

## High-End Workshop (KARYASHALA)

on

# INTEGRATING ANIMAL TAXONOMY TECHNIQUES AND ARTIFICIAL INTELLIGENCE IN WILDLIFE CONSERVATION BIOLOGY RESEARCH

sponsored by

## Science and Engineering Research Board

(a statutory body of Department of Science & Technology, Government of India)

under

## Accelerate Vigyan Scheme



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14<sup>th</sup> – 21<sup>st</sup>  
March 2024

## CENTRAL UNIVERSITY OF JAMMU

Rahya Suchani Bagla, District Samba, Jammu and Kashmir India-181143

Website: [www.cujammu.ac.in](http://www.cujammu.ac.in)

Patron:

Professor Sanjeev Jain  
Hon'ble Vice-Chancellor

### Convenor's:

Prof. Deepak Pathania  
Prof. Sunil Dhar  
Prof. B.S. Bhau  
Prof. Richa Kothari  
Dr. Swarkar Sharma

### Event Organizer:

Dr. Vinita Sharma

### Organizing Team:

Dr. Ashok Kumar Yadau  
Dr. Dhanananjay Kumar  
Dr. Shvetambri Jasrotia  
Dr. Anjali Dhar  
Dr. Stanzin Ladol

### Important dates:

Registration start: 24/02/2024

Registration closed: 03/03/2024

Intimation to selected participant: 04/03/2024

No registration fee  
Total seats: 25

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### About Karyashala Scheme

KARYASHALA is an effort by the Science and Engineering Research Board (SERB), Government of India via Accelerate Vigyan to improve research productivity of promising PG and Ph.D. students from universities and colleges through highend workshops on specific themes. This program aims to provide opportunities to acquire specialized research skills.

### About Central University of Jammu



The Central University of Jammu (CUJ) came into existence on August 08, 2011 and was established under the Central Universities Act, 2009 (Act No.25 of 2009 read with the Central Universities Act, 2009). University is offering various Undergraduate/ Postgraduate/ Ph.D./ Diploma/Certification programmes through its various Departments and Centres. All programmes offered by the University are aligned with the New Education Policy, 2020. To cater to the present need the university boasts state-of-the-art infrastructural facilities. The University is located at the Village Rahya – Suchani (Bagla) in District Samba of J&K, approximately 24 km away from Jammu-Tawi Railway Station, 25 km

from the Jammu Airport, and around 7 km from the National Highway. The campus is well connected through local and state transport. Central University of Jammu epitomizes an inclusive and pluralistic institution of higher learning. The faculty and students as a collective community is committed to discovering and sharing knowledge, as well as addressing the challenges that our world is facing.

### About Department of Zoology

The Department of Zoology, was established in 2016 offering courses as Integrated B.Sc. (Hons.) M.Sc. Zoology program and Ph.D. The faculty members of the department are vibrant and dynamic and specialized in diverse fields of research including Health Science; Microbiology; Chronobiology; Limnology and Fisheries; Entomology; Neurobiology; Ethology; Animal Systematic, Taxonomy and Wildlife Conservation Biology.

### About workshop

Animal taxonomy plays a key role in wildlife conservation biology research, as it provides the basis for interpreting and conserving biodiversity. Accuracy and efficiency of animal identification, taxonomy and classification are crucial aspects and the integration of advanced computer vision and machine learning play a significant role in addressing the task. The integration of animal taxonomy with Artificial Intelligence (AI) represents a significant advancement in the effort to enhance wildlife conservation. Accurate recognition of species is essential for developing effective conservation strategies. AI improves the effectiveness of identifying species by utilizing sophisticated algorithms, picture recognition, and data analysis. Integrating traditional taxonomy with advanced technology accelerates the process and helps to manage large datasets, making a substantial contribution to biodiversity assessments and more efficient conservation initiatives. The workshop aims to bring together experts from different disciplines of Animal Taxonomy, Computer Science and Wildlife Conservation Biology Research who will share their knowledge and experience on the challenges and opportunities of combining traditional and modern methods for identifying, classifying, and monitoring biodiversity. The workshop on “*Integrating Classical Animal Taxonomy Techniques and*

"Artificial Intelligence in Wildlife Conservation Biology Research" is a comprehensive and interactive program that aims to equip participants with the skills and knowledge to apply both traditional and modern methods of animal taxonomy in the context of biodiversity conservation. The workshop will feature some theoretical sessions followed by a maximum of hands-on sessions where participants will learn various animal taxonomy techniques ranging from classical to modern one and learn about the use of various tools and platforms for collecting, processing, analyzing, and visualizing data from field surveys, laboratory analysis, camera traps, drones and citizen science projects and their implications in Wildlife Conservation Biology Research.

## Event Highlight

- Identification of major wild animal groups and taxonomic characterization in field and laboratory
- Molecular Taxonomy, Sono-taxonomy, Immunological Techniques
- Tools and techniques (classical to advanced) used in animal taxonomy and wildlife conservation biology research
- Artificial Intelligence: Concept, scope and applications in Wildlife Conservation
- Role of Animal Taxonomy in Wildlife Disease Diagnosis and Integration of Artificial Intelligence
- Role of Artificial Intelligence and GIS in Wildlife Conservation Biology Research

## Who Can Attend?

- UG (4<sup>th</sup> Year) students/ PG/ Ph.D. students having Zoology background working towards research in the area of Animal Taxonomy and Wildlife Conservation Biology
- TA and accommodation will be provided to the selected participants as per the DST-SERB Accelerate Vigyan norms

## REGISTRATION DETAILS

- Registration Fee: NIL
- Total seats: 25 only
- Travelling Allowance (TA) will be provided to the selected participants as per the DST Government of India norms (Train fare up to AC-III tier class or state transport buses by the shortest route as per GOI norms).
- Accommodation will be provided free of cost to the selected participants

## How to Apply:

- Interested students can register by completing the online Google Form link given below:  
<https://forms.gle/ozXTFyR7aF4ck6q2A>
- The applicant needs to attach an Endorsement cum No Objection Certificate issued by the Principal/Head of the Department/Thesis Supervisor and Undertaking from the applicant as a single PDF file in the Google form. The formats of NOC and undertaking form can be downloaded by clicking on link given below:

[https://drive.google.com/file/d/1HvirKyM2nbmErSYt7OkYhzOmPKNzxwEq/view?usp=drive\\_link](https://drive.google.com/file/d/1HvirKyM2nbmErSYt7OkYhzOmPKNzxwEq/view?usp=drive_link)



## IMPORTANT DATES

Last date of Registration : 03/03/2024 (23:59 hrs)  
Intimation to the shortlisted participants: 04/03/2024  
(through email)

## For any query, please contact

Dr. Vinita Sharma (Event Organizer)  
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+91 9460970435