



**Miranda House
University of Delhi**

**Department of Physics
Departmental Annual report-3A
2023-2024
Departmental Activities: Curriculum and
Beyond**

Index

- A.1 Students undertaking project work/internship/field work as a part of experiential learning component of coursework
- A.2 Students undertaking project work/field work/internship (beyond the requirement of coursework)
 - A.2.1 Students pursuing project work under DSKC summer Workshop
 - A.2.2 Summer workshops/ projects completed successfully by students at other Institutions



**Miranda House
University of Delhi**

Academic year: 2023-2024 (From 1.7.2023 to 30.6.2024)

Part A.1

Students undertaking project work/internship/field work as a part of experiential learning component of coursework

Programme: UGCF 2022, Skill Enhancement Course (SEC)

Semester III

SEC paper: PCB Designing and Fabrication

Paper Code: 2516000001

Faculty (Project Mentor): Dr. Geeta Rani and Dr. Vineeta

S. No.	Roll no.	Name of the Student	Course Name	Project Title	Supervised by
1	2022/369	Grace Lamneihat Kipgen	B.Sc (Hons) Physics	Stereo- audio amplifier	Dr. Geeta Rani & Dr. Vineeta
2	2022/44	Aditi Rawat	B.Sc (Hons) Physics	Stereo- audio amplifier	Dr. Geeta Rani & Dr. Vineeta
3	2022/412	Huidrom Jheelina	B.Sc (Hons) Physics	Stereo- audio amplifier	Dr. Geeta Rani & Dr. Vineeta
4	2022/688	Namrata Kumari	B.Sc (Hons) Physics	Radio-frequency detector	Dr. Geeta Rani & Dr. Vineeta
5	2022/1564	Anita Kumari	B.Sc (Hons) Physics	Radio-frequency detector	Dr. Geeta Rani & Dr. Vineeta
6	2022/631	Meenakshi S	B.A (Multidisciplinary)	Radio-frequency detector	Dr. Geeta Rani & Dr. Vineeta



Miranda House University of Delhi

7	2022/587	Lipi Singh	B.Sc (Hons) Physics	IOT key chain holder	Dr. Geeta Rani & Dr. Vineeta
8	2022/1643	Sakshi Sihag	B.Sc Life Science	IOT key chain holder	Dr. Geeta Rani & Dr. Vineeta
9	2022/480	Kangleikhonbi Maibam	B.Sc (Hons) Physics	IOT key chain holder	Dr. Geeta Rani & Dr. Vineeta
10	2022/364	Geetanjali	B.Sc (Hons) Physics	Fire Detection system	Dr. Geeta Rani & Dr. Vineeta
11	2022/326	Diya bharti	B.Sc (Hons) Physics	Fire Detection system	Dr. Geeta Rani & Dr. Vineeta
12	2022/679	Muskan Nehra	B.Sc (Hons) Physics	Fire Detection system	Dr. Geeta Rani & Dr. Vineeta
13	2022/154	Anshi Yadav	B.Sc (Hons) Physics	Light activated night lamp	Dr. Geeta Rani & Dr. Vineeta
14	2022/122	Anjali	B.Sc (Hons) Physics	Light activated night lamp	Dr. Geeta Rani & Dr. Vineeta
15	2022/474	Kanak Bindal	B.Sc (Hons) Physics	Light activated night lamp	Dr. Geeta Rani & Dr. Vineeta
16	2022/58	Aishwarya S Sekhar	B.Sc (Hons) Physics	AC voltage detector	Dr. Geeta Rani & Dr. Vineeta
17	2022/11	Aarju	B.Sc (Hons) Physics	AC voltage detector	Dr. Geeta Rani & Dr. Vineeta
18	2022/514	Khushi	B.Sc (Hons) Physics	AC voltage detector	Dr. Geeta Rani & Dr. Vineeta
19	2022/1370	Chhaya Gautam	B.Sc (Hons) Physics	Water level detector	Dr. Geeta Rani & Dr. Vineeta
20	2022/383	Harshita Bansal	B.Sc (Hons) Physics	Water level detector	Dr. Geeta Rani & Dr. Vineeta
21	2022/691	Nancy Kumari	B.Sc (Hons) Physics	Water level detector	Dr. Geeta Rani & Dr. Vineeta



Miranda House University of Delhi

22	2022/509	Khushboo Gangwar	B.Sc (Hons) Physics	Water level detector	Dr. Geeta Rani & Dr. Vineeta
23	2022/640	Mehak Rani	B.Sc (Hons) Physics	Clap switch	Dr. Geeta Rani & Dr. Vineeta
24	2022/617	Manshi Nehra	B.Sc (Hons) Physics	Clap switch	Dr. Geeta Rani & Dr. Vineeta
25	2022/25	Aastha Sharma	B.Sc (Hons) Physics	Clap switch	Dr. Geeta Rani & Dr. Vineeta
26	2022/467	Kajal	B.Sc (Hons) Physics	Touch sensor	Dr. Geeta Rani & Dr. Vineeta
27	2022/1493	Samriddhi Upadhyay	B.A (Hons) Geography	Touch sensor	Dr. Geeta Rani & Dr. Vineeta
28	2022/1524	Manshi	B.Sc (Hons) Physics	Not done any project (Appeared in final exam only)	Dr. Geeta Rani & Dr. Vineeta
29	2022/515	Khushi	B.Sc (Hons) Physics	Lit in dark	Dr. Geeta Rani & Dr. Vineeta
30	2022/115	Anika	B.Sc (Hons) Physics	Lit in dark	Dr. Geeta Rani & Dr. Vineeta
31	2022/587	Ekta	B.Sc (Hons) Physics	Lit in dark	Dr. Geeta Rani & Dr. Vineeta



**Miranda House
University of Delhi**

Programme: UGCF 2022, Skill Enhancement Course (SEC)

Semester IV

SEC paper: PCB Designing and Fabrication

Paper Code: 251600001

Faculty (Project Mentor): Dr. Geeta Rani and Dr. Vineeta

S. No.	Name of the Student	Roll no. (College)	Course	Project Title	Supervised by
1	Riya yadav	2022/951 (Miranda House)	B.Sc.(H) Physics	Mobile detector circuit	Dr. Geeta Rani & Dr. Vineeta
2	Sudiksha	2022/1170(Miranda House)	B.Sc.(H) Physics	Mobile detector circuit	Dr. Geeta Rani & Dr. Vineeta
3	Udeshna	2022/1256(Miranda House)	B.Sc.(H) Physics	Mobile detector circuit	Dr. Geeta Rani & Dr. Vineeta
4	Smruti Mohapatra	2022/1124(Miranda House)	B.Sc.(H) Physics	Electric Field detector	Dr. Geeta Rani & Dr. Vineeta
5	Vimlesh	2022/1303(Miranda House)	B.Sc.(H) Physics	Electric Field detector	Dr. Geeta Rani & Dr. Vineeta
6	Simran	2022/1110(Miranda House)	B.Sc.(H) Physics	Electric Field detector	Dr. Geeta Rani & Dr. Vineeta
7	Preeti	2022/835(Miranda House)	B.Sc.(H) Physics	Electronic eye control security system	Dr. Geeta Rani & Dr. Vineeta
8	Manju	2022/614(Miranda House)	B.Sc.(H) Physics	Electronic eye control security system	Dr. Geeta Rani & Dr. Vineeta
9	Shikha	2022/1058(Miranda House)	B.Sc.(H) Physics	Electronic eye control security system	Dr. Geeta Rani & Dr. Vineeta



Miranda House University of Delhi

		da House)	Physics	security system	
10	Rupashi Pal	2022/1570(Miranda House)	B.Sc.(H) Physics	Smoke detector	Dr. Geeta Rani & Dr. Vineeta
11	Ujjwal	2022/1257(Miranda House)	B.Sc.(H) Physics	Smoke detector	Dr. Geeta Rani & Dr. Vineeta
12	Nitika	2022/750(Miranda House)	B.Sc.(H) Physics	Smoke detector	Dr. Geeta Rani & Dr. Vineeta
13	Priya Burdak	2022/851(Miranda House)	B.Sc.(H) Physics	All in one testor	Dr. Geeta Rani & Dr. Vineeta
14	Shruti Prasad	2022/1098(Miranda House)	B.Sc.(H) Physics	All in one testor	Dr. Geeta Rani & Dr. Vineeta
15	Varsha	2022/1286(Miranda House)	B.Sc.(H) Physics	All in one testor	Dr. Geeta Rani & Dr. Vineeta
16	Priti	2022/848(Miranda House)	B.Sc.(H) Physics	Sensor based water tap	Dr. Geeta Rani & Dr. Vineeta
17	Purnima	2022/871(Miranda House)	B.Sc.(H) Physics	Sensor based water tap	Dr. Geeta Rani & Dr. Vineeta
18	Umang	2022/1260(Miranda House)	B.Sc.(H) Physics	Sensor based water tap	Dr. Geeta Rani & Dr. Vineeta
19	Khushi	22036567135(Kirori mal House)	B.Sc.(H) Physics	soil moisture detector	Dr. Geeta Rani & Dr. Vineeta
20	Manvi Sood	22036567100(Kirori Mal House)	B.Sc.(H) Physics	soil moisture detector	Dr. Geeta Rani & Dr. Vineeta
21	Pragya	2022/815(Miranda House)	B.Sc.(H) Physics	soil moisture detector	Dr. Geeta Rani & Dr. Vineeta
22	Prachi	2022/803(Miranda House)	B.Sc.(H) Physics	Music operated LED	Dr. Geeta Rani & Dr. Vineeta
23	Payal	2022/781(Miranda House)	B.Sc.(H) Physics	Music operated LED	Dr. Geeta Rani & Dr. Vineeta



Miranda House University of Delhi

		a House)	Physics		
24	Sachi	2022/1442(Miranda House)	B.Sc.(H) Physics	Piezoelectric Power generator	Dr. Geeta Rani & Dr. Vineeta
25	Shruti Kaira	2022/1096(Miranda House)	B.Sc.(H) Physics	Piezoelectric Power generator	Dr. Geeta Rani & Dr. Vineeta
26	Shreya Garg	2022/1084(Miranda House)	B.Sc.(H) Physics	Motion sensor light	Dr. Geeta Rani & Dr. Vineeta
27	Tejaswita	2022/1239(Miranda House)	B.Sc.(H) Physics	Motion sensor light	Dr. Geeta Rani & Dr. Vineeta
28	Prakriti	2022/820(Miranda House)	B.Sc.(H) Physics	Motion sensor light	Dr. Geeta Rani & Dr. Vineeta

Teacher-in-charge
Department of Physics
Miranda House
University of Delhi
DELHI-110007



**Miranda House
University of Delhi**

Programme: UGCF 2022, Value Addition Course (VAC)

Semester I

VAC paper: Digital Empowerment

Paper Code: 6967001004

**Faculty (Project Mentor): Dr. Nirmala Saini, Dr. Divakar Pathak, Dr. Nisha Rani,
Ms. Zarina Banoo and Dr. Nitish**

S. No.	Name	Roll Number	Course	Project Title
1	Kartika	2023/548	B.A (Hons) Economics	E-Commerce platform
2	Bhavya Goel	2023/272	B.A (Hons) Economics	
3	Sweta Dhaka	2023/1365	B.Sc (Hons) Physics	
4	Poorva Shaktawat	2023/920	B.Sc (Physical Science) with Computer Science	
5	Pragya Deshwal	2023/934	B.Sc (Physical Science) with Computer Science	Public Utility Portals of government of India: Health, Education and RTI
6	Isha Singh	2023/470	B.Sc (Physical Science) with Computer Science	
7	Ojaswini Upmanyu	2023/872	B.Sc (Hons) Physics	
8	Nikita Tewari	2023/840	B.Sc (Hons) Physics	
9	Sneh	2023/1264	B.Sc (Hons) Physics	Vision of Digital India
10	Sonia	2023/1296	B.Sc (Hons) Physics	
11	Sonia Das	2023/1297	B.Sc (Hons) Physics	
12	Palak Thareja	2023/876	B.Sc (Hons) Physics	
13	Palak Sharma	2023/884	B.Sc (Hons) Physics	Ethics in Digital Communication
14	Ravina Meena	2023/1031	B.Sc (Hons) Physics	
15	Kanika	2023/538	B.Sc (Hons) Mathematics	



Miranda House University of Delhi

16	Akanksha	2023/62	B.Sc (Hons) Maths	
17	E Metna Subba	2023/379	B.Sc (Hons) Physics	Online Security and Privacy
18	Bishwashri Majumdar	2023/289	B.Sc (Hons) Physics	
19	Zaibun Nissa	2023/1634	B.Sc (Hons) Physics	
20	Nita Singh	2023/857	B.Sc (Hons) Physics	
21	Shruti Gupta	2023/1227	B.Sc (Physical Science) with Computer Science	
22	Bhumika	2023/281	B.Sc (Hons) Physics	Threat in the digital world: Data breach and cyber attack
23	Neha Sisodia	2023/819	B.A (Multidisciplinary)	
24	Karthika Jayakumar	2023/547	B.Sc (Hons) Physics	
25	Garima	2023/401	B.Sc (Hons) Physics	
26	Nihita Raj	2023/833	B.A (Multidisciplinary)	Block Chain technology
27	Curica Singh	2023/305	B.A (Hons) Political Science	
28	Divyani	2023/368	B.A (Multidisciplinary)	
29	Kajal	2023/523	B.A (Hons) Philosophy	Examination and Counselling Government Websites to benefit students
30	Taiyyba Siddiqui	2023/1371	B.Sc (Hons) Chemistry	
31	Shreeparna Sengupta	2023/1203	B.Sc (Hons) Chemistry	
32	Km Vandana Sharma	2023/619	B.Sc (Hons) Physics	
33	Arisha Baliyan	2023/1551	B.Sc (Hons) Chemistry	Electronic communication : Social media
34	Gauri Jaswal	2023/405	B.Sc (Physical Science) with Computer Science	
35	Pranavi Rawat	2023/939	B.Sc (Physical Science) with Computer Science	
36	Kashvi Sharma	2023/558	B.Sc (Physical Science) with Computer Science	
37	Nikita Choudhary	2023/836	B.A (Hons) Sociology	



Miranda House University of Delhi

38	Asha Madhoki	2023/216	B.Sc (Hons) Physics	Tools for online learning
39	Ayushi Agrawal	2023/249	B.Sc (Hons) Chemistry	
40	Anjali	2023/121	B.Sc (Hons) Physics	
41	Charvi Joshi	2023/298	B.Sc (Hons) Physics	Cyber Ethics
42	Bhumika	2023/281	B.Sc (Hons) Physics	
43	Ayushi Gupta	2023/251	B.Sc (Hons) Physics	
44	Abhilipsa Patra	2023/39	B.Sc (Hons) Physics	E-pathshala
45	Nikita Dhyan	2023/1731	B.Sc Life Science	
46	Leeza Rana	2023/665	B.Sc (Hons) Physics	
47	Reedim Gangwar	2023/1033	B.Sc (Hons) Mathematics	Blockchain
48	Ishika Bhatia	2023/471	B.Sc (Hons) Mathematics	
49	Siddhika	2023/1702	B.Sc Physical Science	
50	Purvanshi Sharma	2023/1599	B.Sc (Hons) Physics	
51	Yaashi Shah	2023/1494	B.A (Multidisciplinary)	
52	Aryanshika Chugh	2023/1641	B.A (Hons) English	Online security and privacy
53	Apala	2023/189	B.Sc (Physical Science) with Computer Science	
54	Annsa Bhat	2023/147	B.A (Hons) English	
55	Pratiksha	2023/948	B.A (Multidisciplinary)	
56	Garima Kumari	2023/402	B.A (Hons) Economics	Public utility portals(Health and education)
57	Anushka Sahu	2023/176	B.A (Hons) English	
58	Prapti Das	2023/943	B.A (Hons) Political Science	Security initiatives by the govt. of India
59	Ekanshi Ojha	2023/382	B.A (Hons) Political Science	
60	Khushi Aggarwal	2023/584	B.A (Hons) Economics	
61	Amisha Gupta	2023/1740	B.Sc, Physical Science	E-Kranti and E-health campaign
62	Anjali Kushwaha	2023/1617	B.Sc, Physical Science	



Miranda House University of Delhi

63	Poonam	2023/1598	B.A (Multidisciplinary)	
64	Prachi Kumari	2023/1765	B.Sc. Physical Science	

Teacher-in-charge
Department of Physics
Miranda House
University of Delhi
DELHI-110007



**Miranda House
University of Delhi**

Programme: UGCF 2022, Value Addition Course (VAC)

Semester II

VAC paper: Digital Empowerment

Paper Code: 6967001004

Faculty (Project Mentor): Dr. Nirmala Saini, Dr. Divakar Pathak, Dr. Vineeta and Ms. Zarina Banoo

S. No.	Name of the Student	Roll Number	Course	Project Title	Supervised by
1	Asra Zakeeya	2023/228	B A Program	e-Paathshala	Dr. Nirmala Saini and Dr. Divakar Pathak
2	Muskan Ateeq	2023/772	B Sc (H) Chemistry		
3	Garima	2023/400	B Sc Physical Sciences		
4	Deenakshi Sharma	2023/313	B A Program		
5	Abhilasha Shukla	2023/1604	B Sc (H) Chemistry	e-Payments in India	Dr. Nirmala Saini and Dr. Divakar Pathak
6	Madhvi Singh	2023/678	B A Program		
7	Anshika Sharma	2023/154	B Sc Physical Sciences		
8	Kshamata Gupta	2023/640	B A Program		
9	Mubashhira Naheed	2023/765	B A (H) Sociology	Public Utility Portals: RTI and IT filing	Dr. Nirmala Saini and Dr. Divakar Pathak
10	Mehak	2023/732	B A (H) Philosophy		
11	Isha Mittal	2023/1739	B A (H) English		
12	Aastha Singh	2023/31	B A (H) Sociology		
13	Ananya Babu	2023/1647	B A (H) Political Science	e-Hospital	Dr. Nirmala Saini and Dr. Divakar Pathak
14	Bhumika Pathak	2023/284	B Sc (H) Botany		
15	Harshita	2023/440	B A (H) Geography		



Miranda House University of Delhi

16	Anumitha Jayaram	2023/168	B A (H) Political Science		
17	Mehak Raj	2023/734	B Sc (H) Botany	Online Security and Privacy	Dr. Nirmala Saini and Dr. Divakar Pathak
18	Aadya Agarwal	2023/7	B Sc (H) Mathematics		
19	Fanna V Nishad	2023/391	B A (H) Political Science		
20	Jilmil Jonak Kashyap	2023/509	B A Program		
21	Ankita Adhikary	2023/140	B A (H) English		
22	Anjana M	2023/135	B A Program	Cyber Security and Netiquette	Dr. Nirmala Saini and Dr. Divakar Pathak
23	Apeksha Priyadarshi	2023/191	B Sc (H) Botany		
24	Konik	2023/631	B A Program		
25	Anshika Mittal	2023/153	B Sc (H) Mathematics	Tools and Platforms on Online Learning	Dr. Nirmala Saini and Dr. Divakar Pathak
26	Akriti Singh	2023/68	B A (H) History		
27	Anchal Khichar	2023/102	B A (H) History		
28	Mehak Gupta	2023/733	B Sc (H) Mathematics		
29	Manasvi Sharma	2023/697	B Sc (H) Chemistry	e-Health campaigns	Dr. Nirmala Saini and Dr. Divakar Pathak
30	Mansi	2023/710	B Sc (H) Chemistry		
31	Jasika Sharma	2023/496	B A Program		
32	Harshika Prakash	2023/437	B A Program		
33	Aanjoleena	2023/17	B A (H) Economics	e-Commerce	Dr. Nirmala Saini and Dr. Divakar Pathak
34	Khushi	2023/576	B A Program		
35	Komal	2023/620	B A Program		
36	Anukrati Shukla	2023/167	B A Program		



Miranda House University of Delhi

37	Anushka Tyagi	2023/184	B Sc Life Sciences	Data Breach	Dr. Nirmala Saini and Dr. Divakar Pathak
38	Anjali	2023/124	B A (H) History		
39	Manvika	2023/721	B Sc Life Sciences		
40	Ananya Maheshwari	2023/1661	B A (H) Economics		
41	Gupta Sita	2023/424	B A (H) History	Cyber Security Initiatives by the Govt of India	Dr. Nirmala Saini and Dr. Divakar Pathak
42	Gouri Ajith	2023/414	B A (H) History		
43	Amrita Kumari	2023/84	B A Program		
44	Mahima Chaudhary	2023/692	B A Program		
45	Ayati Rohatgi	2023/243	B A (H) Economics	Early Harvest Programs	Dr. Nirmala Saini and Dr. Divakar Pathak
46	Manvi Gupta	2023/719	B A (H) Economics		
47	Aanya Gupta	2023/18	B A (H) Economics		
48	Ananya Singh	2023/97	B A (H) History		
49	Bhavna Singh	2023/271	B Sc Physical Sciences with CS	Digital Financial Literacy	Dr. Nirmala Saini and Dr. Divakar Pathak
50	Krati Singh Bhati	2023/634	B Sc (H) Chemistry		
51	Mahi Rai	2023/690	B A Program		
52	Aditi Yadav	2023/55	B A Program		
53	Mannah Suresh	2023/704	B A Program	Blockchain Technology	Dr. Nirmala Saini and Dr. Divakar Pathak
54	Fazmiya K P	2023/393	B A (H) History		
55	Devananda	2023/327	B A Program		
56	Jaya	2023/1524	B A (H) Economics		
57	Aashi Sharma	2023/1614	B Sc (H) Maths	E-communicati on	Dr. Nirmala Saini and Dr. Divakar Pathak
58	Khanak Vats	2023/569	B A (H) History		
59	Mahak Sharma	2023/683	B A (H) History		
60	Kashvi Kapoor	2023/1637	B A (H) English		



Miranda House University of Delhi

61	Dhriti Goyal	2023/1672	B A Program	Vision of Digital India	Dr. Nirmala Saini and Dr. Divakar Pathak
62	Kavya Jain	2023/567	B A (H) Economics	Popularity of Emails and Social Media	Dr. Nirmala Saini and Dr. Divakar Pathak
63	Ashlesha Sharma	2023/1605	B Sc (H) Chemistry	Digital Education: Trends and Benefits	Dr. Nirmala Saini
64	Ritika Choudhary	2023/1058	B. A. (H) Sociology	RTI and ITR	Ms. Zarina Banoo and Dr. Vineeta
65	Priya Rani	2023/978	B.A Program		
66	Sakshi	2023/1102	B. A. (H) Sociology		
67	Ritika Bawa	2023/1057	B.A Program		
68	Yashasvi	2023/1498	B.sc Physical science with CS	RTI	Ms. Zarina Banoo and Dr. Vineeta
69	Vidhi Aggarwal	2023/1475	B.A (Hons.) Economics		
70	Tamanna Gupta	2023/1377	B.A (Hons.) Economics		
71	Srishti Asthana	2023/1311	B.A Programme		
72	Umrah Fatima	2023/1430	B.A Programme (geo+eng)	Secure Cyberspace	Ms. Zarina Banoo and Dr. Vineeta
73	Pratishthaa Koul	2023/954	B.A Programme (eco+pol)		
74	Somya	2023/1286	B.Sc (Hons.) Chemistry		
75	Reema	2023/1034	B.Sc (Hons.) Chemistry		



**Miranda House
University of Delhi**

76	Suditi Sinha	2023/1324	B.A. Programme (pol major)	Online security and Privacy	Ms. Zarina Banoo and Dr. Vineeta
77	Unnati Sati	2023/1433	B.A. Programme (hist major)		
78	Shivi Chauhan	2023/1197	B.Sc (Hons.)Physics		
79	Pooja Meena	2023/916	B.Sc (Hons.) Physics		
80	Simran	2023/1254	B.A (Hons.) geography	Social Media	Ms. Zarina Banoo and Dr. Vineeta
81	Priyanshi	2023/1003	B.A (Hons.) History		
82	Prachi Brahamin	2023/925	B.A (Hons.) English		
83	Priyadarshini Swain	2023/1722	B.Sc(Hons)Botany		
84	Naavya Arya	2023/1713	B.Sc(Hons) Mathematics	E-Platforms and E-Payments	Ms. Zarina Banoo and Dr. Vineeta
85	Sneha Verma	2023/1378	B.A (Hons) History		
86	Snigdha Sehgal	2023/1283	B.Sc (Hons) Mathematics		
87	Simran	2023/1250	B.Sc (Hons)Botany		
88	P.Monika	2023/873	B.A (Hons.) Sociology	Netiquettes	Ms. Zarina Banoo and Dr. Vineeta
89	Writtika Chakraborty	2023/1493	B.A (Hons.) Bengali		
90	Unnati Nigam	2023/1432	B.A Programme (History+Philosophy)		
91	Sana Saigal Anoop	2023/1124	B.A Program (eco+ history)		



**Miranda House
University of Delhi**

92	Sakshi Shekhar	2023/1108	B.Sc (Hons.) Botany	Ethics in Cyberspace	Ms. Zarina Banoo and Dr. Vineeta
93	Punit Nandini	2023/1006	B.Sc (Hons.) Botany		
94	Pranjal	2023/941	B.A Multidisciplinary		
95	Nandana Murali	2023/791	B.A Multidisciplinary		
96	Roshni Kumari	2023/1086	B.Sc (Hons.) Chemistry	Digi-Locker and Social Media	Ms. Zarina Banoo and Dr. Vineeta
97	Saniya Kumari	2023/1137	B.Sc (Hons.) Chemistry		
98	Simran	2023/1256	B.A (Hons.) Geography		
99	Yashasvi	2023/1499	B.A (Hons.) Geography		
100	Samridhi Joshi	2023/1123	B.A (Hons.) Philosophy	Vision of Digital India	Ms. Zarina Banoo and Dr. Vineeta
101	Sonam Yangchen Negi	2023/1294	B.A (Hons.) Political science		
102	Saima Quadri	2023/1101	B.A(Hons) Philosophy		
103	Praguni Sanmotra	2023/931	B.A (Hons) Political Science		
104	Uma Kumari	2023/1428	B.A Multidisciplinary	Block chain Technology	Ms. Zarina Banoo and Dr. Vineeta
105	Shruti Khandelwal	2023/1229	B.A Multidisciplinary		
106	Shradha Jain	2023/1200	B.A (Hons.) Economics		



Miranda House University of Delhi

107	sanshita suman	2023/1143	B.A (Hons.) Economics		
108	Niranjana K V	2023/845	B.A (Hons.) Sociology	Threats in Digital World	Ms. Zarina Banoo and Dr. Vineeta
109	Srilakshmi Rajesh Poolakka	2023/1519	B Sc Hons Chemistry		
110	Trandali Kashyap	2023/1416	B.A (Multidisciplinary)		
111	Thejasree T S	2023/1412	B.Sc (Hons.) Chemistry		
112	Soumadri Mukherjee	2023/1301	B.A Multidisciplinary	Tools for online learning	Ms. Zarina Banoo and Dr. Vineeta
113	Simran	2023/1251	B.A (Hons.) Hindi		
114	Muskan yadav	2023/779	BA philosophy honours		
115	Nishtha	2023/854	BA (Hons) Economics		
116	Priyanshi	2023/1004	BA (Hons) Economics	Security Initiatives by the GOI	Ms. Zarina Banoo and Dr. Vineeta
117	Priya Kumari	2023/975	BA Multidisciplinary		
118	Yana	2023/1496	B.A (Hons.) Economics		
119	Shtaakshi saraswat	2023/1236	B.A (Hons) Economics		
120	Nidhi Gautam	2023/827	B.A Multidisciplinary	Ethics in Digital Communication	Ms. Zarina Banoo and Dr. Vineeta
121	Raghavi Bhandari	2023/1011	B.A (Hons.) Economics		



Miranda House University of Delhi

122	Shreya Puri	2023/1213	B.A (Hons.) Economics		
123	Priyadarshini Meena	2023/983	B.A (Hons.) Economics		
124	Vinita Meena	2023/1483	B.A History	Vision of Digital India	Ms. Zarina Banoo and Dr. Vineeta
125	Sneha Raj	2023/1276	B.A History		
126	Yashasvini shekhawat	2023/1497	B.Sc (Hons) Mathematics		

Please Note: S.No. 63 supervised by Dr. Nirmala Saini alone

Teacher-in-charge
Department of Physics
Miranda House
University of Delhi
DELHI-110007



Miranda House University of Delhi

Part A.2

Students undertaking project work/field work/internship (beyond the requirement of coursework)

Part A.2.1

Following students of B.Sc. (Hons) Physics and B.Sc. Physical Sciences with Computers participated in the 6-week long DSKC Summer Workshop 2023, held from 6 June to 18 July 2023 and successfully completed their projects.

<http://mirandahouse.ac.in/uploads/dskc/summerworkshop/DSKC%20Report%202023.pdf>

S. No.	Name of the Student	Course	Semester	College/Institute/University	Project Title	Name of the Mentors
1	Riya (1H2)	B.Sc. (H) Physics	II	Miranda House	Drone based on Arduino	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
2	Shruti (1H2)	B.Sc. (H) Physics	II	Miranda house	Drone based on Arduino	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
3	Namrata Kumari (1H1)	B.Sc. (H) Physics	II	Miranda House	Smart Dustbin	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
4	Anita Kumari (1H1)	B.Sc. (H) Physics	II	Miranda House	Smart Dustbin	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
5	Nilanjana (1H2)	B.Sc. (H) Physics	II	Miranda House	Smart Dustbin	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
6	Sumaya Rahman (1H2)	B.Sc. (H) Physics	II	Miranda House	Smart Dustbin	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
7	Khushi (1H1)	B.Sc. (H) Physics	II	Miranada house	RC charging discharging	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
8	Daidipya (1H1)	B.Sc. (H) Physics	II	Miranda house	RC charging discharging	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
9	Aditi (1H1)	B.Sc. (H)	II	Miranda	RC charging	Dr. Mallika Verma, Dr. Bilasini Naorem,



Miranda House University of Delhi

		Physics		house	discharging	Prof. Monika Tomar, Dr. Geeta Rani
10	Preeti(1H2)	B.Sc. (H) Physics	II	Miranda house	RC charging discharging	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
11	Tanisha Singh (2H2)	B.Sc. (H) Physics	IV	Miranda house	Digital Lab using Arduino	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
12	Kajal Chandola(2H1)	B.Sc. (H) Physics	IV	Miranda House	Digital lab using Arduino	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
13	Muskan	B.Sc. (H) Physics	VI	Miranda House	Mn doped ZnO thin films for biosensing applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Bilasini Naorem, Dr. Neha Batra, Jatinder Pal Singh
14	Athira C	B.Sc. (H) Physics	VI	Miranda House	Mn doped ZnO thin films for biosensing applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Bilasini Naorem, Dr. Neha Batra, Jatinder Pal Singh
15	Hashima Sherin	B.Sc. (H) Physics	VI	Miranda House	Mn doped ZnO thin films for biosensing applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Bilasini Naorem, Dr. Neha Batra, Jatinder Pal Singh
16	Komal Bhatt	B.Sc. (H) Physics	IV	Miranda House	Growth of WO ₃ thin films for Photochromic applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Kajal Jindal, Dr. Reema Gupta, Jatinder Pal Singh
17	Jiya Meena	B.Sc. (H) Physics	IV	Miranda House	Growth of WO ₃ thin films for Photochromic applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Kajal Jindal, Dr. Reema Gupta, Jatinder Pal Singh
18	Anjali Sharma	B.Sc. (H) Physics	IV	Miranda House	Growth of WO ₃ thin	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Kajal Jindal, Dr. Reema Gupta,



Miranda House University of Delhi

					films for Photochromic applications	Jatinder Pal Singh
19	Deveshi	B.Sc. (H) Physics	IV	Miranda House	Gas sensing properties of nanoribbons of molybdenum trioxide	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Kajal Jindal, Ajay Kumar, Jatinder Pal Singh
20	Tanya Gupta	B.Sc. (H) Physics	VI	Miranda House	Optical dispersion of RF magnetron sputtered MoO ₃ thin film using SPR technique	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Ayushi Paliwal, Dr. Reema Gupta, Jatinder Pal Singh
21	Hrudya Prasanth	B.Sc. (H) Physics	VI	Miranda House	Optical dispersion of RF magnetron sputtered MoO ₃ thin film using SPR technique	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Ayushi Paliwal, Dr. Reema Gupta, Jatinder Pal Singh
22	Namashya Gogoi	B.Sc Physics (Hon)	IV	Miranda House, University of Delhi, Delhi	Hall effect and its applications	Dr. Raishma Krishnan
23	Vishnupriya Sajeev M	B.Sc. Physics (III Year)	VI	Miranda House, University	Biometric Recognition and Image	Dr. Nirmala Saini, Dr. Sonam Singh



Miranda House University of Delhi

				of Delhi	Encryption	
24	Ritu	B.Sc. Physics (II Year)	IV	Miranda House, University of Delhi	Biometric Security Systems	Dr. Nirmala Saini, Dr. Sonam Singh
25	Rinku Dhukiya	B.Sc. Physics (III Year)	VI	Miranda House, University of Delhi	Lane Detection System	Dr. Sonam Singh, Dr. Nirmala Saini
26	Priya	B.Sc. Physics (III Year)	VI	Miranda House, University of Delhi	Lane Detection System	Dr. Sonam Singh, Dr. Nirmala Saini
27	Simran Yadav	B.Sc. Physics (III Year)	VI	Miranda House, University of Delhi	Lane Detection System	Dr. Sonam Singh, Dr. Nirmala Saini
28	Vaishnavi Saini	B.Sc. Physics (III Year)	VI	Miranda House, University of Delhi	Lane Detection System	Dr. Sonam Singh, Dr. Nirmala Saini
29	Amanjot	B.Sc. Physics (II Year)	IV	Miranda House, University of Delhi	Signal Filtering	Dr. Sonam Singh, Dr. Nirmala Saini
30	Khushi Sharma	B.Sc. Physics (II Year)	IV	Miranda House, University of Delhi	Signal Filtering	Dr. Sonam Singh, Dr. Nirmala Saini
31	Anjali Mahi	B.Sc. Physics (II Year)	IV	Miranda House, University of Delhi	Signal Filtering	Dr. Sonam Singh, Dr. Nirmala Saini
32	Pratiksha Sharma	B.Sc. Physics (II Year)	IV	Miranda House,	Signal Filtering	Dr. Sonam Singh, Dr. Nirmala Saini



Miranda House University of Delhi

				University of Delhi		
33	Gauri Patti	BSc Physics (Hons)	VI	Miranda House, University of Delhi	Extra-tidal stars around the Galactic globular cluster NGC 7492	Dr. Richa Kundu
34	Deepanshi Singh	BSc Physics (Hons)	VI	Miranda House, University of Delhi	Extra-tidal stars around the Galactic globular cluster NGC 5466	Dr. Richa Kundu
35	Taniya Sandhu	B.Sc.(H) Physics	VI	Miranda House, University of Delhi	General Theory of Relativity: An Introduction to Gravitational Instantons	Dr. Nitish
36	Anjali	B.Sc. (Hons.) Physics	IV	Miranda House college, University of Delhi	General Theory of Relativity: An Introduction to Gravitational Instantons	Dr. Nitish
37	Mahak Saini	BSc. (H) Physics	IV	Miranda House, University of Delhi	General Theory of Relativity: An Introduction to Gravitational Instantons	Dr. Nitish



Miranda House University of Delhi

38	Akanksha Patel	B.Sc. (H) Physics	IV	Miranda House, University of Delhi	General Theory of Relativity: An Introduction to Gravitational Instantons	Dr. Nitish
39	Mahak Poonia	BSc. (H) Physics		Miranda House, University of Delhi	Computational - Variational Quantum Mechanics	Dr. Divakar Pathak
40	Muskan	BSc. (H) Physics		Miranda House, University of Delhi	Computational - Variational Quantum Mechanics	Dr. Divakar Pathak
41	Rajeshwari Roy	BSc. (H) Physics		Miranda House, University of Delhi	Computational - Variational Quantum Mechanics	Dr. Divakar Pathak
42	Sania Singh	BSc. (H) Physics		Miranda House, University of Delhi	Computational - Variational Quantum Mechanics	Dr. Divakar Pathak
43	Upasna Singh	BSc. (H) Physics		Miranda House, University of Delhi	Computational - Variational Quantum Mechanics	Dr. Divakar Pathak
44	Neha Bhoria	B.Sc. (Hons.) Physics	VI	Miranda House	Comparative study of cosmological models using strong gravitational lensing	Dr. Abha Dev Habib, Dr. Nisha Rani



**Miranda House
University of Delhi**

45	Seerat Fatima Khan	B.Sc. (Hons.) Physics	IV	Miranda house	Comparative study of cosmological models using strong gravitational lensing	Dr. Abha Dev Habib, Dr. Nisha Rani
46	Suchita Agarwal	B.Sc.(Hons.) Physics	IV	Miranda House,	Comparative study of cosmological models using strong gravitational lensing	Dr. Abha Dev Habib, Dr. Nisha Rani
47	Jyoti	B.Sc. (Hons.) Physics	IV	Miranda House	Applying Bayesian methods for constraining cosmological models using time delay	Dr. Abha Dev Habib, Dr. Nisha Rani
48	Kripa Swarnkar	B.Sc. (Hons) Physics	VI	Miranda House	Constraining Lambda CDM Cosmological Model using Strong Lensing Statistics	Dr. Abha Dev Habib, Dr. Nisha Rani



Miranda House University of Delhi

S. No.	Name of the Student	Course	Semester	College/Institute/University	Project Title	Name of the Mentors
1	Tanisha Chauhan	Bsc Physical Science	IV	Miranda House	Arduino Drone	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
2	Ankita	Bsc Physical Science	IV	Miranda House	Drone based on Arduino	Dr. Mallika Verma, Dr. Bilasini Naorem, Prof. Monika Tomar, Dr. Geeta Rani
3	Mahima Momaliya	B.Sc Physical Science	IV	Miranda House	Mn doped ZnO thin films for biosensing applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Bilasini Naorem, Dr. Neha Batra, Jatinder Pal Singh
4	Shubhi Sahu	B.Sc Physical Science	IV	Miranda House	Mn doped ZnO thin films for biosensing applications	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Bilasini Naorem, Dr. Neha Batra, Jatinder Pal Singh
5	Anisha Yadav	B.Sc. Physical Science with Computer Science	VI	Miranda House	Optical dispersion of RF magnetron sputtered MoO ₃ thin film using SPR technique	Dr. Mallika Verma, Prof. Monika Tomar, Dr. Ayushi Paliwal, Dr. Reema Gupta, Jatinder Pal Singh
6	Yogita	B.Sc. APS (II Year)	IV	Miranda House, University of Delhi	Biometric Security Systems	Dr. Nirmala Saini, Dr. Sonam Singh
7	Kiran Gaur	BSc Physical Science with Computer Science	IV	Miranda House, University of Delhi	Extra-tidal stars around the Galactic globular cluster NGC 7492	Dr. Richa Kundu



Miranda House University of Delhi

8	Jalsha Lodhi	B.Sc. Physical Sciences with Computer Science	IV	Miranda House	Bounds on graviton mass using Bayesian Statistics	Dr. Abha Dev Habib, Dr. Nisha Rani
9	Kumari Vini	B.Sc. Physical Sciences with Computer Science	IV	Miranda House, University of Delhi	Bounds on graviton mass using Bayesian Statistics	Dr. Abha Dev Habib, Dr. Nisha Rani
10	Kanika Malik	B.Sc. Physical Sciences with Computer Science		Miranda House	Bounds on $R_h = ct$ model using Angular size of Galaxy Clusters	Dr. Abha Dev Habib, Dr. Nisha Rani
11	Apeksha vyas	B.Sc. Physical Sciences with Computer Science	IV	Miranda house	Bayesian Statistics and Methods	Dr. Abha Dev Habib, Dr. Nisha Rani
12	Shraddha Dixit	B.Sc. Physical Sciences with Computer Science	IV	Miranda House	Bayesian Statistics and Methods	Dr. Abha Dev Habib, Dr. Nisha Rani



Miranda House University of Delhi

Part A.2.2

Summer workshops/ projects completed successfully by students at other Institutions

Gargi Tripathi

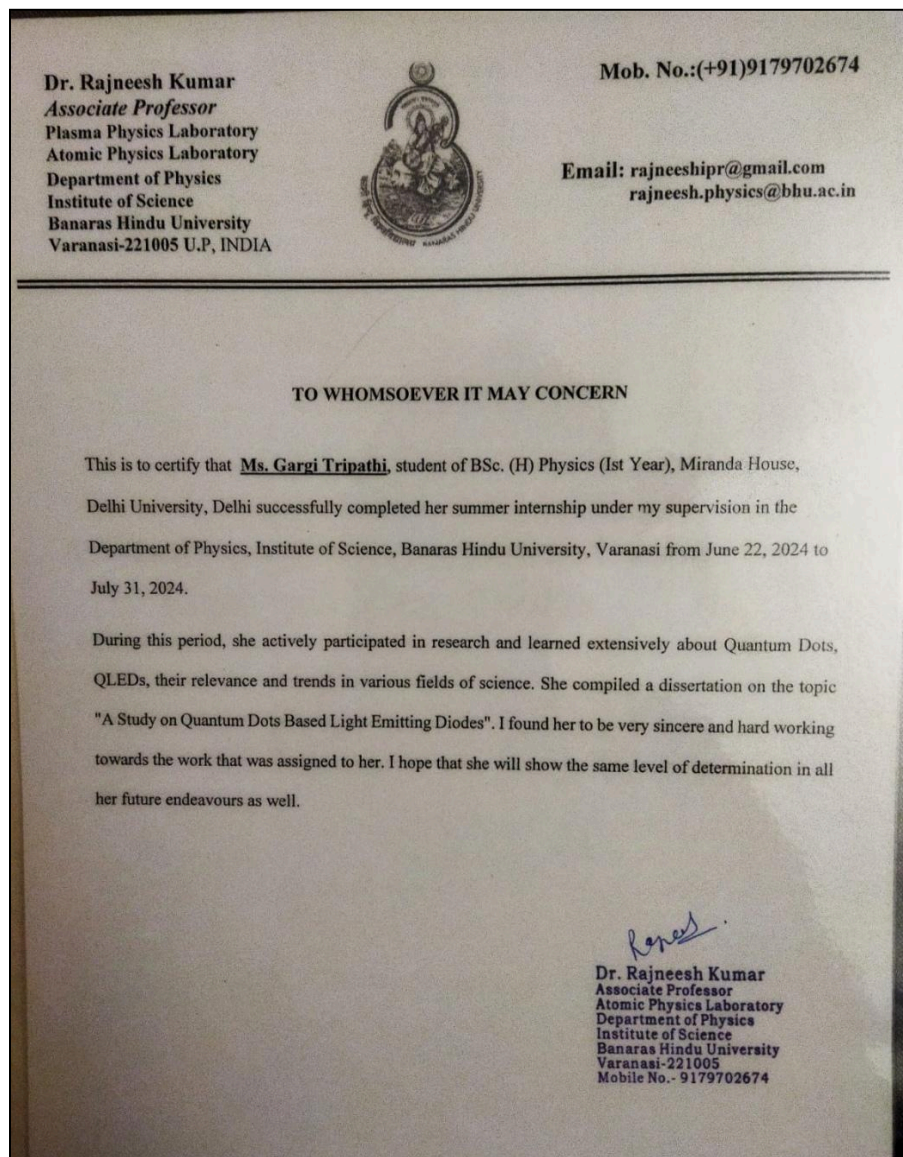
B.Sc. (Hons) Physics

Semester II; 2023/399

Agency/Institute: Atomic Physics
Laboratory, Department of Physics,
Banaras Hindu University, Varanasi,
India

Project Title: **A study on Quantum Dot
based Light Emitting Diodes**

Period: 22.6.2024-31.7.2024



Teacher-in-charge
Department of Physics
Miranda House
University of Delhi
DELHI-110007



**Miranda House
University of Delhi**

सीएसआईआर - राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौद्योगिकी संस्थान
**CSIR - NATIONAL INSTITUTE FOR INTERDISCIPLINARY
SCIENCE AND TECHNOLOGY (NIIST)**
INDUSTRIAL ESTATE PO, PAPPANAMCODE, THIRUVANANTHAPURAM-695019

**मानव संसाधन एवं शैक्षणिक प्रभाग
HUMAN RESOURCE AND ACADEMIC DIVISION**

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **Miss. AISWARYA S SEKHAR** student of Miranda House, University of Delhi has successfully completed her Internship Programme from 19-06-2024 to 19-07-2024 under the guidance of **Dr. Biswapriya Deb** at the CSIR National Institute for Interdisciplinary Science and Technology Thiruvananthapuram.

Head, HRAD
डॉ. यु. एस. हरीश
Dr. U. S. HAREESH
प्रधान, एचआरएडी / Head, HRAD
ही एच आर्डी आर-एचडी आर्डीवी डिवीज़न का निदेशीय संयोजक
CSIR-National Institute for Interdisciplinary Science and Technology (NIIST)
विज्ञान तथा प्रौद्योगिकी मंत्रालय, भारत सरकार
Ministry of Science and Technology, Govt. of India
Thiruvananthapuram-695 019.

Guide of host Institution
डॉ. बिस्वाप्रिया देब / Dr. BISWAPRIYA DEB
सीएसआईआर-एचआरएडी
Senior Principal Scientist & Professor, CSIR
संयोजक, अंतर्विषयी विज्ञान
Center for Sustainable Energy Technologies
ही एच आर्डी आर-एचडी आर्डीवी डिवीज़न का निदेशीय संयोजक
CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Govt. of India
Thiruvananthapuram-695 019.

Aiswarya S Shekhar

B.Sc. (Hons) Physics

Semester IV; 2022/58

Agency/Institute: CSIR- National Institute for Interdisciplinary Sciences and Technology,
Thiruvananthapuram

Project Title: **Thermoelectric Materials**

Period: 19.6.2024-19.7.2024

Teacher-in-charge
Department of Physics
Miranda House
University of Delhi
DELHI-110007



Miranda House University of Delhi



HOMI BHABHA CENTRE FOR SCIENCE EDUCATION (HBCSE), TIFR
V. N. Purav Marg, Mankhurd, Mumbai 400088, INDIA

National Initiative on Undergraduate Science (NIUS) (PHYSICS) (Batch: 21, Year: 2024)

PARTICIPATION CERTIFICATE

This is to certify

Saswati Borphukan

from **Miranda House, University of Delhi, Delhi**, participated in NIUS Exposure cum Enrichment Camp (21.1) in Physics organized at HBCSE during June 18-29, 2024. The camp had lectures and short courses on various topics in theoretical and experimental physics, physics education research and an elaborate laboratory course based on experimental problem solving approach.

A handwritten signature in blue ink, appearing to read 'Arnab Bhattacharya'.

Prof. Arnab Bhattacharya
Academic Coordinator, NIUS (Physics)

A handwritten signature in blue ink, appearing to read 'S. Ladage'.

Prof. Savita Ladage
National Coordinator, NIUS

Saswati Borphukan

B.Sc. (Hons) Physics

Semester II, 2023/1153

Agency/Institute: Homi Bhabha Centre For Science Education, TIFR

Topic: National Initiative on Undergraduate Science (NIUS).

Period: 18.6.2024-29.6.2024