



# Miranda House UNIVERSITY OF DELHI

## Departmental Annual Report - 3

### Departmental Activities: Curriculum and Beyond

**Department: Physics**

**Academic Year:** 2019 -2020 (from 1.7.2019 to 30.6.2020)

#### 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:**

Dr. Sanju, Dr, Geeta Rani

Dr. Divakar Pathak, Dr. Ambuja Jaiswal

Dr. Sonam Singh, Dr. Raishma Krishnan

Dr. Rashmi Rakshit, Dr. Sunita Singh

**Total students undertaking projects: 78**

S.NO	STUDENT	S. NO.	STUDENT
1	ABHISH AKELLA	40	MUKTA YADAV
2	ADITI CHOUDHARY	41	MUSKAN
3	AKANKSHA GOSWAMI	42	MUSKAN
4	AKSHARA PAUL	43	NANCY GUPTA
5	AMBICA SAINI	44	NEHA SHARMA
6	ANJALI YADAV	45	NEHA YADAV
7	ANJALI YADAV	46	NIDHI
8	ANJALY D CHANY	47	NIKITA
9	ANUSHA PANDEY	48	NIKITA BASWALA
10	ANVITA SHUKLA	49	NISHA CHILLAR
11	APEKSHA PUNDIR	50	NUPUR ARORA
12	CHANDANA JYOTHISH	51	PAHUL KAUR
13	CHARU MITTAL	52	PALLAVI
14	CHHAVI	53	PARAS YADAV
15	DEEPSHIKHA	54	POOJA
16	DIKSHA GARG	55	POOJA SINGH TOMAR
17	DIVYA GAUR	56	POONAM YADAV



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18	EESHITA	57	PRERNA JOSHI
19	EISHICA CHAND	58	PRITI
20	GAURI MEENA	59	PRIYAMVADA B
21	GITIKA KHANNA	60	PRIYANKA
22	IRA VATS	61	PRIYANKA KUMARI VERMA
23	JAGRATI	62	RAKSHA
24	JASMINE CHHIKARA	63	RENUKA
25	JULI DHAKAD	64	RICHA VERMA
26	JYOTI	65	RIYA
27	KAJAL	66	SALONI SINGLA
28	KAJAL	67	SEEMA
29	KAJAL	68	SEEMA SAHU
30	KAVITA SINGHAL	69	SHALLU
31	KOMAL MEENA	70	SHREYA RAMOLTA
32	KOUSHIKI POHIT	71	SONAM YADAV
33	KRITIKA YADAV	72	SREENANDA R
34	MAMTA MEENA	73	SUCHANA ADHIKARI
35	MANNU	74	TANU SWAMI
36	MANSI DAGAR	75	TANYA WADHWA
37	MANYA SINHA	76	TRIPTI JAIN
38	MONIKA PILANIYA	77	TUHINA DOLEY
39	MONIKA SAGAR	78	VANSHIKA

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

**Semester:** IV

**Course:** SEC

**Paper:** Renewable Energy and Energy Harvesting

**Paper Code:** 32223905

**Faculty:**

Dr. Rashmi Rakshit, Dr. S.N. Sandhya

Dr. Sanju, Dr. Nisha Rani

Dr. Geeta Rani, Mr. Manraaj Meena

Dr. Raishma Krishnan, Dr. Divakar Pathak

**Total students undertaking projects:** 78 (same set of students as listed above)



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### 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 participated in the 6-weeks long DSKC Summer Workshop 2019, held from 3 June to 12 July 2019 and successfully completed their projects.

See for more info:

<https://mirandahouse.ac.in/uploads/dskc/summerworkshop/2019%20DSKC%20Summer%20Workshop%20Report.pdf>

S. No.	Name	Year/Semester	Project Title
1	Anu Sharma	II year	Synthesis of Zinc Oxide Nanoparticles and Water Disinfection
2	Anshul Singh	II year	Synthesis of Zinc Oxide Nanoparticles and Water Disinfection
3	Mukta Rajput	II year	Synthesis of Zinc Oxide Nanoparticles and Water Disinfection
4	Charu Mittal	I year	Hand Gesture control Car
5	Eeshita	I year	Hand Gesture control Car
6	Aditi Choudhary	I year	Hand Gesture control Car
7	Anushka Yadav	II year	Obstacle avoiding metal detecting robot vehicle
8	Harsha P	II year	Obstacle avoiding metal detecting robot vehicle
9	Pallavi	I year	Accident alert System using Arduino
10	Tanu Swami	I year	Accident alert System using Arduino
11	Seema Sahu	I year	Accident alert System using Arduino
12	Divya Gaur	I year	Cosmic ray Muon detector - Quarknet
13	Jasmine Chhikara	I year	Cosmic ray Muon detector - Quarknet
14	Komal	I year	Cosmic ray Muon detector - Quarknet



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## A.2.2

Following students participated in summer workshops held in various research institutions

### 15. Rajdeep Kaur, BSc (Hons) Physics, VI Semester

Project Title: Synthesis and Structural Characterization of Pyrochlore Oxides  
Period: June 2019

Institution: Inter University Accelerator Centre (IUAC), Delhi

Supervisor: Dr. Pawan Kumar Kulriya, Scientist-E, Material Science Group, IUAC, Delhi

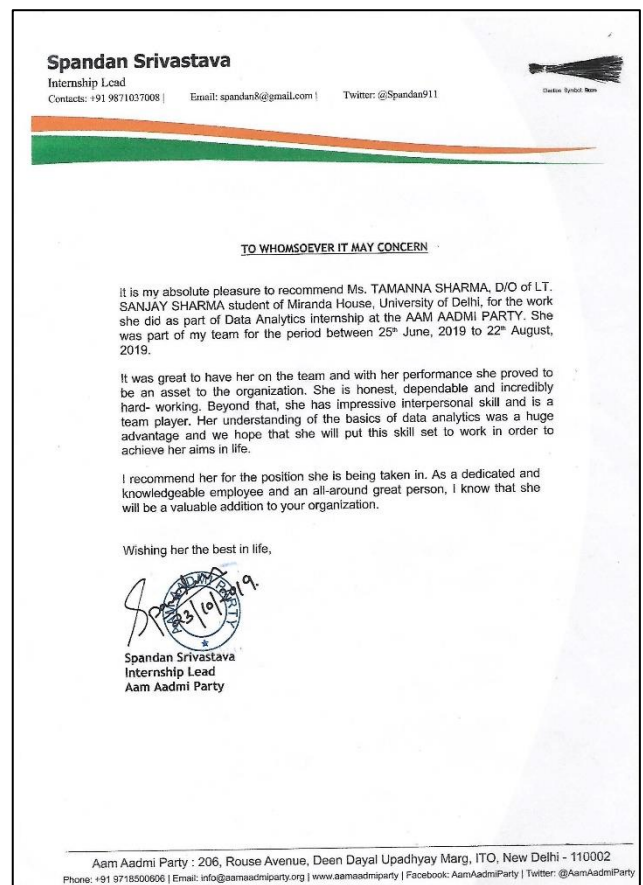


### 16. Tamanna Sharma, BSc (Hons) Physics, VI Semester

Project Title: Data Analytics Internship  
Period: 25.6.2019 – 22.8.2019

Institution: Aam Aadmi Party (Political Organization)

Supervisor: Mr. Spandan Srivastava





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17.

**Shivani Yadav, BSc (Hons) Physics, IV Semester**

Project title: All India Asteroid Search Campaign

Year: 25.6.2019 to 23.7.2019

Institution: International Astronomical Search Collaboration & SPACE (India)



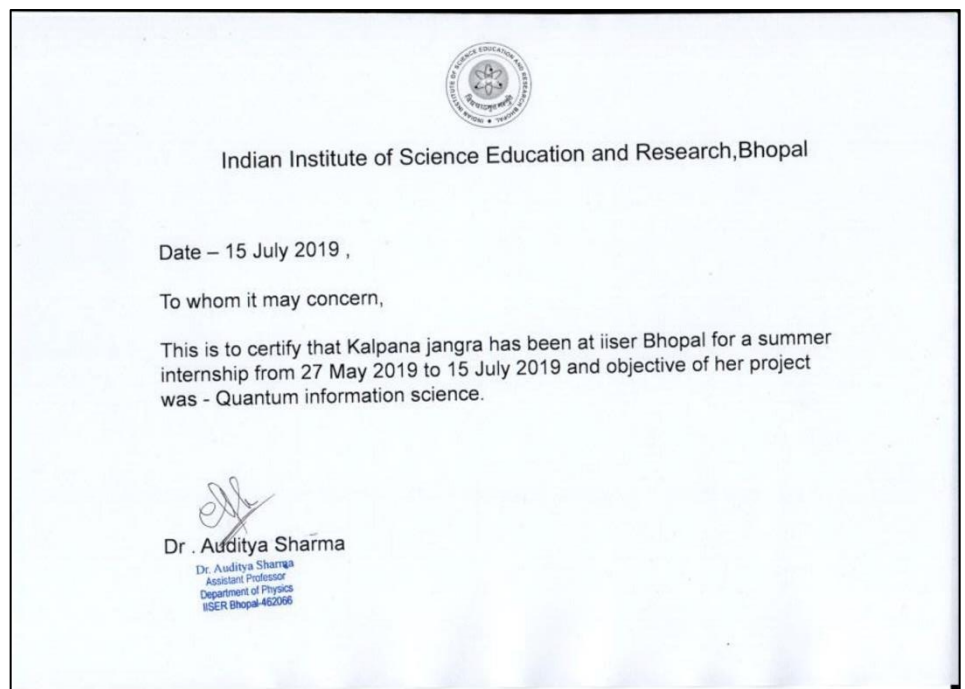
18.

**Kalpana Jangra, BSc (Hons) Physics, IV Semester**

Project: Quantum Information Science

Period: 27.5.2019 to 15.7.2019

Institution: IISER, Bhopal





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19.

**Koushiki Pohit, B.Sc. (Hons) Physics,  
II Semester**

Summer Internship

Period: 3.6.2019 to 5.7.2019

Institution: Saha Institute of Nuclear  
Physics, Kolkata



20.

**Riya Sharma, BSc (Hons) Physics, VI Semester**

Project Title: Estimation of Infrared Point Target Range

Period: 4.6.2019 to 16.7.2019

Institution: Instruments R&D Establishment, DRDO,  
Dehradun.

Supervisor: Mr. Himanshu Singh, Scientist 'E', IRDE.





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**21.**  
**Keshvi Tuteja, BSc (Hons) Physics, VI Semester**  
 Advancing Theoretical Astrophysics Summer School,  
 University of Amsterdam  
 Period: 15 Jul 2019 to 26 Jul 2019  
 Highlights: Learned and employed a variety of  
 computational/numerical methods and simulations  
 for problem solving, as well as complementary skills such  
 as data visualization, public speaking,  
 proposal writing, and networking.  
 Mentor: Prof. Sera Markoff, University of Amsterdam



**22.**  
**Rashi Wadhwa, BSc (Hons) Physics, V Semester**  
 Project Title: HELIX experiment  
 Period: May – August 2019  
 Institution: Pennsylvania State University  
 Supervisor: Professor Stephane Coutu  
 Program: S.N. Bose Scholars Program





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23.

**Shivani Yadav, BSc (Hons) Physics,  
V Semester**

Project title: Radio Astronomy Winter  
School

Period: 16.12.2019 – 24.12.2019

Institution: IUCAA, NCRA Pune



24.

**Tanya Wadhwa, BSc (Hons) Physics, II Semester**

Project title: Radio Galaxies and its Hot Gas  
Environment

Period: Dec 2019 – Jan 2020

Institution: NIUS, HBCSE

Supervisor: Dr Dharam Vir Lal, NCRA, Pune and  
Professor Anwesh Mazumdar, HBCSE, Mumbai



**Total Students undertaking project work/field work/internship (beyond the requirements of coursework): 24**