

Report on Collaborative Activities: Faculty Exchange Program 2023

Faculty Member: Dr. Ashish Tiwari, Assistant Professor, Chemistry

Academic Year: 2023

Overview

Dr. Ashish Tiwari, a dedicated faculty member of the Chemistry Department, actively participated in several faculty exchange programs during the academic year 2023. These collaborative initiatives facilitated knowledge sharing, academic enrichment, and strengthened inter-institutional relationships.

Detailed Report of Collaborative Activities

Online Lecture on Nanoparticle Synthesis

Institution: Kirodimal Govt. Arts and Science College, Raigarh

Date: 19.04.2023

Key Points:

Delivered an in-depth lecture on the principles and techniques of nanoparticle synthesis.

Discussed the applications of nanoparticles in various fields, including medicine, materials science, and catalysis.

Engaged with the audience through interactive Q&A sessions.

Techniques and Applications of NMR Spectroscopy

Institution: JK Institute of Technology, Gatora

Date: 12.01.2024

Key Points:

Presented a comprehensive overview of NMR spectroscopy techniques, including ^1H NMR and ^{13}C NMR.

Explored the applications of NMR spectroscopy in structural elucidation, reaction monitoring, and quantitative analysis.

Facilitated hands-on training sessions for students on NMR data interpretation.

Spectroscopy: Unifying Principles

Institution: Govt. JPM College, Takhatpur

Date: 5.10.2023

Key Points:

Delved into the fundamental principles of various spectroscopic techniques, such as UV-Vis, IR, and Mass Spectrometry.

Highlighted the complementary nature of these techniques in characterizing chemical compounds.

Conducted practical demonstrations to illustrate the concepts and applications.

Impact and Benefits

Knowledge Dissemination: Shared expertise with a wider audience, contributing to the advancement of scientific knowledge.

Inter-Institutional Collaboration: Fostered strong relationships with other academic institutions.

Enhanced Institutional Reputation: Elevated the institution's reputation as a center for academic excellence.

Student Enrichment: Inspired and motivated students to pursue research and innovation.

Faculty Development: Gained valuable insights and experiences to improve teaching and research practices.

Conclusion

Dr. Ashish Tiwari's active participation in faculty exchange programs has significantly benefited both the institution and the broader academic community. These collaborative efforts have strengthened the institution's academic standing and contributed to the overall growth of the Chemistry department.

The National Integration Camp (NIC) in Rajnandgaon, Chhattisgarh was held from January 2–8, 2024 at Somni. The inaugural ceremony was held on January 3, 2024, with the chief guest being Hon'ble Mr Vijay Baghel, Member of Parliament, Durg. The National Integration Camp is an annual event that promotes national unity and cultural exchange among students from different backgrounds.



भारत सरकार
Government of India
युवा कार्यक्रम और खेल मंत्रालय
Ministry of Youth Affairs & Sports
राष्ट्रीय सेवा योजना क्षेत्रीय निदेशालय, भोपाल (म.प्र - छ.ग.)

प्रमाण पत्र | Certificate

प्रमाणित किया जाता है कि श्री / कुमारी दाया नोर्गे
Certified that Mr./Mrs. दाया नोर्गे
सुपुत्र/सुपुत्री श्री उमाशंकर नोर्गे
Son/Daughter of Sh. उमाशंकर नोर्गे
रासेयो स्वयं सेवक/कार्यक्रम अधिकारी डॉ. सीमराव अंबेडकर शास्त्र महाविद्यालय, पामगढ़
NSS Volunteer/Prog. Officer of डॉ. सीमराव अंबेडकर शास्त्र महाविद्यालय, पामगढ़
राज्य / State इल्लिसगढ़ नें राष्ट्रीय एकता शिविर, 02 से 08 जनवरी 2024 तक
स्वामी आत्मानंद शासकीय अंग्रेजी माध्यम आदर्श महाविद्यालय, सोमनी, राजनंदगांव, छ.ग. में सहभागिता की।
has participated in National Integration Camp from 2nd to 8th january 2024 at Swami Atmanand
Govt. English Medium Model College Somani, Rajnandgaon, Chhattisgarh.

डॉ. आर. पी. अग्रवाल

कार्यक्रम समन्वयक
हेमचंद यादव विश्वविद्यालय, दुर्ग

डॉ. नीता वाजपेयी

राज्य एन.एस.एस अधिकारी
उच्च शिक्षा विभाग, छ.ग. शासन

डॉ. अशोक कुमार श्रोती

उप कार्यक्रम सलाहकार / क्षेत्रीय निदेशक
रा.से.यो. क्षेत्रीय निदेशालय, भोपाल

डॉ. अरूणा पल्टा

कुलपति
हेमचंद यादव विश्वविद्यालय, दुर्ग



**J.K. GROUP
OF INSTITUTIONS**

A

SYMPOSIUM ON

"Techniques and Applications of NMR Spectroscopy"



Dr. Ashish Tiwari
Asst. Professor Chemistry
Dr. Bhimrao Ambedkar College, Pamgarh

DATE
12 JANUARY 2024



TIME
02:00 PM



VENUE
Conference Hall, JKIE



Near Gatora Railway Station, Bilaspur



9827190018
9039969828
7000788531





KIRODIMAL GOVT. ARTS & SCIENCE COLLEGE, RAIGARH(C.G.)

Re Accredited grade "B" By NAAC

Affiliated to Shaheed Nand Kumar Patel University, Raigarh

Organized by
Department of Chemistry
in association with IQAC

Certificate of Presentation

This is to certify that **Dr. Ashish Tiwari**, Asst. Professor, Dr. Bhimrao Ambedkar Govt. College, Pamgarh, Janjgir-Champa (C.G.), has presented in "Six days faculty Development Programme on" **Research Trends in Chemistry** organized by Department of Chemistry, Kirodimal Govt. Arts and Science College Raigarh (C.G.).

Topic-Nano Particle Synthesis

Date-19/04/23

We appreciate your efforts.

Date- 19-04-23 to 24-04-23


•Convener•
Miss Reenu Mishra
Asst. Professor


•Patron•
Dr. Anjani Tiwari
Principal

Certificate ID {{certificate id}}

A screenshot of a Microsoft PowerPoint presentation titled "ES College Nanoparticle Synthesis" being presented by Ashish Tiwari. The slide displayed is titled "Synthesis Chambers" and contains the following text:

Synthesis Chambers

Finally, synthesis chambers are often used in nanomaterial synthesis to create controlled environments for the formation of materials. These chambers can be used to create materials with specific properties, such as size, shape, and composition.

Some examples of synthesis chambers used in nanomaterial synthesis include plasma reactors, which can be used to create nanoparticles with unique surface properties, and laser ablation chambers, which can be used to create nanoparticles with precise sizes and shapes.

The slide also features an image of a complex industrial or laboratory setup, likely a synthesis chamber, with various pipes, valves, and a glowing green light source.

On the right side of the screenshot, a list of participants in the video conference is visible, including:

- Ashish Tiwari
- Nick Painkra
- Lokesh Ram Yadav
- Anubhav Satpathi
- Aarti Sahu
- sangita devi sharma
- 14 others
- You

The bottom of the screenshot shows the Windows taskbar with the time 3:54 PM and the date 19-04-2023.

शैक्षणिक और बौद्धिक आयोजन से तैयार होती है ऊर्जावान पीढ़ी

शासकीय जेएमपी
महाविद्यालय में व्याख्यान
का आयोजन

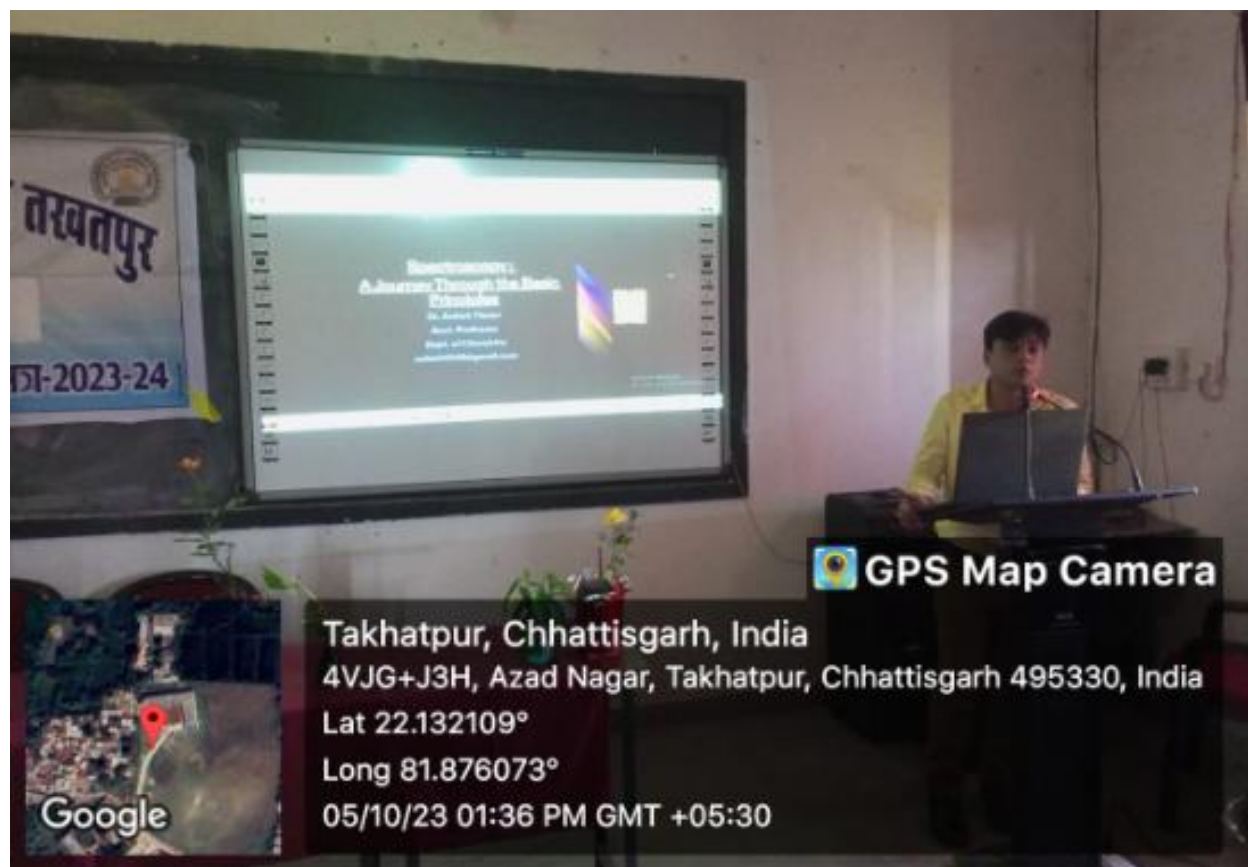
तखतपुर। शासकीय जेएमपी महाविद्यालय तखतपुर में विज्ञान संकाय द्वारा एक एकदिवसीय व्याख्यान का आयोजन किया गया। इस कार्यक्रम के मुख्य अतिथि डॉ. आशीष तिवारी सहायक प्राध्यापक, रसायन शास्त्र, डॉक्टर भीमराव अंबेडकर शासकीय महाविद्यालय पामगढ़ रहे। जिन्होंने एकीकृत स्पेक्ट्रोस्कोपी के सिद्धांत विषय पर व्याख्यान दिया। स्पेक्ट्रोस्कोपी के मूलभूत सिद्धांतों को प्रोजेक्टर डिस्प्ले द्वारा विजुअल माध्यम से सरल व दैनिक जीवन की घटनाओं से रासायनिक प्रतिक्रियाओं जो विभिन्न तरंग दैर्घ्य अथवा आवृत्ति के



प्रकाश के साधारण रूप से कम ऊर्जा की अवस्था एवं किसी रासायनिक पदार्थ की स्थिर अवस्था तथा ऊर्जा के अवशोषण से अस्थिर

संक्रमण का उत्पन्न होना और अवशोषण व निष्कासन स्पेक्ट्रम के कारण को बहुत सरल तरीके से समझाया। उन्होंने छात्र-छात्राओं से

वार्तालाप कर उनकी जिज्ञासाओं का समाधान किया। प्राचार्य डॉक्टर मधुलिका लाल ने संबोधन में कहा कि महाविद्यालय सदैव छात्र-छात्राओं के मस्तिष्क के विकास के लिए शैक्षणिक एवं बौद्धिक कार्यक्रम कराता रहता है इससे उन्हें प्रेरणा प्राप्त होती है। जिससे भविष्य के लिए ऊर्जावान पीढ़ी तैयार होती है। इस कार्यक्रम का संचालन ईंदु कौशल ने किया एवं विज्ञान संकाय की विभागाध्यक्ष डॉक्टर सीमा नेगी ने आभार व्यक्त करते हुए सत्र 2023 के रसायन शास्त्र विषय के नोबेल पुरस्कार प्राप्त वैज्ञानिकों के बारे में जानकारी प्रदान की।



GPS Map Camera

Takhatpur, Chhattisgarh, India

495330, India

Lat 22.132109°

Long 81.876073°

05/10/23 01:36 PM GMT +05:30