



# Miranda House UNIVERSITY OF DELHI

## Departmental Annual Report - 3

### Departmental Activities: Curriculum and Beyond

**Department: Physics**

**Academic Year: 2021 – 2022 (from 1.7.2021 to 30.6.2022)**

#### Part A.1

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

**Programme:** B.Sc. (Hons) Physics

**Semester:** III

**Paper:** Basic Instrumentation Skills

**Paper Code:** 32223904

**Faculty:**

Section1: Dr. Sanju, Dr. Raishma Krishnan, Dr. Nirmala Saini, Dr. Shri Krishna

Section2: Dr. Rashmi Rakshit, Dr. Ambuja Jaiswal, Dr. Nisha Rani, Dr. Shri Krishna

**Total students undertaking projects: 92**

S.No.	Name of the Student	Roll No.	Project Title	Supervised by	Section
1	Ajita	78	Adaptive Cruise Control	Dr Sanju and Dr Raishma Krishnan	2H1
2	Andeshika	1123			2H1
3	Deepanshi	549			2H1
4	Gauri Patti	139			2H1
5	Aastha	348	Driver Alert System	Dr. Sanju and Dr.Raishma krishnan	2H1
6	G Vinita	834			2H1
7	Gurnoor	995			2H1
8	Ahily	1201			2H1
9	Amrata Singh	562	Function Generator	Dr. Sanju and Dr.Raishma krishnan	2H1
10	Anjali Yadav	517			2H1
11	Anjali Mann	931			2H1
12	Athira	339			2H1
13	Ayushi Lenka	1778	Key/wallet finder	Dr. Sanju and Dr.Raishma krishnan	2H1



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S.No.	Name of the Student	Roll No.	Project Title	Supervised by	Section
14	Anchal Saini	1413			2H1
15	Dhathri Sahu	1184	Arduino based IR remote and manual home automation	Dr. Sanju and Dr.Raishma krishnan	2H1
16	Aastha Yadav	796			2H1
17	Astha Asati	491	Smart Street Light	Dr. Sanju and Dr.Raishma krishnan	2H1
18	Aditi Sharma	720			2H1
19	Basila	10	Fire alarm using gas and temperature sensor	Dr. Sanju and Dr.Raishma krishnan	2H1
20	Devika	122			2H1
21	Divya Rani	1220	Smart Home Automation	Dr. Sanju and Dr.Raishma krishnan	2H1
22	Devanshi	1484			2H1
23	Anjani	927			2H1
24	Aditri	39			2H1
25	Astha Singla	1018	Parking Sensor	Dr. Sanju and Dr.Raishma krishnan	2H1
26	Himani	723	Anti-Theft Alarm System	Dr. Nirmala Saini	2H1
27	Khushi Kumari	1052			2H1
28	Megha Bhardwaj	830			2H1
29	Muskan	83			2H1
30	Manidipa Banerjee	146	A simplistic view of how sensors of a smartphone work	Dr. Nirmala Saini	2H1
31	Mahak Poonia	450			2H1
32	Monika Poonia	88			2H1
33	Manjot	380			2H1
34	Hashima Sherin	238	Digital Clock With Built In Alarm, Timer & Stopwatch	Dr. Nirmala Saini	2H1
35	Hrudya Prasanth	1055			2H1
36	Jahnvi Biddika	398			2H1
37	Krishna S Nair	100			2H1
38	Kasak Bhat	298	Futurewith	Dr. Shri krishna	2H1



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S.No.	Name of the Student	Roll No.	Project Title	Supervised by	Section
39	Muskan	528	Wireless Power Technology (Non - Radiative)		2H1
40	Manisha Kumari	1053			2H1
41	Mukesh Kumari	784			2H1
42	Jhanvi Srivastava	69	A Fire Alarm and Extinguishing System Project by Interfacing Arduino with Temperature & Gas Sensor using TinkerCad	Dr. Shri Krishna	2H1
43	Jasmine Kaur Chahal	807			2H1
44	Himanshi	427			2H1
45	Mishika Verma	674			2H1
46	Khushi Meena	207	Power Generation Using Speed Breakers	Dr. Shri Krishna	2H1
47	Mansha Meena	230			2H1
48	Leeshu Goyal	553			2H1
49	Neha Rao	172	Women Safety	Dr. Rashmi Rakshit , Dr Ambuj Bushan Jaiswal	2H2
50	Nikita Singh	1333			2H2
51	Priya Yadav	655			2H2
52	Priyanka Jangir	709			2H2
53	Nakshatra M	368	Gas Leakage Detector	Dr. Rashmi Rakshit , Dr Ambuj Bushan Jaiswal, Dr. Shri Krishna	2H2
54	Nida K	343			2H2
55	Rajeshwari Roy	1110			2H2
56	Saira Bobby	160			2H2
57	Rinku Dhukiya	436	Car Security System	Dr. Rashmi Rakshit , Dr Ambuj Bushan Jaiswal, Dr. Shri Krishna	2H2
58	Sakshi(1239)	1239			2H2
59	Sakshi Saini	897			2H2
60	Nikita Mehra	795	Home Security System	Dr. Rashmi Rakshit, Dr. Shri Krishna	2H2
61	Roopali Gupta	1265			2H2
62	Ruchika Yadav	703			2H2
63	Nisha Choudhary	1345			2H2



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S.No.	Name of the Student	Roll No.	Project Title	Supervised by	Section
64	Priya	1310	Smart Car Parking System	Dr. Rashmi Rakshit, Dr. Shri Krishna	2H2
65	Priyanka	45			2H2
66	Neha Bhoria	424			2H2
67	Ritu Singh	778			2H2
68	Nikita Jangir	593	Anti-Theft Device		2H2
69	Reena	283			2H2
70	Neha Gothwal	157			2H2
71	Richa	818			2H2
72	Shraddha Singh	758	Patient Health Monitoring System	Dr. Nisha Rani, Dr. Shri Krishna	2H2
73	Swati Sharma	31			2H2
74	Vishnupriya	185			2H2
75	Tanya Gupta	695			2H2
76	Vaishnavi	802			2H2
77	Saloni	1721	Solar Battery Charger	Dr. Nisha Rani, Dr. Shri krishna	2H2
78	Tamanna	1829			2H2
79	Shalu	1307			2H2
80	Sneha	1831			2H2
81	Sania Singh	841	Digital Safe Box	Dr. Nisha Rani, Dr. Shri krishna	2H2
82	Shivani Sirowa	38			2H2
83	Upasana	1004			2H2
84	Tanu Kumari	851			2H2
85	Sunita Kumawat	656	Passive Infrared Motion Sensor	Dr. Nisha Rani, Dr. Shri krishna	2H2
86	Simran Yadav	969			2H2
87	Sushmitha	574			2H2
88	Taniya Sandhu	1016			2H2
89	Tanu	1830	Gas Detector Using Arduino	Dr. Nisha Rani, Dr. Shri krishna	2H2
90	Sharmila	401			2H2
91	Sanya	1405			2H2



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S.No.	Name of the Student	Roll No.	Project Title	Supervised by	Section
92	Sarita Yadav	1253			2H2

**Programme:** B.Sc. (Hons) Physics, CBCS

**Semester:** IV

**Course:** SEC

**Paper:** Renewable Energy and Energy Harvesting

**Paper Code:** 32223905

**Faculty:**

Dr. Rashmi Rakshit, Dr. Sanju, Dr. Geeta Rani, Dr. Raishma Krishnan

Dr. Monika Tomar, Dr. Diwakar Pathak, Dr. Nirmala Saini

**Total students undertaking projects:** 92 (same set of students as listed above)

Groups	S. No.	Name of Students	Roll No	Project Title	Supervised by	Section
1	1	Aastha	348	Generation of Electrical Energy from Sound Energy	Dr. Sanju, Dr. Geeta Rani	2H1
	2	Ahily	1201			2H1
	3	G. Vinita	834			2H1
	4	Gurnoor	995			2H1
2	5	Amrata	562	Auto Control Cooling System Using Temperature Sensor with Sun Tracking Solar Panel And Smart Wiping Mechanism	Dr. Sanju, Dr. Geeta Rani	2H1
	6	Anjali Yadav	517			2H1
	7	Anjali Maan	931			2H1
	8	Athira	339			2H1
3	9	Anchal	1413	Solar- Based Smart Highway	Dr. Sanju, Dr. Geeta Rani	2H1
	10	Ayushi	1778			2H1
	11	Dhatri Sahu	1184			2H1
	12	Aastha Yadav	796			2H1
	13	Aastha Singla	1018			2H1
4	14	Deepanshi Singh	549	Temperature Based Fan Speed Control System	Dr. Sanju, Dr. Geeta Rani	2H1
	15	Ajita Tiwari	78			2H1
	16	Andeshika Singh	1123			2H1
	17	Gauri Patti	139			2H1
5	18	Divya Rani	1220	Solar Powered Weather	Dr. Sanju, Dr.	2H1



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Groups	S. No.	Name of Students	Roll No	Project Title	Supervised by	Section
	19	Aditri Doblial	39	Station	Geeta Rani	2H1
	20	Anjani Kushwaha	927			2H1
	21	Devanshi Pawar	1484			2H1
6	22	Basila	10	Compost Machine	Dr. Sanju, Dr. Geeta Rani	2H1
	23	Devika	122			2H1
7	24	Aastha Asati	491	MPPT Solar Charge Controller	Dr. Sanju, Dr. Geeta Rani	2H1
	25	Aditi Sharma	720			2H1
8	26	Mahak Poonia	450	Automated Hand Sanitizing and Door Unlocking System	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	27	Manidipa Banerjee	146			2H1
	28	Monika	88			2H1
	29	Manjot	380			2H1
9	30	Himani Mahendra	723	Smart Irrigation System	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	31	Jasmine Kaur	807			2H1
	32	Khushi Kumari	1052			2H1
	33	Megha Bhardwaj	830			2H1
10	34	Kasak Bhat	298	Solar Tracking System	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	35	Manisha Kumari	1053			2H1
	36	Mukesh Kumari	784			2H1
	37	Muskan	528			2H1
	38	Mansha Meena	230			2H1
11	39	Hashima Sherin	238	Solar Powered Irrigation System	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	40	Hrudya Prashant	1055			2H1
	41	Jahnavi Biddika	398			2H1
	42	Krishna S Nair	100			2H1
12	43	Jhanvi Srivastava	69	Water Quality Monitoring System Using Power Generated by Footsteps	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	44	Mishika	674			2H1
	45	Himanshi	427			2H1
	46	Muskan	83			2H1
13	47	Khushi Meena	207	Sound to Electric Energy	Dr.Rashmi Rakshit, Dr. Raishma Krishnan	2H1
	48	Leeshu Goyal	553			2H1
14	49	Nakshathra M.	368	Solar Energy Harvesting	Dr. Monika Tomar, Dr.	2H2
	50	Nida K.	343			2H2



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Groups	S. No.	Name of Students	Roll No	Project Title	Supervised by	Section
	51	Rajeshwari Roy	1110		Diwakar Pathak	2H2
	52	Saira Bobby	160			2H2
15	53	Neha Rao	172	Energy Harvesting Using Piezoelectric Transducers	Dr. Monika Tomar, Dr. Diwakar Pathak	2H2
	54	Priyanka Jangir	709			2H2
	55	Priya Yadav	655			2H2
	56	Nikita Singh	1333			2H2
16	57	Neha Bhoria	424	Energy Harvesting from Pressure on Aircraft using Piezoelectric Material	Dr. Monika Tomar, Dr. Diwakar Pathak	2H2
	58	Priya	1310			2H2
	59	Priyanka	45			2H2
	60	Ritu Singh	778			2H2
17	61	Neha	157	RF Energy Harvesting System	Dr. Monika Tomar, Dr. Diwakar Pathak	2H2
	62	Nikita Jangir	593			2H2
	63	Reena	283			2H2
18	64	Nikita Mehra	795	Smart Irrigation System using different sensors	Dr. Monika Tomar, Dr. Diwakar Pathak	2H2
	65	Richa	818			2H2
	66	Nisha Choudhary	1345			2H2
	67	Ruchika	703			2H2
19	68	Rinku Dhukia	436	RF Energy based Theft Detection System	Dr. Monika Tomar, Dr. Diwakar Pathak	2H2
	69	Sakshi	1239			2H2
	70	Sakshi Saini	897			2H2
20	71	SHALU	1307	Solar Powered Automatic Day Automatic Day Night Sensor Light	Dr. Nirmala Saini	2H2
	72	SNEHA	1831			2H2
	73	SALONI	1721			2H2
	74	TAMANNA	1829			2H2
21	75	Sania Singh	841	Single Axis Solar Tracking System	Dr. Nirmala Saini	2H2
	76	Shivani Sirowa	38			2H2
	77	Upasna Singh	1004			2H2
	78	Tanu Kumari	851			2H2
22	79	Sharmila Meena	401	Clap Switch	Dr. Nirmala Saini	2H2
	80	Tanu	1830			2H2
	81	Sarita Yadav	1253			2H2
	82	Sanya	1405			2H2
	83	Usha	1389			2H2
23	84	TANYA GUPTA	695	Ecofriendly Railways: Power the World with Sound Energy	Dr. Nirmala Saini	2H2
	85	SHRADDHA SINGH	758			2H2



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Groups	S. No.	Name of Students	Roll No	Project Title	Supervised by	Section
24	86	VISHNUPRIYA SAJEEV M	185	Thermoelectric Generator	Dr. Nirmala Saini	2H2
	87	SWATI SHARMA	31			2H2
	88	VAISHNAVI SAINI	802			2H2
	89	Taniya Sandhu	1016			2H2
	90	Simran Yadav	969			2H2
	91	Sunita Kumawat	656			2H2
	92	Sushmitha Goud	574			2H2

### Part A.2

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

#### A.2.1

Following students of B.Sc. (Hons) Physics and B.Sc. Physical Sciences (with Computers) participated in the **6-weeks long DSKC Summer Workshop 2021, held from 15 June to 31 July 2021** and successfully completed their projects.

<https://mirandahouse.ac.in/uploads/dskc/summerworkshop/2021%20DSKC%20Summer%20Workshop%20Report.pdf>

S.No	Name	Project	Supervisors
1	Rajeshwari Roy, B.Sc. (H) Physics, IV Semester	Iris Recognition	Dr. Harjeet Kaur, Dr. Nirmala Saini, Dr. Sanju and Dr. Sonam Singh
2	Jyoti Choudhary, B.Sc. Physical Science, II Semester		
3	Shrishti, B.Sc. Physical Science, II Semester		
4	Preety, B.Sc. (H) Physics, VI Semester	Calculating speed of muon from time-of-flight data	Dr. S. N. Sandhya and Dr. Raishma Krishnan
5	Neha Rao, B.Sc. (H) Physics, IV Semester	Social Distancing Alert System	Dr. Mallika Verma, Dr. Monika Tomar, Dr. Geeta Rani and Dr. Sonam Singh
6	Priyanka Jangir, B.Sc. (H) Physics, IV Semester		
7	ATHIRA C, B.Sc. (H) Physics, IV Semester		
8	Lakshmy Santhosh, B.Sc. (H) Physics, VI Semester		
9	Devika M Shiju, B.Sc. (H) Physics, IV Semester		





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S.No	Name	Project	Supervisors
10	Nikita Meena, B.Sc. (H) Physics, VI Semester	Constraining parameters of a model using maximum likelihood and chi square fitting	Dr. Nisha Rani and Dr. Abha Dev Habib
11	Neetu, B.Sc. (H) Physics, VI Semester		
12	Bhoomija Chaurasia, B.Sc. (H) Physics, VI Semester	A Comparative evaluation of green buildings in India using certification systems	Dr. S.N. Sandhya, Dr. Rashmi Rakshit and Dr. Vandana Verma
13	Himani Martolia, B.Sc. (H) Physics, VI Semester		
14	Ishika Kumar, B.Sc. (H) Physics, VI Semester		
15	Merin Shaji, B.Sc. (H) Physics, VI Semester	General theory of relativity	Dr. Sunita Singh, Dr. Sonam Singh and Dr. Nisha Rani
16	Harsha P., B.Sc. (H) Physics, VI Semester	Quark-Net and Data analysis on speed of muons	Dr Raishma Krishnan and Dr S.N Sandhya
17	NAJIDHA ABDUL GAFOOR, B.Sc. (H) Physics, VI Semester	A Study of Green Roof	Dr. Rashmi Rakshit, Dr. Vandana Varma and Dr. S.N. Sandhya
18	Smera Sohan, B.Sc. (H) Physics, VI Semester		
19	T M Malavika, B.Sc. (H) Physics, VI Semester		
20	Zainab Mohamed Firoz, B.Sc. (H) Physics, VI Semester.		
21	Swati Tomar, B.Sc. (H) Physical Science, VI Semester.	A Design analysis of green building in different climatic zones	Dr. S N Sandhya, Dr Vandana Verma and Dr Rashmi Rakshit
22	Anjali Sharma, B.Sc. (H) Physics, VI Semester.		
23	Lakshita Meena, B.Sc. (H) Physics, VI Semester.		
24	Deepika, B.Sc. (H) Physics, VI Semester.	Rainwater harvesting with green building approach	Dr. Vandana Verma and Dr. S. N Sandhya
25	Manidipa Banerjee, B.Sc. (H) Physics, IV Semester.	The effect of temperature and atmospheric pressure on muon flux	Dr. S. N Sandhya and Dr. Raishma Krishnan



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S.No	Name	Project	Supervisors
26	Divya Gaur, B.Sc. (H) Physics, VI Semester.	Chaotic System - Random Matrix Theory	Dr. Ambuj Bhushan Jaiswal
27	Mannu, B.Sc. (H) Physics, VI Semester.		
28	Swati Sharma, B.Sc. (H) Physics, IV Semester.	Organic solar cells	Dr Rashmi Rakshit and Dr. Ambuj Bhushan Jaiswal
29	Kasak Bhat, B.Sc. (H) Physics, IV Semester.		
30	Manisha Kumari, B.Sc. (H) Physics, IV Semester.	Comparison Between Historic Indian monument and modern building	Dr. Rashmi Rakshit, Dr. Vandana Verma and Dr. S.N. Sandhya
31	Divya Rani, B.Sc. (H) Physics, IV Semester.		
32	Anjani Kushwaha, B.Sc. (H) Physics, IV Semester.		
33	Upasna Singh, B.Sc. (H) Physics, IV Semester.	Astronomical image processing	Dr. Sonam Singh, Dr. Sanju, Dr. Nirmala Saini and Dr. Harjeet Kaur
34	Apeksha Pundir, B.Sc. (H) Physics, VI Semester.		
35	Muskan, B.Sc. (H) Physics, IV Semester.	HVAC of Buildings in Ancient Rural India	Dr. Rashmi Rakshit, Dr. SN Sandhya and Dr. Vandana Verma
36	Khushi Kumari, B.Sc. (H) Physics, IV Semester.		
37	Gandikota Vinita, B.Sc. (H) Physics, IV Semester.		
38	Ahily Khirad, B.Sc. (H) Physics, IV Semester.	Algal Biofuels: A vision towards 'Atma Nirbhar' Rural India	Dr. Rashmi Rakshit and Dr. Ambuj Bhushan Jaiswal
39	Mukesh Kumari, B.Sc. (H) Physics, IV Semester.		
40	Hrudya Prasanth, B.Sc. (H) Physics, IV Semester.	Bringing Nature Inside - Materials used in the structure of the house (indoors) to improve Air Quality	Dr. Rashmi Rakshit, Dr. S.N Sandhya and Dr. Vandana Verma
41	Hashima Sherin, B.Sc. (H) Physics, IV Semester.		
42	Krishna S Nair, B.Sc. (H) Physics, IV Semester.		
43	Diksha Garg, B.Sc. (H) Physics, VI Semester.	Reduced three body problem: Lagrange points	Dr. S.N Sandhya
44	Koushiki Pohit, B.Sc. (H) Physics, VI		



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S.No	Name	Project	Supervisors
	Semester.		
45	Anjali Yadav, B.Sc. (H) Physics, VI Semester.		
46	Eishica, B.Sc.(H) Physics, VI Semester.		
47	Andeshika Singh, B.Sc. (H) Physics, IV Semester.	Fuel from Plastic Waste	Dr. Rashmi Rakshit and Dr. Ambuja Bhushan Jaiswal
48	Gurnoor Kaur, B.Sc. (H) Physics, IV Semester.		
49	Aastha, B.Sc. (H) Physics, IV Semester.	Organic solar cell (non - conventional sources of energy)	Dr. Rashmi Rakshit and Dr. Ambuj Bhushan Jaiswal
50	Shally Yadav, B.Sc. (H) Physics, VI Semester.	Analysis of energy consumption and efficiency in residential buildings in India	Dr. S.N Sandhya, Dr. Rashmi Rakshit and Dr. Vandana Verma
51	Ronak, B.Sc. (H) Physics, VI Semester.		
52	Roopal Bansal, B.Sc. (H) Physics, VI Semester.		
53	Anuska Bhuyan, B.Sc. (H) Physics, VI Semester.	Material Science Characterization Techniques-SEM Analysis	Dr. Monika Tomar, Dr. Mallika Verma, Dr. Bilasini Naorem and Dr. Geeta Rani
54	Vishnupriya Sajeev M, B.Sc. (H) Physics, IV Semester.	Green Building: Study of green building concept in some college campuses in india	Dr. Rashmi Rakshit, Dr. Vandana Varma and Dr. S.N. Sandhya
55	Ankita, B.Sc. (H) Physics, VI Semester.	Green building: Rainwater harvesting approach	Dr. Rashmi Rakshit, Dr. Vandana Varma and Dr. S.N. Sandhya
56	Gauri Patti, B.Sc. (H) Physics, IV Semester.	Gravitational Waves	Dr. Sunita Singh, Dr. Nisha Rani and Dr. Sonam Singh
57	Reena, B.Sc. (H) Physics, IV Semester.	Inside the Horizon of a Black Hole	Dr. Sunita Singh, Dr. Nisha Rani and Dr. Sonam Singh
58	Adhisha, B.Sc. Physical Science, IV Semester.		



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S.No	Name	Project	Supervisors
59	Eswari Lekhya Jarajapu, B.Sc. (H) Physics, VI Semester.		
60	Nida K, B.Sc. (H) Physics, IV Semester.	Green Building: Study of green buildings on some college campuses in India	Dr. Rashmi Rakshit, Dr. Vandana Varma and Dr. S.N. Sandhya
61	Nakshathra. M, B.Sc. (H) Physics, IV Semester.		
62	Priya, B.Sc. (H) Physics, IV Semester.		
63	Vaishnavi Saini, B.Sc. (H) Physics, IV Semester.		
64	Deepanshi Singh, B.Sc. (H) Physics, IV Semester.	Flux study	Dr. S.N Sandhya and Dr. Raishma Krishnan
65	Arundathi Dev, B.Sc. (H) Physics, VI Semester.	When Return meets your investment: Biomimicry and passive ventilation Revolution	Dr. Rashmi Rakshit, Dr. Vandana Verma and Dr. S.N Sandhya
66	Chandana DS, B.Sc. (H) Physics, VI Semester.		
67	ANUPAMA RAJ E K, B.Sc. (H) Physics, VI Semester.		
68	Akriti Srivastava, B.Sc. (H) Physics, VI Semester.	Smart Home Automation System	Dr. Monika Tomar, Dr. Mallika Verma, Dr. Geeta Rani and Dr. Sonam Singh
69	Muskan Goswami, B.Sc. (H) Physics, VI Semester.		
70	Neha, B.Sc. (H) Physics, IV Semester.	General theory of relativity: Schwartzchild black hole and it's properties	Dr. Sunita Singh, Dr. Sonam Singh and Dr. Nisha Rani
71	Sakshi Arora, B.Sc. (H) Physics, VI Semester.	XRD Analysis of Nanomaterials	Dr. Mallika Verma, Dr. Monika Tomar, Dr. Bilasini Devi Naorem and Dr. Geeta Rani
72	Neha Yadav, B.Sc. (H) Physics, VI Semester.	Analysis of Green Buildings Design Based on Climate Conditions of India	Dr. Rashmi Rakshit, Dr. S. N. Sandhya and Dr. Vandana Verma



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S.No	Name	Project	Supervisors
73	Anagha Prakash, B.Sc. (H) Physics, VI Semester.	Monte Carlo Simulations and Likelihood Analysis - Constraining parameters of Lambda CDM model using time delay lenses	Dr. Abha Dev Habib and Dr. Nisha Rani
74	Farha K, B.Sc. (H) Physics, VI Semester.		
75	Denna Thomas, B.Sc. (H) Physics, VI Semester.		
76	Suchana Adhikari, B.Sc. (H) Physics, VI Semester.	Statistical methods to constrain Parameters of Lambda CDM Model using Strong Gravitational Lensing Galaxies	Dr. Abha Dev Habib and Dr. Nisha Rani
77	Shakshi, B.Sc. (H) Physical Science, IV Semester.		
78	Yamini Paliwal, B.Sc. Physical Science, VI Semester.	Danger Detection using Hand-Gesture Recognition	Dr. Sonam Singh, Dr. Nirmala Saini, Dr. Harjeet Kaur and Dr. Sanju
79	Isha Yadav, B.Sc. Physical Science, VI Semester.		
80	Shreya Saini, B.Sc. Physical Science, VI Semester.		
81	Aarushi Dubey, B.Sc. Physical Science, VI Semester.		
82	Sanu Soumya, B.Sc. Physical Science, VI Semester.		
83	Dharitri Daimary, B.Sc.(H) Physics, VI Semester.		
84	Amrutha V Devan, B.Sc. physical science, VI Semester.		
85	Harsha P, B.Sc.(H) Physics, VI Semester.		
86	Neha Sharma, B.Sc.(H) Physics, VI Semester.	Applied quantum mechanics: Heavy quarkonium systems	Dr. Divakar Pathak
87	Seema, B.Sc.(H) Physics, VI Semester.		



# Miranda House UNIVERSITY OF DELHI

## A.2.2

### Summer workshops/ projects completed successfully by students at other Institutions

#### 88. Anandita

B.Sc. (Hons) Physics

Ist year; Roll No: 2021/190

Agency/Institution: International  
Astronomical Search Collaboration

Period: 18.2.2022 – 24.3.2022



#### 89. Ayushi

B.Sc. (Hons) Physics

Ist year; Roll No: 2021/829

Agency/Institute: International  
Astronomical Search Collaboration

Period: 18.2.2022 – 24.3.2022





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**91. Yuglesh Kumari**  
B.Sc. (Hons) Physics  
IIIrd Year; 2019/1406  
Institute/Agency: Material  
Sciences Group, Inter-University  
Accelerator Centre  
Project Title: Growth of Thin films  
Using Electron Beam Evaporation  
Method  
Period: 1-30.6.2022



**92. Gauri Patti**  
B.Sc. (Hons) Physics  
II<sup>nd</sup> Year; Roll No: 2020/139  
Workshop: Exposure cum Nurture  
Camp (18.1) in Physics  
Institution: National Initiative on  
Undergraduate Science (NIUS),  
Homi Bhabha Centre for Science  
Education, TIFR  
Period: 19- 30 December 2021





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## Project: Guru Dhvani Antenna Design Challenge 2021

Institution: Astro Club, Department of Physics, Fergusson College, Pune and Teacher Learning Center, IUCAA

Period: September, 2021 to January, 2022

The following students worked on the Project, with Dr. Nisha Rani and Dr. Abha Dev Habib as Mentors:

1. Adhisha, B.Sc. Physical Sciences with Computers, Roll No: 2020/1611
2. Anjani Kushwaha, B.Sc (Hons) Physics, 2<sup>nd</sup> Year, Roll No: 2020/927
3. Gauri Patti, B.Sc (Hons) Physics, 2<sup>nd</sup> Year, Roll No: 2020/139
4. Ifra Moin, B.Sc. Physical Sciences with Computers; Roll No: 2020/1789
5. Jyoti Choudhary, B.Sc. Physical Sciences with Computers, Roll No: 2020/622
6. Manidipa Nanerjee, B.Sc (Hons) Physics, 2<sup>nd</sup> Year, Roll No: 2020/146
7. Muskan, B.Sc (Hons) Physics, 2<sup>nd</sup> Year, Roll No: 2020/83

