Research & Innovations in Engineering & Technology (ICRIET - 2014), 19-20 Dec., 2014 organised by Dept. of Electronics and Communication Engineering, ACET, Amritsar
  171. Paper Setter, Moderator, Evaluator, The Institution of Electronics and Telecommunication Engineers (IETE), New Delhi
  172. Expert - Specification Committee for Binocular, Solar Light / Panel, PA System, CCTV Camera, Bulletproof Sentry Post, DIG-PAC, Kanpur (December, 2014)
  173. Expert – Committee for evaluation of Technical and creative Proposals for Sound and Light Shows, U. P. State Tourism Development Corpn. Ltd., Gomti Nagar, Lucknow (January, 2015)
  174. Keynote speech on “Non-conventional Sources of Energy” in IETE Student’s Day, celebrated at KIT, Kanpur, jointly organized by IETE Kanpur Centre and KIT, Kanpur, February 1, 2015

175. Expert Lecture titled, “Modeling and Simulation” in TEQIP-II sponsored Workshop on, “MATLAB Programming and Its Applications” February 25-26, 2015, organised by Department of Electrical Engineering, HBTI, Kanpur
176. Expert Lecture titled, “MATLAB Programming” in TEQIP-II sponsored Workshop on, “MATLAB Programming and Its Applications” February 25-26, 2015, organised by Department of Electrical Engineering, HBTI, Kanpur
177. Expert Lecture titled, “MATLAB Simulations” in TEQIP-II sponsored Workshop on, “MATLAB Programming and Its Applications” February 25-26, 2015, organised by Department of Electrical Engineering, HBTI, Kanpur
178. Expert Lecture titled, “Higher Education at Crossroads: Indian Perspective” in Technical Education Dept., UP State Level Faculty Interaction Seminar, sponsored by TEQIP-II, June 8-9, 2015, HBTI, Kanpur
179. Expert Lecture titled, “Smart Clothes” in AARAMBH 2015, organised by ISF-AITH, sponsored by IETE Kanpur Chapter, September 24, 2015, AITH, Kanpur
180. Expert Lecture titled, “Discrete Events System Modeling Using Petri Nets” October 18, 2015 at EED, MMMUT, Gorakhpur
181. Expert UGC – NAAC, Bangalore
182. Expert Lecture titled, “Smart Grid and ICT” December 8, 2015 in National Workshop on Emerging Trends in Smart Grid and Renewable Energy System (ETSGRES-15), 8-9 Dec., 2015 EED, MMMUT, Gorakhpur
183. Subject Expert / Examiner – Jamia Milia Islamia University, New Delhi
184. Expert Lecture titled, “Genetic Algorithms and Its Engineering Applications” in FDP on Advanced Algorithms in Computing, 25-30 January, 2016 at Department of Computer Science and Engineering, HBTI, Kanpur
185. Expert Lecture titled, “Genetic Algorithms” IETE Student's Day, February 07, 2016 at IITM, Kanpur
186. Member Doctoral Research Committee, M M M U T, Gorkhpur
187. Expert Lecture titled “Women in Engineering”, International Women’s Day Celebration 8<sup>th</sup> March, 2016, EED, HBTI, Kanpur ( jointly organized by EED, HBTI Kanpur and IETE Kanpur Centre)
188. Expert, Gautam Buddha University, Gr. Noida
189. Expert Lecture titled, “Fuzzy Logic System Design Using MATLAB” August 6, 2016 in Short Term Course (STC) on " Recent Advances in Electrical Engineering and Renewable Energy System", 6 - 7 August, 2016, EED, MMMUT, Gorakhpur
190. Expert Lecture titled, “Genetic Algorithms Implementation in Electrical Engineering” August 7, 2016 in Short Term Course (STC) on " Recent Advances in Electrical Engineering and Renewable Energy System", 6 - 7 August, 2016, EED, MMMUT, Gorakhpur
191. Member, National Advisory Committee, National Conference on “Trends in Electrical and Electronics Engineering (NCETEEE – 2016)”, 19 – 20 August, 2016, Department of Electrical Engineering, Institute of Engineering and Technology, Lucknow, Uttar Pradesh
192. Chairman, Technical Session – I on 19<sup>th</sup> August, 2016 from 11.30 AM to 1.00 PM of National Conference on “Trends in Electrical and Electronics Engineering (NCETEEE – 2016)”, 19 – 20 August, 2016, Department of Electrical Engineering, Institute of Engineering and Technology, Lucknow, Uttar Pradesh
193. Member for year 2016, 2017 – Expert Committee for Engineering & Technology, Council of Science & Technology UP, 9, Nabiullah Road, Suraj Kund Park, Lucknow – 226 018 (letter ref. no.: CST/SERPD/D-1676 dated 22 August, 2016 of Dr. M. K. J. Siddiqui, Director)
194. Expert Lecture titled, “Concepts of Genetic Algorithms” September 10, 2016 at EED, MMMUT, Gorakhpur

195. Expert Lecture titled, "Petri Nets: Concepts and Applications" September 13, 2016 in Faculty Development Programme (FDP) on "Recent Advances in Renewable Energy Technologies and Smart Microgrid", 13 - 17 September, 2016, EED, KNIT, Sultanpur
196. Expert Lecture titled, "Implementation of Petri Nets" in National Conference "EPTMITA-16", 24 September, 2016, EED, MMMUT, Gorakhpur
197. Examiner, M. Tech, EED, IET Lucknow
198. Expert, Project Review Committee, SIDBI Innovation and Incubation Centre, IIT Kanpur
199. Expert Lecture titled, "Fuzzy Systems Design for Communication Systems" February 02, 2017 in Faculty Development Programme (FDP) on "Advanced Course on Antennas and Microwaves", 30 January 2017 - 04 February, 2017, ETD, SoE, HBTU, Kanpur
200. Expert Lecture titled, "Neuro-Fuzzy Systems Design for Food and Bio Processes" February 08, 2017 in Faculty Development Programme (FDP) on "Trends in Food and Bioprocessing", 06 - 11 February, 2017, BE & FT Departments, SoCT, HBTU, Kanpur
201. Expert Lecture titled, "Petri Nets for Communication Systems" February 28, 2017 in Faculty Development Programme (FDP) on "Communication Networks: A Research Perspective", 27 February 2017 - 04 March, 2017, ETD, SoE, HBTU, Kanpur
202. Expert Lecture titled, "Discrete Even System Modeling Using Petri Nets" March 02, 2017 in Faculty Development Programme (FDP) on "Simulation Techniques of Power Electronics Converters (STPEC)", 27 February 2017 - 04 March, 2017, EED, SoE, HBTU, Kanpur
203. Expert Lecture titled, "Design of Hybrid (Neuro - Fuzzy) Intelligent Systems" March 02, 2017 in Faculty Development Programme (FDP) on "Simulation Techniques of Power Electronics Converters (STPEC)", 27 February 2017 - 04 March, 2017, EED, SoE, HBTU, Kanpur
204. Member, Academic Council, Amritsar College of Engineering and Technology (ACET), Amritsar 2017 - 19 (appointed vide Principal, ACET, Amritsar letter ref. no. ACET/PO/3054 dated 04 / 05 / 2017)
205. Member, Board of Studies (BoS), Madhav Institute of Technology and Science (MITS), Gwalior (M. P.) (appointed vide Dr. R. K. Pandit, Director, MITS, Gwalior, Ref. no. DA/MP/17/3268 dated 07 (/09) / 11 / 2017)
206. Session Chairman, Technical Session - 4, International Conference on Technology & Trust (ICTT'17", December 28 - 29, 2017, GNIoT, Gr. Noida (U.P.)
207. Member, Workshop on "Start Up", December 28 - 29, 2017 at AKTU Lucknow
208. Member, Board of Studies (BoS), UPTTI, Kanpur
209. Expert, University Grants Commission (UGC), New Delhi
210. Expert Lecture titled, "Soft Computing and Its Application in Electrical Engineering" September 28, 2018 at PSIT, Kanpur (invited by Dr. Ajit Kumar N Shukla vide his invitation letter no. PSIT/2018-19/227 dated Sept. 18, 2018)
211. Expert Lecture titled, "Finding Place as a Teacher" in FDP on "Methods and Techniques for Enhanced Teaching and Learning in Technical Education" 15 - 20 October, 2018 at ChED, HBTU, Kanpur
212. Expert Lecture titled, "Alumni and Alma Mater" in National Seminar on "Role of Alumni in Institution Building" during 14th International Alumni Meet - 2018, 24 - 25 November, 2018, HBTU, Kanpur, India
213. Expert Lecture titled, "Application of Fuzzy Logic in Food Industry" in TEQIP - III sponsored FDP on Recent Advancement in Food Processing and Preservation (FPP 2019), 26 - 31 August, 2019, Department of Food Technology, HBTU, Kanpur, India
214. Expert Lecture titled, "Artificial Intelligence" in IEEE, IETE and IE(I) Lecture Series, 08 September, 2019, Department of Electrical Engineering, HBTU, Kanpur, India
215. Expert Lecture titled, "Artificial Intelligence and Machine Learning" in TEQIP - III sponsored STC on Control and Machine Intelligence, 16 - 28 September, 2019, Department of Electrical Engineering, HBTU, Kanpur, India

216. Expert Lecture titled, "Energy and Earth" in TEQIP - III sponsored National Seminar on Energy and Earth, 21 November, 2019, Department of Electrical Engineering, HBTU, Kanpur, India
217. Expert empanelled with PAC, UP
218. Expert empanelled with Nagar Nigam, Kanpur, UP
219. Expert empanelled with ALIMCO, Kanpur UP
- 220.02 Two Hours each Online Expert Lectures titled as "Data Processing in IoT Using ANNs" on 17 and 21 August, 2020 in AICTE sponsored Short Term Training Program (STTP) on "An Introduction to Internet of Things (IoT) and Its Applications for Smart Transparent and Immutable Ecosystem", CSED, NIET, Greater Noida UP
- 221.02 Two Hours each Online Expert Lectures titled as "IoT, ANNs and Control System" on 28 and 30 September, 2020 in TEQIP – III sponsored Five Days Online Short Term Course (STC) on "Exploratory Applications of Control and Instrumentation (EACI - 20)", 26 – 30 September 2020, NIT, Jalandhar, Punjab
- 222.05 Two Hours each Online Expert Lectures titled as "Data Processing using Artificial Intelligence (Fuzzy Logic, ANNs) – Part 1", "Data Processing using Artificial Intelligence (Fuzzy Logic, ANNs) – Part 2", "Production Control through Robotic Arm Movement Control using Genetic Algorithms and Its Analysis", "IoT Fundamentals, Issues and Deployment – Part 1" and "IoT Fundamentals, Issues and Deployment – Part 2" on 18 / 11 / 2020, 19 / 11 / 2020. 01 / 12 / 2020, 07 / 12 / 2020 and 08 / 12 / 2020 respectively, in AICTE sponsored Three Week Online Short Term Training Programme (STTP) on "Internet of Things and Data Analytics", 18 November 2020 – 08 December 2020 organised by Department of Information Technology, JSS Academy of Technical Education, Noida, UP, India
- 223.01 Two Hours Online Expert Lecture titled as "Artificial Intelligence and Control System" on 29 December, 2020 in Five Days Online Faculty Development Programme (eFDP) on "Future of Automation & Control Technologies (FACT)", 26 – 30 December 2020, Veermata Jijabai Technological Institute, Mumbai, India
224. Member - Advisory Board of SKILLEDGE Edutech 4.0 Pvt. Ltd., Pune, India
225. Member - Advisory Committee / Technical Programme Committee for International Conference on Future Challenges in Data Science and Engineering for Global Sustainability " on 7-8 Oct 2021 at ACET Amritsar, Punjab, INDIA
226. Convener – First Statues Draft Committee HBTU Act 2016 (vide HBTU letter reference no. 53/GA/First Statutes/21 dated May 03, 2021)
227. Member – International Advisory Committee, International Virtual Conference, "Recent Innovations in Science & Technology (RIST 2021)", 19 – 20 June, 2021 at EKC Technical Campus, Eranad Knowledge City Cherukulam, Manjeri, Malappuram, Kerala - 676122 (www.rist.live)
228. Reviewer and Member – Technical Programme Committee, International Virtual Conference, "Simulation, Automation & Smart Manufacturing (SASM 2021)", 20 – 21 August, 2021 at GLA University, Mathura, UP – 281 406
229. Reviewer and Member – Programme Committee, International Conference SPIN 2021, August, 2021, Amity University, Noida, India
230. Member – AICTE Scrutiny Committee 2021-22 (Expert ID: EXPERT201902499)
231. Member – Recruitment Rules Draft Committee (vide HBTU letter reference no. 319/Adam/OTTSC/2021 (RO) dated June 15, 2021)
232. Session Chairman Room – 4, 4.30 PM – 6.00 PM on August 26, 2021 in International Conference SPIN 2021, Amity University, Noida, India
233. Convener – Centenary Programme Committee 2021, HBTU, Kanpur
- 234.02 Two Hours Online Expert Lecture titled as "Intelligence Control" on 16 August 2021 and 18 August 2021 in One Week Online Faculty Development Programme (FDP) on "Intelligent Control And Applications (ICA)", 16 – 20 August 2021, EED, HBTU, Kanpur, India

- 235.01 Three Hours (2.00-5.00 PM) Online Expert Lecture titled as “Artificial Intelligence” on 24 August 2021 in One Week Online Faculty Development Programme (FDP) on “Antenna Design and Microwave Applications (ADMA)”, 23 – 27 August 2021, ETD, HBTU, Kanpur, India
236. Plenary Talk titled as “Machine Intelligence” on 21 August 2021 10.00 – 10.30 AM in International Virtual Conference, “Simulation, Automation & Smart Manufacturing (SASM 2021)”, 20 – 21 August, 2021 at GLA University, Mathura, UP – 281 406
- 237.02 Two Hours Online Expert Lecture titled as “IoT for Electric Vehicles” on 14 August 2021 in One Week Online Faculty Development Programme (FDP) on “Basics of Electric Vehicles”, 10 – 14 September 2021, EIED, TIET, Patiala, Punjab, India
- 238.01 Keynote Lecture titled as “Data Science” on 7 October 2021 in AICTE Sponsored International Conference on “Future Challenges in Data Science and Engineering for Global Sustainability (FCDSEGS-2021)” 7 – 8 October, 2021 organized by Department of Computer Science & Engineering, Amritsar Group of Colleges, Amritsar, Punjab
239. Reviewer and Member – Technical Programme Committee, First International Conference, “Informatics (ICI 2022)”, 14 – 16 April, 2022 at Jaypee Institute of Information Technology, A-10, Sector 62 Noida, UP - 201309, India
- 240.01 Keynote Lecture titled as “Internet of Things” on 20 October 2021 in e-STC on “Recent Trends & Challenges in Instrumentation and Control (RTCIC-2021)” 20 – 24 October, 2021 organized by Department of Instrumentation and Control Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India
241. Member – Advisory Committee, International e-Conference on "Shifting Paradigm for Sustainable Development ICSPSD 2021" 18 – 19 December, 2021, Jharkhand Rai University, Kamre, Ratu Road, Ranchi, Jharkhand – 835 222, India
- 242.01 Expert Lecture titled as “Smart Washing Machine”, at 9.00 – 9.30 AM on 16 April 2022 in National Conference on “Newer Surfactant for Soaps and Detergents”, 15 – 16 April, 2022 organized by Oil Technologists Association of India (OTAI) and Department of Oil Technology, HBTU, Kanpur, India
243. Reviewer and Member – Technical Programme Committee (TPC), International Conference SPIN 2022, August, 2022, Amity University, Noida, India
244. Reviewer and Member – Technical Programme Committee (TPC), 3rd Congress on Intelligent Systems (CIS 2022), 5 – 6 September, 2022, Department of CSE, School of Engineering & Technology, CHRIST (Deemed to be University), Bangalore, Kengeri Campus, India
245. Session Chair in 9th International Conference on Signal Processing and Integrated Networks (SPIN – 2022) technically sponsored by Springer, 25th – 26th August 2022, Day 2, 09:30 Hrs - 11:00 Hrs, Session 3D: Robotics and Embedded Systems, Amity University, Noida, India (Link to join the session: <https://amityuni.live/84082814210>)
246. Expert Lecture titled as “Data Clustering” on 18 October 2022, 2:00 – 3:15 PM, in One Week Short Term Course on "Research Methodology and Quantitative Techniques", 13 – 19 October 2022, Department of Mathematics, School of Basic & Applied Sciences, HBTU, Kanpur, Uttar Pradesh, India
247. Reviewer and Member – Technical Programme Committee (TPC), International Conference SPIN 2023, August, 2023, Amity University, Noida, India (e-mail from "noreply@easychair.org", September 8, 2022, 2:01 PM)
248. Co-opted Member, Board of Studies, Department of Mathematics, School of Basic and Applied Sciences, HBTU Kanpur (vide letter no. 424/Maths/2022 dated 27/09/2022)
249. Expert Lecture titled as “Energy Saving by using Internet of Things (IoT) for Engineering Applications” on 14 December 2022, 5:30 – 6:30 PM, on Energy Conservation Day, 14 December 2022, organised by The Institution of Engineers (India) Kanpur Local Chapter, Uttar Pradesh, India

250. Session Chairman Room – 1, 2.45 PM – 4.00 PM on March 23, 2023 in International Conference SPIN 2023, Amity University, Noida, India
  251. Guest Speaker, International Faculty Development Programme cum Short Term Course on Current Advancements in Electric and Hybrid Vehicle Technology: Opportunities and Challenges, 8 - 14 July, 2023, organised by Amity School of Engineering and Technology Lucknow Campus and IEEE UP Section Power Electronics Society Chapter (Geo-code CH11025)
  252. Reviewer and Member – Technical Programme Committee (TPC), International Conference AMIS 2024, August, 2024, China
  253. Reviewer and Member – Technical Programme Committee (TPC), International Conference SPIN 2024, 21 - 22 March, 2024, Amity University, Noida, India
  254. Session Chairman, Screen II Session IV, 11.35 AM – 01.30 PM on December 23, 2023 in Hinweis Second International Conference on Electrical Measurements and Instrumentation (Virtual Conference AEMI - 2023), December 22 - 23, 2023, India (<https://meet.google.com/yfw-yckq-upu>)
  255. Invited Speaker / Resource Person, Faculty Development Programme cum Short Term Course on Applications of Machine Learning Techniques in Sustainable Technologies (AMLST - 2024) 24 - 28 January 2024, on 28 January, 2024, organised by Department of CS and EE, National Institute of Technology, Rourkela, Odisha
  256. Member, Advisory Committee, IEEE International Conference on Intelligent control, Computing and Communications-2025 (ICCC-2025), 13 - 14 February, 2025 at GL BAJAJ Group of Institutions, Mathura.
- etc.

## 10. Practical experiences:

1. Training at Panki Thermal Power Station, Kanpur, INDIA
  2. DCS, PLC and SCADA
- etc.

## 11. Contributions:

1. Initiated and established **Virtual Instrumentation Laboratory** for advanced research in Dept. of Electrical Engg., T.I.E.T., Patiala, INDIA in year 2002
2. Development of laboratories for Electrical and Electronics Engineering
3. Delivered seminars, expert lectures and radio technical talks
4. Founder and first convener of Hobby Club at G. B. Pant Engineering College, Uttaranchal, INDIA
5. Delivered expert talk on Fuzzy Logic and its engineering applications at LLRIET, Moga, PUNJAB 2004
6. Revival of Association of Electrical Engineers (AEE) in Department of Electrical Engineering, HBTI, Kanpur
7. Organised Faculty Development Programme, Seminar, Workshops, Expert Lectures in Department of Electrical Engineering, HBTI, Kanpur
8. Creation of faculty rooms, sitting space for Research Scholar in Department of Electrical Engineering, HBTI, Kanpur
9. Initiated joint projects at B. Tech. and M. Tech. levels in Department of Electrical Engineering, HBTI, Kanpur
10. Industry collaboration through Expression of Interests (EoIs) and Memorandum of Understandings (MoUs) in Department of Electrical Engineering, HBTI, Kanpur

11. Fast progress of TEQIP-II project in the institute as Coordinator, TEQIP-II, HBTI Kanpur (indicators: faster purchases and spending on soft component)
12. At institute level, initiated organization of a large number and high quality Faculty Development Programmes, Seminars, Workshops, Conferences, Finishing Schools, Weak Students Classes, Sponsored B. Tech., M. Tech. and Faculty projects, Expression of Interests (EoIs), Memorandum of Understandings (MoUs), infrastructural development, faculty, students and staff participation in outside seminars, conferences, training programmes, workshops etc. as Coordinator, TEQIP-II, HBTI Kanpur

**12. Other off-beat contributions:**

1. Reviewer of Tata McGraw Hill Publications, India in Electrical Engineering
2. Reviewer of Pearson India in Electrical Engineering
3. Reviewer of Cambridge University Press in India in Electrical Engineering
4. Reviewer of International Journal AMSE, France

**13. Foreign visits:**

Presented research paper in the IEEE conference *PEDS-2003* November 17-20, 2003 in **Singapore** (Full expenses sponsored by AICTE, New Delhi)

**14. Research work / publications:**

Journals: 18, Conferences: 59 (List enclosed in Annexure-A)

**15. Research work supervision / guidance / evaluation:**

- (i) M.E. / M. Tech. dissertations / theses / Capstone Project guided: 65 (List enclosed at Annexure-B)
- (ii) Ph. D. theses guided and awarded: 10 (List enclosed at Annexure-C)
- (iii) Ph. D. guidance likely to be completed / ongoing: 02
- (iv) Ph. D. theses evaluated / examined: 12

**Ph.D. theses evaluated / examined: 12**

Sl. No.	Title of the Ph.D. research work	University / Date of evaluation / examination / Viva voce	Candidate
1	Wavelet based image denoising for additive and multiplicative noises	BITS, Pilani March, 2008	Mr. Karunesh Kumar Gupta Lecturer, Instrumentation Group BITS, Pilani
2	Load frequency control in hybrid power system	MNNIT Allahabad April, 2014	Mr. Shashi Kant Pandey Registration No.: 2009REE56
3	Development of an intelligent FACTS controller to damp electromechanical shafts in T-G shafts	FoE&T MDU, Rohtak 2013	Mr. Amit Garg Registration No.: 06-ACES-966
4	Performance analysis of high speed induction motor using fine element	MNNIT Allahabad	Ms. Sarika Kalra Registration No.: 2008REE01



	method	December, 2014	
5	Studies on performance improvement of hybrid power generation systems	GBU Greater Noida January, 2016	Mr. Rupendra Kumar Pachauri (Ph.D./Engg./113)
6	Improvement of classification and clustering of images using evolutionary techniques	PTU Jalandhar 18 June, 2019	Mr. Vikas Gupta Enrollment Number: 1405010
7	Analysis of multi-inverter control of induction motor	PTU Jalandhar 24 June, 2019	Ms. Ranvir Kaur Registration No.1104009
8	Optimization of digital predistorter for improved power amplifier linerization performance	Punjabi University, Patiala July 2019	Ms. Mridula Malhotra Registration No: 7141-14-1467
9	Energy efficient task scheduling and load balancing in cloud environment using meta-heuristic techniques	PTU Jalandhar 30 June, 2020	Ms. Ranjandeep Kaur Khera Registration No.17.16.10
10	Movement optimization of robotic arm for obstacle avoidance using soft computing techniques	PTU Jalandhar 01 April, 2021	Mr. Ashwani Kumar, Registration No. 1305006
11	Crop Disease Recognition and Classification Using Deep Learning Models	DIT University Dehradun 03 April, 2023	Mr. Nafees Akhter Farooqui Enrollment No. 17722757
12	Impact Assessment of Distributed Generation with Electric Vehicles in Distribution System	AKTU Lucknow 02 December, 2023, 2: 30 PM onwards	Mr. Dilip Kumar Patel Ph.D./19/EE/2347

#### 16. Courses / Workshops / Training Programmes / Summer Schools / Winter Schools attended:

No. of Courses / Summer Schools / Winter Schools: 08; Total no. of weeks: 10

No. of Workshops: 09, Total no of days: 20

No. of Training Programmes: 02, Total no of weeks: 02

Sl. No.	Title of the course / school	Host institution	Date and period
1	I.S.T.E. course on, "Electrical hazards and safety management"	N. E. Regional Institute of Science and Technology (NERIST), Itanagar, Arunachal Pr. , INDIA	20 <sup>th</sup> June to 6 <sup>th</sup> July, 1995 <b>02 Weeks</b>
2	Q.I.P. course on, "Power system stability and control"	I.I.T., Kanpur, INDIA	14 <sup>th</sup> to 19 <sup>th</sup> Sept., 1998 <b>01 Week</b>
3	I.S.T.E.-A.I.C.T.E. course on, "Neural Networks and fuzzy logic systems using C++"	G.Z.S. College of Engineering & Technology, Bathinda, Punjab, INDIA	28 <sup>th</sup> Dec., 1998 to 8 <sup>th</sup> Jan., 1999 <b>02 Weeks</b>
4	Q.I.P. course on, "Fuzzy Logic and its engineering applications"	I.I.T., Kanpur, INDIA	3 <sup>rd</sup> to 9 <sup>th</sup> May, 1999 <b>01 Week</b>

5	Q.I.P. course on, “Introduction to virtual instrumentation”	I.I.T., Kanpur, INDIA	4 <sup>th</sup> to 8 <sup>th</sup> Dec., 2000 <b>01 Week</b>
6	Q.I.P. course on, “Recent trends in information display technologies”	I.I.T., Kanpur, INDIA	14 <sup>th</sup> to 18 <sup>th</sup> May, 2001 <b>01 Week</b>
7	Q.I.P. course on, “Busines intelligence for decision making: Neural Networks, AHP, Fuzzy Logic”	I.I.T., Kanpur, INDIA	21 <sup>st</sup> to 25 <sup>th</sup> May, 2001 <b>01 Week</b>
8	Q.I.P. course on, “Intelligent Sensors and Control”	I.I.T., Kanpur, INDIA	4 <sup>th</sup> to 10 <sup>th</sup> May, 2005 <b>01 Week</b>
9	TEQIP Workshop on, “Environmental Management Framework (EMF) and Procurement”	Haryana Bhawan, Chandigarh	18th & 19th June, 2014 <b>02 Days</b>
10	TEQIP sponsored IIM Lucknow “Management Capacity Enhancement Programme”	IIM Lucknow, Noida Campus	19 <sup>th</sup> to 23 <sup>rd</sup> August, 2014 <b>01 Week</b>
11	One Day Workshop on, “Virtual Laboratories”	I.I.T., Kanpur	15 <sup>th</sup> March, 2015 <b>01 Day</b>
12	Three Days Workshop on "Outcome Based Education and NBA Accreditation"	ESCI-SPFU Lucknow	01st - 03rd July, 2016 <b>03 Days</b>
13	Workshop on “Intellectual Property Rights (IPR) and Patenting”	ESCI-Hyderabad and HBTI Kanpur Hotel Landmark Towers, Kanpur	27th – 29th August, 2016 <b>03 Days</b>
14	Workshop on “Occupational Health and Safety”	ESCI-Hyderabad and HBTI Kanpur Hotel Landmark Towers, Kanpur	03rd – 05th October, 2016 <b>03 Days</b>
15	Workshop on “Strategic Quality Improvement in Technical Education”	ESCI-Hyderabad and HBTI Kanpur Hotel Landmark Towers, Kanpur	24th – 25th October, 2016 <b>03 Days</b>
16	TEQIP - III Workshop on Outcome Based Education	HBTU Kanpur	February, 2018 <b>02 Days</b>
17	TEQIP - III Workshop on Outcome Based Accreditation for Undergraduate Engineering Programmes	HBTU Kanpur	22nd – 23rd March, 2018 <b>02 Days</b>
18	Summer Training Programme on Active Learning	IIT Kanpur	June 11 - 15, 2018 <b>01 Week</b>
19	One Day Workshop on Micro-review of Program Preparedness for NBA Accreditation	TEQIP - III State Project Implementation Unit, Lucknow	March 5, 2020 <b>01 Day</b>

### 17. Research Projects Completed / Ongoing:

Sl. No	Title	Sponsoring Agency	Date of granting and status (ongoing / completion), Amount, Duration
1	Design of a Maximum Power Point Tracking Algorithm for Variable Speed Wind Energy System	World Bank, TEQIP-II	January, 2015 Ongoing Rs. 3.00 Lakhs 2 Years
2	Optimising Number of Hidden Neurons in BPN Using Correlation Technique	World Bank, TEQIP-II	January, 2015 Ongoing Rs. 1.40 Lakhs 1 Year
3	Smart Travelling Assistant System for a Blind Person	Council of Science and Technology, Uttar Pradesh	December, 2023

### 18. Research Projects Reviewed:

Sl. No	Title	Sponsoring Agency and Details of PI	Ref. No. and Date, Amount
1	Condition Monitoring, Fault Diagnosis in Induction motor by Transformative Techniques	Council of Science & Technology, Lucknow (U.P.) Prof. Kuldeep Sahay, EED, IET, Lucknow	Letter ref. no. CSTUP/1165 dated 24 <sup>th</sup> July, 2014 from Dr. Shashi Rana, Scientific Officer, CST-UP Rs.14.56 Lakhs
2	Day Ahead Solar Power Forecasting for Indian Climatic Zone	Central Power Research Institute, Bangalore, (Karnatka) Mr. N. Rajkumar (PI) EO, Gr-4, ERED, CPRI, Bangalore Mr. Vikas Pratap Singh (SRF)	Letter ref. no. CPRI/R&D/RSOP/PP/2014 dated 11 <sup>th</sup> November, 2014 from Dr. J. Sundara Rajan, Joint Director, CPRI, Bangalore Rs.192.30 Lakhs

### 19. Patent (s) Earned / Applied:

Patent (s) Earned: 02

Patent (s) Applied: 01

Sl. No	Title of Design	Patenting Agency	Patent Certificate No., Design No. and Dates
1	Myoelectric Arm	Controller General of Patents, Designs and Trade Marks, The Patent Office, Government of India	Patent Certificate No.: 76802 Design No.: 301398 Date: 18 / 01 / 2018 Date of Issue: 01 / 07 / 2019 13:02:05
2.	Walking Stick	Controller General of Patents, Designs and Trade Marks, The Patent Office,	Patent Certificate No. / Serial No. 147611: Design No.: 324953-001

	Government of India	Date: 23 / 12 / 2019 Date of Issue: 03 / 11 / 2023
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**20. Conferences, seminars, symposiums, conventions, workshops, training programmes, summer and winter schools, CEEP courses, FDP, Lecture Series, STC, Panel Discussions organized:**

No. of CEEP courses, FDP, Lecture Series, STC organized: 12

No. of National / International Conferences, Seminars, Workshops, Training Programmes Organized: 21

No. of Panel Discussion organized: 02

Office held	Activity	Date and venue
Organizing Secretary	National Conference on, "Trends in Industrial Electronics, Transducers, Controls and Communication" ( <i>TIET.COM-2000</i> )	November 14 - 15, 2000 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Virtual Instrumentation and Engineering Practices" ( <i>VIEP</i> )	December 20 - 22, 2001 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Recent Trends in Digital Communication" ( <i>RTDC</i> )	September 21 - 22, 2002 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Artificial Intelligence, Virtual Instrumentation & their Engineering Applications" ( <i>AIVI</i> )	March 10 - 11, 2003 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Virtual Instrumentation & its Engineering Applications" ( <i>VIEI</i> )	October 30 - 31, 2003 at Thapar Institute of Engineering & Technology, Patiala
Organizing Secretary	National Conference on, "Trends in Instrumentation and Control Engineering" ( <i>TICE-2004</i> )	February 5 - 6, 2004 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Advanced Fuzzy Logic Technology & Its Applications" ( <i>AFLTA</i> )	October 25 - 26, 2005 at Thapar Institute of Engineering & Technology, Patiala
Coordinator	CEEP Course on, "Intelligent System Design & Soft Computing Techniques" ( <i>ISDSCT</i> )	April 24 - 25, 2008 at Thapar University, Patiala
Coordinator	CEEP Course on, "Software Applications in Electrical Engineering" ( <i>SAEE</i> )	May 15 - 16, 2008 at Thapar University, Patiala
Convener	National Conference on, "Trends in Instrumentation and Control Engineering" ( <i>TICE-2009</i> )	October 29 - 30, 2009 at Thapar University, Patiala

Chairperson	National Conference on Recent Trends in Electrical Engineering-2012 (RTEE'12)	April 21 - 22, 2012 organized by Department of Electrical and Electronics Engineering, NOIDA Institute of Engineering & Technology, Greater NOIDA
Vice President	National Conference on Emerging Technologies in Computer Science-2012 (ETCS-12)	September 15 - 16, 2012 organized by Departments of CS / IT / MCA, NOIDA Institute of Engineering & Technology, Greater NOIDA
Vice President	National Conference on Electronics, Communication and Information Systems-2013 (ECIS3)	March 16 - 17, 2013 organized by Departments of Electronics and Communication Engineering, NOIDA Institute of Engineering & Technology, Greater NOIDA
Coordinator	TEQIP sponsored Faculty Development Programme (FDP) on "Recent Advances in Electrical Engineering (RAEE)"	June 3 - 8, 2013 at EED, HBTI, Kanpur
Chairman	TEQIP sponsored National Seminar on "Advances in Power Electronics and Control (APEC)"	August 16, 2013 at EED, HBTI, Kanpur
Chairman	TEQIP sponsored Workshop on "MATLab Programming"	April 5 - 6, 2014 at EED, HBTI, Kanpur
Chairman	TEQIP sponsored Workshop on "Choosing R & D as Career"	February 9, 2015 at EED, HBTI, Kanpur
Chairman	TEQIP sponsored Workshop on "Energy Efficiency"	February 23, 2015 at EED, HBTI, Kanpur
Chairman	TEQIP sponsored Workshop on "MATLAB Programming and Its Applications"	February 25 - 26, 2015 at EED, HBTI, Kanpur
Anchor and Host (Panel Discussion Navigator)	TEQIP sponsored Panel Discussion on "MATLAB Programming"	February 25 - 26, 2015 at EED, HBTI, Kanpur
Coordinator	International Women's Day	March 8, 2015 at IETE Kanpur Chapter, Kanpur
Anchor and Host (Panel Discussion Navigator)	TEQIP sponsored Panel Discussion on "Industry and Higher Education: Indian Context"	April 5, 2015 at EED, HBTI, Kanpur
Coordinator	Technical Education Department, U.P. State Level Faculty Interaction Seminar, Sponsored by TEQIP-II	June 8 - 9, 2015, HBTI, Kanpur
Coordinator	Technical Education Department, U.P. - National Seminar on Low Cost Housing and National Design Competition on Low Cost Housing in Urban and Rural Areas	November 26 / December 31, 2015, HBTI, Kanpur
Chairman	International Women's Day Seminar on "Women in Engineering"	March 8, 2016 EED, HBTI, Kanpur
Coordinator	State Level Training Programme on	August 20 - 26, 2016

	Electrical and Electronics Systems Design	HBTI, Kanpur
Coordinator	Workshop on Intellectual Property Rights (IPR) and Patenting	August 27 – 29, 2016 Hotel Landmark Towers, Kanpur
Coordinator	Workshop on Occupational Health and Safety	October 03 – 05, 2016 Hotel Landmark Towers, Kanpur
Coordinator	Workshop on Strategic Quality Improvement in Technical Education	October 24 – 26, 2016 Hotel Landmark Towers, Kanpur
Chairman	FDP on Simulation Techniques in Power Electronics and Control	27 February 2017 - 04 March, 2017 EED, SoE, HBTU, Kanpur
Chairman	Workshop on Energy Conservation and Energy Audit in Academic Institutions	7 - 9 March, 2017 Hotel Landmark Towers, Kanpur
Chairman	Workshop on "Basic Liquid Chromatography"	27 - 28 March, 2017 Hotel Landmark Towers, Kanpur
Organizer	FDP on "Methods and Techniques for Enhanced Teaching and Learning in Technical Education"	15 - 20 October, 2018 ChED, HBTU, Kanpur
Chairman	IETE, IEEE and IE(I) Lecture Series	08 September, 2019 EED, HBTU, Kanpur
Chairman	Short Term Course on Control and Machine Intelligence	16 - 28 September, 2019 EED, HBTU, Kanpur
Chairman	National Seminar Energy and Earth	21 November, 2019 EED, HBTU, Kanpur
Chairman	FDP on "Intelligent Control and Applications"	16 - 20 August, 2021 EED, HBTU, Kanpur

## 21. Books/SIM/Proceedings/Manuals/Compendiums/Reviewed Books / Book Supplements

### Books Authored: 22

Sl. No.	Title of the book	Publisher
1	Control Systems: Theory, Problem & Solutions	Galgotia Publications Pvt. Ltd., New Delhi (ISBN 81-7515-577-9)
2	Data Structures Using C	Galgotia Publications Pvt. Ltd., New Delhi (ISBN81-7515-565-5)
3	Semiconductor Devices	I K International Publications Pvt. Ltd., N. Delhi
4	Analog Electronics and Linear Integrated Circuits	Dhanpat Rai & Co, New Delhi
5	Fundamentals of Electrical Engineering	Laxmi Publications, New Delhi (ISBN -978-93-80386-76-8)
6	Modern Control Engineering	Cengage Learning, N. Delhi (ISBN -13:978-81-315-11695-5)
7	Electromagnetic Field Theory	Pearson India, New Delhi (ISBN – 978 – 81- 317-6061-1)
8	Electrical and Electronics Science: Laboratory Experiments	Narosa Publications, New Delhi (ISBN-978-81-8487-134-0)
9	Life - A Continuous Journey...	Notion Press, Chennai (ISBN -978-16-4919-419-0)
10	Death – demystified	Notion Press, Chennai (ISBN -978-16-3606-039-

		2)
11	Himalaya – The Spiritual Abode	Notion Press, Chennai (ISBN -978-16-3669-499-3)
12	Experiencing the God	Notion Press, Chennai (ISBN -978-16-3745-063-5)
13	Tere Bina – Without You	Notion Press, Chennai (ISBN -978-16-3806-881-5)
14	2020 & 2021 – The Cartoon Book	Notion Press, Chennai (ISBN -978-16-3832-420-1)
15	The Ghost	Notion Press, Chennai (ISBN -978-16-3886-762-3)
16	Power of Subconscious Mind	Notion Press, Chennai (ISBN -978-16-3904-975-2)
17	Vibration Control Implementation	LAP Lambert Academic Publishing (17 August (ISBN-978-36-5914-503-2) (2012
18	Becoming Rich	Notion Press, Chennai (ISBN -978-16-3997-407-8)
19	Power of Positive Thinking	Notion Press, Chennai (ISBN -979-88-8521-026-3)
20	Beyond the Blood	Notion Press, Chennai (ISBN -979-88-8717-428-0)
21	The Secret of Happiness	Notion Press, Chennai (ISBN -979-88-8849-224-6)
22	Pyramid	Notion Press, Chennai (ISBN - 979-88-9133-076-4)

#### Book In press: 24

Sl. No.	Title of the book	Publisher
1	Switchgear and Protection	I K International Publications Pvt. Ltd., N. Delhi
2	Journey of an Engineering Teacher	Notion Press, Chennai
3	Dil Se – from the heart	Notion Press, Chennai
4	Hamari Adhuri Kahani – the incomplete story	Notion Press, Chennai
5	What you eat, makes up your thoughts	Notion Press, Chennai
6	What would people say, this is the biggest disease	Notion Press, Chennai
7	Design Thinking	Notion Press, Chennai
8	Secrets of Success	Notion Press, Chennai
9	Stress Management	Notion Press, Chennai
10	Phir Milenge	Notion Press, Chennai
11	Universe	Notion Press, Chennai
12	Secrets of Karma	Notion Press, Chennai
13	Soul	Notion Press, Chennai
14	Reincarnation	Notion Press, Chennai
15	Be the Winner	Notion Press, Chennai
16	Near Death Experience	Notion Press, Chennai
17	Out of Body Experience	Notion Press, Chennai
18	Time Travel & Astra Travel	Notion Press, Chennai

19	Cartoon 2021	Notion Press, Chennai
20	Secrets of Karma	Notion Press, Chennai
21	Third Eye	Notion Press, Chennai
22	Power of Silence	Notion Press, Chennai
23	After Me	Notion Press, Chennai

### **SIM authored: 01**

1.SIM on “High Voltage Engineering (EE-021 D)” for Department of Distance Education, Thapar University, Patiala

### **Proceedings published: 03**

- 1.Proceedings of, “TIET.COM-2000” published by Allied Publishers Pvt. Limited, N. Delhi, 2000 ISBN 81-7764-099-2
2. Proceedings of, “TICE-2004” published by Allied Publishers Pvt. Limited, N. Delhi, 2004 ISBN 81-7764-588-9
3. Souvenir of, “TICE-09”, Thapar University, Patiala

### **Manuals / Compendium prepared: 02**

1. Manual on Control systems at T U Patiala
2. Compendium on Curriculum Review 2015-16, Technical Education Department, Govt. of UP

### **Books reviewed: 07**

1. Book on “Electromagnetic Waves” by R. K. Shevgaonkar, Tata McGraw Hill
2. Book on “Basic Electrical Engineering Second Edition" by V N Mittle and Arvind Mittal Tata Mc Graw Hill 2006
3. Book on “Power Electronics” by M. D. Singh and K B Khanchandani, Tata McGraw Hill
4. Book on “Electrical Machines” 1e McGraw Hill Education (India), Noida
5. Book on “Electrical Machines” by Bhattacharya, 4e McGraw Hill Education (India), Noida
6. Book on “Electromagnetic Engineering and Waves, 2nd Edition by Inan, Inan and Said , Pearson Global
7. Book on “Electrical Machines” Cambridge University Press in India (in coordination with Ms. Rachna Sehgal, Associate Commissioning Editor, Academic Division, Cambridge University Press India, New Delhi-110 002, Mobile: +91 9910210497, Email: rsehgal@cambridge.org)

### **Book supplements prepared: 02**

1. Solutions on, “Modern Control Engineering” Cengage Learning, N. Delhi
2. Book on, “MATLab in control: A supplement to Modern Control Engineering” Cengage Learning, N. Delhi

### **Online Study Material developed:**

<https://youtube.com/@DrYaduvirSingh>

### **22. International Awards / Honours/ Recognitions:**



1. Member, International Programme Committee, IEEE International Conference on Cybernetics & Intelligent Systems (CIS) and Robotics, Automation & Mechatronics (RAM) (CIS-RAM 2006) June 7-9, 2006 Bangkok, Thailand
2. Member, ASM-2007, IASTED Technical Committee on Control (for the term 2007-2010), Calgary, Alberta T3E 7J9

**23. Member of professional bodies/societies:**

1. Fellow of Institution of Electronics and Telecommunication Engineers (F. I.E.T.E.), India (F126928)
2. Member of Indian Society for Technical Education (I.S.T.E.), India (LM 14361)
3. Member, International Association of Engineers

**24. Subjects / Teaching / Research Areas handled at UG, PG and PhD levels of engineering:**

1. Measurement and Measuring Instruments (UG/PG)
  2. Electromagnetic Field Theory (UG)
  3. Power Station Practice (UG)
  4. Electrical Science (UG)
  5. Process Dynamics and Control (UG/PG/PhD)
  6. Data Acquisition, Recording and Display Devices (UG)
  7. Network Analysis and Synthesis (UG)
  8. Industrial Instrumentation (UG/PG)
  14. Neural Networks and Computing (UG/PG)
  15. Discrete-time and Computer Control Systems (UG/PG)
  16. Optimal Control Theory (UG/PG/PhD)
  17. Modeling and Simulation (UG/PhD)
  18. Identification and Adaptive Control (UG/PG/PhD)
  19. DCS and SCADA (PG)
  20. Neural Network and Fuzzy Systems (UG/PG)
  21. Power Station Practice (UG)
  22. Biomedical Instrumentation (UG/PG)
  23. Control System (UG)
  24. Non-conventional Energy Resources (UG)
  15. Advanced Control System (UG)
- etc.

**25. Areas of interest, expertise and current research:**

Petri Nets, Advanced Control Systems, Artificial Intelligence, Fuzzy logic, Artificial Neural Networks, Expert Systems, Power Electronics, Machine Drives Control, Robotics and Automation

**26. Declaration:**

*It is hereby declared that the above mentioned information is correct to the best of my knowledge and belief.*

**(Dr. Yaduvir Singh)**

**Place:** HBTU, Kanpur, UP – 208 002

**Date:** 21 / 03 / 2024