

Report On Advanced Refresher Course (Biology) at Challakere, IISc Bengaluru



Submitted by: Dr Aman Verma (Participant)

Designation: Assistant Professor, Department of Zoology

Institution: Govt. P. G. College Berinag, Pithoragarh
(Uttarakhand)

Duration of Course: 15 August 2025 – 30 August 2025

Venue: Talent Development Centre, IISc Challakere Campus
at Khudapura, Chitradurga, Karnataka



Group photo of all faculties selected from different colleges and universities of Uttarakhand for refresher course at the IISc, Bengaluru

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U/39152/2025

संख्या-39152/XXIV-C-2/2025-1704/2025

प्रेषक,
ज्यो रंजीत कुमार सिन्हा
सचिव, उच्च शिक्षा
उत्तराखण्ड सरकार

सेवा में,

- निदेशक,
उच्च शिक्षा निदेशालय,
हल्द्वानी, (नैनीताल), उत्तराखण्ड।
- कुल सचिव,
समस्त राज्य विश्वविद्यालय।
उत्तराखण्ड।

उच्च शिक्षा अनुभाग-2 देहरादून, दिनांक 07 अगस्त, 2025

विषय: उच्च शिक्षा विभाग, उत्तराखण्ड अंतर्गत राज्य विश्वविद्यालयों एवं शासकीय महाविद्यालयों से विज्ञान संवर्ग के शिक्षकों के आईआईएससीसी, बैंगलोर में प्रशिक्षण के संबंध में।

महोदय,

उपपुस्तक विषयक अवगत कराना है कि उच्च शिक्षा विभागान्तर्गत राज्य विश्वविद्यालय परिसर एवं महाविद्यालयों के विज्ञान वर्ग के शिक्षकों के आईआईएससीसी बैंगलोर में प्रशिक्षण एवं संस्करण छात्रों के भ्रमण/प्रशिक्षण के संबंध में दिनांक 11 फरवरी 2025 को हुए समझौता ज्ञापन के क्रम में राज्याधीन विश्वविद्यालयों एवं संबद्ध महाविद्यालयों के 200 शिक्षकों को प्रतिवर्ष आईआईएससीसी, बैंगलोर में प्रशिक्षण प्रदान किया जाएगा। उक्त प्रशिक्षण कार्यक्रम के प्रथम चरण हेतु आईआईएससीसी, बैंगलोर द्वारा दिनांक 15 अगस्त, 2025 से दिनांक 30 अगस्त 2025 तक का समय तथा द्वितीय चरण हेतु दिनांक 28 दिसम्बर, 2025 से दिनांक 12 जनवरी 2026 तक का समय प्रदान किया गया है। उक्त अवधि में विज्ञान वर्ग के 50 छात्रों के भी 03-03 दिव के क्रमण एवं प्रशिक्षण कार्यक्रम की सहमति प्रदान की गयी है।

2- उक्त के परिप्रेक्ष्य में विज्ञान वर्ग के शिक्षकों के प्रशिक्षण कार्यक्रम के प्रथम चरण हेतु शिक्षकों के एच डब्ल्यू, शोध एवं पुस्तकों के प्रकाशन के माध्यम से प्रशिक्षण पर भौतिक विज्ञान, रसायन विज्ञान, गणित, मनस्यविज्ञान एवं जीव विज्ञान के पृथक-पृथक 20-20 शिक्षकों अर्थात् कुल कुल 100 शिक्षकों (संलग्न सूची अनुसार) का वैध तैयार कर प्रशिक्षण कार्यक्रम हेतु वयन किया गया है। उक्त अवधि में विज्ञान वर्ग के शिक्षकों की दिनांक 14 अगस्त, 2025 को आईआईएससीसी, बैंगलोर में उपस्थिति अनिवार्य है।

उक्त प्रशिक्षण कार्यक्रम को शिक्षकों के वैयक्तिक प्रोन्नति हेतु कोरियर एडवांसमेंट के लिए स्वीकार किया जाएगा। राज्य विश्वविद्यालय के समस्त कुलसचिव एवं निदेशक, उच्च शिक्षा से यह अपेक्षा है कि यूँकि राज्य सरकार द्वारा शिक्षकों के प्रशिक्षण की विशेष

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व्यवस्था अमल में लायी जा रही है, अतः शिक्षकों को वैयक्तिक प्रोन्नति हेतु कोरियर एडवांसमेंट के लिए अन्य प्रशिक्षण कार्य हेतु अवकाश अनुमति करने से पूर्व शासन की सहमति अवश्य प्राप्त कर ली जाय। प्रशिक्षण कार्यक्रम में प्रतिभाग हेतु शिक्षकों को अनुमति प्राप्त करना उक्त संबंधित संस्थान से देय होगा, किन्तु प्रशिक्षण अवधि में किसी भी प्रकार का अन्य दैनिक भत्ता अनुमति नहीं होगा।

3- उक्त के सम्बन्ध में मुझे यह कहने निदेश हुआ है कि कृपया उक्त प्रशिक्षण कार्यक्रम में निर्धारित कार्यक्रमानुसार प्रतिभाग किये जाने हेतु घायित शिक्षकों को अपने स्तर से निर्देशित करने का कष्ट करें तथा निदेशक, उच्च शिक्षा एवं कुलसचिव, सम्स्त राज्याधीन विश्वविद्यालय परस्पर समन्वय करते हुए शासकीय महाविद्यालयों एवं राज्य विश्वविद्यालयों से विद्यापीठीय शिक्षक भारत दर्शन योजना अंतर्गत विज्ञान वर्ग के 50 छात्रों को भी उक्त प्रशिक्षण अवधि में आईआईएससीसी, बैंगलोर भेजना सुनिश्चित करें।

निदेशक, उच्च शिक्षा से यह भी अपेक्षा की जाती है कि निदेशालय स्तर पर प्रशिक्षण मद में उपलब्ध वनराशि में से आईआईएससीसी, बैंगलोर को उक्त प्रशिक्षण कार्यक्रम हेतु नियमानुसार अग्रिम धनराशि का भुगतान करने का कष्ट करें।

संलग्न प्रेषित।

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Ranjit Kumar Sinha
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 सचिव, उच्च शिक्षा

पुनर्लेख संख्या-39152/XXIV-C-2/2025-1704/2025 उपदिनांक।
निम्नलिखित को सूचना एवं आवश्यक कार्यवाही हेतु प्रेषित।

- निजी सचिव, मा० मंत्री, उच्च शिक्षा उत्तराखण्ड सरकार को मा० मंत्री महोदय के संज्ञानार्थ।
- निदेशक, आईआईएससीसी, बैंगलोर।
- मा० कुलपति, समस्त राज्य विश्वविद्यालय, उत्तराखण्ड।
- अपर सचिव/संयुक्त सचिव/उप सचिव/अनु सचिव, उच्च शिक्षा विभाग, उत्तराखण्ड शासन।
- प्रो० राज्या रेड्डी, समन्वयक, टैलेन्ट डेवेलपमेंट सेंटर एण्ड रिकल डेवेलपमेंट सेंटर, आईआईएससीसी, बैंगलोर।
- संबंधित प्राचार्यक द्वारा संबंधित कुलसचिव/निदेशक, उच्च शिक्षा/परिसर निदेशक/प्राचार्य।
- संयुक्त निदेशक/उप निदेशक/सहायक निदेशक उच्च शिक्षा विभाग, उत्तराखण्ड द्वारा निदेशक, उच्च शिक्षा।

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उप सचिव

G.O. regarding the Advanced Refresher Course at the IISc Bengaluru

Sr. No.	Full Name of The Faculty	Present Designation	Subject Name	University/Affiliating University Name	Name of the College/University Campus	Mobile No	WhatsApp No	Alternate email Address	Present Pay Scale (mention pay level/grade)	Date of Birth	Date of Joining	H-Index	No. of Research Publication	No. of Book Publication
1	Ahmad Pervez	Professor	Zoology	Sri Dev Suman Uttarakhand University	Pt. Lalit Mohan Sharma Campus Rishikesh	9368964587	9368964587	ahmadpervez@yahoo.com	144200-218200 Level 14	2/9/1973	1/8/2005	28	130	3
2	Dr. Mukesh Samant	Assistant Professor	Zoology	Sobhan Singh Jeena University, Almora	Sobhan Singh Jeena University Campus, Almora	9012398089	6397730105	mukeshsamantjcampus@gmail.com	Pay Matrix-12	05/10/1980	30/05/2013	28	50	3
3	Dr. Rakesh Verma	Assistant professor	Zoology	LSM campus Pithoragarh	SSI University Almora		9897368158	rakeshverma.pithoragarh@gmail.com	AGP 7000 (UGC academic level II)	1/6/1985	10/7/2020	13	30	5
4	Deepak Kumar Arya	Assistant Professor	Zoology	Kumaun University, Nainital	D. S. B. Campus, Nainital	8476970520	8476970520	dee.in@rediffmail.com	Grade Pay Rs. 8,000/-	10/08/1982	02/05/2013	9	20	8
5	Dr. Anchala Nautiyal	Assistant Professor	Zoology	Sri Dev Suman Uttarakhand University	Rajkeeya Mahavidyalaya Thattur, Tehri Garhwal	9557658603	9557658603	Anchala.nautiyal@gmail.com	64900 Pay level 10	10/06/1989	03/07/2020	8	17	1
6	Dr. Hemant Joshi	Assistant Professor	Zoology	Sri Dev Suman University, Badkhalithaul, New tehri	Govt. Degree college chabattakhal	7580664737	7580664737	drhaimantjoshi@gmail.com	57700-182400 (UGC Level-10)	14/12/1976	2/1/2017	7	52	
7	Dr. Ram Chandra Maurya	Assistant Professor	Zoology	Sobhan Singh Jeena University Almora	Sobhan Singh Jeena University Campus Almora	7376332769	7376332769	mauryarc@gmail.com	12	10/07/1979	02/05/2013	7	22	
8	Prof Dr Madhu Thapliyal	Professor	Zoology	Sri Dev Suman Uttarakhand University	RCU Government PG college Uttarkashi	7579045745	7579045745	madhuthapliyal@gmail.com	144200 to 218200 (level 14)	19/11/1974	16/07/2005	6	49	7
9	Dr Aman Verma	Assistant Professor	Zoology	Sobhan Singh Jeena university	GPCC Bering	9557016715	9719223913	amanmain92@gmail.com	57,700 - Level 10	12/2/1992	31/01/2025	6	16	
10	Monu Bala	Assistant Professor	Zoology	S.S.J University Almora	S.S.J.P.G.College Syalde Almora.	8810368236	8191826385		91000	26/08/1982	02/07/2020	6	11	3
11	Prof. Mahabir Singh Rawat	Professor & Campus Director	Zoology	Sri Dev Suman University, Badkhalithaul Tehri	Pt. LMS Campus, Rishikesh	9412916792	9412916792	drmsrawat2@yahoo.co.in	144200-218200 (14)	3/11/1967	5/6/1997	5	28	
12	Chandra pal singh	Professor	Zoology	Sri Dev Suman Uttarakhand University	Govt Degree college charyala, Haridwar	9557498950	9557498950	cpingsh26 feb@gmail.com	144200-218200 (UGC LEVEL 14)	26/02/1973	22/07/2005	5	15	2
13	Dr Prithvi Raj Singh Koranga	Assistant Professor	Zoology	Sri Dev Suman Uttarakhand University	Sister Government Degree College Nainitanda	9999796469	9999796469	prskoranga@gmail.com	57700-182400 (UGC Level-10)	06/07/1981	27/02/2025	5	6	
14	Dr. Sandeep Kumar	Associate Professor	Zoology	SSJU, Almora	SSJU Campus, Almora	9411358630	9411358630	drsandeeppj@gmail.com	13A	7/8/1980	4/12/2010	4	35	2
15	Dr Tribhuvan Chandra	Assistant Professor	Zoology	SDSU Badkhalithaul, New Tehri	Shakred Durga Mall Govt Pg College Doiwala	7895321400	7895321400	tribhuvan.chandra@gmail.com	68900-205600 (Level 11)	18/10/1981	19/09/2014	4	19	1
16	Dr. Dalip Kumar Bhatia	Assistant Professor	Zoology	Sridevsuman University, Tehri Garhwal	Government P.G. College Dakpathar Dehradun	9412047259	9412047259	dkbhatia99@gmail.com	Level - 11	30/05/1970	23/07/2016		12	1
17	Dr. Akash Chandra Mishra	Assistant Professor	Zoology	Kumaun University, Nainital	Radhey Hari Government Post Graduate College, Kashipur	8355030949	8355030949	akszo_mis@rediffmail.com	68900-205600 (UGC LEVEL-11)	1/5/1979	13/11/2014	3	10	6
18	Dr Rajni Mehra	Assistant professor	Zoology	Sobhan singh jeena University,Almora	Govt.Model Degree College Devidhura , Champawat	9412306599	9412306599	mehrarajjain970@gmail.com	89800 (Level-12)	8/9/1970	18/03/2013	3	10	1
19	Dr.Neelam Saini	Assistant Professor	Zoology	Sri Dev Suman University Badkhalithaul Tehri Garhwal	PSB Govt Degree College Lambgon Tehri Garhwal Uttarakhand (249165)	8650647633	8650647633	neelamarsvshani999@gmail.com	57700-182400	30/01/1986	03/06/2025		6	4
20	Dr Vishal Kumar	Assistant Professor	Zoology	SSJ University Almora	GPCC Bering	9997538362	9997538362	Vishalangel27@gmail.com	57700-182400	27/07/1988	1/2/2025	2	8	1

Selection list of participants for the Advanced Refresher Course (Biology) at the IISc Bengaluru

HIGHLIGHTS OF THE COURSE

Introduction

This report provides a comprehensive account of my participation in the Advanced Refresher Course conducted at the Indian Institute of Science (IISc), Challakere Campus, Bengaluru from August 15 – August 30, 2025. The programme spanned sixteen days and was designed to strengthen pedagogical skills, enhance conceptual understanding in the life sciences, and introduce faculty to research-based teaching methodologies. The training was designed to enhance teaching skills, research orientation, and subject knowledge, while also fostering collaboration among educators. This report outlines my journey, key activities, and outcomes of the program.

Chronology of Events

1. Preliminary Meeting – 13 August 2025

- Attended a meeting at Dehradun with the Higher Education Secretary and other officials.
- The session focused on the general discussion of aims and objectives of the training program.
- Emphasis was placed on improving teaching methodologies, integrating research-based learning and encouraging the integration of modern scientific approaches at the undergraduate level.

Participants were apprised of their roles, expected conduct, and anticipated outcomes of the programme.

2. Arrival at Challakere – 14 August 2025

- Reached the Challakere Talent Development Centre on the night of 14 August 2025, following a flight to Bengaluru and subsequent travel by bus to the campus.
- Accommodation arrangements and essential information regarding campus facilities were provided upon arrival.
- The campus provided a serene and academic environment conducive to learning.

3. Independence Day Celebration – 15 August 2025

- The program formally commenced on 15 August 2025 with the Independence Day flag hoisting ceremony on campus.
- The ceremony instilled a sense of national pride and unity among the participants.
- Following the ceremony, the Director of IISc Challakere presented slides and delivered an insightful orientation, highlighting the history, establishment, achievements, and vision of IISc Bengaluru.
- An overview of the fifteen-day training module was also presented.

4. Commencement of Training

- Training started with a pre-test on Life Sciences to assess baseline knowledge of participants.
- Trainers introduced the activities planned, including:

- Mini research projects
- Laboratory practical sessions
- Regular theoretical classes and attendance
- Participation in daily assignments, academic and extracurricular activities
- It was announced that a Best Performer Award would be given to the most outstanding participant.

5. Training Activities and Academic Engagement

Over the following days, several lectures, workshops, and practical sessions were conducted by distinguished professors and scientists from IISc Bengaluru.

The training encompassed:

- Hands-on laboratory experiments in molecular biology, ecology, and biochemistry
- Demonstrations involving modern scientific instruments and techniques
- Lectures on innovative teaching methodologies aligned with NEP 2020
- Group discussions, assignments, and collaborative academic tasks
- Continuous assessments to track learning progress

These sessions significantly enriched my academic insight and research aptitude as well as interaction with faculty members enriched my understanding of advanced concepts in Life Sciences and pedagogy.

6. Final Assessment and Award Ceremony – 30 August 2025

- The final day of the programme, 30 August 2025, concluded with a comprehensive assessment to evaluate knowledge gained throughout the training.
- I am honored to state that I achieved the highest score in the final evaluation.

During the award and certificate distribution ceremony, I was conferred with the “**Best Performer Award**,” an achievement that provided immense motivation and professional encouragement.

7. Return Journey

- After the successful completion of the program, we flew back to Delhi from Bangalore.

Outcomes and Reflections

- Enhanced subject knowledge in Life Sciences.
- Gained exposure to research-oriented teaching methods.
- Developed skills in conducting mini projects and lab practicals.
- Recognition as Best Performer boosted my confidence and motivation.
- The program provided valuable networking opportunities with fellow educators and IISc faculty.

8. Conclusion

The Advanced Refresher Course (Biology) at IISc Challakere proved to be highly enriching, both academically and professionally. It provided valuable exposure to advanced research practices, laboratory techniques, and effective pedagogical strategies. It not only strengthened my academic foundation but also inspired me to adopt innovative teaching practices in my professional career. I am confident that the knowledge and experience gained will greatly benefit my teaching practices and contribute positively to my institution.

I extend my sincere gratitude to the Higher Education Department, IISc Bengaluru, and my college administration for granting me this opportunity for professional advancement.



Group photo of all faculties selected from different colleges and universities of Uttarakhand for refresher course at the TDC, IISc



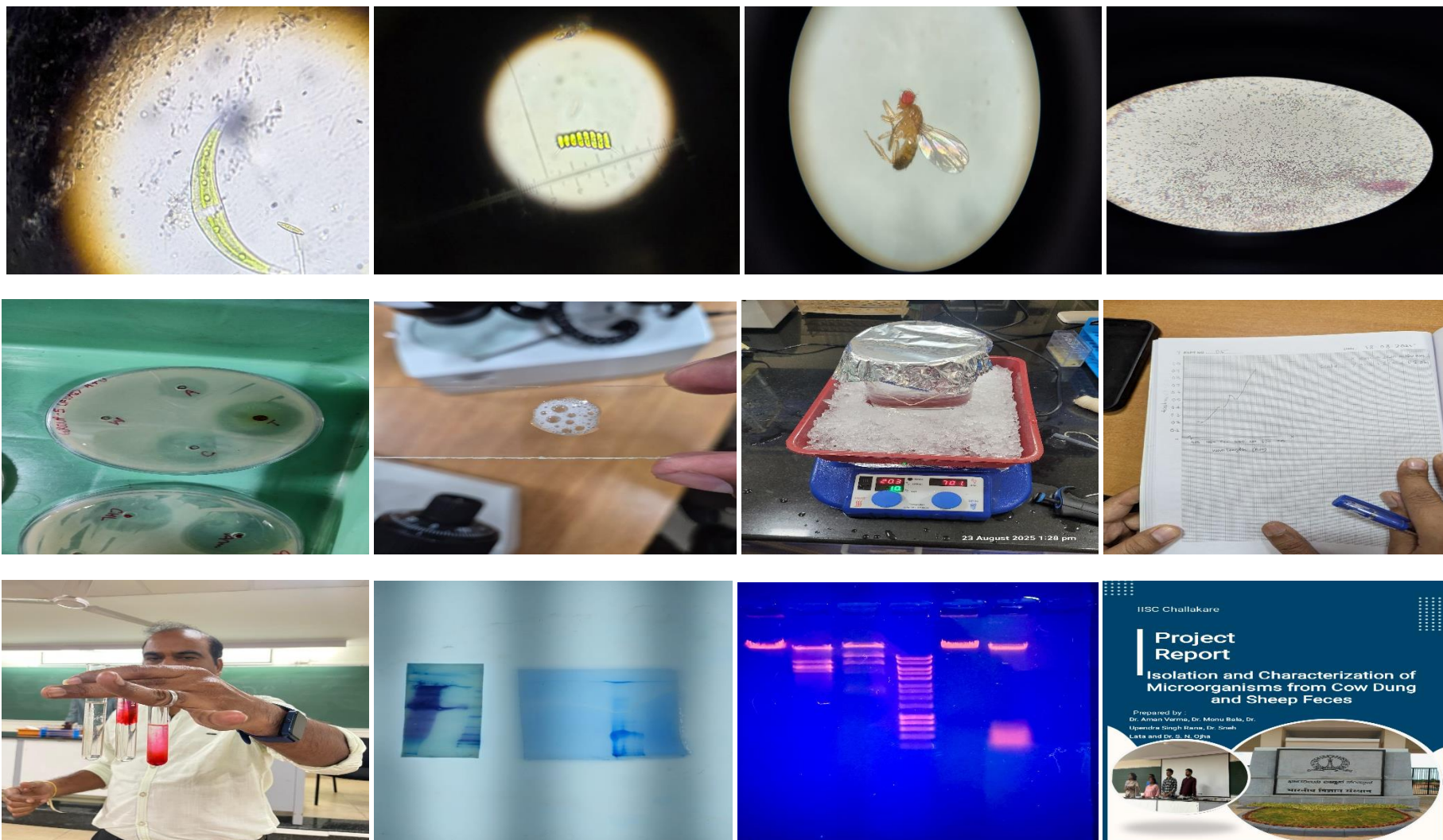
Address and orientation by the Director of the TDC, IISc



Flag hoisting by the Director of the TDC, IISc on 15 August 2025



Award and certificates received at the Advanced Refresher Course (Biology) conducted at the Indian Institute of Science, Challakere Campus at Khudapura, Chitradurga District, Karnataka



Laboratory practical, experiments and research project completed during the Advanced Refresher Course (Biology) conducted at the Indian Institute of Science, Challakere Campus at Khudapura, Chitradurga District, Karnataka

OUTCOMES OF THE COURSE

1. Enhanced Pedagogical Skills

Participants gained improved teaching methodologies aligned with modern educational standards and NEP-2020, enabling more effective classroom delivery.

2. Strengthened Subject Knowledge

The advanced lectures and interactions with IISc professors deepened conceptual understanding in Life Sciences, allowing participants to teach with greater clarity and confidence.

3. Hands-on Research Experience

Exposure to laboratory techniques, scientific instruments, and mini-research projects strengthened research aptitude and encouraged inquiry-based teaching.

4. Improved Ability to Design Experiments

Participants learned to plan, conduct, and interpret laboratory experiments, which can be directly applied to undergraduate practical classes.

5. Integration of Research with Teaching

The training highlighted the importance of connecting theoretical knowledge with real scientific research, helping teachers make courses more application-oriented.

6. Development of Critical Thinking

Continuous assessments, group discussions, and academic tasks fostered critical analysis, scientific reasoning, and problem-solving skills.

7. Increased Professional Competence

Receiving structured training from a premier institution like IISc enhanced participants' academic profile and boosted professional confidence.

8. Motivation for Continuous Learning

Interaction with leading scientists inspired lifelong learning, academic curiosity, and a commitment to staying updated with scientific advancements.

9. Networking and Collaboration

The programme facilitated meaningful collaborations with faculty from different institutions, creating opportunities for joint research and academic initiatives.

10. Improved Academic Output

The skills gained are expected to reflect in:

Better classroom teaching

Higher-quality practical sessions

Student mentoring for projects

Improved academic results and departmental performance

11. Leadership and Recognition

Achievements such as securing high scores and receiving the Best Performer Award enhance leadership qualities and set a positive example for peers and students.

NEWS REPORT

Monday, November 24, 2025
Latest: सरकार ने गुरु तेग बहादुर शाही दिवस के अवसर पर प्रदेशभर में सार्वजनिक अवकाश 24 नहीं 25 नवंबर को घोषित किया ।

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महाविद्यालय के चार प्राध्यापकों ने आई. आई. एस सी बेंगलुरु के प्रशिक्षण कार्यक्रम में प्रतिभाग कर बेस्ट परफॉर्मर अवार्ड प्राप्त किया।

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वीडियो

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Hindi

मनीष पंत
पन्त कंसद्रवशन बेरीनाग

आप सभी क्षेत्रवासियों को
धनतेरस एवं दीपावली
की हार्दिक
शुभकामनाये
मनोज सानी ग्राम प्रधान चोकोडी

एनएचएल नेटवर्क संवाददाता।
बेरीनाग। राजकीय स्नातकोत्तर महाविद्यालय में उच्च शिक्षा विभाग उत्तराखंड अन्तर्गत राज्य विश्वविद्यालय एवं राजकीय महाविद्यालय के विज्ञान संकाय के शिक्षकों हेतु आई. आई. एस. सी. बेंगलुरु (15 अगस्त से 30 अगस्त) द्वारा संचालित प्रशिक्षण कार्यक्रम के प्रथम चरण में महाविद्यालय के वनस्पति विज्ञान विभाग की असिस्टेंट प्रोफेसर डॉ. बीना लोहिया, रसायन विज्ञान विभाग के असिस्टेंट प्रोफेसर डॉ. महेश विश्वकर्मा, जल विज्ञान विभाग के असिस्टेंट प्रोफेसर डॉ. अमन वर्मा तथा डॉ. विशाल टन्ना ने प्रतिभाग किया। इस प्रशिक्षण कार्यक्रम में डॉ. अमन वर्मा को बेस्ट परफॉर्मर अवार्ड तथा डॉ. बीना लोहिया को बेस्ट प्रोजेक्ट अवार्ड मिला। महाविद्यालय के प्राचार्य प्रोफेसर बी.एम. पाण्डेय, समस्त प्राध्यापक तथा शिक्षणोत्तर कर्मचारियों ने उक्त प्राध्यापकों को बधाई देते हुए इस उपलब्धि पर खुशी जताई है।
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