



Miranda House

UNIVERSITY OF DELHI

Internal Academic Audit

Department:

Academic Year: 2021-22 (from 1 July 2021 to 30 June 2022)

Steps taken by the Department to ensure rich inclusive teaching-learning environment

- Mentor-mentee program was strengthened. The awareness regarding the programme was increased amongst students. Teachers reached out to their mentees and made themselves available for discussions etc as required. Mentors held meetings with mentees. In some cases, one-to-one sessions were also held.
- A workshop, “Experiments in Curriculum” was conducted from 16th-25th February, 2022 to give hands-on experience to students. The workshop aimed at giving opportunity to students to work on experiments listed under Physics labs, which were earlier covered through online simulations owing to COVID. The Workshop included experiments listed for the following labs: Thermal Physics, Digital Systems, Electricity and Magnetism and Mechanics. The following teachers volunteered to conduct the Workshop:
 - Thermal Physics: Dr. Rashmi Rakshit and Dr. Ambuja Jaiswal
 - Digital Systems and Applications: Prof. Monika Tomar and Dr. Geeta Rani
 - Electricity and Magnetism: Dr. Abha Dev Habib and Dr. Divakar Pathak
 - Mechanics: Dr. Bilasini Devi Narorem and Dr. Nisha Rani
- **Summer Workshop for Undergraduate Science Students**, Flavor of Research: Investigative Projects in Multidisciplinary Contexts held at the D. S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi was held from **15 June to 31 July 2021**. Sixteen faculty members of the Physics Department mentored 47 Summer Projects. Out of
 - 125 undergraduate students who successfully worked on projects, 45 students were from other institutions.
 - A large number of students successfully complete their undergraduate research projects withing the College and outside institutions of repute.
 - Many teachers have participated in FDPs in the academic year 2021-2022. Most of these FDPs are regarding use of ICT in teaching-learning.
 - Coming out of the pandemic, the Physics Society strengthened the following series:
 1. Journeys: Former students are invited to share their research work and journeys.
 2. PhyCξ: Series through which students present the UG research they may have successfully completed within and outside the institution. It helps students to learn about opportunities, how, where and when to apply for internships.
 3. “What Next??: Former students are invited to talk about their career choices and how they prepared well for them.
- Labs were refurbished with new equipment to cater to the needs of the labs.
- Teaching-learning and beyond classroom activities are organized through committees as shared



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responsibilities. In order to strengthen the connection with former students, the Department introduced a committee, Alum Relation Committee. The Committee has successfully strengthened the documentation of student progression.

- Teachers went beyond the load of 14/16 hours/initial assigned teaching to cope with delays in appointment of guest and ad-hoc teachers against vacancies.

Difficulties Faced:

- Delay in appointments of guest/ad-hoc teachers resulted in difficulties for the Department in the organization of teaching-learning. Teachers had to take additional load to cope with these delays so that classes did not go unmet.
- Many Lab Staff have retired and hiring has been delayed.
- In NEP curriculum the focus on programming has increased. The Department has over 50 laptops and computers. The Department requires a technical staff for maintaining these systems.

Future Plans

- The Department will explore ways of introducing experiential learning through SEC introduced under the UGCF 2022.
- The Department will host documentary films and readings about lives and work of Indian Scientists as part of the celebration of *Azadi Ka Amrit Mahotsav*.
- The Department will organize workshop for the lab-staff.

A handwritten signature in black ink, appearing to read 'Nisha', written over a horizontal line.

Dr. Nisha Vashishta
Coordinator, IQAC