DEPARTMENT OF CHEMISTRY

RUSA 2.0

SUMMARY OF EXPENDITURE

HEADS/YEAR	2022-23	2023-24	2024-25
Software	1135160		
Chemicals/Glassware	1371515		
Seminar	99811		
Study Tour/Industrial Training/Internship		100000	78398
Patent/Promotion of Research	80000	32000	40000
FDP	70000		
Conference/ Capacity Building	164474		164014
Career Counseling		10750	
Skill Development		75400	-
Industrial Visit		104123	
Guest Lecture/Teaching-Learning		35995	29250
Lab Maintenance	474600	120013	
GRAND TOTAL	3395560	478281	311662

SOFTWARE

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23	1000000 135160	1135160	_	Gauss View 6 & Gaussian Software installed in Chemistry Computer Lab: Enhancement of skill based teaching-learning & research capabilities Beneficiaries: 15 (Research scholars)	Empowering research output and providing cutting-edge education through innovative teaching-learning pedagogy as per the need of curriculum

CHEMICALS & GLASSWARE

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23	1000000 371515	1371515		Chemicals & Glassware procured for UG/PG Lab courses: Effective functioning of labs, performance of experiments/ skill enhancement activities/ project/ research work Beneficiaries: All UG & PG students	Lab courses are an integral part of curriculum for chemistry students. To strengthening experiential learning component, provision of laboratory consumables is essential

SEMINAR

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23	100000	99811	189	National Conference Emerging Materials & Nanotechnology organized on 18-19 Nov. 2022: Updating latest trends in Science & Technology, development of presentation skills and networking opportunity Beneficiaries: About 200 participants (Research scholars/ faculty/ students)	Exposing students and scholars to latest developments in research in the field of materials & nanotechnology and to encourage collaborative learning



NCEMN -2022

- Nanotechnology is an innovative branch exploring wide areas of Science to indirectly support humanity and the wealth of nature. With this as a primary objective in mind the 12th National Conference on Emerging Materials and Nanotechnology (NCEMN) was organized by the Department of Chemistry, Govt. V.Y.T. PG Autonomous College, Durg, Chhattisgarh.
- The NCEMN-2022, a synergistic move primarily focused in designing and developing new inventive materials for their sustainable safe utilization in protecting the nature and minimizing the environmental impact caused by either natural calamities or man-made leading to disastrous catastrophes.

- Prof. I.B. Sharma, ISCAS Institute, Jammu, was the Chief Guest' inspired participants by inaugural address
- **Dr. N.S. Gajbhiye**, Ex Prof., IIT Kanpur, stressed on the need of organizing Seminars/Conferences for interactive learning
- First keynote address by Dr. R.K. Shukla, University of Lucknow focused on different methods of synthesis of vanadium doped MoS₂ and its effect on humidity sensing'.
- Dr. Anchal Srivastava, University of Lucknow' gave a talk on Zinc Oxide Nanostructures.
- **Dr. Indu Bhushan Sharma** from 'ISCAS Institute of Solid State and Materials Science, Jammu,' prompted us with 'Quest for Materials with Novel Physical Properties'.

- **Dr. S.P. Singh**, 'The Polymers and Functional Materials Department, CSIR-Indian Institute of Chemical Technology, Hyderabad, captured the attention of the whole gathering with his scientific delivery on 'Application Oriented Synthesis of Organic Dyes for Photonic Devices'.
- **Dr. Saroj K. Shukla**, 'The Department of Polymer Science, Bhaskaracharya College of Applied Sciences, and University of Delhi' gave a talk on 'Potential and Prospects of chemically functionality of conducting polymer Nano composites'.
- **Dr. Akhilesh Kumar Singh**, 'School of Materials Science and Technology Indian Institute of Technology' (Banaras Hindu University) Varanasi, delivered lecture on 'Crystal structure, Phase Coexistence and Electric field induced phase Transitions in Piezoelectric Smart Ceramics'.
- **Dr. B.V. Sarada**, 'The International Advanced Research Center for Powder Metallurgy and New Materials (ARCI)', Hyderabad, gave a talk on 'Advanced Materials and Processes for Energy and Healthcare'.
- **Dr. D.K. Mahato**, 'The Department of Physics, National Institute of Technology, Patna, India', gave a talk on 'The PZT and PLZT Materials for Piezoelectric Actuator Application'.

- **Dr. N.B. Singh,** 'The Department of Chemistry and Biochemistry and RDC Sharda University, Greater Noida, ', gave a talk on 'Effect of Nanomaterials on the Properties of Cement and Concrete'.
- **Dr. Jai Singh**, 'The Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya (A central university), Bilaspur, gave a talk on 'Applications of Metals Di-chalcogenides (MoS₂), in Transistors'.
- **Dr. R.P. Patel** 'The Deptartment of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur', gave a talk on Synthesis, Growth, macro-, nano Crystal's for device fabrication pharma and electronic uses.
- Dr. W.B. Gurnule, 'Post Graduate Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur,' gave a talk on 'Emulsion Polymerization of SBR-Nano composites with Filler Nano Carbon Black'.
- Dr. Tokeer Ahmad, 'The Department of Chemistry, Jamia Millia Islamia,
 Jamia Nagar, New Delhi, India,' gave a talk on 'Designing Nano catalysts for
 H₂ Generation and Organic Transformation.'
- Dr. A. K. Bajpai, P.G. College Seoni (MP)' spoke on 'Corona-time', 'Emerging Nanomaterials in Health care.'
- Oral and Poster presentation

STUDY /ACADEMIC TOUR/ TRAINING

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2024-25	100000	78398	21602	Training Program organized for PG students at IICT, Hyderabad: PG students got hands-on training in novel laboratory techniques, operation of sophisticated instruments and interaction with research experts leads to motivation of PG towards research Beneficiaries: M.Sc. Chem. students (40) & faculties	Laboratory training is a cornerstone of postgraduate (PG) education in scientific arena. Structured laboratory training instills a positive attitude toward research, encouraging innovation and lifelong learning among PG students





STUDY TOUR/TRAINING PROGRAM AT INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY, HYDERABAD, FEB 2025





Educational Visit to Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad Date of Visit: 19.02.2025 to 21.02.2025

Key Areas Explored:

Analytical Instruments:

- Students were introduced to advanced instruments such as Gas Chromatography-Mass Spectrometry (GC-MS), High-Performance Liquid Chromatography (HPLC), Atomic Absorption Spectroscopy (AAS), and Nuclear Magnetic Resonance (NMR) Spectroscopy.
- The use of these instruments in determining the composition of various chemical samples was demonstrated in real-time, with students observing experiments in progress.

Synthesis and Process Optimization:

- The students were shown the laboratory setup for chemical synthesis, where reactions are carefully monitored and optimized.
- Researchers discussed reaction pathways, catalyst usage, and the importance of controlling variables like temperature, pressure, and concentration during chemical reactions.

Environmental and Safety Protocols:

- Safety was a major focus of the visit, with the laboratory team emphasizing the correct handling of chemicals, disposal of hazardous materials, and emergency protocols.
- Students were given a hands-on demonstration of the safety equipment available, including fume hoods, eyewash stations, and fire extinguishers.

Research Projects:

- Several ongoing research projects were showcased, including topics on nanomaterials, pharmaceutical chemistry, and sustainable chemical processes.
- Students had the opportunity to interact with research scholars and ask questions about the methodologies, challenges, and breakthroughs in the field.

> Learning Outcomes

The visit provided valuable insights into various aspects of chemical research and laboratory work.

PATENT/ PROMOTION OF RESEARCH

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23		80000	-		Motivate towards innovative research for the benefit to society at large and
2023-24		32000	-	Five Patents	encouraging patenting of the outcome
2024-25	40000	40000	-		

PATENTS

S. No.	Title
1.	Intensified process using modified Zinc oxide nanoparticles
	for effective dye removal from wastewater
2.	Photocatalytic degradation of drug Amoxicillin and dye
	Fulphon fast Black-F by Cu-ZnS quantum dot
3.	Process for Preparing ZNO/B-Cyclodextrin/NI/Ferrite/
	Nanocomposite Material and Composion ther
4.	South African Patent
5.	Method and Composition for Synthesizing Phyto-Nano-MGO
	Quantum Dots for Evaluation of oxin IN-VIVO/VITRO/SILICO
	Sequels

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2021 106 116

Ein verstärktes System mit modifizierten Zinkoxid-Nanopartikeln zur effektiven Entfernung von Farbstoffen aus Abwasser

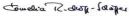
B01J 23/06

Inhaber/Inhaberin Jain, Bhawana, Dr., Durg, Chhattisgarth, IN Patel, Jyoti, Durg, Chhattisgarth, IN Singh, Ajaya Kumar, Dr., Durg, Chhattisgarth, IN

Tag der Anmeldung 09.11.2021

Tag der Eintragung: 19.11.2021

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft. Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.doma.de

München, 19 11 2021



REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified

SINGH, AJAYA KUMAR; PATEL, JYOTI; JAIN, BHAWANA; ASTHANA, ANUPAMA; MATHEW, SUNITHA B.; HASHMI, AYESHA

Has been granted a patent in respect of an invention described and claimed in complete

specification deposited at the Patent Office under the number

2021/10082

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 29th day of June 2022



REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certifie that:

DR. AJAYA KUMAR SINGH; S. SREEVIDYA; DR. SUNITA SANWARIA

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2024/07967

A copy of the complete specification is annexed, together with the relevant Form P2.

timony thereof, the seal of the Patent Office has been affixed at Pretoria with effec from the 28th day of May 2025









更可 利SL No :022145043

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate (पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

540667 202321059700

आवेदन सं. / Application No. फाइल करने की तारीख / Date of Filing

1.Dr. Ajaya Kumar Singh 2.Dr. Bhawana Jain 3.Dr. Sunita Sanwaria 4.Dr. Anupama Asthana

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A PROCESS FOR PREPARING ZNO/B-श्रामाता गियम जाता के प्रदार जो अपने जाया के प्राथमित प्रदार प्रदार अपने प्रदार कार्य के प्रदार के प्रदार जो अपने में अपने अपने कार्य के प्रदार जो अपने जाया के प्रदार जो अपने जाया के प्रदार जाता के प्

It is hereby certified that a patent has been granted to the patentee for an invention entitled A PROCESS FOR PREPARING ZNO/B-CYCLODEXTRIN/NI/FERRITE NANOCOMPOSITE MATERIAL AND COMPOSITION THEREOF as disclosed in the above mentioned application for the term of 20 years from the 5th day of September 2025 in accordance with the provisions of the Patents Act, 1970.



अनुवान भी तारीच : 03/06/2024 Date of Grant :

क्रियमी - इस पेटेंट के क्रांकरण के लिए प्रीस, पाँद इसे बनाए रखा जाना है, सिकायर 2025 के प्रांची दिन की और उसके प्रमान क्रमेंक को में उसी दिन देव होती। Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 5th day of September 2025 and on the

PATENTS

FDP

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATI ON
2022-23	70000	70000	-	FDP on Indian Knowledge System (IKS) organized on 20-27 September 2023: Faculty members equipped to incorporate traditional knowledge to teaching Beneficiaries: Faculty members	Integration of IKS to curriculum to meet the NEP objectives of instilling value in students and preserving the valuable traditional knowledge

FACULTY DEVELOPMENT PROGRAMME SEPTEMBER 20-27, 2023 INDIAN KNOWLEDGE SYSTEM (IKS)

Objectives

- To contribute to the exploration of Indian Knowledge System,
- To address societal challenges through IKS,
- To ensure Scientific validation of IKS, and
- To orient the mindset of faculties for the adoption of validated IKS.

DATE	SPEAKERS
	Prof. Rajive Prakash Director, IIT, Bhilai
e e the e	Dr. Rakesh Mishra, Veterinary Physician, Kamdhenu University, Durg
20 th September, 2023	Dr. Pragya Kulkarni, HoD, Dept. of Microbiology, Govt. V.Y.T. PG. Auto. College, Durg
21 st September, 2023	Prof. Krishna Kumar Pandey, Dean, Faculty of Ancient Indian Science & Humanities, Kavikulguru Kalidas Sanskrit Univtersity, MS Dr. Yashwant Atbhaiya, Technical Officer, Kamdhenu University, Durg
22 nd September, 2023	Dr. Rudra Bhandari Associate Professor, Dept. of Yoga Science, University of Patanjali, Haridwar Dr. Kusumanjali Deshmukh Dept. of Physics, Govt. V.Y.T.PG. Auto. College, Durg.
23 rd September, 2023	Dr. K.S. Laddha Professor of Pharmacognosy, Institute of Chmical Technology, Matunga (E), Mumbai Dr. Mausami Day Deptt. of Zoology,Govt. V.Y.T. PG. Auto. College, Durg.

DATE	SPEAKERS
25 th September, 2023	Prof. M. Abdul Kareem HoD & Associate Professor, Centre for Conservation of Natural Resource, The University of Trans-Disciplinary Health Science and Technology, Bengaluru Dr. Subrahmanya Kumar, K. Associate Professor, Centre for Ayurveda Biology and Holistic Nutrition, The University of Trans-Disciplinary Health Science & Technology, Bangaluru.
26 th September, 2023	Dr. V. M. Pendsey Principal, D.R.B. Sindhu Mahavidyalaya, Nagpur Dr. O.P. Pandey Eminent Scientist, New Delhi
27 th September, 2023	Prof. Madhusudan PeenaEx. Vice-Chancellor, Dean, Faculty of Indian Philosophy and Culture, Kavikulguru Kalidas Sanskrit University, Ramtek, M.S. Hrikanth B H Industry-Academia Specialist, Pune

CONFERENCE

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23	150000 14474	164474	_	National Conference on Futuristic Material (NCFM) organized on 22-23 June 2023 Beneficiaries: 170 participants	Provide a platform for students/scholars and faculty to engage with leading experts and peers, facilitating exchange of the latest research, methodology, experimental results in advanced materials.
2024-25	300000	164014	135986	International Conference on Material Science for Sustainable Development (ICMSSD) 05-06 March 2025 Beneficiaries: 150 participants across the globe	Foster Interdisciplinary broadening the scope of research and innovation. Exposure to emerging topics like biomaterials, programmable materials, and the integration of AI in materials discovery.



NCFM-2023

Day-1:	22.06.2023	(Thursday)
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Inaugural Function Keynote Address by Dr. Pralay Maiti, IIT BHU

Technical Session-I Chairperson Dr. Y. R. Katre

Invited Talk-1	Dr. Akhilesh Kumar Singh, IIT BHU
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Invited Talk -2 Dr. Chandan Upadhyay, IIT BHU

Technical Session-II Chairperson Dr. Akhilesh Kumar Singh, IIT BHU

Invited Talk- 3	Dr. Jai Singh , GGU, Bilaspur
Invited Talk-4	Prof. Ravin M. Jugade, RTM Nagpur

Day-2: 23.06.2023 (Friday)

Technical Session- III Chairperson Dr. Jai Singh, GGU, Bilaspur

Invited Talk-5 Dr. W.B. Gurnule, Nagpur

Invited Talk-6 Dr. Satyajit Gupta, IIT Bhilai

Technical Session- IV Chairperson Dr. Ravin M. Jugade, RTM Nagpur

Invited Talk-7

Prof. Ayush Khare, NIT, Raipur

Presentations

Oral presentations and Poster presentations

VALEDICTORY FUNCTION

Chief Guest: Dr. Rajiv Prakash, Director, IIT, Bhilai





INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & SUSTAINABLE DEVELOPMENT -2025





ICMSSD -2025

- Chief Guest N. B. Singh (Sharda University, Greater Noida, India) explored "Eco-Friendly Nanomaterials and Their Industrial Applications."
- Keynote Address: Prof. Sreekantha B. Jonnalagadda (University of KwaZulu-Natal, South Africa) delivered an insightful lecture on "Binary Oxides and Nanocomposites as Sustainable Catalysts for Green Synthesis."
- Invited Talks:
- Dr. Rohit Kumar Rana (CSIR-IICT, Hyderabad, India) presented "Bio-inspired Strategies for Hierarchical Assembly and Functional Materials," providing an in-depth discussion on biomimetic methodologies for nanoscale material design.
- Dr. Sunita Sanwaria (NPG Science College, Raipur) elucidated the selfassembly behavior of polymer-coated nanoparticles, demonstrating "Helical Packing of Nanoparticles in Cylindrical Domains of Block Copolymers."
- Ihebuluche Fortune Chiugo (Sharda University, Nigeria) His topic was "Public Spending and Population Health: Assessing Risks from Chemical Industries for Sustainable Development". This study analyzed the effects of chemical industry operations on public health and environmental safety.

- **Dr. Santosh Kumar Verma** (Yulin University, China) discussed "Hydrolysis Hydrogen Generation Behavior of Mechanico-Chemical Reactions in Mg-based Binary Materials for Hydrogen Storage." The lecture provided a comprehensive analysis of the mechanico-chemical reaction strategy for activating Mg-based alloys.
- **Dr. Ratiram Gomaji Chaudhary** (RTM Nagpur University, India) explored "Synergy for Sustainable Development through Nature-Inspired Materials Synthesis." The talk emphasized on the green synthesis of nanomaterials using bioresources.
- Akhilesh Kumar Singh (IIT BHU, Varanasi, India) discussed "Development of Multifunctional Materials for Sensors and Energy" This talk explored the synthesis and applications of multifunctional oxide ceramics, particularly perovskite-based materials.
- Surya Prakash Singh (CSIR-IICT, Hyderabad, India) highlighted "Materials and Molecules: Rational Design, Synthesis, and Their Applications in Photonic Devices". This presentation focused on the development of organic molecules for advanced photonic applications.
- Lingamallu Giribabu (CSIR-IICT, Hyderabad, India) discussed "Long-Lived Charge Separated Species in Donor- π -Acceptor Based Tetrapyrrolic Systems for Optoelectronic Applications". The talk gave insight into artificial Donor- π -Acceptor (D-A) systems and their significance.
- Jai Singh (Guru Ghasidas Vishwavidyalaya, Bilaspur, India) 'Two-Dimensional Materials for Thermoelectric and Transistor Applications"
 The presentation highlighted graphene and MoS2 synthesis via chemical vapor deposition (CVD) and their applications in thermoelectric devices and transistors.

CAREER COUNSELLING

The second second	YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
	2023-24	10000	10750	-750	PG Students were given special coaching and career guidance. Preparation of various competitive exams, preparation for interview. Students got oriented towards competitive exams Beneficiaries: M. Sc. Chemistry students (50)	To enhance employability of the stake holders and to make them competent

SKILL DEVELOPMENT

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2023-24	75000	75400	-400	PG students participated in seven days workshop at Siddhachalam Lab., Birgoan (22-29 Jan. 24) Hands on training by experts at Soil Analysis Lab, Ruabanda (02- 05 Feb. 2024) Students got exposed to various analytical techniques and methods of analysis Beneficiaries: All PG students (50)	To enhance the analytical and presentation skills of students and to make them competent, employable and self confident
2024-25	50000	-	50000		





SKILL DEVELOPMENT PROGRAM, SIDDHACHALAM LAB., BIRGAON, JAN. 2024







SKILL DEVELOPMENT PROGRAM, SOIL ANALYSIS LAB, RUABANDA FEB. 2024





INDUSTRIAL VISIT

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2023-24	100000	104123	- 4123	UG & PG students gained practical exposure to real-world industry operations, helping them connect theoretical knowledge from classrooms with actual processes and technologies Beneficiaries:	Bridging the gap between Academia and Industry & giving practical exposure to meet the requirements of curriculum relevance, employability & entrepreneurship





INDUTRIAL VISIT TO JINDAL STEEL PLANT, RAIGARH



ACADEMIC VISIT TO INDIRA GANDHI NATIONAL TRIBAL UNIVERSITY,
AMARKANTAK, MP





INDUTRIAL VISIT TO BHILAI STEEL PLANT, BHILAI





VISIT TO MAA LAXMI FOOD INDUSTRY'S BAKERY AND CONFECTIONERY, BIRKONI





INDUTRIAL VISIT TO BHORAMDEO SAHAKARI SHAKKAR KARKHANA, KAWARDHA





INDUTRIAL VISIT TO RAJARAM MAIZE PRODUCTS

GUEST LECTURE

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2023-24	50000	35995	14005	Total 16 Guest lectures were arranged: Students get to interact with specialized subject experts, enables breaking classroom	Guest lectures supplement the curriculum by introducing specialized topics,
2024-25	30000	29250	950	monotony, fosters student motivation, and makes learning more interactive and stimulating Beneficiaries: 60 PG students, Research scholars & faculty	issues, and advanced techniques

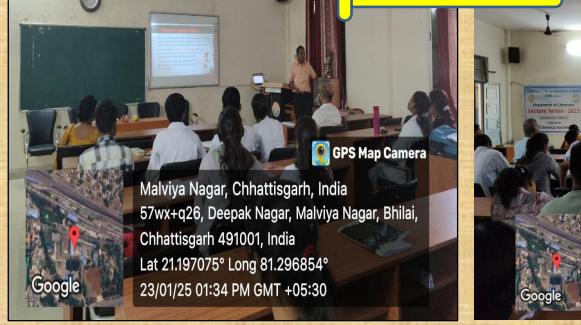
GUEST LECTURES 2023-24

S.	Speakers & Topic	Date
No.		
1	Dr. Manmohan Satnami – Optical Spectroscopy: Fundamentals & Applications	11-01-2024
2	Dr. Ravin Jugade – Atomic Absorption Spectroscopy	03-02-2024
3	Dr. Vijay Tangde – XRD Theory and Applications	03-02-2024
4	Dr. Narayan Prasad Adhikari – Modelling in Chemistry	08-02-2024
5	Dr. Rameshwar Adhikari – Electron Spectroscopy	08-02-2024
6	Dr. S. B. Jonalagadda – Recyclable catalysts and Green synthesis	10.02.2024
7	Dr. Bhawana Jain – Chemistry and Lab Techniques	27.03.2024
8	Dr. Kshitij Singh – Green Electronics	28.03.2024
9	Dr. Santosh Kumar Verma – Micro-alloying of transition mteals on Mg/MgH ₂ for hydrogen storage	28.03.2024

GUEST LECTURES 2024-25

S. No.	Speakers /	Date
1	Dr. Rajinikant Sharma - Water Quality-Everything you need to know	18-01-2025
2	Dr. D. K. Verma - NMR Fundamentals to Advanced	18-01-2025
3	Dr. Ravin Jugade - Atomic Spectroscopies	23-01-2025
4	Dr. Vijay Tangde - Quantum Mechanics	23-01-2025
5	Dr. Manmohan Singh - Overview of Nanoscience and its Applications	25-01-2025
6	Dr. Kamlesh Sriwas - Introduction of Analytical Techniques	25-01-2025
7	Dr. Ashish Asatkar - Principle, Instrumentation, Applications of Mass Spectroscopy and Fundamental of Infrared Spectroscopy	30-01-2025







LAB MAINTANANCE

YEAR	ALLOCATED AMOUNT	AMOUNT SPEND	BALANCE	OUTCOME	JUSTIFICATION
2022-23		474600	-	Updating of routine lab facility & maintenance of sophisticated instruments	For effective and efficient smooth functioning of routine lab work & sophisticated instruments
2023-24		120613	-	Beneficiaries: UG/PG students & research scholars	

THANK YOU