

ANNUAL REPORT (2022-23)

01 July 2022- 30 June 2023

FACULTY OF ENGINEERING AND TECHNOLOGY

Department of Electrical Engineering

Established (Year): 2002

About the Department:

The department offers a regular course for the award of the degree in Bachelor of Technology (B.Tech.) in Electrical Engineering since 2002 and Department also offers a three-year regular course in Diploma in Electrical Engineering since 2022-23. The curriculum provides strong base to the students in Electrical Engineering and provides exposure to the latest technologies. Collaboration with faculty members from other disciplines, both within and outside the institute, is encouraged. The department currently has well maintained laboratories, equipped with latest equipment and software platforms, to impart state-of-the art technical knowledge.

Head of Department: Mr. Gajendra Singh Rawat

Faculty Members:

1. Mr. Gajendra Singh Rawat
2. Mr. Yogesh Kumar
3. Mr. Brijesh Kumar
4. Dr. Ashish Dhamanda
5. Mr. Bipin Kumar Nishad
6. Mr. Gaurav Kumar

Details of Publication/Conference attended/ Workshop attended/ Awards/ Invited talk etc.:

- I. No. of publications in UGC listed journals with impact factors (if any):**03**– Annexure I
- II. No. of books/edited books/chapters in books: **00**
- III. No. of papers presented in conferences/seminars by the faculty members:**00**
- IV. No. of awards to faculty members: 00
- V. No. of Patents: **02** – Annexure II
- VI. No of Invited talk delivered: 00
- VII. No. of FDP/ Workshop Attended **16**– Annexure III
- VIII. No. of Events Organized **06**– Annexure IV

Head

Annexure I

Paper Published in journal

1. Ashish Dhamanda, Arunesh Dutt, "Dynamic Response of Multi Area Load Frequency Control through Different Computational Techniques", Indian Journal of Science and Technology Year: 2022, Volume: 15, Issue: 25, Pages: 1264-1273 DOI:10.17485/IJST/v15i25.155, ISSN:- 0974-68462.
2. Brijesh kumar, Kanwarjit Singh Sandhu, Rahul Sharma "ANN Control for Improved Performance of Wind Energy System Connected to Grid" DOI: 10.15598/aeee.v20i4.4474.
3. Brijesh kumar, Kanwarjit Singh Sandhu, Rahul Sharma "Comparative Analysis of Control Schemes for DFIG-Based Wind Energy System" J. Inst. Eng. India Ser. B (April 2022) 103(2):649–668 <https://doi.org/10.1007/s40031-021-00660-z>.

Annexure II

Patent Published

1. A Cloud computing enabled 5G wireless sensor network comprises IOT sensor for smart city implements. Published on 10/02/2023. Application no. 202311007184A. The Patent office Journal No. 06/2023 by Mr. Brijesh Kumar, Mr. Yogesh Kumar.
2. Republic of south Africa granted a patent in respect of an invention describe and claimed in complete specification deposited at the patent office under the number 2022/08579 by Mr. Gajendra Singh Rawat.

Annexure III

FDP/Workshop Attended

1. Mr. Gajendra Singh Rawat participated in the "Student Induction Program" at Gurukula Kangri (Deemed to be University) Haridwar during 15-25 Nov 2022.
2. Mr. Yogesh Kumar attended a workshop on "Universal Human Values" by AICTE during 16/01/2023 to 20/01/2023.
3. Mr. Yogesh Kumar attended a workshop on "Teaching and Learning Methods in Science and Technology" held at FET, GK(DU), Haridwar.
4. Mr. Brijesh Kumar participated in the "Student Induction Program" at Gurukula Kangri (Deemed to be University) Haridwar during 15-25 Nov 2022.
5. Mr. Gaurav Kumar participated in the "Student Induction Program" at Gurukula Kangri (Deemed to be University) Haridwar during 15-25 Nov 2022.
6. Mr. Ashish Dhamanda participated in the "Teaching and Learning methods in Science & Technology" at Gurukula Kangri (Deemed to be University) Haridwar on January 09, 2023.
7. Mr. Ashish Dhamanda participated in the "National Workshop on Research for researchers organised by department of computer science and engineering and technology" at Gurukula Kangri (Deemed to be University) Haridwar on 27 Feb, 2023.
8. Mr. Ashish Dhamanda participated in one week workshop on "Data Analysis using advanced mathematical Tools" organised by department of applied science FET, Gurukula Kangri (Deemed to be University) Haridwar on 13 March 2023 to 18 March 2023.
9. Mr. Ashish Dhamanda participated in the "Advanced Material Characterization Technique" organized by the Department of Metallurgical Engineering, School of engineering, OPJU Raigarh on date 7-11 Nov 2022.

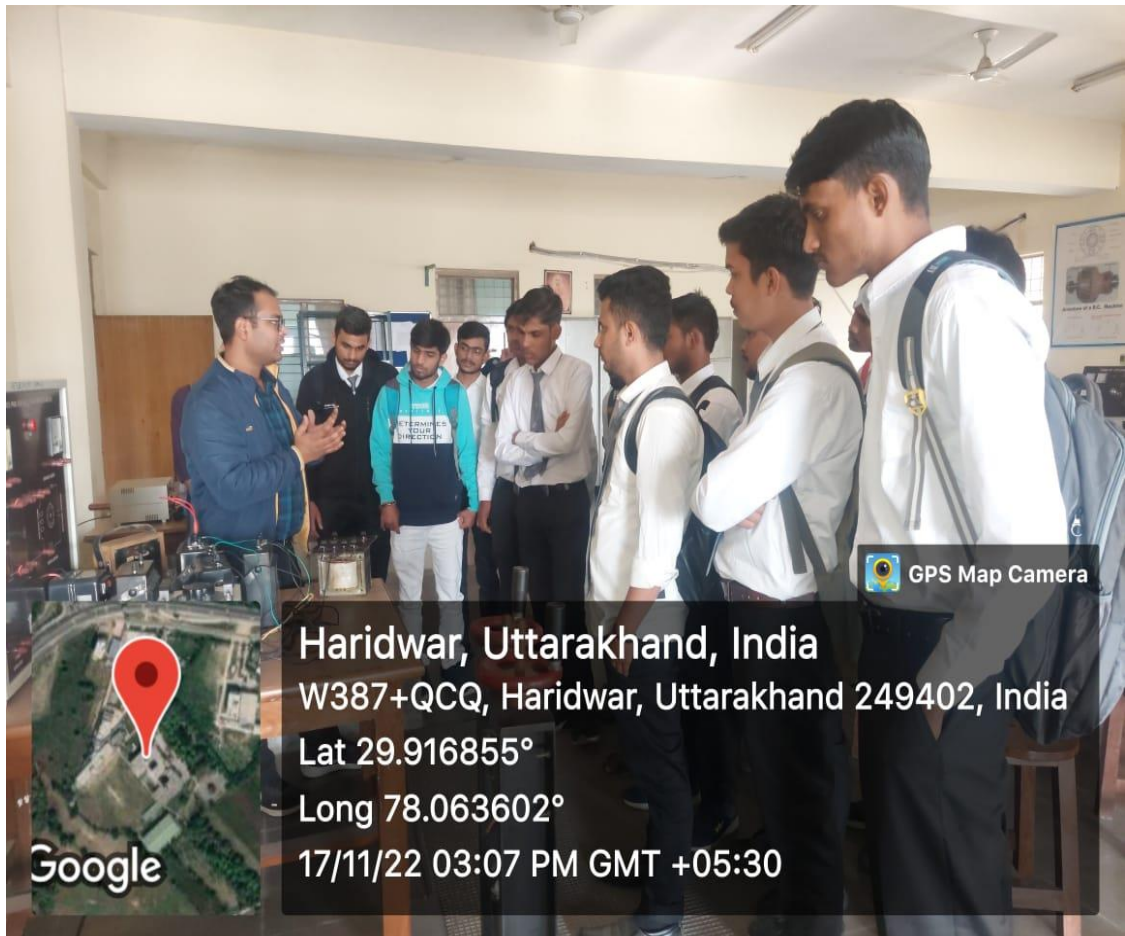
10. Mr. Brijesh Kumar has attended short term course on Control, Operation and Management of Renewable of Energy Integrated power system organised by Department of Electrical Engineering NIT Kurukshetra during 23-27 June 2023.
11. Mr. Ashish Dhamanda participated in the “Academic Leadership from 2022-09-19-2022-09-24 to 2022-09-26 at GURUKULA KANGRI VISHWAVIDYALAYA HARIDWAR.
12. Mr. Ashish Dhamanda participated in the “Student Induction Program” at Gurukula Kangri (Deemed to be University) Haridwar during 15-25 Nov 2022.
13. Mr. Bipin kumar Nishad participated in the “Student Induction Program” at Gurukula Kangri (Deemed to be University) Haridwar during 15-25 Nov 2022.
14. Mr. Bipin kumar Nishad has attended short term course on Control, Operation and Management of Renewable of Energy Integrated power system organised by Department of Electrical Engineering NIT Kurukshetra during 23-27 June 2023.
15. Mr. Bipin kumar Nishad attended a workshop on “Teaching and Learning Methods in Science and Technology” held at FET, GK(DU), Haridwar.
16. Mr. Brijesh Kumar attended a workshop on “Teaching and Learning Methods in Science and Technology” held at FET, GK(DU), Haridwar.

Annexure IV

Event Organised

1. Department of Electrical Engineering organised One Week Student Induction Program on 15-25 November 2022 coordinated by all faculties of department of electrical engineering.





2. Department of Electrical Engineering organised a workshop on Sensitizing the youth about 3D printing Technology and its applications in uttarakhand under the aegis of Uttarakhand Science Education and Research Center (USERC) with the team of Techno Hub Laboratories, Dehradun on date on 26 November 2022 coordinated by Mr Gajendra Singh Rawat and Mr. Bipin Kumar Nishad.





3. Department of Electrical Engineering organised a workshop on a Capacity Building Workshop on Municipal Demand Side Management under the aegis of Uttarakhand Science Education and Research Center (USERC) with the team of Techno Hub Laboratories, Dehradun on date 05 December 2022 coordinated by Mr Gajendra Singh Rawat and Mr. Bipin Kumar Nishad.





4. A workshop on PLC and SCADA with the team of CETPA InfoTech Pvt. Ltd. organized by Department of Electrical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (deemed to be University) Haridwar on 13 April 2023 coordinated by Mr Gajendra Singh Rawat and Mr. Bipin Kumar Nishad.



5. A workshop organized on electronics devices and its applications for diploma student department of electrical engineering in collaboration with department of electronics engineering, Faculty of Engineering and Technology, Gurukula Kangri (deemed to be University) Haridwar on 18

April 2023 coordinated by Dr. Vipul Sharma, Mr. Gajendra Singh Rawat and Mr. Sanjay Verma.



6. An industrial visit to Hindustan Natural Glass, Rishikesh is being organized by department of Electrical Engineering Faculty of Engineering and Technology on

05/06/2023 coordinated by Mr Yogesh Kumar, Mr. Brijesh Kumar and Mr. Gaurav Kumar.

