



VISIT TO GOVT.POLYTECHNIC, HAMIRPUR

- On 26th September 2025, **Professor Neelam Guleria** successfully organized a one-day educational visit to Government Polytechnic College, Hamirpur. The event was designed to enhance the practical understanding and interdisciplinary exposure of students. A total of 35 in which 33 students from the Physics and Computer Science majors of BSC 2nd year participated enthusiastically in this academic initiative.
- The workshop aimed to bridge the gap between theoretical learning and real-world applications, offering students an opportunity to interact with faculty and technical experts, explore lab facilities, and gain insights into the latest technological advancements. The visit proved to be an enriching experience for all attendees, fostering both academic curiosity and professional development.

INTRODUCTION



- This report highlights our participation in a technical workshop conducted at Government Polytechnic Hamirpur (H.P.). The workshop was designed to provide hands-on industrial training in **Mechanical and electrical skill components**. The Mechanical skill cover **casting, welding, lathe machine, shaper and milling machine, shaper and milling machine, and cutting of metal sheets**, while the Electrical skills include **Single and three phase motor electrical protection devices and basic wiring including star and delta connections**. The experience gave us valuable exposure to practical applications and enhanced our learning beyond classroom teaching.



1. WORKSHOP EXPERIENCES

- During my visit to the Polytechnic, I had the opportunity to attend several workshops across different technical domains. These included:
 - **a. Electrical Workshop**
 - Learned about electrical circuits, wiring, and basic electrical components.
 - Gained hands-on experience with practical electrical setups.
 - **b. Sheet Metal Workshop**
 - Explored techniques for cutting, shaping, and joining sheet metal.
 - Understood the tools and machinery used in sheet metal fabrication.
 - **c. Welding Workshop**
 - Observed and practiced different welding techniques, including arc welding and gas welding.
 - Learned about safety procedures and the importance of precision in welding.
 - **d. Casting Workshop**
 - Learned about mold preparation and various casting methods.
 - Gained insight into how molten metal is poured into molds to create solid structures.

ELECTRICAL EXPERIENCE:

- Under the guidance of **Mr. Ashok Kumar**, we gained valuable insights into electrical systems, circuit connections, and essential safety measures. He explained the fundamentals of electrical wiring, demonstrated the correct handling of tools, and emphasized the importance of safety while working with live circuits. His detailed instructions and practical demonstrations helped us clearly understand how theoretical concepts are applied in real-world electrical setups.



SHEET CUTTING EXPERIENCE:

- Under the mentorship of **Mr. Amit Sharma**, we received practical exposure in cutting metal sheets using precision tools. He guided us on the proper methods of sheet handling, explained the importance of accuracy in cutting angles, and demonstrated safe and efficient techniques. His instructions helped us understand how sheet cutting is applied in industrial use cases, ensuring both quality and safety in the process.

WELDING EXPERIENCE

- Guided by **Mr Nek Ram**, we observed and practiced joining metal pieces using different welding techniques. He demonstrated various welding methods, explained their industrial applications, and ensured we followed proper safety protocols such as wearing protective gear and maintaining adequate ventilation. His guidance gave us confidence in handling welding equipment and understanding the importance of precision and safety in the welding process.



CASTING EXPERIENCE:

- With the support and guidance of **Mr. Sunil Kumar**, we were introduced to the fascinating process of casting. He explained how molds are prepared and demonstrated the method of pouring molten metal into them to form solid structures. Step by step, he highlighted the importance of precision, cooling, and finishing in achieving quality results. His instructions gave us a clear understanding of the casting process and its significance in modern manufacturing.



EXPERIENCES

- Visiting these workshops was truly a memorable and enriching experience. Along with my classmates, We had the opportunity to explore different technical domains under the expert guidance of our instructors. Each session was filled with practical learning, whether it was working with electrical systems, handling sheet cutting tools, practicing welding, or observing the casting process. The instructors not only shared their technical expertise but also encouraged us to ask questions, experiment, and learn by doing. Collaborating with classmates in these hands-on activities made the workshop even more engaging and enjoyable. Overall, it was a great blend of learning, teamwork, and guidance that left a lasting impact on all of us.





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- We thanked faculty members of gov. Polytechnic College Hamirpur for their guidance and support during the workshops. A special thanks to **Mr. Arvind Katoch (HOD of mechanical), Mr. Amit Sharma and Mr Rajesh (HOD of electrical)** for introducing us to all the workshops and instructors, and for being a great help throughout the day. Their guidance made the learning experience smooth, informative, and truly enjoyable.



THANK YOU

We sincerely thank our Principal, **Mr. Pramod Patiyal**, for providing us with this wonderful opportunity to attend the workshop. We are also grateful to the Principal of Government Polytechnic Hamirpur, **Mr. Chander Shekhar**, for warmly receiving us and allowing us to learn and explore various technical domains in his college. We would like to extend our heartfelt thanks to all the faculty members who guided us throughout the workshop, sharing their knowledge and expertise.

A special thanks to **Professor Neelam Guleria** for organizing and supporting us throughout the day, making the experience smooth and encouraging. Their collective guidance and support made this workshop possible and truly valuable for our academic growth.

Report Compiled By
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