



Miranda House
UNIVERSITY OF DELHI

**DS Kothari Centre for Research and Innovation in
Science Education**

Summer Workshop 2021

**Flavour of Research:
Investigative Projects in Multidisciplinary Contexts**



MIRANDA HOUSE
University of Delhi



Flavour of Research
Investigative Projects in Multidisciplinary Contexts

Summer Workshop
(15 June 2021 – 31 July 2021)

Orientation Program
Date: 15 June 2021

11.00 am onwards

Prerequisite: Zoom Application
Join Zoom Meeting

<https://zoom.us/j/96444654266?pwd=L0F2dXNhVUNkYnFFU0Y3NkRHZ1M3dz09>

Meeting ID: 964 4465 4266
Passcode: Vgr91V

Summer Workshop 2021

Flavour of Research: Investigative Projects in Multidisciplinary Contexts

The six weeks Summer Workshops 2021 for Undergraduate Science Students, was held from 15 June to 31 July 2021. Approximately 350 students were participated in this DSKC workshops and carried out projects in interdisciplinary fields. These research projects were conducted online due to the pandemic with the prerequisite of zoom application and were not granted money from any funding agency in the pandemic year 2021. Faculties of Six Departments mentored 94 project groups. The names of Departments, title of the projects along with the mentors and mentees are listed here.

DEPARTMENT OF BOTANY

The Department of Botany conducted the following student research projects under DSKC.

Project 1:

Title of the Project: Secondary metabolites in some Gymnosperm species

Mentors: Dr. Somdutta Sinha Roy and Dr. Saloni Bahri

Students' Names:

1. Smriti Rathee, B.Sc. (Hons.) Botany, IV Semester, Miranda House
2. Chahat Kaushal, B.Sc. (Hons.) Botany, IV Semester, Miranda House
3. Laimayum Isani Devi, B.Sc. (Hons.) Botany, IV Semester, Miranda House
4. Deepti, B.Sc. (Hons.) Botany, IV Semester, Miranda House
5. Sapana Maurya, B.Sc. (Hons.) Botany, II Semester, Miranda House
6. Suruchi Yadav, B.Sc. (Hons.) Botany, II Semester, Miranda House
7. Sandhya Kumari, B.Sc. (Hons.) Botany, II Semester, Miranda House
8. Manasvi Chaturvedi, B.Sc. (Hons.) Botany, VI Semester, Hindu College

Project 2:

Title of the Project: Programmed cell death in plants

Mentors: Dr. Janaki Subramanyan and Dr. Neetu Chaudhary

Students' Names:

1. Ekamveer Kaur, B.Sc. (Hons.) Botany, IV Semester SGTB Khalsa College
2. Manpreet Kaur, B.Sc. (Hons.) Botany, IV Semester, SGTB Khalsa College
3. Shailza Bhati, B.Sc. (Hons.) Botany, II Semester Miranda House
4. Manpreet Kaur, B.Sc. (Hons.) Botany, IV Semester SGTB Khalsa College

Project 3:

Title of the Project: Rubisco and PEP carboxylase

Mentors: Dr. Janaki Subramanyan and Dr. Neetu Chaudhary

Students' Names:

1. Bhavna, B.Sc. (Hons.) Botany, II Semester, Miranda House
2. Nitu Kumari, B.Sc. (Hons.) Botany, II Semester, Miranda House

Project 4:**Title of the Project: Iron homeostasis and its regulation by nitric oxide, melatonin and hydrogen sulphide during fruit ripening**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Prachi Choudhary, B.Sc. (Hons.) Botany, IV Semester, Miranda House
2. Kanika Bharadwaj, B.Sc. (Hons.) Botany, IV Semester, Miranda House

Project 5:**Title of the Project: Role of Nitric oxide in plant reproduction**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Shreya Pandey, B.Sc. (Hons.) Botany, IV Semester, Miranda House

Project 6:**Title of the Project: Pollen stigma interaction- role of enzymes**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Vineeta Singh, B.Sc. (Hons.) Botany, IV Semester, Miranda House

Project 7:**Title of the Project: Role of calcium in pollen-stigma interaction**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Nandini Killa, B.Sc. (Hons.) Botany, IV Semester, Hansraj College

Project 8:**Title of the Project: Role of reactive oxygen species in plant reproduction**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Josemon Biju, B.Sc. (Hons.) Botany, IV Semester, Hansraj College

Project 9:**Title of the Project: Ostreococcus tauri- an emerging model organism for experimental studies in plants**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Anushka Dayal, B.Sc. Life Science, IV Semester, Miranda House
2. Anisha Raj, B.Sc. Life Science, IV Semester, Miranda House

Project 10:**Title of the Project: A survey of pollen allergens in Asteraceae**

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Priti Kulhari, B.Sc. (Hons.) Botany, II Semester, Miranda House
2. Angel Malhotra, B.Sc. (Hons.) Botany, II Semester, Miranda House

3. Bidyaluxmi Khuraijam, B.Sc. (Hons.) Botany, II Semester, Miranda House
4. Lobsang Tsekey, B.Sc. (Hons.) Botany, II Semester, Miranda House

Project 11:

Title of the Project: Pollen-stigma interaction in grasses- a review

Mentors: Dr. Rashmi Shakya

Students' Names:

1. Ishita Sukhija, B.Sc. Life Science, II Semester, Miranda House
2. Ekta, B.Sc. Life Science, II Semester, Miranda House

Project 12:

Title of the Project: Phytochemicals of family Poaceae and their biological function

Mentors: Dr. Saloni Bahri and Dr. Somdutta Sinha Roy

Students' Names:

1. Ashmita, B.Sc. (Hons.) Botany, VI Semester, Miranda House
2. Tanzeela Nazir, B.Sc. (Hons.) Botany, IV Semester, Miranda House
3. Jaspreet Kaur, B.Sc. Life Science, IV Semester, SGTB Khalsa college
4. Binisha Shrestha, B.Sc. (Hons.) Botany, IV Semester, Miranda House
5. Prateeksha Asati, B.Sc. (Hons.) Botany, II Semester, Miranda House
6. Garima Rao, B.Sc. (Hons.) Botany, II Semester, Miranda House
7. Niharika Jakhar, B.Sc. Life Science, II Semester, Miranda House

Project 13:

Title of the Project: Covid -19 Vaccines: A Comparative and Systematic Review

Mentors: Dr. Renuka Agrawal

Students' Names:

1. Harleen Kaur Chawla, B.Sc. Life Science, IV Semester, SGTB Khalsa college
2. Ishita Pahwa, B.Tech. Biotechnology, II Semester, Amity Institute of Biotechnology

Project 14:

Title of the Project: Effectiveness of Herbal and Allopathy Based Therapeutics Used Against COVID-19: A Review Cum Online Cross-Sectional Survey

Mentors: Dr. Renuka Agrawal

Students' Names:

1. Anjali Karn, B.Sc. (Hons.) Botany, IV Semester, Miranda House
2. Garima Dubey, B.Sc. (Hons.) Botany, IV Semester, Miranda House
3. Kanika Singh, B.Sc. (Hons.) Botany, IV Semester, Miranda House
4. Preeti Gupta, B.Sc. (Hons.) Botany, IV Semester, Miranda House

Project 15:

Title of the Project: Hidden Pandemic: Post Covid Complications

Mentors: Dr. Renuka Agrawal

Students' Names:

1. Aayushi Sahay, B.Sc. (Hons.) Botany, IV Semester, Miranda House
2. Gitanjali Sharma, B.Sc. (Hons.) Botany, IV Semester, Miranda House
3. Kirti Singh, B.Sc. (Hons.) Botany, IV Semester, Miranda House

4. Doddi Venkata Apoorva, B.Sc. Life Science, IV Semester, Miranda House

Project 16

Title of the Project: A Comprehensive Review Cum Survey on Sars-CoV-2, Its Origin, Evolution and Spread

Mentors: Dr. Renuka Agrawal

Students' Names:

1. Neha Gantayat, B.Sc. Life Science, II Semester, Miranda House
2. Bhavya Matta, B.Sc. Life Science, II Semester, Miranda House

DEPARTMENT OF CHEMISTRY

The Department of Chemistry conducted the following student research projects under DSKC:

Project 1:

Title of the Project: Supported Copper and Copper Oxide based Nanoparticles (review)

Mentors: Dr. Malti Sharma, Dr. Mallika Pathak, Dr. Sharda Mahilkar

Students' Names:

1. Muskan Singh, B.Sc.(H) Chemistry, IV Semester Miranda House
2. Mansi Sharma, B.Sc.(H) Chemistry, Miranda House
3. Shruti Sharma, B.Sc.(H) Chemistry, Miranda House
4. Vandana Devi, B.Sc.(H) Chemistry, Miranda House
5. Anushka Chaudhary, B.Sc.(H) Chemistry, Miranda House
6. Hitakshi Mathur, B.Sc.(H) Chemistry, Miranda House
7. Kinshuk Malik, B.Sc.(H) Chemistry, Sri Venkateshwara College

Project 2:

Title of the Project: A review on degradation of chemical wastes by using metal oxide semiconductors

Mentors: Dr Kalawati saini and Ms Nutan rani

Students' Names:

1. Anjana R Chandran, B.Sc.(H) Chemistry, VI Semester Miranda House
2. Kriti Shakya, B.Sc.(H) Chemistry, VI Semester, Miranda House
3. Aarushi Gupta, B.Sc.(H) Chemistry, VI Semester, Miranda House
4. Divya Singh, B.Sc.(H) Chemistry, VI Semester, Miranda House
5. Anjali V A, B.Sc.(H) Chemistry, VI Semester, Miranda House
6. Kanika Goyal, B.Sc.(H) Chemistry, VI Semester, Miranda House

Project 3:

Title of the Project: Molecular Modelling and Drug Design: Docking Studies to Investigate Role of Phenolic Constituents in Anti-Diabetic Activity of Jamun against Human Pancreatic Alpha-Amylase (PAA)

Mentors: Dr Smriti Sharma Bhatia & Dr Mamta Sethi

Students' Names:

1. Yousuf Khan, B.Sc.(H) Chemistry, VI Semester, Kirori Mal College
2. Sheetal Kaur, B.Sc. Life Sciences, IV Semester, SGTB Khalsa college
3. Khushboo Singh, B.Sc. Life Sciences, VI Semester, SGTB Khalsa college
4. Shubhdeep Kaur, B.Sc. Life Sciences, SGTB Khalsa college
5. Tanmay Malik, B.Sc. Life Sciences, SGTB Khalsa college

Project 4:

Title of the Project: To analyse the effectiveness of the alpha lipoic acid and alpha linoleic acid in stabilizing EGCG (used in treating cancer) using molecular docking

Mentors: Dr Smriti Sharma Bhatia & Dr Mamta Sethi

Students' Names:

1. Prachi, B.Sc.(H) Chemistry, Miranda House
2. Neha, B.Sc.(H) Chemistry, Miranda House
3. Devika Jayan, B.Sc.(H) Chemistry, Ramjas College
4. Lakshita Hasija, B.Sc.(H) Chemistry, Miranda House
5. Garima Arora, B.Sc. Life Sciences, Miranda House

Project 5:

Title of the Project: Docking studies to investigate effectiveness of Wakame weed for Insulin resistance in PCOS

Mentors: Dr Smriti Sharma Bhatia & Dr Mamta Sethi

Students' Names:

1. Sehajpreet Kaur, B.Sc.(H) Chemistry, SGTB Khalsa college
2. Shivani Malik, B.Sc.(H) Chemistry, SGTB Khalsa college
3. Taniya, B.Sc.(H) Chemistry, SGTB Khalsa college
4. Gurjot Singh, B.Sc. Life Sciences, SGTB Khalsa college
5. Ikjot Kaur, B.Sc. Life Sciences, SGTB Khalsa college
6. Gurleen Kaur, B.Sc. Life Sciences, SGTB Khalsa college

Project 6:

Title of the Project: Green synthesis of nitrogen containing six membered heterocyclic compounds

Mentors: Ms Anita Kumari, Dr Poonam, Dr Anshika Lumb, Dr Deepti Rawat

Students' Names:

1. Kunika Chandra, B.Sc. Physical Sciences, Shivaji College
2. Garima, B.Sc.(H) Chemistry, Miranda House college
3. Abhishek Bansal, B.Sc. Physical Sciences, Ramjas college
4. Khushboo Goel, B.Sc.(H) Chemistry, Miranda House college
5. Mrunal Nanda, BS-MS Dual Degree, IISER, Berhampur
6. Jayshaan Baibhav, BS-MS Dual Degree, IISER, Berhampur
7. Manya Vashishtha, B.Sc. Life Sciences, IV Semester, Miranda House college
8. Khushboo Gurjar, B.Sc. Life Sciences, Miranda House college

Project 7:

Title of the Project: Determination of energy band gap using UV-Visible absorption data

Mentors: Dr Kalawati Saini and Ms Nutan Rani

Students' Names:

1. Ekta, B.Sc.(H) Chemistry, Miranda House college

Project 8:

Title of the Project: A comprehensive review: Synthesis, Properties, and Applications of Alkaline Earth Metal titanate perovskite nanoparticles

Mentors: Dr. Malti Sharma, Dr. Mallika Pathak, Dr. Sharda Mahilkar

Students' Names:

1. Ojaswita Pant, B.Sc.(H) Chemistry, Miranda House college
2. Pooja Yadav, B.Sc.(H) Chemistry, Miranda House college
3. Gariyashi Dekka, B.Sc.(H) Chemistry, Miranda House college
4. Pooja, B.Sc.(H) Chemistry, Miranda House college
5. Bhumika Rani, B.Sc.(H) Chemistry, Miranda House college
6. Reena Sharma, B.Sc.(H) Chemistry, Ramjas college
7. Raveena Sharma, B.Sc.(H) Chemistry, Miranda House college
8. Payal, B.Sc.(H) Chemistry, Maitreyi College

DEPARTMENT OF COMPUTER SCIENCES

The Department of Computer Sciences conducted the following student research projects under DSKC:

Project 1:

Title of the Project: Analysis of Crime Against Women and Cyber Security using Data Mining Techniques

Mentors: Dr. Seema Aggarwal

Students' Names:

1. Harshita Pahwa, B.Sc.(H) Physical Science, VI Semester, Miranda House
2. Chantel Rose Walia, B.Sc.(H) Physical Science, VI Semester, Miranda House
3. Khushi, B.Sc.(H) Physical Science, VI Semester, Miranda House
4. Nancy Dahiya, B.Sc.(H) Physical Science, VI Semester, Miranda House
5. Pooja, B.Sc.(H) Physical Science, VI Semester, Miranda House
6. Rhea Ajit John, B.Sc.(H) Physical Science, VI Semester, Miranda House
7. Siddhi Joshi, B.Sc.(H) Physical Science, VI Semester, Miranda House

DEPARTMENT OF MATHEMATICS

The Department of Mathematics conducted the following student research projects under DSKC.

Project 1:

Title of the Project: Using Game Theory in mitigating Covid Spread and Vaccination

Mentors: Ms. Apeksha Verma, Mr. Mohit Kumar Macchal and Mr. Sarik Idrisi and Dr. Daulti Verma

Students' Names:

1. Priya Rani, B.Sc. (H) Mathematics, IV Semester, Miranda House

2. Sneha Kumari, B.Sc. (H) Mathematics, IV Semester, Miranda House
3. Akshita Bhardwaj, B.Sc. (H) Mathematics, II Semester, Miranda House
4. Shreya Kumari, B.Sc. (H) Mathematics, II Semester, Miranda House
5. Nidhi Chaudhary, B.Sc. (H) Mathematics, II Semester, Miranda House
6. Preeti Singh, B.Sc. (H) Mathematics, IV Semester, Miranda House
7. Sushmita Kumari Suman, B.Sc. (H) Mathematics, IV Semester, Miranda House
8. Princy Yadav, B.Sc. Physical Science, II Semester, Miranda House

Project 2:

Title of the Project: A Guide to Understanding the Working Principle of AI Conversational Assistants

Mentors: Ms. Apeksha Verma, Mr. Mohit Kumar Macchal and Mr. Sarik Idrisi and Dr. Daulti Verma

Students' Names:

1. Aastha Sarraf, B.Sc.(H) Mathematics, IV Semester, Miranda House
2. Aayushi Tomar, B.Sc.(H) Mathematics, IV Semester, Miranda House
3. Ashika Deb, B.Sc.(H) Mathematics, IV Semester, Miranda House
4. Deeksha Yadav, B.Sc.(H) Mathematics, IV Semester, Miranda House
5. Gunjan Sharma, B.Sc.(H) Mathematics, II Semester, Miranda House
6. Pooja, B.Sc.(H) Mathematics, II Semester, Miranda House
7. Ritu, B.Sc.(H) Mathematics, IV Semester, Miranda House
8. Saloni Goel, (B.Sc.(H) Mathematics, IV Semester, Miranda House

Project 3:

Title of the Project: Mathematics of Big Data Analysis Students

Mentors: Ms. Apeksha Verma, Mr. Mohit Kumar Macchal and Mr. Sarik Idrisi and Dr. Daulti Verma

Students' Names:

1. Annika Jaiswal, B.Sc.(H) Mathematics, II Semester, Miranda House
2. Anshika, B.Sc.(H) Mathematics, II Semester, Miranda House

Project 4:

Title of the Project: Blockchain Technology with case studies on Cryptocurrency

Mentors: Ms. Apeksha Verma, Mr. Mohit Kumar Macchal and Mr. Sarik Idrisi and Dr. Daulti Verma

Students' Names:

1. Arshi Gautam, B.Sc Program, II Semester Government Post Graduate College, Jhalawar
2. Deeksha, B.Sc.(H) Mathematics, II Semester, Miranda House
3. Diya S, B.Sc.(H) Mathematics, II Semester, Miranda House
4. Kajal Kohli, B.Sc.(H) Mathematics, IV Semester Miranda House
5. Shagun Singhal, B.Sc.(H) Mathematics, II Semester, Miranda House
6. Tejasvi Mishra, B.Sc.(H) Mathematics, IV Semester, Miranda House

PHYSICS DEPARTMENT

The Department of Physics conducted the following student research projects under DSKC

Project 1:

Title of the Project: Iris Recognition

Mentors: Dr. Harjeet Kaur, Dr. Nirmala Saini, Dr. Sanju A, Dr. Sonam Singh

Students' Names:

1. Rajeshwari Roy, B.Sc. (H) Physics, IV Semester, Miranda House
2. Jyoti Choudhary, B.Sc. Physical Science, II Semester Miranda House
3. Shrishti, B.Sc. Physical Science, II Semester, Miranda House
4. Karthik Krishnan, B.Sc. (H) Physics, VI Semester, Hindu College
5. Anandajith TS, B.Sc. (H) Physics, VI Semester, Hindu College

Project 2:

Title of the Project: Calculating speed of muon from time-of-flight data

Mentors: Dr. S. N. Sandhya, Dr. Raishma Krishnan

Students' Names:

1. PREETY, B.Sc. (H) Physics, VI Semester, Miranda House

Project 3:

Title of the Project: Social Distancing Alert System

Mentors: Dr. Mallika Verma, Dr. Monika Tomar, Dr. Geeta Rani, Dr. Sonam Singh

Students' Names:

1. Neha Rao, B.Sc. (H) Physics, IV Semester, Miranda House
2. Priyanka Jangir, B.Sc. (H) Physics, IV Semester, Miranda House
3. ATHIRA C, B.Sc. (H) Physics, IV Semester, Miranda House
4. Lakshmy Santhosh, B.Sc. (H) Physics, VI Semester, Miranda House
5. Devika M Shiju, B.Sc. (H) Physics, IV Semester, Miranda House

Project 4:

Title of the Project: Constraining parameters of a model using maximum likelihood and chi square fitting

Mentors: Dr. Nisha Rani and Dr. Abha Dev Habib

Students' Names:

1. Nikita Meena, B.Sc. (H) Physics, VI Semester, Miranda House
2. Neetu, B.Sc. (H) Physics, VI Semester, Miranda House

Project 5:

Title of the Project: A Comparative evaluation of green buildings in India using certification systems

Mentors: Dr. S.N. Sandhya, Dr. Rashmi Rakshit, Dr. Vandana Verma

Students' Names:

1. Bhoomija Chaurasia, B.Sc. (H) Physics, VI Semester, Miranda House
2. Himani Martolia, B.Sc. (H) Physics, VI Semester, Miranda House

3. Ishika Kumar, B.Sc. (H) Physics, VI Semester, Miranda House

Project 6:

Title of the Project: General theory of relativity

Mentors: Dr. Sunita Singh, Dr. Sonam Singh, Dr. Nisha Rani

Students' Names:

1. Merin Shaji, B.Sc. (H) Physics, VI Semester, Miranda House

Project 7:

Title of the Project: Influence of solar eclipse on the secondary cosmic ray to determine the contribution of sun in Cosmic Ray Flux (Quark-net)

Mentors: Dr. Raishma Krishnan, Dr. SN Sandhya

Students' Names:

1. Aikya Banerjee, Int. MS, IV Semester, IISER-Kolkata
2. Priyajit Jana, Integrated BS-MS, IV Semester, Indian Institute of Science Education and Research Kolkata

Project 8:

Title of the Project: Quark-Net and Data analysis on speed of muons

Mentors: Dr Raishma Krishnan & Dr S.N Sandhya

Students' Names:

1. Harsha P., B.Sc. (H) Physics, VI Semester, Miranda House

Project 9:

Title of the Project: Effect of Solar Flares and Distance between Sun and Earth on Cosmic Ray Muon Flux

Mentors: Dr. S. N. Sandhya, Dr. Raishma Krishnan

Students' Names:

1. Hardik Kuralkar, BS-MS, IV Semester, Indian Institute of Science Education and Research Bhopal

Project 10:

Title of the Project: A Design analysis of green building in different climatic zones

Mentors: Dr. S N Sandhya, Dr Vandana Verma, Dr Rashmi Rakshit

Students' Names:

1. Swati Tomar, B.Sc. (H) Physical Science, VI Semester, Miranda House
2. Anjali Sharma, B.Sc. (H) Physics, VI Semester, Miranda House
3. Lakshita Meena, B.Sc. (H) Physics, VI Semester, Miranda House

Project 11:

Title of the Project: Study of Muon Flux during Solar Eclipse

Mentors: Dr. S.N Sandhya, Dr. Raishma Krishnan

Students' Names:

1. Anisha Khatri, B.Sc. (H) Physics, IV Semester, Shaheed Rajguru College of Applied Sciences for Women, Delhi University

Project 12:**Title of the Project: Rainwater harvesting with green building approach**

Mentors: Dr. Vandana Verma, Dr. S. N Sandhya

Students' Names:

1. Deepika, B.Sc. (H) Physics, VI Semester, Miranda House

Project 13:**Title of the Project: The effect of temperature and atmospheric pressure on muon flux**

Mentors: Dr. S. N Sandhya, Dr. Raishma Krishnan

Students' Names:

1. Manidipa Banerjee, B.Sc. (H) Physics, IV Semester, Miranda House
2. Yash Joshi, B.Sc. (H) Physics, IV Semester, Hansraj College

Project 14:**Title of the Project: Chaotic System - Random Matrix Theory**

Mentors: Dr. Ambuj Bhushan Jaiswal

Students' Names:

1. Divya Gaur, B.Sc. (H) Physics, VI Semester, Miranda House
2. Mannu, B.Sc. (H) Physics, VI Semester, Miranda House

Project 15:**Title of the Project: Organic solar cells**

Mentors: Dr Rashmi Rakshit, Dr. Ambuj Bhushan Jaiswal

Students' Names:

1. Swati Sharma, B.Sc. (H) Physics, IV Semester, Miranda House
2. Kasak Bhat, B.Sc. (H) Physics, IV Semester, Miranda House

Project 16:**Title of the Project: Temperature of the Blackhole Event Horizon**

Mentors: Dr. Sunita Singh

Students' Names:

1. Rahul Singh, B.Sc. (H) Physics, IV Semester, Hansraj College
2. Harsh Bhardwaj, B.Sc. (H) Physics, IV Semester, Hansraj College
3. Shaibal Dutta, B.Sc.(H) Physics, VI Semester, IGNOU
4. Tanya Dhama, B.Sc.(H) Physics, VI Semester, CCSU

Project 17:**Title of the Project: Comparison Between Historic Indian monument and modern building**

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Verma, Dr. S.N. Sandhya

Students' Names:

1. Manisha Kumari, B.Sc. (H) Physics, IV Semester, Miranda House
2. Divya Rani, B.Sc. (H) Physics, IV Semester, Miranda House
3. Anjani Kushwaha, B.Sc. (H) Physics, IV Semester, Miranda House
4. Lahari V S, Bachelor of Architecture, IV Semester, University Visvesvaraya College of Engineering, Bangalore University

Project 18:**Title of the Project: Astronomical image processing**

Mentors: Dr. Sonam Singh, Dr. Sanju, Dr. Nirmala Saini, Dr. Harjeet Kaur

Students' Names:

1. Upasna Singh, B.Sc. (H) Physics, IV Semester, Miranda House
2. Apeksha Pundir, B.Sc. (H) Physics, VI Semester, Miranda House

Project 19:**Title of the Project: HVAC of Buildings in Ancient Rural India**

Mentors: Dr. Rashmi Rakshit, Dr. SN Sandhya, Dr. Vandana Verma

Students' Names:

1. Muskan, B.Sc. (H) Physics, IV Semester, Miranda House
2. Khushi Kumari, B.Sc. (H) Physics, IV Semester, Miranda House
3. Gandikota Vinita, B.Sc. (H) Physics, IV Semester, Miranda House

Project 20:**Title of the Project: Algal Biofuels: A vision towards 'Atma Nirbhar' Rural India**

Mentors: Dr. Rashmi Rakshit, Dr. Ambuj Bhushan Jaiswal

Students' Names:

1. Ahily Khirad, B.Sc. (H) Physics, IV Semester, Miranda House
2. Mukesh Kumari, B.Sc. (H) Physics, IV Semester, Miranda House

Project 21:**Title of the Project: "Bringing Nature Inside" -Materials used in the structure of the house (indoors) to improve Air Quality**

Mentors: Dr. Rashmi Rakshit, Dr. S.N Sandhya, Dr. Vandana Verma

Students' Names:

1. Hrudya Prasanth, B.Sc. (H) Physics, IV Semester, Miranda House
2. Hashima Sherin, B.Sc. (H) Physics, IV Semester, Miranda House
3. Krishna S Nair, B.Sc. (H) Physics, IV Semester, Miranda House
4. Saraga S, B.Sc. (H) Physics, VI Semester, Hindu College
5. Gopika K Nambiar, B.Sc. (H) Physics, VI Semester, Hindu College

Project 22:**Title of the Project: Reduced three body problem: Lagrange points**

Mentors: Dr. S.N Sandhya

Students' Names:

1. Diksha Garg, B.Sc. (H) Physics, VI Semester, Miranda House
2. Koushiki Pohit, B.Sc. (H) Physics, VI Semester, Miranda House
3. Anjali Yadav, B.Sc. (H) Physics, VI Semester, Miranda House
4. Eishica, B.Sc.(H) Physics, VI Semester, Miranda House

Project 23:**Title of the Project: Fuel from Plastic Waste**

Mentors: Dr. Rashmi Rakshit and Dr. Ambuja Bhushan Jaiswal

Students' Names:

1. Andeshika Singh, B.Sc. (H) Physics, IV Semester, Miranda House
2. Gurnoor Kaur, B.Sc. (H) Physics, IV Semester, Miranda House

Project 24:

Title of the Project: Organic solar cell (non - conventional sources of energy)

Mentors: Dr. Rashmi Rakshit, Dr. Ambuj Bhushan Jaiswal

Students' Names:

1. Aastha, B.Sc. (H) Physics, IV Semester, Miranda House

Project 25:

Title of the Project: Analysis of energy consumption and efficiency in residential buildings in India

Mentors: Dr. S.N Sandhya, Dr. Rashmi Rakshit, Dr. Vandana Verma

Students' Names:

1. Shally Yadav, B.Sc. (H) Physics, VI Semester, Miranda House
2. Ronak, B.Sc. (H) Physics, VI Semester, Miranda House
3. Roopal Bansal, B.Sc. (H) Physics, VI Semester, Miranda House

Project 26:

Title of the Project: Material Science Characterization Techniques-SEM Analysis

Mentors: Dr. Monika Tomar, Dr. Mallika Verma, Dr. Bilasini Naorem and Dr. Geeta Rani

Students' Names:

1. Anuska Bhuyan, B.Sc. (H) Physics, VI Semester, Miranda House
2. ABHISHEK RAMESH, B.Sc. (H) Physics Hindu College, IV Semester, University of Delhi
3. Nibrasuddeen A P, B.Sc. (H) Physics Hindu College, IV Semester, University of Delhi
4. VAISHNAV M, B.Sc. (H) Physics, Hindu College, IV Semester, University of Delhi

Project 27:

Title of the Project: Green Building: Study of green building concept in some college campuses in India

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Varma, Dr. S.N. Sandhya

Students' Names:

1. Vishnupriya Sajeew M, B.Sc. (H) Physics, IV Semester, Miranda House

Project 28:

Title of the Project: Green building: Rainwater harvesting approach

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Varma, Dr. S.N. Sandhya

Students' Names:

1. Ankita, B.Sc. (H) Physics, VI Semester, Miranda House

Project 29:

Title of the Project: Gravitational Waves

Mentors: Dr. Sunita Singh, Dr. Nisha Rani and Dr. Sonam Singh

Students' Names:

1. Aditi Javali, B.Sc. Physics, IV Semester, SRM University, Chennai
2. Rayirth Bhat, B.Sc. (H) Physics, VI Semester, Hindu College
3. Anirudh Malik, B.Sc. Physical Science, IV Semester, SGTB Khalsa College
4. Gauri Patti, B.Sc. (H) Physics, IV Semester, Miranda House

Project 30:

Title of the Project: A Study of Green roof

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Varma, Dr. S.N. Sandhya

Students' Names:

1. Smera Sohan, B.Sc. (H) Physics, VI Semester, Miranda House
2. Zainab Mohamed Firoz, B.Sc. (H) Physics, VI Semester, Miranda House
3. Najidha Abdul Gafoor, B.Sc. (H) Physics, VI Semester, Miranda House
4. T M Malavika, B.Sc. (H) Physics, VI Semester, Miranda House

Project 31:

Title of the Project: Inside the Horizon of a Black Hole

Mentors: Dr. Sunita Singh, Dr. Nisha Rani, Dr. Sonam Singh

Students' Names:

1. Reena, B.Sc. (H) Physics, IV Semester, Miranda House
2. Adhisha, B.Sc. Physical Science, IV Semester, Miranda House
3. SARANG RATHI, B.Sc. Physical Science, IV Semester, Kirori Mal College
4. Eswari Lekhya Jarajapu, B.Sc. (H) Physics, VI Semester, Miranda House

Project 32:

Title of the Project: Green Building: Study of green buildings on some college campuses in India

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Varma, Dr. S.N. Sandhya

Students' Names:

1. Nida K, B.Sc. (H) Physics, IV Semester, Miranda House
2. Nakshathra, M, B.Sc. (H) Physics, IV Semester, Miranda House
3. Priya, B.Sc. (H) Physics, IV Semester, Miranda House
4. Vaishnavi Saini, B.Sc. (H) Physics, IV Semester, Miranda House

Project 33:

Title of the Project: Flux study

Mentors: Dr. S.N Sandhya, Dr. Raishma Krishnan

Students' Names:

1. Deepanshi Singh, B.Sc. (H) Physics, IV Semester, Miranda House

Project 34:

Title of the Project: When Return meets your investment: Biomimicry and passive ventilation Revolution

Mentors: Dr. Rashmi Rakshit, Dr. Vandana Verma, Dr. S.N Sandhya

Students' Names:

1. Arundathi Dev, B.Sc. (H) Physics, VI Semester, Miranda House
2. Anirudh Sasi, B.Sc. (H) Physics, IV Semester, Hindu College

3. Chandana DS, B.Sc. (H) Physics, VI Semester, Miranda House
4. ANUPAMA RAJ E K, B.Sc. (H) Physics, VI Semester, Miranda House
5. Shubham Sunil Shende, B.Sc. (H) Physics, VI Semester, Hindu College

Project 35:

Title of the Project: Smart Home Automation System

Mentors: Dr. Monika Tomar, Dr. Mallika Verma, Dr. Geeta Rani, Dr. Sonam Singh

Students' Names:

1. Akriti Srivastava, B.Sc. (H) Physics, VI Semester, Miranda House
2. Muskan Goswami, B.Sc. (H) Physics, VI Semester, Miranda House

Project 36:

Title of the Project: General theory of relativity: Schwartzchild black hole and it's properties

Mentors: Dr. Sunita Singh, Dr. Sonam Singh, Dr. Nisha Rani

Students' Names:

1. Priyanshu Shukla, B.Sc. (H) Physics, IV Semester, Hansraj College
2. Aditi Sonal, IV Semester, Yodh singh namdhari women's college, palamu, Jharkhand, nilambar pitamber University
3. Neha, B.Sc. (H) Physics, IV Semester, Miranda House
4. Aman, B.Sc. (H) Physics, IV Semester, SGTB Khalsa College
5. Ananya Yadav, B.Sc. (H) Physics, IV Semester, Hansraj College

Project 37:

Title of the Project: Gravitational Lensing (General Theory of Relativity)

Mentors: Dr. Sunita Singh, Dr. Sonam Singh, Dr. Nisha Rani

Students' Names:

1. Rakhshanda Naureen Ansari, B.Sc. (H) Physics, IV Semester, ANDC
2. Bindu, B.Sc. (H) Physics, IV Semester, ANDC
3. Yashika Saraswat, B.Sc. (H) Physics, IV Semester, ANDC
4. Somsuvra Das, B.Sc. (H) Physics, IV Semester, ANDC

Project 38:

Title of the Project: XRD Analysis of Nanomaterials

Mentors: Dr. Mallika Verma, Dr. Monika Tomar, Dr. Bilasini Devi Naorem, Dr. Geeta Rani

Students' Names:

1. Sakshi Arora, B.Sc. (H) Physics, VI Semester, Miranda House
2. Aswin N K, B.Sc. (H) Physics, VI Semester, Hindu College
3. Madhur Pratap Singh, B.Sc. (H) Physics, VI Semester, Ramjas College

Project 39:

Title of the Project: Analysis of Green Buildings Design Based on Climate Conditions of India

Mentors: Dr. Rashmi Rakshit, Dr. S. N. Sandhya, Dr. Vandana Verma

Students' Names:

1. Neha Yadav, B.Sc. (H) Physics, VI Semester, Miranda House

Project 40:

Title of the Project: Monte Carlo Simulations and Likelihood Analysis - Constraining parameters of Lambda CDM model using time delay lenses

Mentors: Dr. Abha Dev Habib and Dr. Nisha Rani

Students' Names:

1. Anagha Prakash, B.Sc. (H) Physics, VI Semester, Miranda House
2. Farha K, B.Sc. (H) Physics, VI Semester, Miranda House
3. Denna Thomas, B.Sc. (H) Physics, VI Semester, Miranda House

Project 41:

Title of the Project: Statistical methods to constrain Parameters of Lambda CDM Model using Strong Gravitational Lensing Galaxies

Mentors: Dr. Abha Dev Habib, Dr. Nisha Rani

Students' Names:

1. Suchana Adhikari, B.Sc. (H) Physics, VI Semester, Miranda House
2. Lavish Kumar, B.Sc. (H) Physics, IV Semester, Rajdhani College
3. Shakshi, B.Sc. (H) Physical Science, IV Semester, Miranda House
4. Diksha Dewangan, B.Sc. (H) Physics, IV Semester, Dyal Singh College

Project 42:

Title of the Project: Plotting the topography of land using Arduino.

Mentors: Monika Tomar, Mallika Verma, Sonam Singh, Geeta Rani

Students' Names:

1. Gaurisha Bhatt, B.Sc. (H) Physics, IV Semester, Ramjas College
2. Prakant Singh, B.Sc. (H) Physics, IV Semester, Rajdhani College
3. Keshav Kumar, B.Sc. (H) Physics, IV Semester, Hansraj College

Project 43:

Title of the Project: Muon flux variation during solar eclipses

Mentors: Dr. Raishma Krishnan, Dr. S. N. Sandhya

Students' Names:

1. Kanhaiya Pachouri, B.Sc. (H) Physics, IV Semester, Ramjas College
2. Manish Sharma, BSc. Physical Science, IV Semester, Sri Guru Tegh Bahadur Khalsa College, University of Delhi
3. Sachin Solanki, B.Sc. (H) Physics, IV Semester, Hansraj College
4. Deepender Kumar, BSc. Physical Science, IV Semester, Kirori Mal College

Project 44:

Title of the Project: Data simulation and Chisquare fitting: Constraining λ CDM using Super Luminous SNeIc

Mentors: Dr. Abha Dev Habib, Dr. Nisha Rani

Students' Names:

1. Kartav Kesri, BSMS Natural Sciences, IV Semester, IISER BHOPAL
2. Divyansh Tripathi, BSMS Natural Sciences, IV Semester, IISER BHOPAL

3. Shashwat Sourav, Engineering Sciences, IV Semester, IISER BHOPAL
4. Jyotiraditya S Chatterji, BSMS Natural Sciences, IV Semester, IISER, BHOPAL

Project 45:

Title of the Project: Danger Detection using Hand-Gesture Recognition

Mentors: Dr. Sonam Singh, Dr. Nirmala Saini, Dr. Harjeet Kaur, Dr. Sanju

Students' Names:

1. Yamini Paliwal, Physical Science, VI Semester, Miranda House
2. Isha Yadav, B.Sc. Physical Science, VI Semester, Miranda House
3. Shreya Saini, B.Sc. Physical Science, VI Semester, Miranda House
4. Aarushi Dubey, B.Sc. Physical Science, VI Semester, Miranda House
5. Sanu Soumya, B.Sc. Physical Science, VI Semester, Miranda House

Project 46:

Title of the Project: Quark- Net and data analysis on speed of muons

Mentors: Dr. S.N Sandhya, Dr. Raishma Krishnan

Students' Names:

1. Dharitri Daimary, B.Sc.(H) Physics, VI Semester, Miranda House
2. Amrutha V Devan, B.Sc. physical science, VI Semester, Miranda House
3. Harsha P, B.Sc.(H) Physics, VI Semester, Miranda House

Project 47:

Title of the Project: Applied quantum mechanics: Heavy quarkonium systems

Mentors: Dr. Divakar Pathak

Students' Names:

1. Neha Sharma, B.Sc.(H) Physics, VI Semester, Miranda House
2. Seema, B.Sc.(H) Physics, VI Semester, Miranda House

DEPARTMENT OF ZOOLOGY

The Department of Zoology conducted the following student research projects under DSKC.

Project 1:

Title of the Project: Impacts of Climate Change on Coral Reefs and Its Ecosystems

Mentors: Dr. Jyoti Arora

Students' Names:

1. Swathi B. Chaudhary, B.Sc. (H) Zoology, IV Semester, Miranda House

Project 2:

Title of the Project: Neuro-Behavioural Effects of Birdsongs on Humans

Mentors: Dr. Shovit Ranjan, Dr. Deepak Yadav and Ms. Saba Zulfiquar

Students' Names:

1. Swathi B. Chaudhary, B.Sc. (H) Zoology, IV Semester, Miranda House
2. Ritu, B.Sc. (H) Zoology, II Semester, Miranda House
3. Riya Phogat, B.Sc. (H) Zoology, II Semester, Miranda House

4. Udita Chauhan, B.Sc. (H) Zoology, II Semester, Miranda House
5. Prateeksha Asati, B.Sc. (H) Botany, II Semester, Miranda House
6. Yoshita bhardwaj, B.Sc. (H) Botany, II Semester, Miranda House

Project 3:

Title of the Project: Environmental factors playing role in transmission of Covid-19 in India: A Bio- statistical analysis

Mentors: Dr. Yasha Yadav, Dr. Pooja Suman

Students' Names:

1. Nisha Bhati, B.Sc.(H) Zoology, IV Semester, Miranda House
2. Poulami Mondal, B.Sc. (H)Zoology, IV Semester, Miranda House
3. Navodita Seth, B.Sc.(H) Biomedical Science, VI Semester, ANDC
4. Shubhdeep Kaur, B.Sc. Life science, SGTB Khalsa College
5. Charvi Nayyar, B.Sc.(H) Biochemistry, IV Semester, Institute of Home Economics
6. Sheetal kaur, B.Sc. Life science, IV Semester, SGTB Khalsa College
7. Avneet kaurmaan, B.Sc. Life science, SGTB Khalsa College
8. Chhavi Tomer, B.Sc. Life science, VI Semester, Miranda House
9. Amulya, B.Sc. Life science, VI Semester, Miranda House
10. Sindhu Khanna, B.Sc. Life science, II Semester, Miranda House
11. Bhagyalakshmi R K, B.Sc. Life science, II Semester, Miranda House
12. Khushboo Singh, B.Sc. Life science, VI Semester, SGTB Khalsa College
13. Neha Nandini, B.Sc. Life science, Miranda House
14. Geetika, B.Sc. (H)Zoology, Miranda House
15. Anmol, B.Sc. (H)Zoology, Miranda House
16. Nidhi, B.Sc. (H)Zoology, Miranda House
17. Annie Jimmy, B.Sc. (H)Zoology, Miranda House
18. Deepanshi Agarwal, B.Sc. Life science, VI Semester, Miranda House

Project 4:

Title of the Project: Covid vaccination blog (Blog writing and biostatistics) Permafrost degradation (Article writing)

Mentors: Dr. Pooja Suman and Dr. Yasha Yadav (for covid) and Dr. Jyoti Arora (for permafrost article writing)

Students' Names:

1. Vidhi Singh, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 5:

Title of the Project: Blog writing on new frontiers in drosophila research during COVID 19 Pandemic

Mentors: Dr. Pooja Suman and Dr. Yasha Yadav

Students' Names:

1. Vidhi Singh, B.Sc.(H) Zoology, IV Semester, Miranda House
2. Aastha, B.Sc. (Hons.) Bio Medical Science, VI Semester, Acharya Narendra Dev College
3. Poulami Mondal, B.Sc. (H)Zoology, IV Semester, Miranda House
4. Navodita Seth, B.Sc.(H) Biomedical Science, VI Semester, ANDC

5. Nisha Bhati, B.Sc.(H) Zoology, IV Semester, Miranda House
6. Shubhdeep Kaur, B.Sc. Life science, SGTB Khalsa College
7. Charvi Nayyar, B.Sc.(H) Biochemistry, IV Semester, Institute of Home Economics
8. Sheetal Kaur, B.Sc. Life science, IV Semester, SGTB Khalsa College
9. Avneet Kaurmaan, B.Sc. Life science, SGTB Khalsa College
10. Chhavi Tomer, B.Sc. Life science, VI Semester, Miranda House
11. Amulya, B.Sc. Life science, VI Semester, Miranda House
12. Bhagyalakshmi R K, B.Sc. Life science, II Semester, Miranda House
13. Khushboo Singh, B.Sc. Life science, VI Semester, SGTB Khalsa College
14. Neha Nandini, B.Sc. Life science, Miranda House
15. Geetika, B.Sc. (H)Zoology, Miranda House
16. Anmol, B.Sc. (H)Zoology, Miranda House
17. Nidhi, B.Sc. (H)Zoology, Miranda House
18. Annie Jimmy, B.Sc. (H)Zoology, Miranda House
19. Deepanshi Agarwal, B.Sc. Life science, VI Semester, Miranda House

Project 6:

Title of the Project: The Impacts of Climate Change on Gangetic Dolphins

Mentors: Dr. Jyoti Arora

Students' Names:

1. Sruti Singha Mahapatra, B.Sc.(H) Zoology, II Semester, Miranda House

Project 7:

Title of the Project: Impacts of climate change on Tropical Rainforests

Mentors: Dr. Jyoti Arora

Students' Names:

1. Nikita Chauhan, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 8:

Title of the Project: Impact of climate change on Agriculture in India

Mentors: Dr. Jyoti Arora

Students' Names:

1. Pooja, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 9:

Title of the Project: Analysis of disordered regions in PE/ PPE family proteins of MTb using in silico approach

Mentors: Dr. Monika Sharma and Dr. Sadhna Sharma

Students' Names:

1. Kritika Arora, B.Sc.(H) Zoology, IV Semester, Miranda House
2. Atheena Abhaya kumar, B.Sc.(H) Zoology, VI Semester, Miranda House

Project 10:

Title of the Project: Designing of Universal Subunit Influenza Vaccine using Reverse Vaccinomics Approach

Mentors: Dr. Monika Sharma and Dr. Sadhna Sharma

Students' Names:

1. Kamakshi Singh, B.Sc.(H) Zoology, IV Semester, Miranda House
2. Samridhi, B.Sc.(H) Zoology, IV Semester, Miranda House
3. Sakshi Kushwaha, B.Sc. Life Science, IV Semester, Miranda House
4. Radhika Khatter, B.Sc. Biotechnology (research), VI Semester, Shiv Nadar University
5. Riya Roy, B.Sc. Hons. Biochemistry, VI Semester, Institute of Home Economics, University of Delhi
6. Tejaswini Pattanaik, B.Sc.(H) Zoology, IV Semester, Miranda House
7. Shreya Choudhuri, B.Sc. Life Science, IV Semester, Miranda House
8. Indu Singh, M.Sc biotechnology, II Semester, Central university of Rajasthan
9. Disha Chaudhary, B.Sc. Life Science, VI Semester, Miranda House
10. Shivani Bajaj, B.Sc.(H) Zoology, IV Semester, Ramjas College
11. Tanya, B.Sc.(H) Zoology, IV Semester, Miranda House
12. Ved Richa, B.Sc. Life Science, IV Semester, Dyal Singh College

Project 11:

Title of the Project: Mining eukaryote like SH3 domains in PE/PPE Protein family of Mycobacterium tuberculosis

Mentors: Dr. Monika Sharma and Dr. Sadhna Sharma

Students' Names:

1. Ritika Mukherji, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 12:

Title of the Project: Impact of climate change on small islands

Mentors: Dr Jyoti Arora

Students' Names:

1. Poulami Mondal, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 13:

Title of the Project: Effects on the relation between hemispheric lateralization of human brain and human personality traits: A study

Mentors: Dr. Deepak Yadav, Dr. Shovit Ranjan, Ms. Saba Zulfiqar and Dr. Ritwick Mishra

Students' Names:

1. Damayanti Dasgupta, B.Sc.(H) Zoology, II Semester, Miranda House
2. Chaitanya Sunil Bhardwaj, B.Sc.(H) Zoology, II Semester, Miranda House
3. Khushi Soni, B.Sc.(H) Zoology, II Semester, Miranda House
4. Archana Hijam, B.Sc.(H) Zoology, II Semester, Miranda House
5. Khushi Mahajan, B.Sc.(H) Zoology, II Semester, Miranda House
6. Shriya Bhat, B.Sc.(H) Zoology, II Semester, Miranda House
7. Prachi Mishra, B.Sc.(H) Zoology, II Semester, Miranda House
8. Manaswini Behera, B.Sc.(H) Zoology, IV Semester, Miranda House

Project 14:

Title of the Project: Impact of Covid-19 “Pandemic” on Rural and Urban Population in India

Mentors: Dr. Deepak Yadav, Dr. Shovit Ranjan, Ms. Saba Zulfiqar

Students’ Names:

1. Bhagyalakshmi R K, B.Sc. (Prog.) Life Sciences, II Semester, Miranda House
2. Charvi Nayyar, B.Sc. Hons. Biochemistry, IV Semester, Institute of home Economics, University of Delhi
3. Aashi Singh, Jamia Millia Islamia, New Delhi
4. Fariha Hamdani, Jamia Millia Islamia, New Delhi
5. Harshita Sharma, Miranda House
6. Himanshi Gogini, Institute of home Economics, University of Delhi
7. Shyonika Chatterjee, Sri Venkateswara college, University of Delhi
8. Shreya Saxena, Miranda House
9. Sierra Bilal, Jamia Millia Islamia, New Delhi
10. Sindhu Khanna, B.Sc. (Prog.) Life Sciences, II Semester, Miranda House
11. Sukriti Sharma, B.Sc. Life Sciences, IV Semester Miranda House
12. Yuktika Pandya, B.Sc.(H) Zoology, VI Semester Miranda House

Project 15:

Title of the Project: Gut microbiome and Depression: Connecting links through Norepinephrine

Mentors: Dr. Rekha Kumari

Students’ Names:

1. Vanshikha Bhardwaj, Miranda House

Project 16:

Title of the Project: Gut microbiome and Depression: Role of Serotonin, the happy hormone

Mentors: Dr. Rekha Kumari

Students’ Names:

1. Anubha Gupta, Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh

Project 17:

Title of the Project: Impact of Climate Change on Evolutionary Processes

Mentors: Dr. Jyoti Arora

Students’ Names:

1. Sankritya Sarma, B.Sc. Life Sciences, IV Semester, Hansraj College

Project 18:

Title of the Project: Permafrost Degradation: Factors and impacts

Mentors: Dr. Jyoti Arora

Students’ Names:

1. Vidhi Singh, B.Sc. Zoology, IV Semester Miranda House

Teacher Mentors

Botany Department

Dr. Janaki Subramanyan
Dr. Neetu Chaudhary
Dr. Rashmi Shakya
Dr. Renuka Agrawal
Dr. Saloni Bahri
Dr. Somdutta Sinha Roy

Computer Science Department

Dr. Seema Aggarwal

Mathematics Department

Ms. Apeksha
Dr. Daulati Rani
Mr. Mohit Kumar Macchal
Mr. Mohammad Sarik Idrisi

Zoology Department

Dr. Sadhna Sharma
Dr. Monika Sharma
Dr. Jyoti Arora
Dr. Pooja Suman
Dr. Yasha Yadav

Chemistry Department

Dr. Mallika Pathak
Dr. Sharda M. Sonkar
Dr. Malti Sharma
Dr. Kalawati Saini
Dr. Smriti Sharma Bhatia
Ms. Anita Kumari
Dr. Poonam
Dr. Anshika Lumb
Dr. Deepti Rawat

Physics Department

Dr. Mallika Verma
Dr. Rashmi Rakshit
Dr. Sanju
Dr. Vandana Verma
Dr. Abha Dev Habib
Dr. Bilasini Devi Naorem
Professor Monika Tomar
Dr. S. N. Sandhya
Dr. Sonam Singh
Dr. Divakar Pathak
Dr. Sunita Singh
Dr. Geeta Rani
Dr. Nisha Rani
Dr. Nirmala Saini
Dr. Ambuja Jaiswal
Dr. Harjeet Kaur

Support Staff

Mr. Khem Raj

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Professor Bijayalaxmi Nanda
DSKC Coordinator / PI

Professor Monika Tomar
Programme Coordinator