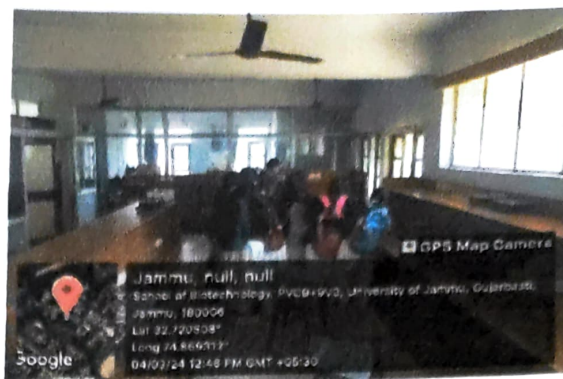


## **Report on One-Day visit of college students under Scientific Social Responsibility (SSR) activity for SERB-CRG file No. CRG/2019/000326.**

The Department of Physics, University of Jammu, Jammu, organized a one-day Scientific Social Responsibility (SSR) activity on 04/03/2024 as a component of the research project **"Microscopic study of shape evolution and exotic nuclear phenomena in even-even nuclei in the mass region  $A \approx 120$ ,"** funded by SERB-DST, New Delhi (Principal Investigator (PI) of the Project: Dr. Rani Devi, Associate Professor, Department of Physics). Under this activity, the Principal of Govt. College for women was requested for deputing some talented students. **Twenty-six** students of B.Sc. Physics Semester VI along with four faculties of Physics from **Govt. College for Women, Gandhi Nagar Jammu, Jammu** visited the postgraduate (PG) and research laboratories of the Department of Physics. The proceedings commenced with a warm welcome extended to the students, esteemed faculty members of the college and esteemed guests which included Professor Anju Bhasin, Dean Academic Affairs and Dean Faculty of Science, University of Jammu, Professor Naresh Padha, Senior Professor of the Department of Physics and Ex Dean Academic Affairs, University of Jammu and Head of the Department, Professor K. K. Bamzai by Mrs Saima Sadiq, Senior Research Fellow of the Nuclear Theory lab, Department of Physics. The purpose of this activity at the PI Institute was to foster research culture among college students and to interact with the faculty and research scholars of the institute. In this programme, the PI, Dr. Rani Devi deliberated on the SSR policy of SERB and delivered a lecture on **"Ground state properties of nuclei."** She addressed the students with her ongoing SERB-CRG project and made them aware of the radioactive ion beam facilities used to measure the ground state properties of nuclei. In addition, while encouraging the students to take research as a career in upcoming years, her lecture also gave insights to the students on the nuclear models used to interpret the ground and excited state properties of nuclei. Prof. Anju Bhasin and Prof. K.K. Bamzai addressed the students by providing information regarding all ongoing research programs conducted at the Department of Physics and encouraged them for taking research as a career in the future. Prof. Naresh Padha deliberated upon the Viksit Bharat@ 2047 mission of the Prime Minister and the role of science and technology in the developing world. Prof. K.K. Bamzai also deliberated on the theme of 'National Science Day 2024' that is **"Indigenous Technologies for Viksit Bharat"** which **emphasizes upon promoting public appreciation for the country's achievements in Science, Technology and Innovation to address challenges through home-grown technologies for overall development.** The other half of the visit was completely focused on providing exposure to students with experiments in PG and research labs of various specialized research fields of the Department of Physics. The faculties, technical staff and research scholars of respective labs demonstrated various experiments performed in these labs.

At the end of the visit, all the students and accompanying faculties were awarded with an appreciation certificate for taking an interest and participating as a visitor to the PG and research laboratories of the Department of Physics. The program concluded with a vote of thanks offered by Dr. Rani Devi, Associate Professor, Department of Physics.





*Rani*

Dr Rani Devi

Principal Investigator

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Project File No. CRG/2019/00076

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