

Report on Workshop on Electrical Wiring & LED Designs

1. Introduction

The Department of Electrical Engineering, Faculty of Engineering and Technology, **Gurukula Kangri (Deemed to be University)**, Haridwar, successfully organized a **Workshop on “Electrical Wiring & LED Designs”** on **13 March 2026 at 11:30 AM** in the Electrical Engineering Student Laboratory.

The objective of this workshop was to provide students with practical exposure to electrical wiring techniques and the basic principles of LED design and installation. In the field of electrical engineering, practical understanding is essential for developing technical competence. Therefore, the department organized this workshop to bridge the gap between theoretical learning and real-life technical applications.

The workshop was conducted under the guidance of **Gajendra Singh Rawat**, Head of the Department of Electrical Engineering, and was co-coordinated by **Lokesh Bhardwaj**, Assistant Professor in the department.

2. Objectives of the Workshop

The primary objectives of the workshop were:

- To provide students with practical knowledge of electrical wiring systems.
- To introduce students to different wiring techniques used in residential and commercial electrical installations.
- To demonstrate the design and practical implementation of LED lighting systems.
- To enhance students’ understanding of electrical safety standards and precautions.
- To develop hands-on technical skills among students.

The workshop was **compulsory for Diploma students**, and their attendance was recorded as part of their academic coursework. Additionally, the workshop was recommended for **First Year B.Tech. Electrical Engineering students**, as it provided them with fundamental practical knowledge relevant to their academic curriculum.

3. Technical Session and Demonstrations

The technical session of the workshop was conducted by **Tarun Gupta**, who served as the **Technical Expert** for the event. During the session, he delivered an informative lecture and provided live demonstrations of various electrical wiring techniques.

Mr. Gupta explained the fundamentals of electrical wiring, including different types of wiring systems commonly used in residential and industrial applications. He demonstrated the installation of electrical circuits, switchboards, and connections used in electrical wiring.

A significant portion of the workshop was dedicated to the practical demonstration of **LED lighting systems**. Students were shown how LED circuits are designed and connected efficiently to ensure energy efficiency and long-term reliability. The session also covered the advantages of LED lighting over traditional lighting systems, emphasizing energy conservation and cost efficiency.

Special attention was given to **electrical safety measures**, including proper insulation, circuit protection, safe handling of electrical equipment, and preventive measures to avoid electrical hazards.

4. Student Participation and Interaction

The workshop witnessed enthusiastic participation from students of the department. Since the workshop included live demonstrations and practical explanations, students actively engaged with the technical expert by asking questions and clarifying their doubts.

The interactive nature of the workshop enabled students to better understand the practical aspects of electrical wiring and LED circuit design. Many students expressed that observing real-time demonstrations significantly improved their understanding of concepts that they had previously studied only in theory.

5. Support from Faculty Members

The successful organization of the workshop was made possible through the support and active participation of the faculty members of the Department of Electrical Engineering.

Faculty members present during the workshop included:

- **Brijesh Kumar**
- **Yogesh Kumar**
- **Aviral Awasthi**
- **Gaurav Kumar**
- **Ashish Dhamandha**

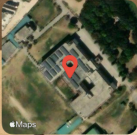
They extended their support in organizing the workshop and guided students throughout the practical sessions. Their presence contributed significantly to the smooth conduct and overall success of the event.

6. Conclusion

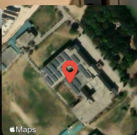
The workshop on **Electrical Wiring & LED Designs** proved to be highly beneficial for the students of the Department of Electrical Engineering. It provided a valuable opportunity for students to gain hands-on experience and understand the practical implementation of electrical wiring systems and LED technologies.

Such workshops play an important role in enhancing students' technical capabilities and preparing them for real-world engineering applications. The Department of Electrical Engineering remains committed to organizing similar practical learning activities in the future to promote skill development and industry-oriented education among students.

The department expressed its sincere gratitude to the technical expert, faculty members, and participating students for their cooperation and enthusiastic participation in making the workshop a successful academic event.



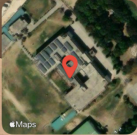
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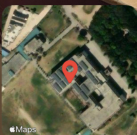
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Electrical Wiring & LED Designs

Venue :- NSH

B.tech 2nd year [EE]

S.NO	Name	Roll No	Signature
1.	Ayush Gupta	246330007	<u>Ayush Gupta</u>
2.	Harsh	246330012	<u>Harsh</u>
3.	Vansh	246330025	<u>Vansh</u>
4.	Amrit Raj	246330004	<u>Amrit Raj</u>
5.	Aditya Kumar	246330002	<u>Aditya Kumar</u>
6.	Ayush Dobhal	256332004	<u>Ayush</u>
7.	Yashvardhan Shandige	256332003	<u>Yash</u>
8.	Jashwanth Chandra	246330009	<u>Jashwanth</u>
9.	Vansh Saini	246330026	<u>Vansh Saini</u>
10.	Ankur Bhatt	246330005	<u>Ankur Bhatt</u>
11.	Saransh Patel	246330022	<u>Saransh Patel</u>
12.	Harsh Kumar	246330013	<u>Harsh</u>
13.	Rajiv Singh	246330021	<u>Rajiv Singh</u>
14.	NAMAN KUMAR DIXIT	246330016	<u>Naman</u>
15.	Abhishek Kumar	256332001	<u>Abhishek</u>
16.	Shishupal Kumar	246330023	<u>Shishupal</u>
17.	B. Dhansh	246330008	<u>B. Dhansh</u>
18.	Dhruv Pathak	256332005	<u>Dhruv</u>

"ELECTRICAL WIRING & LED DESIGNS"

Venue:- NSH

Diploma 1st year.

<u>S.No</u>	<u>Name</u>	<u>Roll no</u>	<u>Signature</u>
1	Aayush	256786003	Aayush Kumar
2	Tarun	256991013	Tarun Kumar
3	Shivam Lakhera	256991012	Shivam L
4	Aniket Goud	256991002	Aniket
5	Ayush sharma	256786006	Ayush
6	Aadarsh Kumar	256786001	Aadarsh
7	Miranshu Thakur	256991006	
8	Dev KOMAR	256991004	Dev
9	Shreshth Pathak	256991011	Shreshth
10	Vinayak GUPTA	256786005	Vinayak
11	Yash Aadarsh	256991015	
12	Rounak Yadav	256991018	Rounak
13	Rhitik Singh	256991008	Rhitik
14	Harit Rai	256991005	Harit
15	Sahil Soni	256991010	Sahil
16	Aayush Kumar	25627911	Aayush Kumar

Electrical wiring & LED Designs

Venue:- NSH








Diploma 2nd year

S.No	Name	Roll No	Signature
1	Ashish Saroj	246991009	<u>Ashish</u>
2	Piyush Thakur	246991005	<u>Piy</u>
3.	Ishank Sharma	256993004	<u>Ishank Sharma</u>

"ELECTRICAL WIRING & LED DESIGNS"

Venue: NSH

Diploma 3rd year

<u>S.No</u>	<u>Name</u>	<u>Roll no</u>	<u>Signature</u>
1	Priyanshu Singh	236991007	
2	Anant.giri	246993001	
3	Shriyansh Gawa	236 991005	
4	ABHINAV BHATIA	236941001	
5	Anirant Singh Balyan	236991004	
6	Tajinder Singh	236991003	
8	Abhinav Kumar	236991002	



" ELECTRICAL WIRING & LED DESIGNS "

Venue:- NSH
G.Tech 1st year ee+ece

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01	Aman Bhadani	256330019	Aman Bhadani
02	Shafiq Ahmed	256330001	Shafiq Ahmed
03	Krishnakumar Babu	256330022	Krishnakumar Babu
04	Shubh Chandra	256320091	S.Chandra
05	Ajaya Chaudhary	256330021	Ajaya
06	Rudra Raut Shykh	256330032	Rudra Raut Shykh
07	Masishankar	256330015	Masishankar
08	Ammal Rath	256330007	Ammal
09	Prem Hans	256330043	Prem Hans
10	Himanshu	256330044	Himanshu
11	VIVEK	256330041	VIVEK
12	Gaokam Thakur	256330108	Gaokam
13	Anurag Kumar	256330009	Anurag
14	Aman Chaudhan	256330010	Aman
15	Pavitar Raj	256330011	Pavitar Raj
16	Ranjana Kumar	256330027	Ranjana Kumar
17	Ujjwal Mishra	256330038	Ujjwal
18	M.G. Anwar Shafiq	256330023	Anwar
19	Shreyas Kundh	256330034	Shreyas
20	Kaishav Kumar Kaunti	256330021	Kaishav
21	Sonu Kumar	256320094	Sonu Kumar
22	Aman	256330004	Aman
23	Himanshu Mallick	256330018	Himanshu
24	Harsh	256330019	Harsh
25	Siddhant Raj	256320091	Siddhant
26	Vasu Varsh	256320103	Vasu Varsh

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28. Sudhanshu K. Fildhi 256320007

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30. Zubair Khan 256330049

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