



# REPORT ON TWO DAYS NATIONAL LEVEL WORKSHOP

## THEME : IMPACT OF SCIENCE IN OUR DAILY LIFE OBSERVATIONS

**03 & 04 March 2025**

**Sponsored By –**

**Department of Higher Education,  
Govt. of Chhattisgarh  
and Chhattisgarh Council of  
Science & Technology, Raipur**

**Organized By :**

**Department of Science & IQAC  
Government Ghanshyam Singh Gupt P.G. College, Balod, District-  
Balod, Chhattisgarh-491226**

# REPORT

The two-days national workshop was organized by science department and IQAC at Auditorium, Government Ghanshyam Singh Gupt P.G. College, Balod which was held on 03 & 04 March 2025, on the theme - "Impact of Science in Our Daily Life Observations".



## **ABOUT COLLEGE**



Government Ghanshyam Singh Gupta P.G. College, Balod, was established on 15th August 1983 as a multi-faculty co-ed institution under the name Government Science, Arts, and Commerce College, Balod. It was renamed in 2008-09 in honour of the freedom fighter Ghanshyam Singh Gupta. Initially part of Durg District, Balod became a separate district on 10th January 2012. The college was allotted 40 acres of land by the then Government of M.P., with its foundation stone laid by Chief Minister Motilal Vora. Registered under the UGC Act in 1989, the college started with 219 students and has grown to over 3,000 students today.

## **ABOUT SCIENCE DEPARTMENT**

The Department of Science was established in 1983, marking the beginning of a journey dedicated to academic excellence. A significant milestone was achieved in 1990 with the introduction of the Master's program. At present, the department offers seven streams in science. In addition to its regular academic activities, it consistently organizes conferences, seminars, and workshops on contemporary and relevant issues, fostering intellectual growth and knowledge sharing.

## **ABOUT NATIONAL WORKSHOP**

### **Objectives of the Workshop :-**

- 1 Provide for a deeper understanding of scientific concepts through hands-on experiments.
  - 2 To develop critical thinking and problem-solving skills.
  - 3 To encourage scientific curiosity, promote creativity, enhance practical skills.
  - 4 Aims to make science more engaging and accessible for students through practical application and exploration.
  - 5 Science impacts daily life by improving communication, transportation, healthcare, food production, and technology. It fosters curiosity, problem-solving skills, and a deeper understanding of cause-and-effect relationships.
- In aerodynamics, students should understand airflow, lift, drag, airfoil shapes, and the effects of angle of attack and velocity on flight. Applying these principles to aircraft design enhances practical learning and technical expertise.
  - Learning AI and AI Tools helps students develop problem-solving skills and drive innovation in automation, efficiency, and data-driven decision-making.

## Eminent Resource Person(s)

- **Mr. K. Kant Sahu**, Senior Instructor Training Institute Airforce Station, Hindon (U.P.)
- **Dr. Kusumanjali Deshmukh**, Asst. Professor (Physics) Govt. V.Y.T. P.G. College, Durg (C.G.)
- **Dr. Vikas Dubey**, Associate Professor, North Eastern Hill University, Shillong (Meghalaya)
- **Mr. Gulame Mustafa Ansari**, Asst. Professor (Computer Application), Govt. Model College, Somni, Rajnandgaon (C.G.)
- **Dr. Alope Verma**, HOD of Physics, Kalinga University, Naya Raipur (C.G.)
- **Dr. Amit Kumar Singh**, HOD of Botany Govt. B.M.K. Girls College, Balod (C.G.)

## Chief Guest

***Mr. Chandra Kant Kaushik***  
*Upper Collector,  
Dist.- Balod (C.G.)*

***Mr. Bhupendra Kuldeep***  
*Registrar  
Hemchand Yadav  
Vishwavidyalaya, Durg (C.G.)*

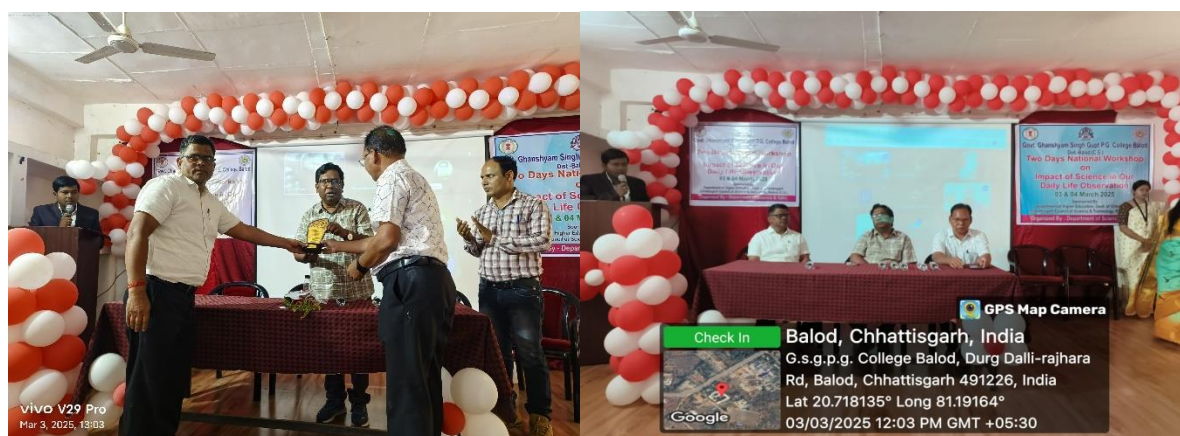
***Dr. Rajmani Patel***  
*Deputy Registrar,  
Hemchand Yadav Vishwavidyalaya, Durg (C.G.)*

## PATRON

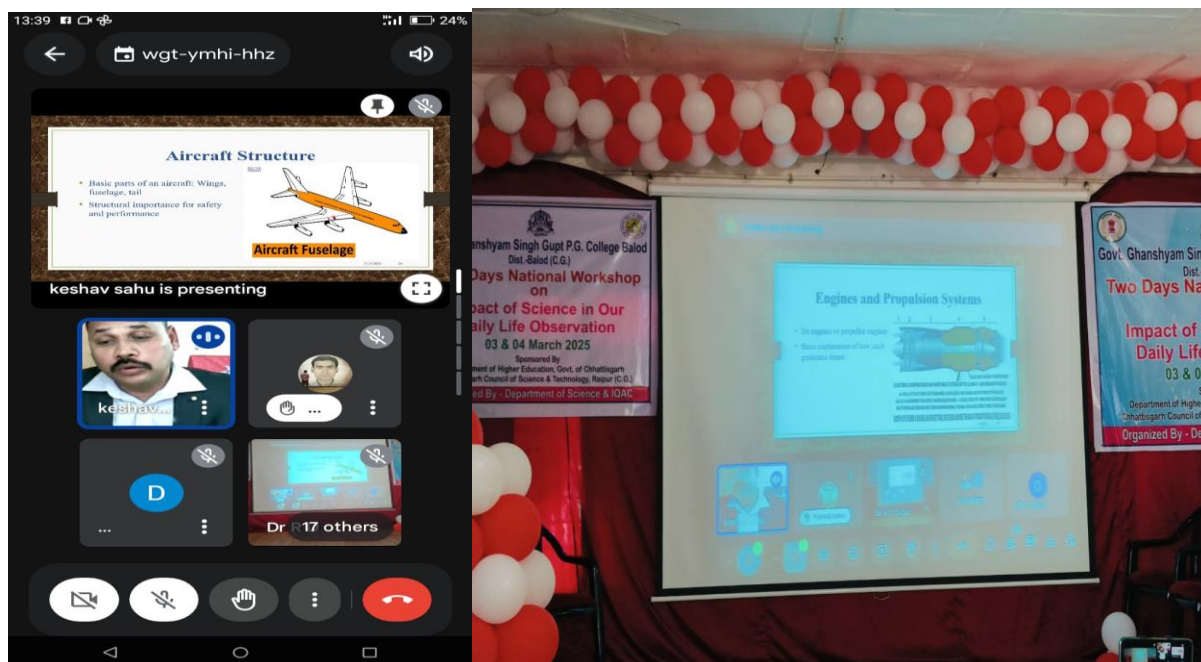
***Dr. J.K. Khalkho***  
*Principal,  
Govt. Ghanshyam Singh Gupt P.G. College, Balod, C.G.*



On the **first day**,our Chief Guest **Shri Chandrakant Kaushik, Additional Collector** and Special Guest **Dr. Rajmani Patel, Deputy Registrar, Hemchand Yadav University, Durg**, were present. The coordinator and co-coordinator of the workshop were Dr. H.L. Manker and Dr. R.D. Sahu& Mr. Shailendra Arya. The program started with lightning of the lamp, after which the principal of the college Dr. J.K. Khalkho presented his views on the outline of the workshop and the importance of science. And the senior professor of the college Dr. H.L. Manker presented his views on scientific research and research papers, after which the Chief Guest Mr. Chandrakant Kaushik addressed the workshop and advised given to the students to develop a scientific outlook.



On the **first day**, our first eminent speaker **Mr. K. Kant Sahu, Senior Instructor Training Institute Air-Force Station, Hindon (U.P.)** gave a lecture on topic – **“Aerodynamics”** in which the students were explained the structure and working system of airplane and fighter jet engine in an interesting manner. Through this lecture, the students got complete information related to aircraft technology.



Our second eminent speaker of the first day, **Dr. Kusumanjali Deshmukh, Assistant Professor, Government Vishwanath Yadav Tamaskar Post-Graduation Autonomous College, Durg**, presented her lecture on the topic – **“General Mechanics”**. Dr. Deshmukh gave information about the history and physics related applications of Sir C. V. Raman. She also gives information to our students that how physics experiments can be done by using virtual lab instead of college/school laboratory.



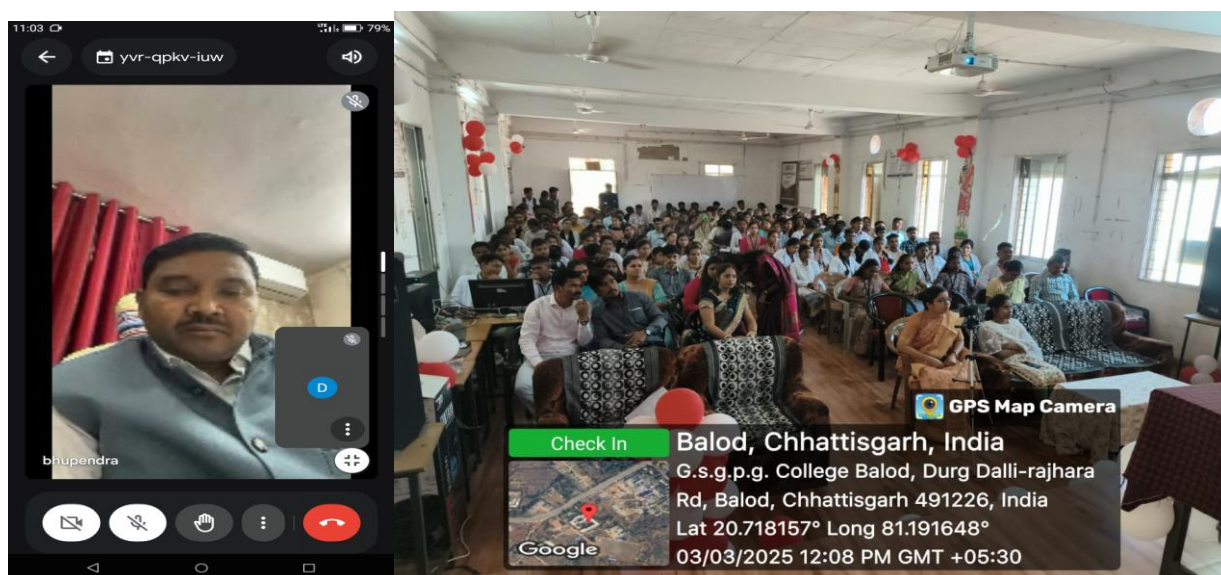


Our third eminent speaker of the first day was **Dr. Amit Kumar Singh, Assistant Professor & HOD of Botany Department, Bhakt Mata Karma Govt. Girls College, Balod**, gave a lecture on topic – **“Phycoremediation: A possibility of Biological Wastewater Treatment & Biofuel Production”**, in which he explained how polluted water can be converted into clean water with the help of various algae and the technique of obtaining biofuel from algae. After the lecture, a debate competition was organized among the students on the negative and positive aspects of science. The first day's workshop was concluded and vote of thanks was given by Mr. Shailendra Arya, Assistant Professor & HOD, Department of Computer Science & Application.





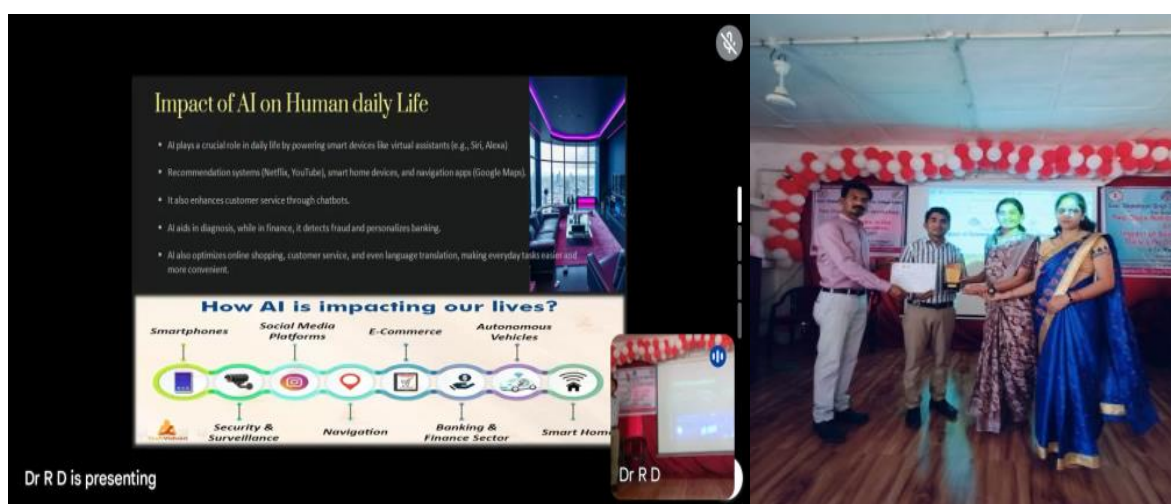
On the **second day** of the two days national workshop, **Mr. Bhupendra Kuldeep, Registrar, Hemchand Yadav University, Durg** was present a Chief Guest. He shared information related to the measurement of physical objects related to science, and also congratulated to the college family to organizing the two days national workshop. Mr. C.D. Manikpuri, Assistant Professor, Maths Department of the college was present as the special guest. He gave the outline of the program of the second day.



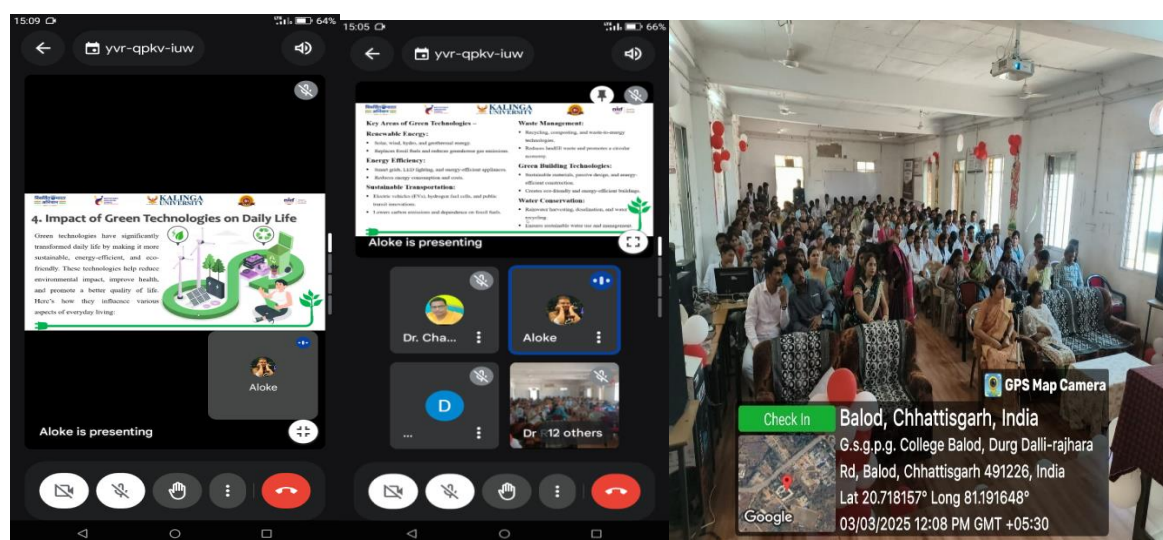
The first speaker of the second day was **Dr. Vikas Dubey, Associate Professor, North Eastern Hill University, Shillong, Meghalaya**. His lecture was based on the topic- **“Luminescence in the biomedical field”**. In which he gave detailed information about the various types of luminescence and its use in daily life.



Our second speaker was **Mr. Gulame Mustafa Ansari, Assistant Professor & HOD of Computer Application, Government Model College, Somani, Rajnandgaon(C.G).** His lecture was based on the topic – **“Artificial Intelligence and its tools”**. He gave detailed information related to Artificial Intelligence and shared information on the positive aspects and challenges of Artificial Intelligence in human life. He was also gives demonstrate how can we create ppt presentation within a minute by using AI Tools like gamma.ai, chat-gpt etc to our students.



Our third speaker was **Dr. Aloke Verma, Head of the Department of Physics, Kalinga University, Naya Raipur, C.G.** He presented his lecture on the topic – **“Green Technology”**. On the second day, an **essay& presentation competition** was organized on the topic -'Impact of science in our daily life observation', in which various students participated.



On the second day of the workshop, was concluded by Dr. R. D. Sahu (Asst. Prof. and HOD, Dept. of Physics) and vote of thanks was given by Mr. C.D. Manikpuri (Asst. Prof., Dept. of Mathematics).

This two-day national workshop concluded with the distribution of certificates by Mr. G.N. Khare (Asst. Prof, Dept. of Geography), Mr. Loman Kumar Tandon (Assistant Professor and HOD, History Department) and Mr. Manish Toppo (Sport Officer) to the participants and the winners of various competitions were awarded. Assistant Professors of the college Mr. Jitesh Kumar Sahu (Botany Department), Ms. Ritu Pisda (Zoology Department), were present in the two days workshop and faculty of our college Dr. Neeraj Verma, Dr. Neha Sahu, Ms. Kajal Rajput, Ms. Purnima Pathare, Dr. Arpita Chaturvedi, Ms. Ankita Patel, Dr. Ravi Shankar Singh, Ms. Akansha Dhruv, Mrs. Monika Bhardwaj, Ms. Dipti Sahu, Mr. Naman Sahu, Ms. Sujata Sahu had a special contribution in making this program successful.

All the students of the college were present in this workshop.



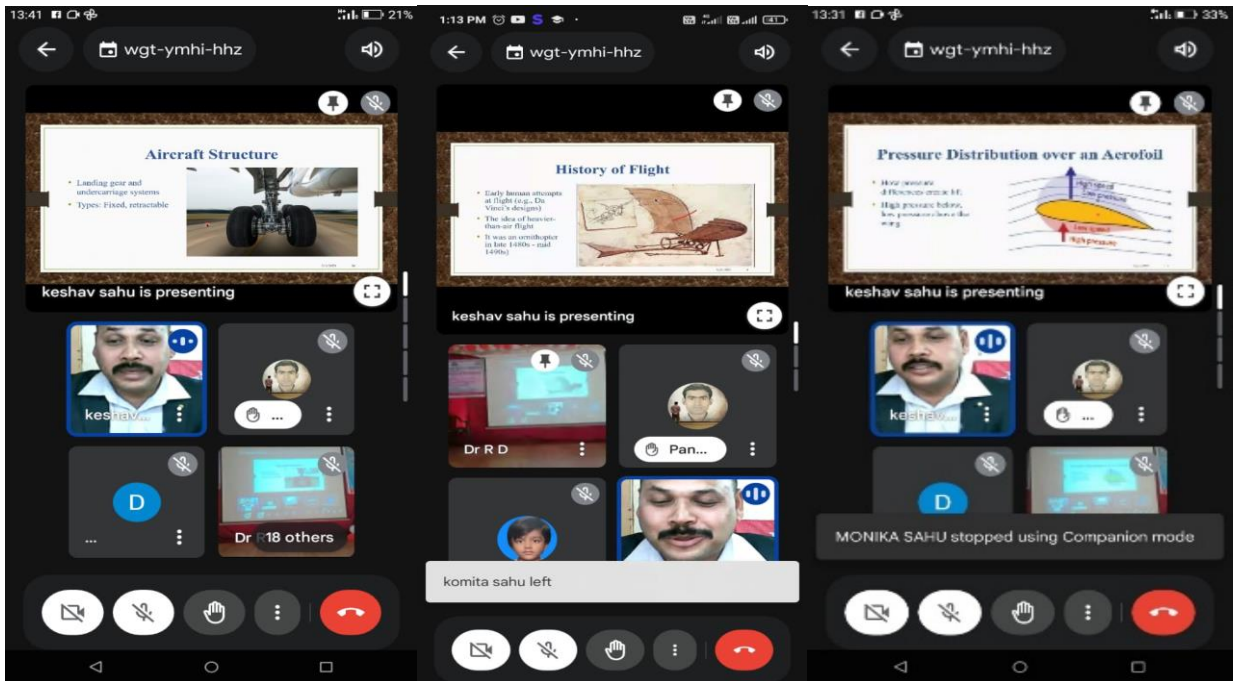


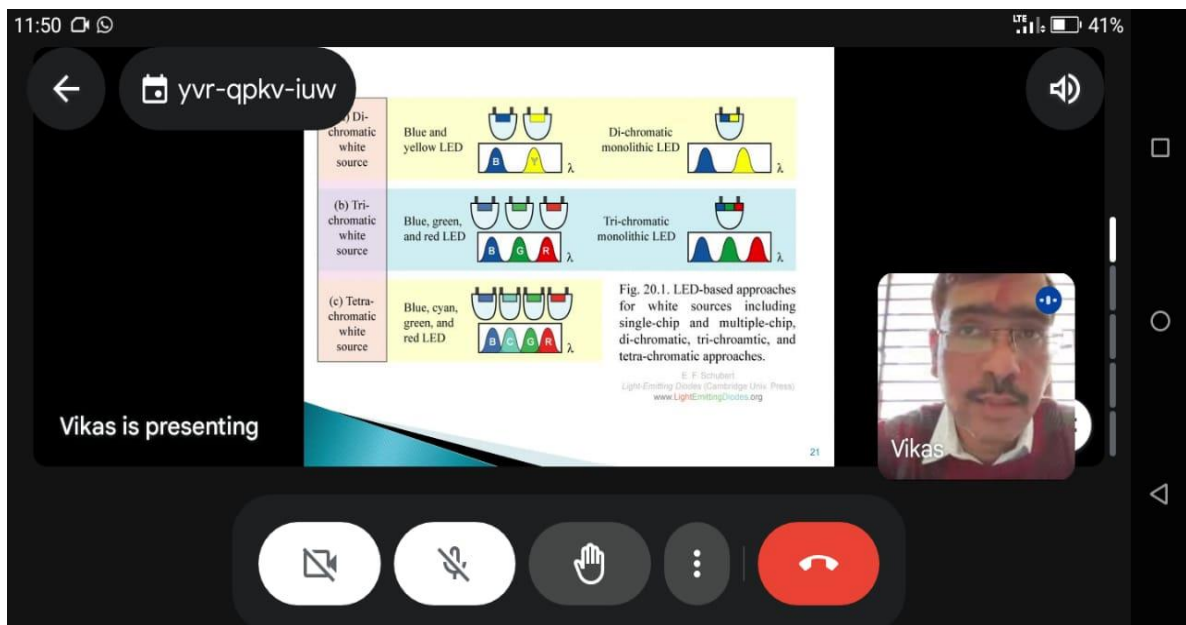




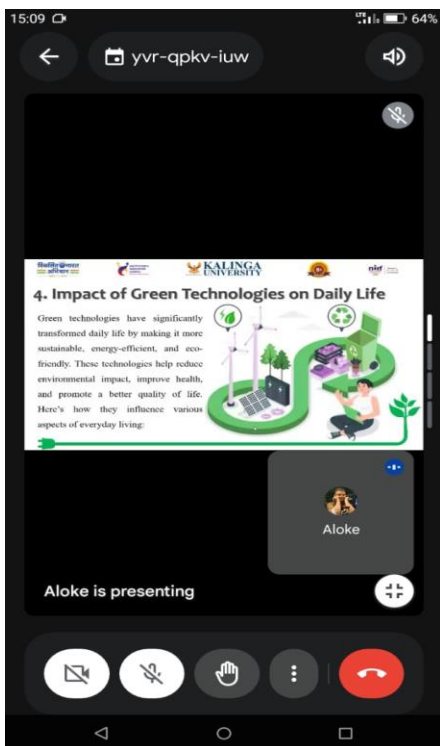


















## बालोद कॉलेज में राष्ट्रीय कार्यशाला आयोजित

 भास्कर दूत ब्यूरो

**बालोद।** शासकीय घनश्याम सिंह गुप्त महाविद्यालय बालोद में दिनांक 3 मार्च 2025 एवं 4 मार्च 2025 को दो दिवसीय राष्ट्रीय कार्यशाला का आयोजन किया गया, जिसका विषय "Impact of Science in Our Daily Life Observation" था।

थानु दिवस में मुख्य अतिथि के रूप में श्री चंद्रकांत कोशिक अपर कलेक्टर तथा विशिष्ट अतिथि डॉ. राजमणि पटेल उप कुलपति एवं हेमचंद्र यादव विश्वविद्यालय दुर्ग, परभित्त में थे। कार्यशाला के संयोजक एवं सहसंयोजक डॉ. एच. एल. मानकर तथा डॉ. आर.डी. पाव थे। कार्यक्रम का आरंभ शीघ्र प्रबलन के साथ हुआ, तत्पश्चात् विश्वविद्यालय के प्राचार्य डॉ.जे.के. खलसी के द्वारा कार्यशाला की रूपरेखा एवं विज्ञान के महत्व पर विचार प्रस्तुत किया। एवं विश्वविद्यालय के वरिष्ठ प्राध्यापक डॉ. राजेश.एल. मानकर के द्वारा वैज्ञानिक शोध एवं रिसर्च पेपर के बारे में अपने विचार प्रस्तुत किया, तत्पश्चात् मुख्य अतिथि श्री चंद्रकांत कोशिक के द्वारा कार्यशाला की संभावित कठिनें हुए छात्रों को

प्रथम वर्ष में बका सी के कति साहू senior instructor training institute airforce station, Hindaon(U.P) के द्वारा aerodynamics विषय पर व्याख्यान दिया जिसमें छात्रों को हवाई जहाज एवं विमानों जेट इंजन के बनावट व कार्य प्रणाली को रोचक पूर्ण तरीके से समझाया गया। इस व्याख्यान से छात्र-छात्राओं को विमान तकनीकी से संबंधित योग्य जानकारी प्राप्त हुआ तथा प्रथम दिवस के दृष्टिगत बका डॉ. कुमारजितु देमसुख सायकल प्रारम्भिक साहसिक विमान यात्रा कार्यक्रम स्थायी महाविद्यालय युवक ने जनरल मेकेनिज्म पर अपना व्याख्यान प्रस्तुत किया। व्याख्यान अनुक्रम को जानकारी दी तथा भौतिकी की प्रयोग को विशिष्ट व्यवस्थाओं से कैसे किया जा सकता है, उससे अवगत कराय़ा। प्रथम दिवस के तृतीय बका डॉ. अनित सिंह सहस्रक प्राध्यापक मह. मान्यता महाविद्यालय बालोद ने जेट ईंधन एवं वन-वीन-कण्डा ऊर्जा विषय पर व्याख्यान दिया, जिसमें विशिष्ट सेवाओं को सहजता से प्रद्विष्ट जल को स्थल जल में कैसे परिवर्तित किया जा सकता है तथा सेवा शैली से जेट ईंधन प्राप्त करने की तकनीक को बताया। व्याख्यान के पश्चात् विद्यार्थियों के मध्य विज्ञान के नकारात्मक व सकात्मक पक्षों को लेकर बदा विवाद प्रयोगशाला का आयोजन किया गया। प्रथम दिवस के कार्यशाला का समापन एवं



आभार प्रदर्शन प्रोफेसर शैलेंद्र आर्य  
के द्वारा किया गया।

राष्ट्रीय कायांशला के द्वितीय दिवस में मुख्य अतिथि के रूप में श्री भूपेंद्र कुलकर्णी कुलमन्त्रि एवं हेमचन्द्र यादव विश्वविद्यालय दुर्ग उपमहानगर, बरेilly, इन्होंने विज्ञान से जुड़े भौतिक वस्तुओं के मापन से संबंधित जानकारी साझा की, साथ ही साथ इन्होंने इस राष्ट्रीय कायांशला के सफल आयोजन के लिए महाराष्ट्रिय परिवार को शुक्रामनाएं दीं। विश्वविद्यालय के रूप में महाविद्यालय के प्रोफेसर श्री डी.मानिकपुरी उपस्थित थे। इन्होंने द्वितीय दिवस के कार्यक्रम को रूपरेखा दी। द्वितीय दिवस के प्रमुख रूपों डॉ विकास दवे एवं associate professor, North Eastern Hill University shillong.

meghalaya थे, इनका व्याख्यान  
biomedical क्षेत्र के  
लेव्मिनिसिंस विषय पर आधारित  
था जिसमें उन्होंने लेव्मिनिसिंस के  
विचार प्रकाश द्यूनिक जीवन में  
उपयोग के संदर्भ में विद्वत् जानकारी  
दी। द्वितीय दिवस के द्वितीय वक्ता  
श्री गुलाम मुस्तफा अंसारी सहायक  
प्रमुख के शासकीय महाविद्यालय  
सोमनी थे, इनका व्याख्यान  
आर्टिफिशियल इंटेलिजेंस एवं  
आईओटी पर आधारित था। उन्होंने  
आर्टिफिशियल इंटेलिजेंस से  
संबंधित विद्वत् जानकारी दी, साथी  
मानव जीवन में आर्टिफिशियल  
इंटेलिजेंस के सकारात्मक तथा एवं  
चुनौतियाँ पर जानकारी साझा की।  
द्वितीय दिवस के तृतीय वक्ता  
डॉ.आलोक वर्मा विभागाध्यक्ष  
भौतिक शास्त्र विभाग कलिंगा

पुनर्विनिर्देश है, इन्होंने ग्रीन टेक्नोलॉजी के विकास में अपना योगदान प्रस्तुत किया है। दिल्ली में विज्ञान के विभाग के science in our daily life observation पर निबंध प्रतियोगिता का आयोजन किया गया, जिसमें विभिन्न छात्र-छात्राओं ने भाग लिया। इस दो दिवसीय राष्ट्रीय कार्यक्रम का सम्पन्न प्रतियोगिताओं को सम्मान पत्रों के साथ किया गया तथा विभिन्न प्रतियोगिताओं के विजेताओं को पुरस्कार प्रदत्त किया। इस कार्यक्रम में मानविज्ञान के सहयोग अध्यापक विज्ञान कुमार यादव, मीतु सिन्हा, IQAC प्रभारी शोकरार मी, एन. जे. उपाध्याय शामिल हैं। इस कार्यक्रम को सफल बनाने में अधिकारी व्यक्ताओं जैसे नीरज वर्मा, डॉ. नेहा साहू, कर्पिता रायपुत्र पुर्विमा पाठे, डॉ. अर्पिता नुवद्वेदी, अर्पिता पाठे, डॉ. रवि शंकर शर्मा, अजंजला प्यज, योगिता माधुराज, देविश साहू, नमन साहू, सुजाता साहू, भी प्रमुख व्यक्ति हैं, डॉ. जे. के. पटेल भी समीप उपस्थित रहे, जिन अधिकारों का विशेष योगदान रहा। इस कार्यक्रम में मानविज्ञान के सभी छात्र-छात्राएं उपस्थित रहे।

## दो दिवसीय राष्ट्रीय कार्यशाला का आयोजन किया गया

प्रथम दिवस वक्ता श्रीकांत साहू ने छात्रों को हवाई जहाज एवं लड़ाकू विमान जेट इंजन की बनावट व कार्यप्रणाली को समझाया

नवभारत ब्यूरो । बालोद ।

शासकीय धनयाचक सिंह गुट महाविद्यालय  
 ३ एवं ४ यांचे को दिवसोपयोगी कार्य  
 कार्याला का आयोजन करणं। प्रथम  
 दिवस मुख्य अतिथी मुद्रकांत कोरिफे अर्प  
 लेवेकर तथा विशिष्ट अतिथी डॉ. राजमणि  
 पटेल उप कुलसचिव हेमचंद्र यादव  
 विश्वविद्यालय तथा उपनिषद थे। कार्याला  
 के संयोजक एवं सहसंयोजक डॉ. एचमल  
 मनकर तथा डॉ.आरडी साहू थे। दीप  
 प्रज्वलन पंचायत प्राचाय डॉ.रुके खल्लो  
 के द्वारा कार्यराला को सुरूआत एवं विज्ञान  
 के मूलत पर विचार प्रस्तुत किया। बाईट  
 प्राध्यापक डॉ. एचमल मनकर ने वैज्ञानिक  
 शोध एवं हिस्से पेर के बारे में अपने  
 विचार प्रस्तुत किया। चंद्रकांत कोरिफे ने  
 छात्रों को वैज्ञानिक दृष्टिकोण विकसित  
 करने के सलाह दी। प्रथम दिवस अर्प  
 श्रीकांत साहू द्वारा छात्रों को हमसब ज्ञान



एवं लड़ाकू विमान जेट इंजन के बनावट व कार्यप्रणाली को समझाया गया। द्वितीय वक्ता डॉ. कुशमांजलि देशमुख सहायक प्राध्यापक दुर्ग ने जनरल मैकेनिज्म पर अपना व्याख्यान प्रस्तुत किया। तृतीय वक्ता डॉ. अमितसिंह सहायक प्राध्यापक बालोद ने जैव ईंधन एवं नवीनीकरण ऊर्जा विषय पर व्याख्यान दिया। व्याख्यान के

पश्चात विद्यार्थियों के मध्य विज्ञान के नकारात्मक व सकारात्मक पक्षों को लेकर वाद विवाद प्रतियोगिता का आयोजन किया गया। आभार प्रदर्शन प्रोफेसर शैलेंद्र आर्य के द्वारा किया गया। राष्ट्रीय कार्यशाला के द्वितीय दिवस मुख्य अतिथि भूपेंद्र कुलदीप कुलसचिव हेमचंद्र यादव विश्वविद्यालय द्वारा संचालित कार्यक्रम के अंतर्गत विज्ञान से जुड़े भौतिक वस्तुओं के

मापन से संबंधित जानकारी साझा की विशिष्ट अतिथि प्रोफेसर सीडी मानिकपुरी ने द्वितीय दिवस के कार्यक्रम की रूपरेखा दी। द्वितीय दिवस के प्रथम वक्ता डॉ. विकास ने ल्यूमिनसेंस के विभिन्न प्रकार एवं दैनिक जीवन में उपयोग के संदर्भ में विस्तृत जानकारी दी। द्वितीय वक्ता गणेश सराफा अंग्रेजी सहयोग

अथाप्यक्ष शासकीय महाविद्यालय सेमेनी का व्यवस्थापन ऑर्गनाइजेशन इंस्टीट्यूट एवं एंथ्रोपेट्री पर आधारित था। नृतीय वक्रता (४) आलोचक वर्मा कांप्राना युनानसिटी से ग्रीस प्रवेशकाल के बारे में अपना व्याख्यापन प्रस्तुत किया। दो दिवसीय नृमैत्री कार्यक्रमों का सम्पानन प्रतीभायोगी को प्रमाण प्रप विवरण के विषय में तथा निष्पत्ति प्रतीतिगतताओं के संचितताओं को प्रस्तुत किया गया। कार्यशाला में सहायक कार्यक्रमक विविश्र कुमार राय, रिपु गिषवरा, प्रोफेसर जीनयन वरु: उपस्थित थे। इस कार्यक्रम को सफल बनाने में अतिथि व्याख्याताओं (४) नरेश वरमा, (४) नेहा शर्मा, काल रासपुर, पुष्पिमा पाठे, (४) अपर्णा चतुर्वेदी, अंकिता पाठे, (४) वरेश्वर शर्मा, रेश आशाका धूव, मोनिका भाद्राजन, दीप्ति शर्मा, नमन शर्मा, सुजाता शर्मा, पुनमचंद पुना, डॉ. जैकेल पटेल, मनीष शर्मा को योगदान प्राप्त रहा।

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# Brochure

## ABOUT COLLEGE



Ghanshyam Singh Gupt P.G. College, Balod, was established on 15th August 1983 as a multi-faculty co-ed institution under the name Government Science, Arts, and Commerce College, Balod. It was renamed in 2008-09 in honour of the freedom fighter Late Mr. Ghanshyam Singh Gupt. Initially part of Durg District, Balod became a separate district on 10th January 2012. The college was allotted 40 acres of land by the then Government of M.P., with its foundation stone laid by Chief Minister Motilal Vora. Registered under the UGC Act in 1989, the college started with 219 students and has grown to over 3,000 students today.

## ABOUT SCIENCE DEPARTMENT

The Department of Science was established in 1983, marking the beginning of a journey dedicated to academic excellence. A significant milestone was achieved in 1990 with the introduction of the Master's program. At present, the department offers seven streams in science. In addition to its regular academic activities, it consistently organizes conferences, seminars, and workshops on contemporary and relevant issues, fostering intellectual growth and knowledge sharing.

## ABOUT NATIONAL WORKSHOP

### Objectives of the Workshop :-

1. Provide for a deeper understanding of scientific concepts through hands-on experiments.
  2. To develop critical thinking and problem-solving skills.
  3. To encourage scientific curiosity, promote creativity, enhance practical skills.
  4. Aims to make science more engaging and accessible for students through practical application and exploration.
- Science impacts daily life by improving communication, transportation, healthcare, food production, and technology. It fosters curiosity, problem-solving skills, and a deeper understanding of cause-and-effect relationships.
  - In aerodynamics, students should understand airflow, lift, drag, airfoil shapes, and the effects of angle of attack and velocity on flight. Applying these principles to aircraft design enhances practical learning and technical expertise.
  - Learning AI and AI Tools helps students develop problem-solving skills and drive innovation in automation, efficiency, and data-driven decision-making.



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**DEPARTMENT OF SCIENCE & IQAC**

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**Two Days National Workshop**

On

**"Impact of Science in Our Daily Life Observations"**

(Hybrid Mode)

03 & 04 March 2025

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~ Venue of Workshop ~

Auditorium, Govt. Ghanshyam Singh Gupta P.G. College, Balod (C.G.)

~ Location ~



~ Address ~

Govt. Ghanshyam Singh Gupta P.G. College,  
Durg-Dallirajhara Road, City- Balod,  
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