

**Ram Lal Anand College**  
**Department of Geology**  
**Annual Report 2023-24**

The session began with orientation of the newly joined I Yr students on 16th August, 2023. After lecture and interaction session, the students were taken around the college to familiarize them with the various facilities available to them and acquaint them with different nooks and corners of the college.

On 27th September, 15 students from the department visited Pragati Maidan to attend the CSIR Mega Exhibition celebrating their Decadal Achievements.

Students, Faculty and Non-Teaching staff of the department participated in Clean Campus Drive on 16th October, 2023. 35 students, 6 faculty and one non-teaching staff participated enthusiastically to clean the campus including class rooms and laboratories of the department, ground and corridors of the college building.

In celebration of the Earth Science Week, a lecture entitled “Unveiling the Geomorphological Challenges of India: Insights and implications” by Prof. Vimal Singh from Department of Geology, University of Delhi was attended by the 6 faculty members and 85 students. It was followed by a poster making competition participated by 30 students.

On 23rd November, 2023 a webinar entitled “Crystallization of Lunar Magma and its Relation to Earth’s Formation” was held. Mr. Bram de Winter (Pursuing Ph.D in Earth Sciences) was the resource person. On 24th November, 2023, 17 students of 3rd Yr along with 2 faculty members, Dr. Sarbari Nag and Ms. Pooja Yadav went for an industrial visit to Atomic Mineral Directorate for Exploration and Research, R.K.Puram, New Delhi to learn about the various investigations carried out in the field and laboratories for exploration of radioactive minerals.

A Tier III Training was conducted by the Central Ground Water Board, Ministry of Jal Shakti, in collaboration with this department. 124 students received training along with 24 faculty members. was held on 29<sup>th</sup> November, 2023. It involved Groundwater hydrology, conservation and management, monitoring, quality assessment, the fundamentals of groundwater movement, aquifer characteristics, and recharge processes along with some case studies.

Alumni talk by Apoorv Awasthy (2015-18 batch) was held on 30<sup>th</sup> November, 2023. On 23<sup>rd</sup> January, 2024, Mukul Dhankar (2017-20 batch), currently working with ONGC, interacted with the current students related to job prospects in government and private sectors as well as current and changing scenario in the skill set required for suitable career progression. He also shared his experiences as a student and as a professional to guide the students. On 31<sup>st</sup> January, 2024, Dr. Nitin Khandelwal (2014-17 batch) delivered a lecture on “Geonannocomposites for sustainable water purification” and guided students about current trends and how to proceed for a career in geosciences.

From 6<sup>th</sup>-12<sup>th</sup> February, 28 students of Semester IV were taken to Almora, Uttarakhand for geological field training by 4 faculty members, Drs. Prabhas Pande, Ravish Lal, Ms. Pooja Yadav and Mr. Arun

Kumar. They were trained about the field settings of different types of rocks, their structures, both primary and secondary and how to collect and record data in the field.

On 29<sup>th</sup> February, 2024, faculty members Ms. Pooja Yadav and Mr. Arun Kumar took six students of the department to CGO complex, New Delhi to attend Second Tranche Auction of Critical and Strategic Mineral Blocks organized by the Ministry of Mines. The students learned about the rules and regulations of mineral industry and resource management practices.

On 28<sup>th</sup> and 29<sup>th</sup> February, '24 annual fest of the department VASHANKH'24 was celebrated with full enthusiasm and gusto. Retirement felicitation of one of the founding faculty of the department, Dr. Prabhas Pande was held on 28<sup>th</sup> February, '24.

A field tour to Jahapanah city forest and Satpula Rain Water Conservation Structures were conducted on 5<sup>th</sup> March, 2024 by Drs. Sarbari Nag, Ravish Lal, Ms. Pooja Yadav and Mr. Arun Kumar. Scientists from the Central Ground Water Board (CGWB), Ministry of Jal Shakti, explained how the structures work, geological suitability of the site etc.

The 3<sup>rd</sup> yr students were taken to AMD Radioactive and exploration site at Narnaul-Khetri area by Dr. Sarbari Nag. They learned how mapping is done using Total-station, methods and types of drilling during different stages, difference in the degree of radioactivity at background level and at mineralization zone, different types of cores recovered during different stages of drilling, studying of recovered cores to estimate degree of mineralization. At Khetri copper mine the students learned how cross sectional map is created and ore bodies are delineated using core data. They observed cores and the variation in lithology due to mineralization, processing and preservation of core for ore estimation and future studies respectively. Museum at the mine gave glimpses of activities of the mine through time.





Rain Water Harvesting Structures in Jahapanah City forest & Ancient Structure in Satpula 5th March 2024



CSIR Decadal Achievement Exhibition 27 September, 23

Atomic Mineral Directorate, 24 Nov, 23

Strategic Critical Mineral Block Auction, 29 Feb, 24

Industry visits by the Department of Geology



Field visits by the Department of Geology



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TIC (Department of Geology, RLAC)