

**Guru Nanak College, Sri Muktsar Sahib**  
**Activities Report Performa**  
**Session: 2024-25**  
**Name of the Department: Physics**  
**Sponsored by DBT, New Delhi (Under Star College Scheme)**

- 1. Name of the Activity Organized:** Hands on Training Workshop “ CRO and DSO”
- 2. Date and Venue of the Activity:** October 9-10 2024,Guru Nanak College, Muktsar
- 3. Name of the Resource Person, Designation and Address:** Dr. Asha Arora ,Assisstant Professor in Physics Dev Smaj College For Women at Ferozpur.
- 4. Objective:** The objective of this workshop is to provide participants with a comprehensive understanding of the fundamentals, operation, and practical applications of both the Cathode Ray Oscilloscope (CRO) and the Digital Storage Oscilloscope (DSO). This hands-on training will help attendees build essential skills in using oscilloscopes for signal analysis, troubleshooting, and advanced measurements in various scientific and engineering fields. This workshop will enable student to
  - Understand oscilloscope fundamentals
  - Signal Analysis and measurement techniques
  - Practical Applications
  - Understanding Calibration
- 5. Number and Details of the Participants/ Beneficiaries:** Total 120 students participated in Extension Lecture. Following classes participated: B.Sc. I (N.M.), B.Sc. II (N.M.), B.Sc. III (N.M.) and M.Sc. (Physics) from Guru Nanak College Muktsar. Students from Dev Samaj College, Ferozpur also participated in this workshop
- 6. Registration/Feedback link:** Nil
- 7. Video/You-tube Link:** Nil
- 8. Outcome of the Activity:** Department of Basic Sciences Guru Nanak College, Sri Muktsar Sahib organized a DBT sponsored two days workshop on CRO and DSO under star college scheme of DBT, New Delhi on October 9-10,2024. Dr. Asha Arora gave a lecture on CRO and DSO for all students of B.Sc (N.M).She told the students about uses of CRO AND DSO. She focused on how DSO is valuable in modern electronics for their versatility, precision and ability to analyze complex and high speed signal and CRO useful in diagnosing issues in electronic circuits. Dr. Asha Arora provided hands on training on CRO and DSO for B.SC final year students. Dr. Rana Baljinder Kaur congratulated DBT HOD, Dr. Anita Rani, and all the

members of the organizing team. Dr. Anita Rani, HOD, Department of Basic sciences, presented a vote of thanks to the resource person and all the organizing team members. At the end students have gained a solid understanding of how to operate and troubleshoot both CRO and DSO enabling them to apply these instruments effectively in their respective fields.

**9. Attach Geo Tagged Photographs :**







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The PG Department of Physics organized a two-day hands-on training workshop on Cathode Ray Oscilloscope (CRO) and Digital Storage Oscilloscope (DSO) under the Star College Scheme on 9th-10th October 2024. Dr. Asha Arora, Assistant Professor of Physics from Dev Samaj College for Women, Ferozpur, served as the resource person for the event.

On the first day, Ms. Rajveer Kaur, Assistant Professor of Physics, welcomed the guests. Dr. Asha Arora delivered an insightful talk on CRO, explaining each component in detail. This was followed by a training session for the **B.Sc. I (Non-Medical)** students, who showed great interest in learning about the device.

The second day featured a talk on DSO, along with training sessions on both DSO and CRO for the **B.Sc. II and III (Non-Medical)** students. Dr. Arora also discussed the applications of CRO in various fields, including healthcare.

Dr. Anita Rani, Head of the Physics Department, concluded the workshop with a vote of thanks to the speaker. Principal Dr. Neena Mehta expressed her gratitude to the resource person and congratulated the department for organizing such an enriching event.



Write a comment...





**10. Members of the Organizing Committee:** Dr. Anita Rani, , Ms. Rajveer Kaur, Ms. Sandeep Kaur and Ms.Jeevanjot Kaur

**11. Name of the Department Coordinator:** Dr. Anita Rani

**Dr. Anita Rani**  
**DBT Program Coordinator**

**Dr. Rana Baljinder Kaur**  
**Principal**

