

Dr. Sathans
Professor, Dept. of Electrical Engineering
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Personal Information:

Date of Birth: 29th January, 1971

Age as on 29.01.2025: 54 Years

Father's Name: Shri Pratap Singh

Mother's Name: Smt. Daya Kaur

Category: General

Domicile: Haryana

Mailing Address: Department of Electrical Engineering
National Institute of Technology
Kurukshetra (Haryana)-136119

Academic Qualifications (Graduation onwards):

Ph. D. (Electrical Engineering), NIT Kurukshetra—2013

M. Tech. (Electrical Engineering), NIT Kurukshetra — 1996, **Distinction** in Dissertation

B. Tech. (Electrical Engineering), NIT Kurukshetra — 1992, **Distinction with Honors**

Teaching & Research Experience: 30 Years and 03 months

Number of Research Publications: 99-(Annexure-A)

Ph. D. Theses Supervision: 13 (Completed:09; In progress: 04)-(Annexure-B)

M. Tech. Dissertations Supervision: 60 (Awarded: 58; Submitted: 01; In progress: 01)
(Annexure-C)

R &D Projects

1. Title: “Building Integrated PVT Systems for Domestic and Industrial Applications”, under TEQIP-III collaborative research scheme, AICTE, New Delhi, **Amount: Rs. 15.97 Lacs as Co-PI (completed)**

Consultancy:

Title of the Project: Vetting of the design of DG PV Synchronization Panel, smart and intelligent hybrid controller for Solar Plant and Diesel generator

Sponsoring Agency: Subhash Infraengineers Private Limited, Gurugram

Amount: Rs. 0.40 lakh; **Duration:** 02 weeks

GIAN Course organized:

Title of Course: Precision Positioning Systems: Dynamics and Control

Duration: 31.01.2022 to 04.02.2022

Foreign Faculty: Dr. Hassan HosseinNia, TU Delft / 3mE / Precision & Microsystems Engineering (PME) Assistant Professor Mechatronic System Design, Netherlands

Books Edited (02):

1. **Title:** “Control and Measurement Applications for Smart Grid”, Springer publication, February 2022.

2. **Title:** “Future Power Network and Smart Energy Systems, Volume 1”, Springer publication (in process)

Book Chapter Written:

Energetic and Exergetic Comparison of Opaque and Semi-transparent PVT Arrays Under Natural Convection Mode for Building Integration” In the book: Advancement in Materials, Manufacturing and Energy Engineering, Vol. II (pp.361-373), DOI:10.1007/978-981-16-8341-1_29, Published: 18 January 2022.

Research and Teaching Areas:

Intelligent Control, Microgrid and Renewable Energy Systems, Load Frequency Control, Soft Computing Techniques and Applications, Control System

Recognition / Awards:

- **Union Ministry of Energy - Department of Power Prize Award** for the paper titled “Impact of TCPS, SMES and DFIG on Load Frequency Control of Nonlinear Power Using Differential Evolution Algorithm”, published in the Series B Journal of IEI, Vol. 100, Issue 2, which was presented at the Prize Distribution Ceremony of the 36th Indian Engineering Congress held at Vigyan Bhawan, Maulana Azad Road, New Delhi on December 26, 2021.
- **Best Faculty Award** by NIT Kurukshetra for Administrative Contributions, 2018.
- **Conference Chair and Key Note Speaker**, 2nd International Conference on Control, Mechatronics and Automation (ICCMA-2014), December 8-10, 2014, **Dubai, UAE.**
- **Best Paper Award**, National Conference on Nanomaterials and Instrumentation (NCNI-2014), National Institute of Technology Kurukshetra.
- Letter of appreciation by District Kurukshetra Administration for conducting trainings on EVM.
- Life Member, Indian Society for Technical Education (ISTE), New Delhi.
- Member Executive Committee and Life member, Vigyan Bharti, Haryana

- Honours in B.Tech. (Electrical Engineering).
- Distinction in M.Tech. (Electrical Engineering) Dissertation.
- Recipient of Merit-cum-Means Scholarship at B. Tech. level.

Assignments at National / State Level:

- a. **Member**, UG Board of Studies of Electrical Engineering Department, J C Bose University of Science and Technology, YMCA, Faridabad for 02 years (11.03.2025 to 10.03.2027)
- b. **Member**, Building and Works Committee, IIT Bhopal for 03 years (Feb. 2025 to Feb. 2028).
- c. **Member**, National Council for Vocational Education and Training (NCVET) & AICTE Joint Committee to examine and review the duration of Diploma, in view of the implementation of National Credit Framework (NCrF) in Technical Education (January 2024)
- d. **Coordinator**, **CCMT-2023** (Centralized Counselling for admission to M.Tech./M.Arch./M.Plan.) & **CCMN-2023** (Centralized Counselling for admission to M.Sc./M.Sc. (Tech.)) for admissions in NITs, IITs, CFTIs, and other participating institutes for the academic year 2023-24, successfully conducted by NIT Kurukshetra as the Coordinating Institute, having entrusted with the responsibility by the Ministry of Education, Govt. of India vide MoE notification No. F.NO.37-I/2023-TS.III dated 6th February, 2023.
- e. **Member**, All India Board of Technician Education, All India Council for Technical Education (AICTE), New Delhi (03.01.2020 to January 02.01.2023 and again from 28.03. 2024 onward for 03 years)
- f. **Chancellor's Nominee**, Dr. B.R. Ambedkar Open University, Ahmedabad, Gujrat, **Appointed by the Hon'ble Governor of Gujrat in his capacity as the Chancellor of University (June 2023 onward)**
- g. **Member**, Academic Council, National Institute of Technical Teachers' Training and Research, Bhopal (01.09.2022 to 31.08.2025)
- h. **Visiting Professor**, University of Ladakh, for 2022-2023 (04.02.2022 to 03.02.2023)
- i. **Chancellor's Nominee**, Gujrat Technological University, Ahmedabad, Gujrat, **Appointed by the Hon'ble Governor of Gujrat in his capacity as the Chancellor of University (March 2021 onward)**
- j. **Member**, AICTE Panel of Experts (Skill Development) on NEP-2020
- k. **Member**, Committee for finalizing the AICTE-MODROB Scheme for Polytechnics, AICTE, New Delhi
- l. **Member**, Faculty of Engineering & Technology, MD University, Rohtak, Haryana (April 2021 to March 2023 and July 2023 onward)
- m. **Member**, U.G. Board of Studies in Instrumentation Engineering, Kurukshetra University Kurukshetra (At varied periods of time and currently ongoing)
- n. **Member**, P.G. Board of Studies in Instrumentation Engineering, Kurukshetra University Kurukshetra (currently ongoing)
- o. **Member**, Academic Council, Central University of Haryana, Mahendergarh (07.05.2020 to 06.05.2023 and 25.05.2023 to 24.05.2026)
- p. **Member**, Senate, National Institute of Technology Silchar (08.05.2020 to 07.05.2023)

- q. **Member**, All India Board of Vocational Education, All India Council for Technical Education (**AICTE**), New Delhi (January 2020 to January 2023)
- r. **Chairman**, Committee for monitoring the effective implementation of AICTE Model Curriculum of Diploma Programs, All India Council for Technical Education (**AICTE**), New Delhi.
- s. **Member, AICTE Task Force** for Drafting the frame work for implementation of NEP 2020, AICTE, New Delhi (October 2020).
- t. **Member, Board of Governors, Government Engineering College Bikaner, Rajasthan (June 2019 to Jan. 22)**
- u. **Member, School Board of School of Engineering & Technology, Central University of Haryana, Mahendergarh (23.06.2020 to 22.06.2023)**
- v. **Member, Task Force** to Recommend the Roadmap for Implementation of NEP-2020, Central University of Haryana, Mahendergarh
- w. **Member, Board of Studies, Engineering & Technology**, Maharshi Dayanand University, Rohtak (March 2020 to March 2022 and again from June 2024 onward for 02 years)
- x. **Member, Board of Studies, Engineering & Technology**, Kurukshetra University, Kurukshetra (At varied periods of time and currently ongoing)
- y. **Member, Departmental Research Committee**, Department of Electrical Engineering, School of Engineering & Technology, Central University of Haryana, Mahendergarh
- z. **Visitor's Nominee (19th May 2017- 18th May 2020), for National Institutes of Technology, Appointed by the *Hon'ble President of India* in his capacity as Visitor of the NITs.**
- aa. **Chairman, All India Board of Technician Education, All India Council for Technical Education (AICTE), New Delhi (May 2016-December 2019)**
- bb. **Member**, Working Committee for the University Enterprise Architecture Framework (UEAF), MHRD, New Delhi (2018).
- cc. **Visitor's Nominee (Feb. 2015- Jan., 2018), Manipur Central University, Imphal, Appointed by the *Hon'ble President of India* in his capacity as Visitor of the University.**
- dd. **AICTE Nominee**, Harcourt Butler Technical University, Kanpur (August 2023)
- ee. **Member, Board of Studies**, Department of Instrumentation & Control Engineering, National Institute of Technology (NIT), Jalandhar.
- ff. **Member, Board of Studies**, Department of Electrical Engineering, University Institute of Engineering & Technology (UIET), Kurukshetra University (At varied periods of time and currently ongoing).
- gg. **Member, Research Advisory Committee**, Department of Instrumentation & Control, NIT Jalandhar.
- hh. **Member, Research Advisory Committee**, Department of Electrical Engineering, NIT Delhi

Administrative Positions Held

- a. **Dean (Academic), NIT Kurukshetra (September 2021 to August 2023)**
- b. **Coordinator, Technical Education Quality Improvement Program phase-III (TEQIP-III) (October 2017- January 2022), NIT Kurukshetra**

- c. **Coordinator (ERP-SAMARTH)** (April 2020- August 2022), NIT Kurukshetra
- d. **Regional Coordinator, Unnat Bharat Abhiyan for the State of Haryana** (March 2019- till date), Regional Coordinating Institute, NIT Kurukshetra
- e. **Regional Co-coordinator** (Regional Academic Centre for Space in collaboration with ISRO) (2019- till date), NIT Kurukshetra
- f. **Dean (Students' Welfare)** (September 2015-August 2018), National Institute of Technology Kurukshetra.
- g. **Prof. In-charge, Institute Health Centre** (September 2013- August 2015), National Institute of Technology, Kurukshetra.
- h. **Co-coordinator / Coordinator (TEQIP-I)** (December 2006-May 2010), NIT Kurukshetra.
- i. **Co-coordinator (TEQIP-II)** (July 2011- July 2017), NIT Kurukshetra.
- j. **Hostel Warden** (2005-2015).
- k. **Prof. I/C Students' Clubs** (Audio Visual Club, Students Activities Centre).
- l. **Prof. In-charge** of ELECTRORECK- A technical society of the Electrical Engineering Department, NIT Kurukshetra.
- m. **Member**, Departmental Advisory Committee, Centre for Computing & Networking (CCN), NIT Kurukshetra.
- n. **Chairman**, Committee for effective coordination in academic activities and students' appraisals implementation, NIT Kurukshetra (Sept. 2024 onward).

Positions Held:

- a. **Professor of Electrical Engineering**, Department of Electrical Engineering, National Institute of Technology (NIT), Kurukshetra from August 2013 onward.
- b. **Associate Professor**, Department of Electrical Engineering, National Institute of Technology (NIT), Kurukshetra from July 2008-August 2013.
- c. **Assistant Professor**, Department of Electrical Engineering, National Institute of Technology (NIT), Kurukshetra from December 1994-June 2008.

Membership of Advisory, Review, Assessment, Accreditation, and Selection Committees:

- a. **Expert Member**, faculty selections, National Institute of Technology, Delhi
- b. **Expert Member**, faculty selections, Central University of Haryana, Mahendergarh
- c. **Expert Member**, faculty selections, National Institute of Technology, Silchar.
- d. **Expert Member**, faculty selections / other selections, Uttarakhand Public Service Commission, Gurukul Kangari, Haridwar.

- e. **ACTE Expert** for joint UGC-AICTE Expert Committee visit to IEC, Baddi, Distt. Solan, Himachal Pradesh for granting University status to the institution.
- f. **Expert Member**, faculty selections, Maharshi Dayanand University, Rohtak, Haryana.
- g. **Expert Member**, faculty selections, Maharshi Markandeshwar University, Mullana, Haryana.
- h. **Member**, as Visitor's Nominee, faculty selections, Manipur Central University, Imphal.
- i. **Expert Member**, faculty selections, National Institute of Technology, Delhi.

Academic Visits Abroad: Visited the following countries for various academic interactions:

- USA
- Australia
- France
- UAE
- Canada
- Japan

Review/ Invited Talks:

- Delivered an expert lecture on "Intelligent Control and its Application to Microgrid Energy Management" on 17th February, 2025 in the Faculty Development Program on "Next-Gen Sensors, Monitoring, and Automation for Energy Systems and Electric Vehicles," held from February 17th to February 22nd, 2025, organized by the E & ICT Academy in association with the Department of Mechanical Engineering, NIT Patna, and sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India.
- Delivered an expert lecture on "Soft Computing Techniques-Overview Applications and Research Directions" on 03rd February, 2025 in the One Week Workshop on 'Research Methodology' held from 03rd Feb. to 7th Feb, 2025 conducted by Faculty of Engineering and Technology under the aegis of the CRSIS & EC, MD University, Rohtak.
- Delivered an expert lecture on "Skill Education in the Ambit of NEP 2020" on 09.01.2025 in the NEP Orientation & Sensitization Programme' for University/College Teachers & Research Scholars scheduled from 6th January 2025 to 15th January 2025, organized by UGC- Malviya Mission Teacher Training Centre (MMTTC), Central University of Haryana, Mahendergarh.
- Delivered an expert lecture on "Lessons from Covid-19 and Sustainable Development Goals: A Perspective" on 17.12.2024 as a Guest Speaker for the Transitional Curriculum of ASU for BAMS Batch 2024-25 at the campus of Baba Kheta Nath Govt. Ayurved College & Hospital Patikara, Narnaul, Haryana.
- Delivered an expert lecture on "Renewable Energy for Sustainable Future" on 11.11.2024 at the J.C. Bose University, Faridabad, organized by the Department of Electrical Engineering.

- Delivered an expert talk on “Becoming Future Ready in Energy the Sustainable Way” on 04.09.24 at the Induction program for B.Tech. First year students of UIET, Kurukshetra University Kurukshetra.
- Delivered an expert lecture on “Sustainable Energy Technologies: a perspective” on 17.07.24 at the short term course organized by the Electrical Engineering Department, NIT Kurukshetra.
- Delivered an expert talk on “Sustainable Energy Technologies_ a recent Perspective” on 14.07.24 at Jawahar Navodaya Vidyalaya, Niwarsi, Kurukshetra.
- Delivered an expert lecture on NEP-2020 in the one-day workshop on Indian Knowledge System in NEP-2020 organized by the Applied Science Department, NITTTR Chandigarh, 6 July 2024.
- Delivered an expert lecture on Clean and Green Energy Technologies for a Sustainable Future at the One-week workshop on “Research Methodology” for the Research Scholars on 13.05.2024 organized by Faculty of Physical Sciences & Faculty of Engg. & Technology M.D.University, Rohtak during 13-17 May, 2024.
- Delivered an expert lecture on Insights from NEP-2020 on 01.02.2024 in the ATAL FDP on “Applications of AI & Data Science in Healthcare” organized by Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur during 29.01.24 to 03.02.2024.
- Delivered an expert lecture on Smart utilization of Renewable Energy Resources in Current Scenario at the ATAL Faculty Development Programme on “Microgrid with Electric Vehicles: Intelligent and Allied Areas” organized by the Department of Electrical Engineering, SoET, Central University of Haryana Mahendragarh on 25.10.2023.
- Delivered an expert lecture on 26.06.2023 on the topic “Intelligent control of micro grids” in the STC on Control, Operation, and Management of Renewable Energy Integrated Power System (COMREPS-2023), organized by Department of Electrical Engineering, NIT Kurukshetra, June 23-27, 2023.
- Delivered an expert lecture on "NEP-2020 with the focus on Promotion of Indian Knowledge Systems: Languages, Culture & Values" in the UGC sponsored FIP/RC/STC/Workshops/Webinars organized by UGC-HRDC, K.U. Kurukshetra on 17.02.2023.
- Delivered an expert talk on the topic “Becoming Future Ready in Energy_The Clean Way” on 08.02.2023 in the 12-day in-person training program on “Energy Systems, Security, and Net Zero Emission”, IIT Delhi Sonepat campus organized by IIT Delhi during 6th to 17th Feb. 2023 as part of the Indian Technical and Economic Cooperation (ITEC) program, which is run by the Indian Ministry of External Affairs. Participants in this training program were young professionals, working in the government sector at the level of joint secretaries from developing countries.
- Delivered an invited lecture as a distinguished speaker on “National Education Policy 2020: Changing Role of Teachers” in the webinar on National Education Policy-2020 organized on 08.09.2022 by UIET, KUK for the Faculty members of the Institute/University/Affiliated Colleges.
- Delivered an expert lecture on 21/07/2022 on the topic "Intelligent Control Systems and Applications" in STC: Advanced Control Systems and Experiments (ACSE-2022) organized by EED, NIT Kurukshetra during July 18-23, 2022.
- Delivered an expert lecture on “Intelligent control and application” in the STC on Advanced Computational Methods in Energy and Power Sector (23.03.2022) at GEC, Bikaner during 21- 25 March, 2022.

- Delivered an expert lecture on “Renewable Energy Systems for sustainable development” in the STC on Recent Advancements in Sustainable Development through Renewable Energy Systems (09.03.2022) at GEC, Bikaner during 07-16 March 2022.
- Delivered an expert Lecture on “Becoming Future Ready in Energy: The Sustainable Way” in the FDP on Recent Trends in Renewable Energy: Opportunity & Challenges (02.02.2022) at GJU, Hisar during 31.01.2022 to 05.02.2022.
- Delivered an expert Lecture on The Sustainable Way Forward and the Role of Engineers in the FDP on Waste Technology (12.01.2022) at Govt. Women Engineering College, Ajmer during 10-15 January 2022.
- Delivered an expert Lecture on “Becoming Future Ready in Energy: The Sustainable Way” in the AICTE QIP sponsored STC On Smart Grid Technology (10.01.2022) at EIE, SLIET, Longowal during 10-15 January 2022.
- Delivered an expert Lecture on “Techno-economic analysis of a hybrid renewable energy system for an energy poor rural community” in the STTP Rural Development through Rural Infrastructure Facilities (25.11.2021) at NIT Raipur during 22-26 November 2021.
- Delivered an expert Lecture on “Energy Storage Systems: Overview and Applications to Renewable Energy Systems” in the FDP on Integration of Renewable Energy Systems (23.11.2021) at GEC, Bikaner during 22-26 November 2021.
- Delivered the expert lecture on 21.10.2021 on the topic “Intelligent Control and Applications” in the STC on Advances in Modeling and Control of Robotics (AMCR-2021), organized by Department of Electrical Engineering, NIT Kurukshetra during 18th – 23rd October 2021.
- Delivered the expert lecture on 24.09.2021 on the topic “Green Energy: What it is and Why Important” in the FDP on Frontiers of Green Technologies: Sustainability Engineering organized by Govt. Women Engineering College, Ajmer during 21-25 September 2021.
- Served as External Expert for examining the research plan for Ph.D. work entitled “Study on the applicability of a deep learning controller for process control system” submitted by Mr. Bhawesh Prasad, PEI 1904/NDF and thereafter for conducting Research Plan Presentation at SLIET, Longowal, July 2021.
- Delivered an expert lecture as Keynote Speaker on 07.07.2021 on the topic “Why Clean Energy: A Recent Perspective” in the ATAL Faculty Development Programme on “Microgrid an Opportunity: Electric Vehicles and Renewable Energy Resources” during 5-9 July 2021 organized by the Dayalbagh Educational Institute (Deemed to be University), Agra, India.
- Delivered an expert lecture on 01.07.2021 on the topic “Becoming future ready in energy: The sustainable way” in the one week online ATAL FDP on Green Technology and Sustainability Engineering organized by Department of Chemistry, GEC Bikaner during 1st – 5th July 2021.
- Delivered the Expert Lecture on 27.05.2021 on the topic “The Impact of Energy and its Assessment” in the online STTP on Advances in Mechanical Engineering for Sustainability, organized by Mechanical Engineering Department, GEC Bikaner during May 27th – 31st 2021.
- Delivered an Expert lecture on 21.05.2021 on the topic “Renewable Energy: A Recent Perspective” in the AICTE-ISTE Induction Program on Micro-Grid Scenario and Control, organized by Rajasthan Institute of Engineering and Technology, Jaipur during 19th – 25th May 2021
- Delivered an Expert Lecture in the Webinar on Implementation of National Education Policy, organized by Central University of Haryana, Mahendergarh on 22.04.2021.

- Delivered an Expert lecture on “Skill Education: Insights from NEP-2020” in the online webinar organized by PSG Institute of Technology and Applied Research, Coimbatore on 17th April 2021
- Delivered an Expert lecture on “Skill Education and NEP-2020: A Fresh Perspective” in the online webinar organized by Department of Civil Engineering, KCT, Coimbatore on 9th April 2021
- Delivered the Expert Lecture on “Load Frequency Control in Hybrid Power System” in the National Seminar on “Recent Trends in Power Engineering”, organized by Electrical Engg. Dept., UIET, MD University, Rohtak on 24th March 2021
- Delivered the Expert Lecture on “Renewable Energy: A Recent Perspective” in the National Conference on Recent Advances in Renewable Sources of Energy 2021, organized by Electrical Engg. Dept., UIET, MD University, Rohtak on 18th March 2021.
- Delivered the inaugural talk as Guest of Honor in the International Conference on Sustainable Engineering (ICSE 2021) organized by Engineering College, Bikaner, during 26-27 February 2021
- Delivered the Expert Lecture on “भारतीय सांस्कृतिक परिपेक्ष में अक्षय ऊर्जा एवं प्रकृति के साथ समन्वय तथा भविष्य की संभावनाएं” in the talk series organized by विद्या भारती संस्कृति शिक्षा संस्थान on February 6th 2021
- Served as Panelist for AICTE-MODROB Polytechnics Scheme Awareness Program, 12th January 2021
- Delivered the Expert Lecture on “Intelligent Control” in the STTP on Advanced Control Paradigms and Evolving Trends (ACPET-2020) organized by Department of Electrical Engineering, NIT Kurukshetra during October 26th - 28th 2020.
- Delivered the Expert Lecture on “Vocational Education in the light of New Education Policy-2020” at the Online Web Training course on “Modernization of Vocational Training Centers for Online Training and Development of Skill and Competent Work Force” organized by Department of Mining Engineering IIT Kharagpur during October 14th – 18th 2020.
- Delivered a talk as Guest of Honor at “A webinar on नई शिक्षा नीति- 2020 एवं उन्नत भारत अभियान” organized by RCI UBA NIT Kurukshetra in collaboration with BPS Women University, Khanpur Kalan, Sonapat, Haryana on 26 September 2020.
- Delivered the Expert Lecture on “Feedback and Interaction Session” at Online STC on "Security Challenges, Objectives and Issues in IoT enable Smart Grids (SCOICG 2020)" from September 23rd – 27th, 2020 at NIT Kurukshetra.
- Delivered the Expert Lecture on “Feedback and Interaction Session” at One week Online FDP on "Designing Pedagogies for Online Teaching & Learning" jointly organized by NIT Kurukshetra and GEC Bikaner during September 23rd – 27th, 2020.
- Delivered the Expert Lecture on “Feedback and Interaction Session” at One week Online STTP on "Research Scholars' Week: Engineering" jointly organized by NIT Kurukshetra and GEC Bikaner September 17th - 22nd, 2020.
- Convener, Online meeting regarding short listing of CSIR Technologies organized by RCI, UBA, NIT Kurukshetra on September 14th 2020.
- Delivered the Expert Lecture on “हिंदी भाषा की उपयोगिता” at the workshop on हिन्दी तरंग उत्सव organized by विद्या भारती संस्कृति शिक्षा संस्थान on September 14th 2020.
- Delivered a talk as Guest of Honor on “Literacy in New Education Policy-2020” at a Webinar on “International Literacy Day 2020” is jointly organized by NITTR Chandigarh and NIT Kurukshetra on 08th September 2020.

- Delivered the Expert Lecture on “Intelligent Control and its Applications in Microgrid” at the One week International STTP on “Power Electronics Application to Industrial Systems” during September 07th – 11th 2020, organized by Department of Electrical Engineering NIT Silchar.
- Delivered the Expert Lecture on “Clean Energy Options” at One Week Online Faculty Development Program on 1st September 2020 organized by Department of Chemistry GEC Bikaner, during 1st September to 5th September 2020, Sponsored by AICTE Training & Learning (ATAL) Academy.
- Delivered the Expert Lecture on “Feedback and Interaction Session” at Online Workshop on "Mechanisms for Rural Good Through UBA" organized by RCI, UBA NIT Kurukshetra during 28th - 29th August 2020.
- Delivered the Expert Lecture on “Feedback and Interaction Session” at Online FDP on "Designing Pedagogies for Online Teaching & Learning" organized by Department of Computer Engineering at NIT Kurukshetra during August 10th-14th 2020
- Delivered the Expert Lecture on “Intelligent Control and Applications to Smart Grid” at TEQIP-III Sponsored Online Short Term Training Program on “Smart Grid: Operation and Planning with Renewable Energy Sources and FACTS” organized by Electrical Engineering department NIT Kurukshetra during July 29th – August 02nd, 2020.
- Evaluator for the National Education Alliance of Technologies (NEAT) scheme of AICTE, Delhi, August 2020.
- Participated in Orientation meeting for the 1st phase of UBA collaboration with CSIR organized by NCI, UBA, IIT Delhi on July 28th 2020.
- Delivered the Expert Lectures on 29th July on “Intelligent control and its Applications to smart grid” at the Short Term Course on “Smart Grid: Operation & planning with Renewable Energy Sources and FACTS (SGOPRES-2020)”, organized by the Department of Electrical Engineering, NIT Kurukshetra during 29.07.2022 to 02.08.2020.
- Delivered the Expert Lectures on “Clean Energy: The Way Forward”, and “Feedback-cum-Interaction Session” at Online Short Term Training Program on "Environmental Crisis and Sustainable Development" jointly organized by NIT Kurukshetra and GEC Bikaner July 1st - 5th, 2020
- Delivered the Expert Lecture on “Feedback and Interaction Session” at TEQIP-III Sponsored Online Short Term Training Program on Online Short Term Training Program on “Data Science & Learning Systems for Engineering Research & Design” jointly organized by NIT Kurukshetra and GEC Bikaner June 24th -30th , 2020
- Delivered the Expert Lecture on “Feedback-cum-Interactive Session” at TEQIP-III Sponsored Online Short Term Training Program on “Challenges in Grid Integration with Renewable Sources jointly organized by NIT Kurukshetra and GEC Bikaner, during June 22nd -26th, 2020.
- Delivered the Expert Lecture on “Intelligent Control: Overview, Issues, and Applications” at TEQIP-III Sponsored Online Short Term Training Program on “Challenges in Grid Integration with Renewable Sources jointly organized by NIT Kurukshetra and GEC Bikaner, during June 22nd -26th, 2020.

- Delivered the Expert Lecture on “Why Green Energy ?” at TEQIP-III Sponsored Online Short Term Training Program on Green Energy Technologies for Sustainable Development jointly organized by NIT Kurukshetra and GEC Bikaner, June 11th -20th , 2020.
- Delivered the Expert Lecture on “The Impact of Energy and its Assessment” at TEQIP-III Sponsored Online Short Term Training Program on Life Cycle Analysis for Sustainability organized by Mechanical Engineering department GEC Bikaner, May 27th -31st, 2020.
- Delivered the Expert Lecture on “Feedback-cum-Interactive Session” at Online Short-Term Training Program on “Bio-Energy: Technologies & Transitions” sponsored by TEQIP-III Jointly organized by Department of Mechanical Engineering, Engineering College Bikaner and NIT Kurukshetra from 18th to 22nd May 2020.
- Delivered the Expert Lecture on “Renewable Energy: A recent perspective” at Online Short-Term Training Program on “Bio-Energy: Technologies & Transitions” sponsored by TEQIP-III Jointly organized by Department of Mechanical Engineering, Engineering College Bikaner and NIT Kurukshetra from 13th to 17th May 2020.
- Delivered the Expert Lecture on “Renewable Energy Systems: A recent perspective”, in the Short Term Training Programme on Solar Photovoltaic Installation 25-29 November 2019, organized at Government Engineering College Bikaner, Rajasthan in collaboration with National Institute of Technology Kurukshetra under TEQIP-III.
- Participated in a meeting of RCIs of UBA organized by NCI, UBA, IIT Delhi on March 6th 2019
- Invited Expert on the Committee for planning/evaluation and assessment of University Enterprise Architecture Framework (UEAF) under the chairmanship of JS (ICC & TEL), Ministry of Human Resource Development, New Delhi, 2018.
- Delivered the Expert Lecture on “Intelligent Control: A recent perspective”, Short Term Course on Estimation Guidance and Control: Applications to Missile Systems, January 10-15, 2018, organized at National Institute of Technology Kurukshetra under TEQIP-III.
- Delivered the Expert Lecture on “Soft Computing in Power Systems”, Short Term Course on Control Strategies for Power Quality Improvement (CSPQI), January 12-16, 2018, organized by Electrical Engineering Department, National Institute of Technology Kurukshetra.
- Delivered the Plenary invited talk on “Control Schemes for Hybrid Energy System under Different Operating Conditions”, at International Conference on Control, Mechatronics & Automation (ICCMA-2018), October 12-14, 2018, **Tokyo, Japan.**
- Delivered the Plenary invited talk on “Load Frequency Control in Hybrid Power Systems”, at International Conference on Control, Mechatronics & Automation (ICCMA-2017), October 11-13, 2017, University of Alberta, **Edmonton, Canada**
- Reviewer for International Conference on Control, Mechatronics & Automation, October 11-13, 2017, Edmonton, Canada
- Reviewer for the journal of Electric Power Components and Systems, Taylor & Francis, USA
- Reviewer for International Conference on Control, Mechatronics & Automation, December 21-22, 2015, Barcelona, Spain.

- Reviewed research papers for 4thInternational Conference on Eco-Friendly Computing and Communication Systems (ICECCS),December7-8, 2015, NIT Kurukshetra.
- Reviewed research papers for International Conference on Control, Mechatronics & Automation, Dec. 8-10, 2014, Dubai, UAE.
- Reviewed research papers for IEEE 6th India International Conference on Power Electronics, December 8-10, 2014, NIT Kurukshetra
- Reviewed research papers for International Conference on Control, Mechatronics & Automation, December6-7, 2013, Sydney, Australia.
- Delivered a Talk and participated, as one of the panelists, in a panel discussion on “New Age Teaching and Learning”, at One Day conference on Leveraging Technology in Education, April 18, 2017, conducted by Confederation of Indian Industry (CII) on the sidelines of Global Exhibition on Services-The India Opportunity, April 17-20, 2017, organized jointly by CII, Department of Commerce, Ministry of Commerce and Industry, Govt. of India and Services Export Promotion Council (SEPC) at Expo Centre, Greater Noida, UP. The other two panelists were: (i) Dr. Francisco Marmalejo, Lead, Global Solutions Group on Tertiary Education, Lead Education Specialist for India, World Bank (ii) Dr. Geoffrey, Chairman, Commonwealth Association for Infrastructure Development (CIID).
- Delivered expert lecture on “Technology Enabled Teaching-Learning: a Recent Perspective”, at Faculty Development Program, organized by the office of Dean(Faculty Welfare),March 15-20, 2017, National Institute of Technology Kurukshetra.
- Delivered expert lecture on “Advances in Control systems: A historical perspective”, Short Term Course on ‘Control Systems and Missile Guidance’, for the students, December 16-20, 2016, organized at National Institute of Technology Kurukshetra in collaboration with RCI Lab, DRDO, Hyderabad
- Delivered expert lectures on “Indian Scientists and their Contributions” and “Renewable Energy Systems” at One Day Workshop on Development of Scientific Temperament, August 13, 2016, SMB Gita Sr. Sec. School, Kurukshetra.
- Delivered expert lectures on “Intelligent Control Applications” at Short Term Training Program on Nonlinear Systems and Control, May 16-20, 2016, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Delivered an invited talk on “Computer and IT skills”, at Training Workshop, Nehru Yuva Kendra, Pipli, Kurukshetra (Haryana), February, 2016.
- Delivered a talk on “IT applications in daily life” to the school children visiting the Institute under IT-education project.
- Delivered a talk on “IT applications in daily life”, Workshop on “Computer and IT Skills; Health and Hygiene; and Efficient use of Electrical Appliances’ for the youth participants from three nearby villages adopted by the Institute under Unnat Bharat Abhiyan, Feb. 6, 2016, organized by National Institute of Technology Kurukshetra.
- Delivered the Keynote address on “Biologically Inspired Computing and Intelligent Systems”, National Conference on Machine Intelligence and Research Advancement, March 19-20, 2015, School of Engineering and Sciences, BPS Women University, Khanpur Kalan, Sonapat, Haryana.

- Delivered the Keynote address on “Intelligent Control: Overview, Issues and Prospects”, at International Conference on Control, Mechatronics & Automation (ICCMA-2014), December 8-10, 2014, Dubai, UAE.
- Delivered invited lectures on “Fuzzy based intelligent frequency control in AC hybrid microgrid” and “Artificial Intelligent Techniques and applications to Electrical Engineering”, Workshop on Artificial Intelligence and Renewable Energy Interconnection with Smart Grid, Sept. 19, 2014, University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra.
- Delivered invited lectures on “Fuzzy System Design & Applications” and “Soft Computing: Recent Perspectives”, Workshop on Computational Intelligence and Signal Processing, September 3, 2013, Department of Electrical Engineering, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonapat, Haryana.
- Delivered invited lectures on “Design of Fuzzy Systems” and “Soft Computing: An Overview”, Faculty Development Program on Advances in Signal Processing & its Applications, July 26, 2013, University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra.
- Delivered Keynote Talk on “Soft Computing Technologies”, National Conference on Futuristic Trends in Computing, Communication & Information System-FTTCCIS- July 13, 2013, Yamuna Institute of Engineering & Technology, Yamunangar, Haryana.
- Delivered invited lectures on “E-Learning: A New Paradigm of Learning” and “Aakash Tablet and Computer Networking Basics”, Orientation Course at UGC Academic Staff College, Bhagat Phool Singh Women University, Khanpur Kalan, Sonapat, Haryana, June 28, 2013.
- Delivered invited lectures on “Information Communication Technology Enabled Teaching-Learning Process: A Recent Perspective” and “Android Operating System and Aakash Tablet”, Refresher Course on ICT- UGC Academic Staff College, May 31, 2013, Bhagat Phool Singh Women University, Khanpur Kalan, Sonapat, Haryana.
- Delivered invited lecture on “Intelligent Control and Fuzzy Systems Design”, Subject Domain Lecture Series, April 4, 2009, Textile Institute of Technology & Science (TITS) Bhiwani, Haryana.
- Delivered expert lectures on “Energy Efficient Appliances”, “Maintenance of Electrical Appliances of Agricultural use” and “Solar energy based products for domestic use”, Workshop on Energy Savings through Effective Maintenance and Efficient Utilization of Electrical Appliances, February 13-15, 2009, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Delivered expert lectures on “Intelligent Control and Fuzzy System Design”, at Short Term Course on Advances in Power System Operation and Control, December 1-5, 2008, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Delivered expert lectures on “Intelligent Control: a recent perspective” and “Fuzzy System Design”, Short Term Training Program on Intelligent Control, June 25th – 29th, 2007, Department of Electrical Engineering, National Institute of Technology Kurukshetra.

Seminars, Symposia, Conferences, and Workshops/Short Term Courses Organized / Participated:

- Convener, Expert Lecture on “Role of Indian Scientists towards the growth of Science and Technology” by Dr. Somdev Bhardwaj, Regional Coordinator, Vigyan Bharati, North India, organized on 07.03.2025 by the School of Energy and Efficiency, NIT Kurukshetra jointly with Vigyan Bharati.
- Convener, Expert Lecture on “विज्ञानं भारती : विचारधारा एवं लक्ष्य” द्वारा डॉ सोमदेव भरद्वाज, क्षेत्र प्रमुख, उत्तर भारत , विज्ञानं भारती, organized on 07.03.2025 at NIT Kurukshetra by Vigyan Bharati.
- General Chair, International Conference on Smart Grid Energy Systems and Control, organized by Electrical Engineering Department, NIT Kurukshetra, February 21-23, 2025.
- Organizing Committee Member, “शिक्षा महाकुंभ 2.0 – International Conference on Indian Education System for Global Development” organized by the Department of Holistic Education, Vidya Bharti Institute of Training and Research at UIET, Kurukshetra University, Kurukshetra during December 16-17, 2024.
- Convener, STC on Advancement in Control and Operation of Smart Energy Systems (ACOSSES-2024), organized by Department of Electrical Engineering, NIT Kurukshetra, July 15-19, 2024.
- General Chair, International Conference on Future Power Network and Smart Energy Systems: Issues and Challenges, organized by NIT Kurukshetra jointly with NIT Delhi, and NPTI Faridabad, March 08-10, 2024.
- Conference Secretary, National Conference- “SHIKSHA KUMBH” on Role of Academic-driven Startups in Economy (RASE), organized by RCI UBA NIT Kurukshetra in collaboration with the Department of Holistic Education, Vidya Bharti Uttar Kshetra, and Hindu Shiksha Samiti, Haryana on Dec. 20, 2023.
- Conference Chair, One Day National Conference on ‘Role of Scientists and Scientific Institutions in India’s Freedom Struggle’ in celebration of Birth Anniversary of great Indian Scientist Dr. Shanti Swarup Bhatnagar, organized by Vigyan Bharati, Haryana in Collaboration with NIT Kurukshetra and sponsored by Ministry of Culture, Govt. of India, on 12.08.2023.
- Convener, STC on Control, Operation, and Management of Renewable Energy Integrated Power System (COMREPS-2023), organized by Department of Electrical Engineering, NIT Kurukshetra, June 23-27, 2023.
- Honorary Chair, First International Conference on Smart and Sustainable Technologies in Energy and Power Systems 2022 (SSTEPS-2022), Organized by School of Engineering & Technology, Central University of Haryana, Mahendergarh, 7-9 November, 2022.
- FDP Director, Faculty Development program on “Mentoring Institutional Social Responsibility and Facilitating Community Engagement in Higher Education Institutions”, September 19-24, 2022, organized by NIT Kurukshetra under Unnat Bharat Abhiyan.
- Convener, STC on Advances in Modeling and Control of Robotics (AMCR-2021), organized by Department of Electrical Engineering, NIT Kurukshetra during 18-23 October 2021.
- Convenor: Expert Lecture on “वर्तमान समय में तनाव से कैसे बचें” by Maj. (Dr.) Samiksha Tyagi, Consultant Plastic Surgeon, Army Hospital Research & Referral, New Delhi, under Unnat Bharat Gram Aarogya Series at NIT Kurukshetra on 1st July 2021.
- Convenor: Expert Lecture on “भविष्य में भारतीय चिकित्सा का स्वरूप” by Dr. Himanshu Tyagi, Senior Consultant Spine and Orthopaedic Surgeon, Artemis Hospital, Delhi, NCR, under Unnat Bharat Gram Aarogya Series at NIT Kurukshetra on 28th June 2021.
- General Chair: International Online Conference on Smart Grid Energy Systems and Control, (SGESC-2021), organized by NIT Kurukshetra, March 19-21, 2021

- Convenor, Webinar on “Celebrating the Leader in the Woman” organized under TEQIP-III at NIT Kurukshetra on 8th March, 2021 in celebration of the International Women’s Day.
- Convenor, Webinar on " Technical Education in the light of NEP 2020: A Fresh Perspective " organized under TEQIP-III on 6th March 2021.
- Convenor: Online three-day talk series on “Mantras of Excellence” for all the B.Tech.1st year students of NIT Kurukshetra under TEQIP-III from 17th February to 19th February 2021.
- Convenor: Online Teaching Sessions for B.Tech. student of GEC Bikaner Jointly organized by NIT Kurukshetra and GEC Bikaner during 25th January-28th January 2021
- Convenor: Online Session for faculty and staff members of GEC Bikaner Jointly organized by NIT Kurukshetra and GEC Bikaner 27th January 2021
- Participated in Professional Development Training organized by IIM during 26-28, November, 2020
- Course Convener: Online STC on “Advanced Control Paradigms and Evolving Trends (ACPET-2020)” organized by NIT Kurukshetra during 26th-31st October 2020.
- Participated in online meeting with Pls for Discussing on CSIR Technology Template and Working Module (CSIR- UBA- VIBHA Collaboration) organized by NCI, UBA, IIT Delhi on 23rd October, 2020
- General Chair: International Conference on “Challenges and Application in Clean Energy (ICCACE-2020)” jointly organized by NIT Kurukshetra and GEC Bikaner, 25-26 December 2020.
- As RCI, UBA Coordinator NIT Kurukshetra organized: “A webinar on नई शिक्षा नीति- 2020 एवं उन्नत भारत अभियान” organized in collaboration with BPS Women University, Khanpur Kalan, Sonapat, Haryana on 26 September 2020
- Advisor: Online STC on "Security Challenges, Objectives and Issues in IoT enable Smart Grids (SCOICG 2020)" from September 23rd – 27th, 2020 at NIT Kurukshetra
- Convener: One week Online STTP on "Research Scholars' Week: Applied Sciences and Humanities” jointly organized by NIT Kurukshetra and GEC Bikaner September 23rd – 27th, 2020
- Convener: One week Online FDP on "Designing Pedagogies for Online Teaching & Learning" jointly organized by NIT Kurukshetra and GEC Bikaner September 23rd – 27th, 2020
- Convener: A webinar on “National Education Policy 2020” for the participating institutions of Haryana organized by RCI NIT Kurukshetra on September 22, 2020
- Participated in a webinar on “राष्ट्रीय शिक्षा नीति 2020 के क्रियान्वयन में राष्ट्रीय प्रौद्योगिकी संस्थानों की भूमिका: चुनौतियां और समाधान” organized by राष्ट्रीय प्रौद्योगिकी संस्थान कुरुक्षेत्र एवं शिक्षा संस्कृति उत्थान न्यास नई दिल्ली के संयुक्त तत्वाधान on 17 सितंबर 2020
- Convener: One week Online STTP on "Research Scholars' Week: Engineering" jointly organized by NIT Kurukshetra and GEC Bikaner September 17th - 22nd, 2020
- Convener: One week Online STTP on "Control, Guidance and Estimation of Flight Vehicles" jointly organized by NIT Kurukshetra and GEC Bikaner September 11st – 16th, 2020
- Convener, Online Workshop on "Mechanisms for Rural Good Through UBA" organized by RCI, UBA NIT Kurukshetra during 28th - 29th August 2020.
- Convener: Online FDP on "Designing Pedagogies for Online Teaching & Learning" organized by Department of Computer Engineering at NIT Kurukshetra during August 10th-14th 2020

- Convener: One day Webinar on "Gender Stereotyping Challenges and Issues" jointly organized by NIT Kurukshetra and GEC Bikaner on 9th August, 2020
- Convener: One day Webinar on "Employability Skills and Industry Perspective" jointly organized by NIT Kurukshetra and GEC Bikaner on 30th July, 2020
- Advisor: Online STC on Smart Grid: Operation & planning with Renewable Energy Sources and FACTS (SGOPRESF-2020) from 29th July to 02nd August 2020 at NIT Kurukshetra
- Convener: Online Webinars/Seminars on "Gender Equality and Women's Right" on July 16th 2020 under TEQIP-III.
- Publicity Chair, 1st IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020) organized by Department of Electrical Engineering, NIT Kurukshetra during 24th -26th June 2020 in online mode.
- Session Chair, 1st IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020) organized by Department of Electrical Engineering, NIT Kurukshetra during 24th -26th June 2020 in online mode.
- Convener: Online Short Term Training Program on "Environmental Crisis and Sustainable Development" jointly organized by NIT Kurukshetra and GEC Bikaner July 1st - 5th , 2020
- Convener: Online Short Term Training Program on "Data Science & Learning Systems for Engineering Research & Design" jointly organized by NIT Kurukshetra and GEC Bikaner June 24th -30th , 2020
- Convener: Online Short Term Training Program on "Challenges and Grid Integration with Renewable Sources" jointly organized by NIT Kurukshetra and GEC Bikaner June 22nd -26th, 2020
- Convener, TEQIP-III Sponsored Online Short Term Training Program on "Green Energy Technologies for Sustainable Development" jointly organized by NIT Kurukshetra and GEC Bikaner, June 11-20, 2020.
- Convener, TEQIP-III Sponsored Five days Online Short-Term Training Program (Repeat version) on "Bio-Energy: Technologies & Transitions" jointly organized by GEC Bikaner and NIT Kurukshetra from 18th May- 22nd May 2020.
- Convener, TEQIP-III Sponsored Five days Online Short-Term Training Program on "Bio-Energy: Technologies & Transitions" jointly organized by NIT Kurukshetra and GEC Bikaner from 13th May- 17th May 2020.
- Convener: A Web Meeting with all PIs of Haryana State on "Creating awareness regarding COVID-19" on 04th April 2020
- Course Convener: One week Short Term Course on "Waste Management & Sustainable Environment (WMSE-2020)" organized by School of Renewable Energy & Efficiency, NIT Kurukshetra from 26th Feb. – 3rd March 2020.
- Convener, "Orientation Workshop for the PIs of Haryana" organized by RCI, UBA NIT Kurukshetra on 24 December 2019.
- Patron: Online Short Term Course on "Advances in Renewable Energy Systems" organized by NIT Kurukshetra and GEC Bikaner on December 09th to 20th 2019, at GEC Bikaner.
- Patron: Online Short Term Course on "Solar Photovoltaic Installation" organized by NIT Kurukshetra and GEC Bikaner on November 25th to 29th 2019, at GEC Bikaner.
- Participated in "Tech4Seva" National Workshop organized by National Coordinating Institute, UBA, IIT Delhi during 10-12 August 2019.

- Participated in “National Conference on Rural Immersion Management” organized by Mahatma Gandhi National Council of Rural Education (MGNCRE), Hyderabad during 13-14 July 2019 Hyderabad
- Convener: A STC on “Data Analytics” organized by NIT Kurukshetra in collaboration in technical association with Acad gild during 26th June – 30th June 2019.
- Convener: International workshop on Energy, Propulsion and Environment (IWEPE 2019) organized by NIT Kurukshetra during 17th March- 20th March 2020.
- Convener: A FDP on “Data Analytics” organized by NIT Kurukshetra in technical association with Acad gild during 28th February– 03rd March 2019.
- Coordinator, Short Term Course on “Start-up Week”, January 21-27, 2019, organized at National Institute of Technology Kurukshetra under TEQIP-III.
- Steering Committee Member and Plenary Speaker, “International Conference on Control, Mechatronics & Automation, (ICMA-2018), October 12-14, 2018, **Tokyo, Japan**.
- Chairman, Organizing Committee, National IT Challenge for Youth with Disabilities, June, 2018, organized by National Institute of Technology Kurukshetra in collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India, New Delhi.
- Coordinator, Short Term Course on “Estimation Guidance and Control: Applications to Missile Systems”, January 10-15, 2018, organized at National Institute of Technology Kurukshetra under TEQIP-III.
- Publicity Chair, 5th International Conference on Control, Mechatronics & Automation, October 11-13, 2017, Edmonton, Canada.
- Chairman, Organizing Committee, National IT Challenge for Youth with Disabilities, July, 2017, organized by National Institute of Technology Kurukshetra in collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India, New Delhi.
- State Coordinator, Vidyarthi Vigyan Manthan 2016- Talent Search for Future India, a state level camp (Level-III) for the state of Haryana, organized by Vigyan Bharati (VIBHA) in association with National Council of Education Research and Training (NCERT), Ministry of Human Resource Development, Govt. of India and Vigyan Prasar, Department of Science and Technology, Govt. of India on April 14th 2017 at National Institute of Technology Kurukshetra.
- Coordinator, Special Passport Camp organized in collaboration with Regional Passport Office, Chandigarh and Passport Seva Kendra, Ambala, to encourage and facilitate the students to apply for their passports, 24th January, 2017 at National Institute of Technology Kurukshetra.
- Coordinator, Short Term Course on ‘Control Systems and Missile Guidance’, for the students, December 16-20, 2016, organized at National Institute of Technology Kurukshetra in collaboration with RCI Lab, DRDO, Hyderabad.
- Program Chair, 4th International Conference on Control, Mechatronics and Automation (ICMA-2016) held during December 8-10, 2016 at **Barcelona, Spain**.
- Member, Organizing Committee and Chairman of Anubhav Kathan Session, One Day Workshop on Yuva & Seva-480 Minutes for Sewapath, September 4, 2016, jointly organized

by Yuva & Seva Foundation and Annamika Hindi Society, National Institute of Technology Kurukshetra.

- Chairman, Organizing Committee, National IT Challenge for Youth with Disabilities, July 19-20, 2016, organized by National Institute of Technology Kurukshetra in collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India, New Delhi.
- Convener: Expert lecture on New Education Policy-Necessity and Relevance (नई शिक्षा नीति-आवश्यकता और प्रासंगिकता) delivered by Shri Dina Nath Batra, President, Shiksha Sanskriti Utthan Nyas, New Delhi on 24th May 2016
- Convener, Short Term Training Program on Nonlinear Systems and Control, May 16-20, 2016, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Convener; Lecture cum Interactive Session on Relevance of Human Values and Ethics in Professional/Higher Education by Sh. Atul Kothari, Secretary, Shiksha Sanskriti Utthan Nyas, New Delhi National Institute of Technology Kurukshetra on April 20, 2016
- Convener, One Day Workshop on 'Computer and IT Skills; Health and Hygiene; and Efficient use of Electrical Appliances' for the youth participants from three nearby villages adopted by the Institute under Unnat Bharat Abhiyan, February 6, 2016, National Institute of Technology Kurukshetra.
- Convener, One Day Awareness Program on Road to Safety, October 8, 2015, organized by National Institute of Technology Kurukshetra in collaboration with Institute of Road Traffic Education, Faridabad.
- Member, Technical Program Committee, International Conference on Recent Developments in Control, Automation and Power Engineering, March 12-13, 2015, Department of Electrical & Electronics Engineering, Amity School of Engineering and Technology, Amity University, Noida, Uttar Pradesh.
- Conference Chair and Key Note Speaker, 2nd International Conference on Control, Mechatronics and Automation (ICCMA-2014), December 8-10, 2014, **Dubai, UAE.**
- Chairman, Technical Session, 2nd International Conference on Control, Mechatronics and Automation (ICCMA-2014), December 8-10, 2014, Dubai, UAE.
- Presented Research Paper in 2nd International Conference on Control, Mechatronics and Automation (ICCMA-2014), December 8-10, 2014, Dubai, UAE.
- Publicity Chair, 6th IEEE India International Conference on Power Electronics (IICPE-2014), December 8-10, 2014, organized by National Institute of Technology Kurukshetra in collaboration with the PES-IAS & PELS-IES Chapters of IEEE Delhi Section.
- Participated and presented Research Paper in the 2014 IEEE Multi-Conference (MSC-2014).October 8-10, 2014, **Antibes, France.**
- Convener, One Day Awareness Program on National Mission on Education through Information and Communication Technology (NMEICT) for the faculty of the Higher Education Institutions in the state of Haryana, September 26, 2014, National Institute of Technology Kurukshetra.

- Chairman, Technical Session, 1stInternational Conference on Control, Mechatronics and Automation (ICCMA-2013), December 6-7, 2013, **Sydney, Australia**.
- Presented Research Paper in 1stInternational Conference on Control, Mechatronics and Automation (ICCMA-2013), December 6-7, 2013, Sydney, Australia.
- Chairman, Technical Session, in the National Conference on Futuristic Trends in Computing, Communication & Information Systems (FTTCCIS), July 12-13, 2013, Yamuna Institute of Engineering & Technology, Yamunanagar, Haryana.
- Delivered an Expert Talk in the National Conference on Futuristic Trends in Computing, Communication & Information Systems (FTTCCIS), July 13, 2013, Yamuna Institute of Engineering & Technology, Yamunanagar, Haryana.
- Member, Organizing Committee and Reviewer, National Conference on Recent Trends in Energy, Systems and Control, March 15-16, 2013, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Co-coordinator, Two Day Interactive Workshop of Academia and DRDO, April 27-28, 2012, organized by National Institute of Technology Kurukshetra in collaboration with ARMREB, DRDO, New Delhi.
- Participated and presented a Research Paper in the IEEE International Conference on Systems Engineering, August 16-18, 2011, **Las Vegas, USA**.
- Coordinator, Three Day Community Service Workshop on Energy Saving through Effective Maintenance and Efficient Utilization of Electrical Appliances, February 13-15, 2009, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Member, Organizing Committee, International Conference on Energy and Environment, 'ENVIROENERGY 2009', March 19-21, 2009, National Institute of Technology Kurukshetra.
- Coordinator, Short Term Course on Instructional Planning and Delivery for faculty of the Institute, October 20-24, 2008, organized by National Institute of Technology Kurukshetra in collaboration with National Institute of Technical Teachers Training & Research, Chandigarh.
- Coordinator, One Week Short Term Course on Advances in Power System Operation and Control, December 2008, Department of Electrical Engineering, National Institute of Technology Kurukshetra.
- Coordinator, Short Term Course on Instructional Planning and Delivery for faculty of the Institute, September 22-26, 2008, organized by National Institute of Technology Kurukshetra in collaboration with National Institute of Technical Teachers Training & Research, Chandigarh.
- Coordinator, Short Term Course on Modern Office Management for the Secretarial Staff of the Institute, September 8-12, 2008, organized by National Institute of Technology Kurukshetra in collaboration with National Institute of Technical Teachers Training & Research, Chandigarh.
- Coordinator, Short Term Training Program on Intelligent Control, June 25-29, 2007, Department of Electrical Engineering, National Institute of Technology Kurukshetra.

Annexure-A Research Publications

1. **Pratibha, Sonam Sandhu, and Sathans**, “A recent and future perspective on clean energy in the Indian and Global context towards achieving SDG7”, International Conference on Indian Education System for Global Development – Shiksha Mahakumbh”, organized by the Department of Holistic Education, Vidya Bharti Institute of Training and Research at UIET, Kurukshetra University, Kurukshetra during December 16-17, 2024.
2. **Ankush Gupta and Sathans Suhag**, “Hybrid structure integrating multiple battery and hydrogen charging stations in an autonomous microgrid for customized energy and voltage control”, Volume 41, September 2024, Sustainable Materials and Technologies.
3. **Ankush Gupta and Sathans Suhag**, “A techno-economic-environmental assessment and control strategy for hybrid renewable energy based autonomous microgrid energy infrastructure in island societies of Northern India”, March 2024, Environment, Development and Sustainability.
4. **Ankush Gupta and Sathans Suhag**, “ A control strategy incorporating multiple EV charging stations for an islanded micro-grid energy management and voltage regulation”, January 2024 <https://doi.org/10.1002/est2.548>, Journal of Energy Storage.
5. **Ravita Saraswat and Sathans Suhag**, “Type-2 fuzzy logic PID control for efficient power balance in an AC microgrid”, Sustainable Energy Technologies and Assessments, Volume 56, March 2023, 103048, ISSN 2213-1388, <https://doi.org/10.1016/j.seta.2023.103048>.
6. **Ankush Gupta and Sathans Suhag**, “Charging station control strategy considering dynamic behaviour of electric vehicles with variable state of charge regulation for energy management of autonomous micro-grid”, Journal of Energy Storage, Volume 59, March 2023, 106460, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2022.106460>.
7. **Vinod Kumar, and Sathans**, “Current reduction in Electrical Vehicles via EPAS system control using MVO and GWO based tuning methodology”, International Journal of Computing and Digital System, April 2023.
8. **Archana Singh and Sathans Suhag**, “Impact Assessment of Redox Flow Battery Coordinated Diverse Link on Frequency Regulation in Multi-Area Multi-Source Power System with Decentralized Optimal Control” International Journal of Computing and Digital Systems, September 2023.
9. **Ankush Gupta and Sathans Suhag**, " Utilization of distinct HVAC operation modes to improve demand response flexibility in the pharmaceutical industry and economic analysis for optimization by HOMER software”, ASME Journal of Engineering for Sustainable Buildings and Cities, Sept. 2023.
10. **Gunjan Chorasiya, Vinod Kumar, and Sathans Suhag**, “GWO- and SSA-Tuned PID Control for Frequency Regulation in Multi-Area Power Network Integrated with Plug-in Electric Vehicle”, Smart Science, Oct. 2023.
11. **Pratibha and Sathans Suhag**, “A Sustainable Solar Energy Source to Meet Energy Demand in Rural Area”, National Conference on Role of Academic - driven Startups in Economy (RASE 2023), jointly organized by Department of Holistic Education, Vidya Bharati Ultra Kshetra and NIT Kurukshetra, Dec. 20, 2023.

12. **Ankush Gupta and Sathans Suhag**, "Evaluation of Energy Storage Systems for Sustainable Development of Renewable Energy Systems - A Comprehensive Review", Journal of Renewable and Sustainable Energy, <https://doi.org/10.1063/5.0075623>, May, 2022.
13. **Ravita Saraswat, Sathans Suhag**, "Effective power management and DC link voltage regulation in a WTG-PV-Battery-grid cogeneration scenario: Simulation and Experimental evaluation", International Journal of Ambient Energy, May 2022.
14. **Amit Sharma, Ravi Kumar, C.S. Rajoria, Sathans Suhag**, "Energetic and Exergetic Comparison of Opaque and Semi-transparent PVT Arrays Under Natural Convection Mode for Building Integration" In book: Advancement in Materials, Manufacturing and Energy Engineering, Vol. II (pp.361-373), DOI:10.1007/978-981-16-8341-1_29, January 2022, Springer.
15. **Archana Singh and Sathans Suhag**, "Minimum Order Quasi-Decentralized Functional Observer (MOQDFO) for Frequency Regulation in Multi-area Power System with DC Link and TCPS", International Journal of Computing and Digital Systems, January 2022.
16. **Amit Kumar and Sathans Suhag**, "Whale Optimization Algorithm Optimized Fuzzy-PID Plus PID Hybrid Controller for Frequency Regulation in Hybrid Power System. Journal of The Institution of Engineers (India): Series B, 2021, 1-16, April 2022.
17. **Shilpam Malik and Sathans Suhag**, "A coordinated control strategy for frequency regulation in hybrid shipboard power system using novel salp swarm algorithm tuned fractional controller", International Journal of Ambient Energy, September 2021.
18. **Ravita Saraswat, Sathans Suhag**, "Optimal economic sizing of stand-alone hybrid renewable energy system (HRES) suiting to the community in Kurukshetra, India", International Journal of Computing and Digital System, <https://journal.uob.edu.bh:443/handle/123456789/4342>, September 2022.
19. **Om Krishan, Sathans Suhag**, "Effective power management in Renewable Energy Resources based Power system incorporating Electric Spring" International Online Conference on Smart Grid Energy Systems and Control, (SGESC-2021), NIT Kurukshetra, March 2021
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21. **C.S. Rajoria, Ravi Kumar, Amit Sharma, Dharmendra Singh, Sathans Suhag**, Development of flat-plate building integrated photovoltaic/thermal (BIPV/T) system: A review, Materials Today: Proceedings, October 2020,
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23. **Shilpam Malik and Sathans Suhag**, "A Novel SSA Tuned PI-TDF Control Scheme for Mitigation of Frequency Excursions in Hybrid Power System" Smart Science, September 2020
24. **Amandeep Singh and Sathans Suhag**, "Whale Optimization Algorithm Based Tilt Integral Derivative Control for Frequency Regulation in AC Microgrid with and without SMES" International Journal of Computing and Digital Systems, September 2020.

25. **Vinod Kumar and Sathans Suhag**, "Current Reduction in EPAS System of Electric Vehicles using 2-DOF PID Controller tuned with GWO and SSA" 2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 13-15 May 2020.
26. **Vinod Kumar and Sathans Suhag**, "Comparative Analysis of Salp Swarm Algorithm Tuned 2-DOF PID and PIDF controllers for Reducing the Current Consumption in EPAS System of Electric Vehicles" 2020 6th IEEE Students Conference on Engineering & Systems (SCES) July 10-12, 2020 MNNIT, Allahabad, Prayagraj, India
27. **Gunjan Chorasiya and Sathans Suhag**, "SSA optimized 2DOF-PID Controller for Mitigation of Frequency and Tie-Line Power Deviations in a Two-Area Power System with Integration of EV" 2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 13-15 May 2020.
28. **Gunjan Chorasiya and Sathans Suhag**, "A comparative study of MVO and SSA optimized PID controller for LFC in EV integrated multi area network" in 11th IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT-2020), IIT Kharagpur, India, 1-3 July 2020
29. **Itie Goswami and Sathans Suhag**, "Energy management in electric hybrid vehicle with diverse power sources", 2020 6th IEEE Students Conference on Engineering & Systems (SCES) July 10-12, 2020 MNNIT, Allahabad, Prayagraj, India.
30. **Om Krishan and Sathans Suhag**, "Grid-independent PV system hybridization with fuel cell-battery/supercapacitor: Optimum sizing and comparative techno-economic analysis", Sustainable Energy Technologies and Assessments, January 2020.
31. **Om Krishan and Sathans Suhag**, "A Novel Control Strategy for a Hybrid Energy Storage System in a Grid-Independent Hybrid Renewable Energy System", International Transactions on Electrical Energy Systems, October 2019, Wiley publications
32. **Amit Kumar and Sathans Suhag**, "Hybrid Bacterial Foraging Enhanced PSO Algorithm for Load Frequency Control of Hydro-Thermal Multi-Area Power System and Comparative analysis", International Journal of Computing and Digital Systems, January 2020.
33. **Amandeep Singh and Sathans**, "Frequency Regulation in an AC Microgrid Interconnected with Thermal system employing multiverse-optimized Fractional Order-PID controller", International Journal of Sustainable Energy, Taylor & Francis publication, published online November 2019.
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78. **Manoj Singh Bisht, Sathans**, "Frequency regulation in isolated hybrid AC microgrid using fuzzy logic controller and comparative analysis", *National Conference on, Recent Advances in Power Systems (RAPS-2014)*, organized by Department of Electrical Engineering PEC University of Technology (Deemed University) PEC Chandigarh, June 28, 2014.
79. **Vishal Saini, Sathans**, "Frequency Control in an Autonomous Hybrid AC Microgrid", *National Conference on, Recent Advances in Power Systems (RAPS-2014)*, organized by Department of Electrical Engineering PEC University of Technology (Deemed University) PEC Chandigarh, June 28, 2014.
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81. **Shrestha Saurabh, Sathans**, "Intelligent Hybrid Fuzzy PD Control for Trajectory Tracking of Robot Manipulator and Comparative Analysis", *International Conference on Industrial Engineering Science and Applications-2014 (IESA-14)*, NIT Durgapur, April 2-4, 2014.
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85. **Sathans, Jitender Rohilla**, "Control of DFIG based Variable Speed Wind Turbine System using Artificial Neural Network", Proceedings of the *International conference on Power System, Energy and Environment, 2014 (PSEE 2014)*, pp. 166-172, Interlaken, Switzerland, February 22-24, 2014.
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87. **Rishabh Verma, Shalini Pal, Sathans**, "Fuzzy Gain Scheduled Automatic Generation Control of Two Area Multi Unit Power System", *IEEE Students Conference on Engineering and Systems*, NIT, Allahabad, April 12-14, 2013.
88. **Rishabh Verma, Shalini Pal, Sathans**, "Intelligent Automatic Generation Control of Two-Area Hydrothermal Power System using ANN and Fuzzy Logic", *IEEE International Conference on Communication Systems and Network Technologies*, Gwalior, India, April 6-8, 2013.

89. **Manjeet, Sathans**, “Fuzzy based Control of Two Link Robotic Manipulator and Comparative Analysis”, *IEEE International Conference on Communication Systems and Network Technologies, Gwalior, India, April 6-8, 2013*.
90. **Rishabh Verma, Shalini Pal, Sathans**, “Fuzzy based Automatic Generation Control of Two-area Power System and Comparative Analysis”, *International conference on Biomedical Engineering and Assistive Technologies, Dec.6-7, 2012, NIT, Jalandhar*.
91. **Sathans, A Swarup**, “Intelligent Automatic Generation Control of Two Area Interconnected Power System using Hybrid Neuro-Fuzzy Controller”, *International Journal of Electrical and Computer Engineering*, vol. 5, no. 12, pp. 1938-onwards, 2011.
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98. **Sathans, M. K. Soni, A Swarup**, “Intelligent Control for UPS Inverter Performance Improvement,” *Proceedings of the National Conference on Power Electronics and Intelligent Control*, organized by department of Electrical Engineering, National Institute of Technology, Jaipur (India), pp. 53-56, March 17-18, 2007.
99. **Sathans, M. K. Soni**, “Design and Development of PC Based Frequency Response Analyzer”, *Proceedings of the National Conference on Emerging Trends in Electronic Product Design and Technology, CEDT, SAS Nagar (Mohali) Punjab*, pp. 335-342, April 6-8, 1995.

Annexure-B
Ph. D. Theses Supervision

Sr. No.	Name of Candidate	Registration No. and Date	Area of Research	Status
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1.	Amandeep Singh	2k13/NITK/Ph.D/ 6130063 03/08/2013	Control Strategies for Frequency Regulation in AC Microgrid Using Evolutionary Optimization Algorithms	Awarded 2020
2.	Amit Kumar	2k14/NITK/Ph.D/ 6140003 27/01/2014	Load Frequency Control and Modern Heuristic Optimization Techniques in Hybrid Power System	Awarded 2018
3.	Rahul Sharma	2k14/NITK/Ph.D/ 6140009 31/01/2014	Control Schemes for Hybrid Energy System under Different Operating Conditions	Awarded 2018
4.	Om Krishan	2k14/NITK/Ph.D/ 6140027 03/02/2014	Techno-Economic Analysis and Power Management in Distributed Generation Power System Incorporating Energy Storage Systems	Awarded 2020
5.	Shilpam Malik	2k14/NITK/Ph.D/ 6140073 08/08/14	Frequency Regulation in Distributed Generation Power System	Awarded 12.04.2022
6.	Archana Singh	2k15/NITK/Ph.D/ 6150039 09/02/2015	Decentralized Control of Frequency in Multi Area Multi Source Power System	Awarded 2023
7.	Ravita Saraswat	2k19/NITK/Ph.D/ 61900053 08/07/2019	Energy Management, Control and Economic Analysis of AC Microgrid System	Awarded 2023
8.	Ankush Gupta	2K19-NITK-PhD- 61900116 01/01/2020	Charging Station Control Strategy for Energy Management in an Autonomous Microgrid Integrating Hybrid Renewable Energy Sources and the Fleet of Vehicles	Awarded 2023
9.	Aman Prakash	2k18-NITK-phD- 6180077	On Modelling and Lateral Control of Autonomous Vehicle	Awarded 2023
10.	Pratibha	2K21-NITK-PhD- 61900019 January 2022	Energy management in Microgrid Structures	In progress
11.	Neha Manjul	2K23-NITK-PhD- 62300014 Sept. 2023	Some aspects of Multi-Microgrid Control	In progress
12.	Ashutosh Kumar	2K23-NITK-PhD- 62310057 Sept. 2023	On grid integration of Electrical Vehicles and performance assessment	In progress
13.	*Mr. Akshat Kant	232264	Enhancing Electric Vehicle Battery Pack Performance Through Intelligent State of Health Estimation Strategies	In progress (as the Co-Supervisor)

*The candidate is registered with the Department of Electrical Engineering, School of Engineering & Technology, Central University of Haryana, Mahendergarh.

Annexure-C
M. Tech. Dissertations Supervised

Sr. No.	Name of Candidate	Roll No.	Title of Dissertation	Session/Year
1	Ajay Mishra	295737	Chip and System Design using AHDL	Dec. 1997
2	Ajay Pratap Singh	295797	Digital System Design using AHDL	Dec. 1997
3	Ranbir Singh	296748	Phase Locked Loop: Modelling & Analysis using Simulation Software	March 2001
4	Vijay Kumar Tayal	297746	Prediction of Limit Cycles in a 2 Dimensional Nonlinear System	August 2002
5	ArvindBharati	298774	Study Analysis of Various Control Aspects in a Thermal Power Plant- A Case Study	August 2003
6	Manoj Kumar Bhatt	298770	Architecture & Implementation of SDH Networks	May 2003
7	Manish Srivastava,	299743	Performance Analysis of ATM Switches with Multiple Input Buffers	May 2001
8	Amit Kumar,	299744	A Comparative Study and Simulation of Dynamic Queue Control Functions using ATM-ABR Switch Schemes	Feb. 2001
9	Sushil Kumar	299745	Performance Evaluation of DS-CDMA using Importance Sampling	Sept., 2001
10	Bhanu Pratap Singh	201747	Design of Fuzzy Controller for a Class of Complex Systems Based on Dynamic Fuzzy Model	Feb. 2003
11	Ms. Ruchika	742/03	Design & analysis of fuzzy logic controller	2005
12	Lokesh Budhalakoti	297768	Study of congestion control model for broadband intelligent and mobile network	Feb. 2005
13	Rajesh Kumar	753/04	A critical Study of Conventional & Evolutionary technique based power system stabilizer	2007
14	Venketeshwaralu Pal	746/05	Fuzzy logic controller for load frequency control problem in	2007

			two area interconnected power system	
15	Ms.Jyoti Arora Deswal	2k2-752	Some aspects of fuzzy logic controller design	2007
16	Krishna Kishore M S	2209/06	Reactive power compensation for Transmission line using fuzzy logic controller	June 2008
17	Gurpreet Singh	207291	Fuzzy controller design for PWM inverter of a UPS system	July 2009
18	N Krishna Swami Naidu	207286	Transient stability analysis of a multi machine power system including wind generator	August 2009
19	Umesh Gupta	208206	Different control schemes for electrical servo drive system	July 2010
20	Ashwini Grover	208208	Adaptive automatic generation control using fuzzy logic	July 2010
21	Vikram	208218	Automatic generation control using different control strategies and their comparative analysis	July 2010
22	Pardeep Kr.	741/05	Demand side loss minimization in power system using genetic algorithm	July 2010
23	Manjeet	209243	Design and implementation of different controllers for two line robotic manipulator	July 2011
24	Aman Kumar	209278	Automatic generation control of interconnected power system by using particle optimization technique	Dec. 2011
25	JitenderVerma	209282	Fuzzy logic based automatic generation control of interconnected power system with G.R.C.	May 2011
26	Arif Sheikh	210168	AGC of multi-area power system in restructured environment	July 2012

27	Gagan Deep Yadav	210177	Automatic generation control in restructured power system	April 2013
28	Rishabh Verma	211170	Intelligent automatic generation control in deregulated scenario with wind power penetration	June 2013
29	Shalini Pal	211606	Automatic generation control of multi area power system under deregulated environment using intelligent control techniques	June 2013
30	Jitender Kumar	211609	Modelling and control of variable speed wind turbine using intelligent controller technique	June 2013
31	VineetGautam	211119	Intelligent control of doubly fed induction generator based variable speed wind turbine	June 2013
32	Manoj Singh Bist	3121706	Dynamic Frequency Regulation in an Isolated Hybrid AC Microgrid Using Intelligent Control	June 2014
33	Vishal Saini	3121044	Intelligent Frequency Control in an AC Microgrid Power System Network	June 2014
34	Parvesh Kumar	3121046	Intelligent Under Frequency Load Shedding Scheme for Islanded Distribution Power System Network	June 2014
35	ShresthaSaurabh	3121522	Robotic Manipulator Control using Intelligent Techniques	June 2014
36	HimanshuRana	3131508	Controller Design for Trajectory Tracking of Two Link Robotic Manipulator	July 2015
37	Prince Sharma	3137518	Modelling and Analysis of Hybrid Renewable Energy System	July 2015
38	Abhishek Kumar	3137511	Modeling and control of an isolated hybrid power generation system	July 2015

39	Ravita Saraswat	3147510	Economic and Feasible Solution of Hybrid Renewable Energy System at Different Places of Haryana	August 2016
40	Kaushlender Kumar	3141711	Power Factor Correction Technique and THD Analysis for Three Phase Rectifier System	August 2016
41	Rahul Soni	31604115	Stabilization of Ball and Beam System: an Optimal and Robust Approach	August 2018
42	Gajraj Rawat	31610118	Modeling & Performance Analysis of Renewable Sources under Islanded DC Microgrid	August 2018
43	Manjul Okte	31604323	Sensorless Adaptive Control of Permanent Magnet Synchronous Motor Drives	August 2018
44	Chetan Sharma	31704102	Comparative Analysis of Multi carrier PWM Methodologies for 3-Phase 9 level cascade inverter	July 2019
45	Mohit Kumar	31704103	Design and Implementation of Efficient Level control Scheme for Two connected Reservoirs	July 2019
46	Vinod Kumar	31804106	Meta-Heuristic Techniques Based Tuned Current Reduction for Electric Power Assist Steering Control of Electric Vehicles	July 2020
47	Gunjan Chorasias	31804120	Load Frequency Control of Integrated Two Area Power System With Integration of Electric Vehicle	July 2020
48	Itie Goswami	31810115	Energy Management In Electric Hybrid Vehicle With Diverse Power Sources	Sept. 2020
49.	Raju Kumar	31904103	Modelling and Control of RERs based hybrid renewable energy systems	Nov. 2021
50.	Ravi Kumar Rajput	31904115	Some control issues in microgrids	Nov. 2021

51.	Kanishk Bhatt	31904102	Renewable Energy Based Power systems and their control	Nov. 2021
52.	Steffy L. Chandra Bhas	31910114	Parameter Estimation of PV Model	Sept. 2021
53	Keerthana M	32014112	Distributed Predictive Control for Frequency and Voltage Regulation in Microgrid	Sept. 2022
54	Ranjana	32014116	Engineering Analysis and Part Retrofitment for Class 3 Medical Devices	Sept. 2022
55	Aastha Luthra	32019101	Techno-economic Analysis of Renewable Energy based Grid Integrated EV Charging Station	Sept. 2023
56	Shubham Goel	32114324	Design & Performance Evaluation of Battery Management System Algorithms for Electric Vehicles using MATLAB	Sept. 2023
57	Dharani Mullapati	32114123	Interconnection of AC and DC Microgrids with Distributed Active Power Control	Sept. 2023
58	Nitin Prakash	32214101	Development and Analysis of Air Conditioner Control Parts	July 2024
59	Jay Bharti	32214111	Wifi Roaming on Linux and Android	Submitted
60	Daniel Ramanaboyana	323104103	Microgrid Optimization	In progress