



AURUM

Newsletter 2022-23

Department of Chemistry

VIDYA BHAWAN RURAL INSTITUTE

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Department of Chemistry

2022-23



VIDYA BHAWAN RURAL INSTITUTE,
UDAIPUR



Faculty corner

The Department always attempts to fulfill its dream of inculcating human skills, and employable skills in the students. We are pleased to present our eight edition of AURUM.

Academic co-curricular activities

Orientation Program:

Orientation programmes are intended to acquaint new students with the faculties, facilities, and surroundings of a campus. It helps them forge important connections with their academics and create networks with their classmates. The major purpose of the orientation programme is to assist new students in understanding the institution's nature, the educational options available to them, as well as the organization's principles and functions.



The Chemistry Department welcomed the M.Sc. Sem-I students on December 13th, 2022, with an orientation session. The event started with the formal welcome of the staff and the newly admitted students. Dr. Saba Khan highlighted the unique qualities of the department and the college in a power point presentation. The students were made aware of the value and potential of the M.Sc. in Organic and Analytical Chemistry. They learned about the CBCS pattern, credit system, the syllabus, and the marking scheme. Along with the academic calendar, timetable,

the department's various extracurricular activities, such as the fresher and farewell parties, lab and industrial tours, seminars, etc., were also shared to the students. The NSS and Rover Units, the student election process, as well as the college's sports and cultural events were explained.

Dr. Anju Jain informed the students about the MOU with Ozone House and the benefits of its training and encouraged the students to give their best. Dr. Manish Rawal addressed the students and encouraged them to put forth their best effort and achieve success in life.

A motivational video on "Famous Failures", was screened for the students, followed by a video on lab safety. The program ended with an icebreaker activity game that emphasized the value of teamwork.

Extension lecture with hands-on practical session:

On September 13, 2022, the Department of Chemistry hosted an extension lecture for its M.Sc. students. Head of Polymer Science and Rubber Technology at VBPC, Dr. Vikram Singh Kumawat addressed the session. He outlined the different ways that polymers are used in daily life. In a very captivating and interesting lecture, he described their structures, characteristics, and uses. After that, the students went to the lab to learn how rubber sheets are made from natural rubber latex. He described the usage of fillers, activators, anti-degradants, vulcanizing agents, etc. during this hands-on practical. He then demonstrated the several stages involved in making a tire while describing the compounding, mixing, and processing of rubber products. Then he went on to describe and demonstrate tire curing. In addition, the students studied the physical properties and testing of rubber. By using a hardness tester, the students independently assessed the product's hardness. Students also gained knowledge of how the Demattia flexing machine, abrasion tester, and curing press operate.



MOU:

An MOU was signed between Department of Chemistry, VBRI and Ozone Test House on 14th Oct 2022. This MOU's goal is to help students acquire practical lab skills and ethical lab practices. It aims that students get practical learning training in water analysis, equipment handling, and best lab practices throughout the course of a 10-day training programme.



Through this collaboration, students received industrial training and exposure that helped prepare them for a seamless transition from academic to professional life. In the first batch nine students, Aryan Vijayvergiya, krishnkant Damami, Karn Menaria, karan Das Vaishnav, Mayank Suthar, Nitesh Prajapat, Pankaj Dangi, Yash Darji and Vikram Singh successfully completed the training. They were provided certificates after successful completion of the training.

Seminars and internal exams: Every year, the PG students deliver seminars on various topics from the syllabus as a regular feature of the department. This helps to improve communication and teaching abilities. To gauge their comprehension of the course material, internal tests were also conducted. These tests give the students the opportunity to assess their learning abilities as well as practice for the major exams. This year,

students were assigned to prepare and submit PowerPoint presentations as part of their regular assignments, which also helped them enhance their ICT abilities.

Lab Visit:

Visiting an industry is one of the practical teaching strategies. It is advantageous because it gives the students the opportunity to interact with real business professionals and familiarizes them with business practices and workplace dynamics. Additionally, it aids in locating employment prospects in these fields. An industrial visit to Nitin spinners Ltd, Begun near Bhilwara was organized for the M.Sc. Pre. and final students of chemistry department on 8th Feb 2023.



Students were given a detailed insight by the production manager on floor. It was intriguing to know that their weaving division has 168 high-speed Airjet looms, as well as facilities for dyeing, printing, and finishing with a capacity of 30 million mtrs annually. The students observed simple cotton textile production machines in use and learned how the warp thread and weft yarn are crossed over one another in a certain way throughout the weaving process to produce the desired type of fabric. They were also made aware of the process used to produce printing designs for leading cloth brands. The students also gathered information regarding effective re-utilization of waste water resources.

Co-curricular activities

"Hindi week" celebration : Several events was held in the college from 8th to 14th Sept to honour "Hindi Week." Students of the M.Sc. Chem. also participated in the various events. Anshuman Dadhich won the first place in hindi poetry competition, and Nitesh Prajapat, came

in second in the essay competition. In the debate, Aryan Vijayvergya took first place, Nasreen Parveen came in second place speaking against the topic, and Anshuman Dhadhich took first place, speaking in favour of the topic. Nitesh Prajapat took first place in hindi general knowledge competition.



Poster Competition:

On Nov 15th 2022, the department of chemistry held a poster competition in which fourteen groups in all took part. The topics for the activity were:

Water quality and water pollution, Latest development/discovery in field of Chemistry, Sustainable chemistry for green world, Chemistry in daily life, Pollution a major threat to earth, About any scientist.

The first prize was secured by Pramila Bhat (3rd year Bio batch). Nikita Kumawat (3rd year Bio batch) won the 2nd prize and 3rd position was jointly shared between Girija Vaishnav (3rd year Bio batch) and Anshumaan Dhadhech and Nasreen Parveen (M.Sc. Chem Sem II). Manisha Jalora of Sem II won the third prize in poster competition held by Mathematics Department.



Fire Mock Drill:

The Department of Chemistry conducted a mock drill on



22nd Nov to train the faculty, staff, and students on how to manage and put out a lab fire. Mr. Varun Sharma gave an overview of the different kinds of fire

extinguishers that are available as well as the types of fires that are taken into consideration. This includes A type (solid fire), B type (liquid fire), and C type (gases and electric fire). He continued by describing how to use the fire extinguisher. After that, the faculty members also practiced to put out the fire in emergency cases.

Fresher party

Fresher's Party serves to warmly welcome new students



and to support their creative talents in order to boost their confidence. Jovial smiles and high spirits marked the welcome party for the students on 3rd Jan 2023. The program started with lamp lightening by the

Department faculties and inaugural speech by Head of the department, Dr. Anju Jain.

Freshers got a chance to showcase their talent through ramp walk that was divided into three rounds. In first Round, the contestants stepped up the ramp and made introductions. The second round, which was a talent round, featured a variety of song and dance performances from the shortlisted participants, followed by final question answer round. Mr. Kunal Kumar Purohit and Miss Shivani Verma were chosen as the Mr. and Miss Fresher.

Games:

Jayesh Nagda of M.Sc. sem II won bronze medal in Inter college Chess tournament, MLSU held at Chittorgarh on 2nd-3rd Nov 2022.

Parv Chaubisa, student of M.Sc Sem II won bronze medal in Inter college badminton tournament held at Chittorgarh.

Karn menaria student of Sem IV represented the Rajasthan open team in National American Football tournament 2022 held at Lovely Professional University,

Punjab, (16thSept-20th Sept) where the team secured gold medal.

Anjali Gameti of Sem –I, won bronze in both Power lifting and weight lifting Inter Collegiate tournaments organized by Arts College MLSU on 15-17th Dec 2022.



Recruitment:

1. Campus placement was held on 8th Oct 2022 for C.V. tech lab. Five students were short listed from which Miss Jaya Mandot was selected and offered the job.

2. An off-Campus placement for PI Industries Ltd, was conducted for immediate passed out students of M.Sc. Organic chemistry on 2nd March 2023 at PI industries. Six students of M.Sc. appeared for the written exam and interview. Mr. Himmat Bhoi, was selected for the post of Executive Trainee in Process R&D.

2. A Campus drive was organized on 27th April 2023 for M.Sc. Chemistry and B.Sc. students for the post of trainee in Yutika Natural private Ltd. Total 31 students appeared for the interview from which 11 students were short listed and 6 M.Sc. students were given the job offer.

Faculty Achievements: One week professional development program on "Implementation of NEP 2020 by IGNOU and PMMMMNMTT ,of ministry of Education Completed by Dr. Anju Jain, Dr. Saba khan and Dr. Rehana Khanam.

1.Dr. Anju Jain: One week online national FDP on "developing positive mental health for teaching-learning environment" by GAD-TLC, A centre of Ministry of Education Under PMMMMNMTT,of ministry of Education. 25th -31st Jan. 2023.

2.Dr. Rehana Khanam: a) Patent issuance for IOT based device for assessing magnetic field of bar magnet and method of assessment thereof.

b) Awarded with "Rashtriya Pratishta Puruskar" by worthy wellness foundation, Lucknow.(April 2023)

3.Dr. Daksha Sharma: a) Awarded with "Best Innovation Award" by Genesin of Educational Impressions, Uttrakhand.(4th Sept 2022)

b) Awarded with "Young Scientist Award" by The Royal Science Forum,India.

Chapter published:

1. Polyoxometalate: A sustainable material for environmental remediation, Sustainable Materials for Sensing and Remediation of Noxious Pollutants, Elsevier, 2022, 297-313,

<https://doi.org/10.1016/B978-0-323-99425-5.00021-9>

4. Dr. Saba Khan : a) One week online national FDP on "Safer and greener chemistry labs" by GAD-TLC, A centre of Ministry of Education Under PMMMMNMTT,of ministry of Education. 19th -25th July 2022. (With A+ grade).

Application Details	
APPLICATION NUMBER	202311002653
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/01/2023
APPLICANT NAME	1. Mr. Vikram Singh Bhati 2. Dr. Abhishek Saxena 3. Retired professor S.N.A. Jaaffrey 4. Dr. Ravi Khatwal 5. Dr. Rehana Khanam 6. Deepesh Dhanwani 7. Raviraj singh rathore 8. Aman Sharma 9. Anchal priya yadav 10. Neha Kumari
TITLE OF INVENTION	IOT BASED DEVICE FOR ASSESSING MAGNETIC FIELD OF BAR MAGNET AND METHOD OF ASSESSMENT THEREOF
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	patenpublication@gmail.com

Student achievements:



It was a proud and happy moment for the Department when, Bharat Chaudhary, student of M.Sc. Organic Chemistry of batch (2019-21) was facilitated with the gold medal in M.Sc. Chemistry at MLSU University convocation ceremony on 20th Dec 2022. He secured 9.04 CGPA.

Result:

In the academic session 2021-22, in the under graduate section, Kishan Lal Bhil stood first with 81.69% Sumitra Parmar stood second with 80.01%, Pavan Solanki stood third securing 77.14% in Bio batch. Deepak Lakhara secured 77.12% bagging the 1st position and Hemlata Dangi at 2nd position with 75.57%. Surendra Singh Jhala stood third with 73.27% in Maths Batch. In M.Sc Final (batch 2020-22), the first position was secured by Shalini Seth with 8.67 SGPA and 2nd position by Khushbu Suthar 8.33 SGPA. M.Sc previous (batch 2021-23) Santosh dangi secured first position with 8.17 SGPA while Jinal jain stood second with 8.0 SGPA.