

Guru Nanak College, Sri Muktsar Sahib

Activities Report Performa

Session: 2024-25

Name of the Department: Department of Physics

Sponsored by DBT, New Delhi (Under Star College Scheme)

1. Name of the Activity Organized: Hands on Training Workshop ON ELECTRONICS PROJECTS.

GURU NANAK COLLEGE
Tibbi Sahib Road, Sri Muktsar Sahib
Affiliated to Panjab University, Chandigarh Governed By: S.G.P.C. Sri Amritsar

NAAC IQAC G2

P.G. DEPARTMENT OF PHYSICS
ORGANISES
**HANDS ON TRAINING WORKSHOP ON
ELECTRONICS PROJECTS**
FOR U.G. STUDENTS OF NON-MEDICAL
09:00 a.m. to 03:00 p.m.

S. SUKHWINDER SINGH
CO-ORDINATOR, NIERT, PATIALA

FROM 09TH - 14TH SEPTEMBER 2024, VENUE: PHYSICS LAB, SCIENCE BLOCK, GNC, MKT.

Dr. Anita Rani (HOD)
+91 89684-65114

Dr. Rana Baljinder Kaur
Principal

2. Date and Venue of the Activity: 9-14 september , UG Physics Lab, Guru Nanak College, Sri Muktsar Sahib

3. Name of the Resource Person, Designation and Address: Er. Sukhwinder Singh, Coordinator, National Institute of Electronics, Research and Training, Patiala

4. Objective: To enhance participants' understanding of key physics concepts by directly engaging with experiments and demonstrations.

2. Develop practical skills such as measurement, data collection, data analysis, and error handling, which are essential for conducting physics experiments.

5. Number and Details of the Participants/ Beneficiaries:

1) B.Sc. II (NM)

Sr. no	Name	Session	Branch	Project Name Done
1	Shiv Bajaj	2024-25	B.Sc. (Non medical)	IR Remote Control
2	Ramandeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
3	Karandeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
4	Simran	2024-25	B.Sc. (Non medical)	IR Remote Control
5	Harcharan singh	2024-25	B.Sc. (Non medical)	IR Remote Control
6	Manjinder kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
7	Tamanna	2024-25	B.Sc. (Non medical)	IR Remote Control
8	Payal	2024-25	B.Sc. (Non medical)	IR Remote Control
9	Payalrani	2024-25	B.Sc. (Non medical)	IR Remote Control
10	Arshdeep singh	2024-25	B.Sc. (Non medical)	IR Remote Control
11	Gurwinder singh	2024-25	B.Sc. (Non medical)	IR Remote Control
12	Manjot kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
13	Arshpreet kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
14	Jaspreet kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
15	Jashanpreet Singh	2024-25	B.Sc. (Non medical)	IR Remote Control
16	Sumanpreet kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
17	Chahat	2024-25	B.Sc. (Non medical)	IR Remote Control
18	Ramandeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
19	Rekha rani	2024-25	B.Sc. (Non medical)	IR Remote Control
20	Amreen kaur brar	2024-25	B.Sc. (Non medical)	IR Remote Control
21	Sania	2024-25	B.Sc. (Non medical)	IR Remote Control
22	Rajpreet singh	2024-25	B.Sc. (Non medical)	IR Remote Control
23	Sahibjeet Singh Dhillon	2024-25	B.Sc. (Non medical)	IR Remote Control
24	Krrish Arora	2024-25	B.Sc. (Non medical)	IR Remote Control
25	Arpan kumar	2024-25	B.Sc. (Non medical)	IR Remote Control
26	Simran kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
27	Harpreet Kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
28	Khushpreet kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
29	Simranjeet kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
30	Adarshnoor kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
31	Smile	2024-25	B.Sc. (Non medical)	IR Remote Control
32	Arshdeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control

33	Shivam	2024-25	B.Sc. (Non medical)	IR Remote Control
34	HussanPreet singh	2024-25	B.Sc. (Non medical)	IR Remote Control
35	Khushdeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
36	Robindeep kaur	2024-25	B.Sc. (Non medical)	IR Remote Control
37	Jaspreet Kaur	2024-25	B.Sc. (Non medical)	IR Remote Control

2) B.Sc. III (NM)

Sr. no	Name	Session	Branch	Project Name Done
1	Amitoj Singh Bhatti	2024-25	B.Sc. (Non medical)	Ab
2	Jashanpreet kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
3	Mehak watts	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap. alarm
4	Veerpal kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
5	Rupinder Kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
6	Mitali	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
7	Anmol	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
8	Monika Rani	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
9	Gaganpreet Kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
10	Harsamrendeeep Kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
11	Jashanpreet Kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
12	Charanjeet kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
13	Khushi	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
14	Kanchan	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.

15	Kashish	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
16	Amitoj kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
17	Jashanpreet kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
18	Mehak	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
19	Tanishka Bansal	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
20	Satwinder Kaur	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
21	Sukhmanjeet singh	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
22	Harmanjot Singh	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
23	Armaan singh	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.
24	Sameer kalra	2024-25	B.Sc. (Non medical)	Fire Alarm, Smart dustbin,Electronic water tap.

3) B.Sc. I (NM)

Sr. no	Name	Session	Branch	Project Name Done
1.	Harleen Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
2.	Navjot Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
3.	Anjali Sharma	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
4.	Sumit	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
5.	Simarjeet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
6.	Manga Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
7.	Devika	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
8.	Gurkamalpreet Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
9.	Simranjeet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator

10.	Sukhpreet Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
11.	Satnam Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
12.	Priya	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
13.	Anmol Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
14.	Anurag Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
15.	Anupriya Verma	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
16.	Pratham	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
17.	Jashandeep Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
18.	Asshpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
19.	Parneet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
20.	Karanveer Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
21.	Amritpal Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
22.	Champayalpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
23.	Manisha	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
24.	Ranveer Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
25.	Shabadjot Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
26.	Ankush Middha	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
27.	Manpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
28.	Sukhmanpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
29.	Navjot Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
30.	Rajveer Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
31.	Khushi	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator

32.	Simran Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
33.	Anmol Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
34.	Ripdamn Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
35.	Navjot Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
36.	Palak	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
37.	Jasmeen kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
38.	Jaspreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
39.	Mandeep Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
40.	Jashanpreet kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
41.	Ashveer Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
42.	Anuj	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
43.	Harpreet Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
44.	Arshdeep Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
45.	Anureet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
46.	Sehajpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
47.	Ravinderpal Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
48.	Komal	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
49.	Sukhman Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
50.	Yudhveer Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
51.	Hussanpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
52.	Nandini Girdhar	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
53.	Ravneet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator

54.	Satwinder Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
55.	Gursharandeep Singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
56.	Gurleen Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
57.	Anvait Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
58.	Vijay Brar	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
59.	Mehakpreet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
60.	Gurshan singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
61.	Lakakshi	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
62.	Simarjeet Kaur	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
63.	Ritu	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
64.	Neeru Bala	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
65.	Neelakshi	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
66.	Amritpal singh	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
67.	Parvish Kumar	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator
68.	Annanya	2024-25	B.Sc. (Non medical)	Mobile Protection,Water Level Indicator

6. Feedback by Students: nil

7. Video/You-tube Link:

<https://www.facebook.com/share/p/youWiUY83etnb9Hb/?mibextid=qi2Omg>

8. Outcome of the Activity: Hands on Training Workshop for Physics Practicals was a very good platform for students to themselves fabricate a circuit. Now they can easily repair home appliances, UPS batteries, LED's etc.

A total of 51 projects were made. The skills developed by students include:

- Problem solving skills
- Experimental skills
- Analytical skills
- Innovation

PROJECTS DONE:

- 1) Fire Alarm
- 2) Water level indicator
- 3) Mobile protector
- 4) Smart Dustbin
- 5) IR Remote control
- 6) Automatic Tap

9. Attach Geo Tagged Photographs:





Gnc Muktsar

9 Sep · 🌐

PG Department of Physics Hosts Hands-on Training Workshop on Electronics Projects

The Postgraduate Department of Physics organized a "Hands-on Training Workshop on Electronics Projects" from September 9 to 14, 2024, under the Star College Scheme of the Department of Biotechnology (DBT), New Delhi, Government of India. The workshop featured sessions led by subject expert Er. Sukhvinder Singh, who guided students through the creation of various electronic projects. The students from [B.Sc I](#) developed a working project focused on mobile protection, while [B.Sc III](#) students demonstrated their skills with Arduino board projects such as a smart dustbin, fire alarm, and automated plant watering system. The students showed great enthusiasm and actively participated in the workshop, gaining valuable practical experience. Principal Dr. Neena Mehta praised the efforts of Dr. Anita Rani, Head of the Department, and the faculty members for successfully organizing the workshop. She encouraged the department to continue hosting such events in the future to foster innovation and practical learning









Sri Muktsar Sahib, Punjab, India
FGP2+3WG, Tibbi Sahib Rd, Adarsh Nagar, Sri Muktsar Sahib, Punjab 152026, India
Lat 30.485531°
Long 74.501892°
09/09/24 12:05 PM GMT +05:30

GPS Map Camera



Sri Muktsar Sahib, Punjab, India
FGP2+3WG, Tibbi Sahib Rd, Adarsh Nagar, Sri Muktsar Sahib, Punjab 152026, India
Lat 30.485449°
Long 74.502283°
09/09/24 12:17 PM GMT +05:30

GPS Map Camera



GPS Map Camera



Sri Muktsar Sahib, Punjab, India
FGP2+3WG, Tibbi Sahib Rd, Adarsh Nagar, Sri Muktsar Sahib, Punjab 152026, India
Lat 30.485464°
Long 74.501761°
14/09/24 09:28 AM GMT +05:30



GPS Map Camera



Sri Muktsar Sahib, Punjab, India
FGP2+3WG, Tibbi Sahib Rd, Adarsh Nagar, Sri Muktsar Sahib, Punjab
152026, India
Lat 30.485525°
Long 74.501833°
14/09/24 09:21 AM GMT +05:30



 **GPS Map Camera**



Sri Muktsar Sahib, Punjab, India
FGP2+3WG, Tibbi Sahib Rd, Adarsh Nagar, Sri Muktsar Sahib, Punjab 152026, India
Lat 30.485426°
Long 74.501702°
14/09/24 02:12 PM GMT +05:30

Closing Ceremony of One-Week Hands-on Training Workshop on Electronic Projects

The closing ceremony of a one-week hands-on training workshop on electronic projects, organized by the Postgraduate Department of Physics under the Star College Scheme of DBT, New Delhi, was held from September 9-14, 2024. The workshop aimed to enhance practical skills in electronics among students and was a major success, with enthusiastic participation throughout.

During the prize distribution function, awards were presented to students based on their performance in the workshop. Best Performer Awards and Certificates of Appreciation were distributed. Additionally, students who secured the top three positions in the Panjab University Chandigarh exams for the session 2023-24 were honored with mementos.

Students from all classes shared their experiences during the workshop, expressing appreciation for the efforts and guidance provided by the subject expert, Er. Sukhvinder Singh, Head of the Department (HOD), and the entire faculty. They also requested the organization of similar events in the future to continue fostering practical learning.

The ceremony concluded with S. Manjit Singh Barkandi, Secretary of the Local Managing Committee, and Principal Dr. Neena Mehta, commending the dedication of the subject expert Er. Sukhvinder Singh, Dr. Anita Rani, HOD of Physics, and all faculty members. A vote of thanks was delivered



Gnc Muktsar

15 Sep · 🌐

The ceremony concluded with S. Manjit Singh Barkandi, Secretary of the Local Managing Committee, and Principal Dr. Neena Mehta, commending the dedication of the subject expert Er. Sukhvinder Singh, Dr. Anita Rani, HOD of Physics, and all faculty members. A vote of thanks was delivered by Dr. Anita Rani, marking the official end of the workshop.



Best Performers :-

Best performers	B.Sc. I (N.M.)	B.Sc. II (N.M.)	B.Sc. III (N.M.)
1.	Simarjeet Kaur	Shivam	Harsamrendeeep Kaur
2.	Sukhman Kaur	Arpan Kumar	Gagandeep Kaur
3.	ShabadjotSingh	Arshdeep Kaur	Jashanpreet Kaur

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

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

Dr. Anita Rani
DBT Program Coordinator

Dr. Rana Baljinder Kaur
Principal