

राजनीति विज्ञान विभाग, डी.एस .बी. परिसर कुमाऊँ विश्वविद्यालय,नैनीताल- 263002

पत्रांक- राजनीति विज्ञान/

दिनांक-

SEMINAR		
TOPIC	THE ROLE OF PILS IN HUMAN RIGHTS PROTECTION AND ENVIRONMENTAL CONSERVATION	

DEPARTMENT OF POLITICAL SCIENCE

DATE AND VENUE	21 -22 SEPTEMBER 2023	
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ORGANISED BY	DEPARTMENT OF POLITICAL SCIENCE	
HEAD & CONVENER	PROF NEETA BORA SHARMA	
Number of participants	111 & 85	
SPONSORED BY	KUMAUN UNIVERSITY NAINITAL	

HEAD OF DEPARTMENT

Deptt. of Political Science

D. S. B. Campus

Kumson University

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SEMINAR REPORT -

THE ROLE OF PIL IN HUMAN RIGHTS PROTECTION AND ENVIRONMENTAL CONSERVATION

DEPAPARTMENT OF POLITICAL SCIENCE

21-22 SEPTEMBER 2023

ORGANIZED BY- PROF NEETA BORA SHARMA

The purpose of the seminar is to enable to student to improve their knowledge and understanding of a topic by engaging with key issues

21-22 SEPTEMBER 2022 UGC-MMTTC NAINITAL

SPONSORED BY- KUMAUN UNIVERSITY NAINITAL

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> Deptt. of Political Science D. S. B. Campus Kumsen University

Activity 3

Title of Event	Distinguished lecture on special lecture on
	"Sampling in Social Research"
Expert	Prof Vibha Joshi
	Department of Economics,
	Vasanta College for Women, Varanasi,
Department Name	Sociology
Date of event	13 Dec, 2022
Name of organizers/ contributor	Dept of Sociology
Number of Participants	28

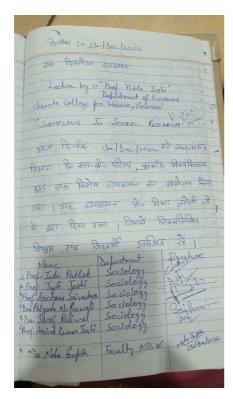
The Department of Sociology at Kumaun University organized a special lecture on "Sampling in Social Research" on December 13, 2022. Professor Vibha Joshi from the Department of Economics at Vasanta College for Women, Varanasi, delivered an insightful presentation on various sampling techniques and their application procedures.

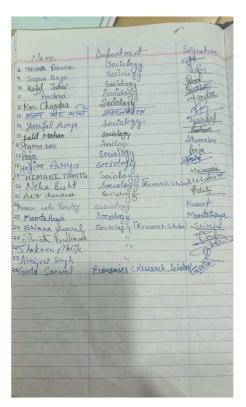
Purpose of the Event

The purpose of this special lecture was to provide attendees with a deeper understanding of sampling methodologies within the context of social research. Professor Vibha Joshi elucidated different sampling methods, including probability and non-probability sampling, and demonstrated their relevance through real-world examples. The aim was to empower participants with the knowledge and skills needed to effectively utilize sampling techniques in their research endeavors.

Conclusion:

In conclusion, the special lecture on "Sampling in Social Research" by Professor Vibha Joshi was a highly informative session that left a lasting impact on all attendees. By delving into the intricacies of sampling methodologies and their practical applications, participants gained valuable insights into the fundamental principles of social research. Equipped with this newfound knowledge, they are better prepared to conduct robust and credible research that contributes meaningfully to the field of sociology.







Activity 4

Title of Event	Student Seminar on "Drug Abuse and Addiction:
	Impact on Social Institutions"
Department Name	Sociology
Date of event	27 October, 2023
Name of organizers/ contributor	Dept of Sociology
Number of Participants	36

The Department of Sociology organized a Student Seminar on October 27, 2023, with the theme "Drug Abuse and Addiction: Impact on Social Institutions." The seminar aimed to shed light on the multifaceted impact of drug abuse and addiction on various facets of society, including family dynamics, health, education, and the economy. Through presentations from esteemed faculty members, research scholars, and students, the event provided a comprehensive overview of the challenges posed by drug abuse and addiction and proposed potential solutions to address these issues.

Purpose of the Event:

The seminar served as a platform for scholars, students, and experts to come together and explore the intricate relationship between drug abuse and its effects on social institutions. Dr. Arshi Parveen, the Organizing Secretary, initiated the event by defining drugs and discussing their various categories, followed by presentations from research scholars and students that delved into the sociological, psychological, and economic aspects of drug abuse. Speakers highlighted the regional context of drug trafficking and consumption, the impact on familial relationships, the role of media and cultural influences, and the health repercussions associated with drug addiction. Through these discussions, the

event aimed to raise awareness, foster dialogue, and promote effective strategies for combating drug abuse within society.

Conclusion:

The seminar on "Drug Abuse and Addiction: Impact on Social Institutions" proved to be a resounding success, thanks to the collaborative efforts of faculty members, research scholars, and students. The event provided valuable insights into the complexities of drug abuse and addiction, emphasizing its detrimental effects on individuals, families, and society at large. By engaging in meaningful discussions and sharing research findings, participants gained a deeper understanding of the underlying causes and consequences of drug abuse, paving the way for future interventions and initiatives aimed at addressing this pressing societal issue. Moving forward, it is imperative to continue raising awareness, advocating for evidence-based policies, and fostering interdisciplinary collaborations to effectively combat drug abuse and promote holistic well-being within communities.

Number of Participants:

A total of 36 participants attended the seminar on "Drug Abuse and Addiction: Impact on Social Institutions." This diverse group included faculty members, research scholars, and students who actively engaged in discussions and presentations throughout the event. Their participation contributed to the richness of dialogue and the exchange of ideas, ultimately enhancing the overall learning experience and success of the seminar.





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Activity 5

Title of Event	Student Seminar on Caste System in Contemporary
	Indian Society: Continuity and Change"
Department Name	Sociology
Date of event	28 November, 2023
Name of organizers/ contributor	Dept of Sociology
Number of Participants	27

The seminar titled "Caste System in Contemporary Indian Society: Continuity and Change" was organized by the Department of Sociology, on 28.11.23. Featuring presentations and discussions on various aspects of the caste system in modern India. Dr. Harish Mishra initiated the seminar by providing a historical background of the caste system and its evolving nature in present times. Subsequent speakers delved into topics such as the definition of caste, caste-based reservation, changing nature of the caste system, issues arising from reservation policies, and perspectives of Indian thinkers on caste.

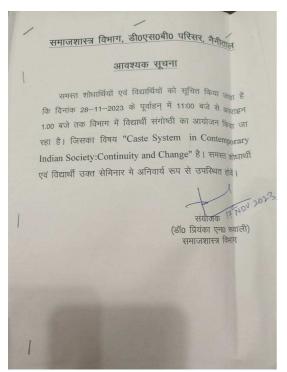
Purpose of the Event:

The seminar aimed to explore the dynamics of the caste system in contemporary Indian society, with a focus on understanding its continuity and change. By bringing together scholars, researchers, and students, the event sought to facilitate an in-depth examination of the various dimensions of caste, including its historical roots, socio-economic implications, and evolving nature in the modern context. Additionally, the seminar aimed to encourage critical reflection on existing policies and practices related to caste-based reservation and social justice, with the goal of fostering a more equitable and inclusive society.

Conclusion:

The seminar on "Caste System in Contemporary Indian Society: Continuity and Change" provided a comprehensive overview of the nature of the caste system and its significance in present-day India. Speakers highlighted the historical background, structural changes and functional adaptations of the caste system, offering valuable insights into its persistence and transformation over time.

The event highlights the importance of addressing caste-based discrimination and inequality through evidence-based research, policy interventions, and grassroots activism. With 27 students in attendance, the seminar received substantial engagement and contributed to a diverse range of perspectives and insights on the topic of the caste system in contemporary Indian society.



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Activity 6

Title of Event	Distinguished lecture on special lecture on "The Folk
	Culture and Society of Kumaun"
Department Name	Sociology
Date of event	7 December, 2023
Name of organizers/ contributor	Dept of Sociology
Number of Participants	41

On December 7, 2023, the Department of Sociology at Kumau University organized a special lecture on "The Folk Culture and Society of Kumaun" delivered by Professor Ila Sah. The lecture delved into various aspects of Kumauni culture, particularly focusing on traditions such as Kumauni Pichora and Aipan, highlighting their significance in preserving local traditions.

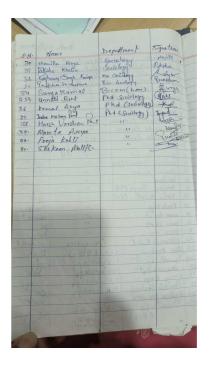
Purpose of the Event:

The purpose of the lecture was to provide insight into the rich cultural heritage of Kumaon and to shed light on the importance of preserving and understanding local traditions. Professor Ila Sah aimed to raise awareness among attendees, including faculty members, researchers, and students, about the cultural significance of Kumauni traditions and their role in shaping the social fabric of the region.

Conclusion:

Professor IIa Sah's lecture on Kumauni folk culture and society provided a comprehensive understanding of the traditions and customs prevalent in the Kumaon region. By emphasizing the importance of preserving local heritage, the event served as a platform for fostering appreciation and recognition of Kumauni cultural identity. The engagement of faculty members, researchers, and students reflected a collective commitment to the study and preservation of indigenous cultures.





Activity 7

Title of Event	Student Seminar on "Gender Equality is the First
	Condition of Development."
Department Name	Sociology
Date of event	16 March, 2024
Name of organizers/ contributor	Dept of Sociology
Number of Participants	37

The Student Seminar organized by the Department of Sociology on March 16, 2024, centered on the theme "Gender Equality is the First Condition of Development." Dr. Saroj Paliwal commenced the seminar, welcoming esteemed guests and participants, including faculty members and students.

Throughout the seminar, various speakers, including research scholars and students, addressed different aspects of gender equality. Topics ranged from the global efforts to mitigate gender inequality to its economic implications, societal dimensions, and historical barriers faced by women. Real-life case studies, such as Kalpana Chawla's educational journey and Dr. Suniti Kiran Mazumdar's entrepreneurial endeavours, were highlighted to illustrate the transformative impact of gender equality.

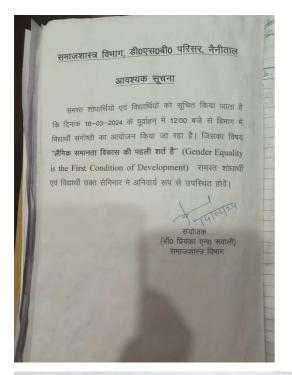
The discussions dealt with the interlink ages between gender equality, sustainable development, economic growth, and societal progress. Speakers emphasized the need for equal opportunities, financial independence, and inclusive policies, including addressing LGBTQ+ representation. Faculty members stressed the crucial role of education in empowerment and societal progress, echoing sentiments from the National Education Policy of 2022.

Purpose of the Event:

The purpose of the seminar was to deal with the various dimensions of gender equality and its pivotal role in societal development. Through insightful discussions and presentations, the event aimed to raise awareness, foster dialogue, and inspire action towards achieving gender equality. By bringing together students, faculty members, the event provided a platform to explore various perspectives, share knowledge, and highlight the interconnectedness of gender equality with broader issues of development and progress.

Conclusion:

The seminar concluded with a call to action, emphasizing the significance of individual and collective efforts in promoting gender equality. It underscored the need for systemic changes, inclusive policies, and a shift in societal attitudes to create a more equitable and just world. The event served as a catalyst for continued engagement, research, and advocacy towards realizing the vision of gender equality as the cornerstone of development.







Conference Report Faculty of Agriculture and Agroforestry Kumaun University, Nainital

9th International Conference On Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development (CAABASSD-2024)

March 01-03, 2024

Jointly organized by Agro Environmental Development Society (AEDS), Rampur and Faculty of Agriculture and Agroforestry, Kumaun University Nainital - 263001Uttarakhand, India. During March1-3, 2024.



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Honrable Chief Guest : **Dr. Laxmi Kant, Director,** ICAR-Vivekanand Parvatiya Krishi Anusandhan Sansthan.

Organising Chairman: Prof. Jeet Ram, Faculty of Agriculture and Agroforestry, Kumaun University, Nainital

Organizing Secretary: Dr. Chattarpal Singh, President, AEDS, Rampur, U.P.

Number of Participants: 100

Introduction about 9th International Conference (CAABASSD-2024):

The Impact of climate change affect farmers' ability to grow the food we all need. Increasingly volatile weather and more extreme events-like floods and droughts-change growing seasons, limit the availability of water, allow weeds, pests and fungi to thrive, and can reduce crop productivity. Sustainable development is a fundamental principle for meeting human development goals while at the same time sustaining the ability of natural systems to provide the natural resources and ecosystem services upon which the economy and society depend. The challenges associated with environmental sustainability make it essential tobring together the disciplines of the agricultural, and biological sciences to address the today's

environmental challenges for sustainable development. This conference will also bring out the significance of the biological science and forests for sustainable development and food security as forests support sustainable agriculture by stabilizing soils and climate, regulating water flow, providing shade and shelter and providing ahabitat for pollinators and natural predators of agricultural pests and when integrated judiciously into agriculturall and scapes, trees can increase agricultural productivity. The broad scope of sustainable development suggests that virtually any social, economic or environmental process or challenge amenable to scientific understanding maypotentially be relevant. Emergence, meanwhile, could signify the novelty or intensification of some of those issues, fresh understanding of their causes or consequences, the development of new management options, or the identification of issues that have gone previously unrecognized. Therefore, the present international conference "Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development(CAABASSD)" provides a forum to discuss such emerging issues and advances in the areas of agriculture, biological & applied science to promote the sustainable development of our society. The international conference will be a best amalgamation of eminent scientists, researchers, scholars, and students who will share the latest research & technology in the relevant fields to promote the sustainable development.

Themes and Subthemes of the Conference:

1. Recent Advances in Agriculture and Allied Sciences Agriculture Resource Management: Frontier aspects in agricultural waste management for environmental sustainability Livelihood security in agriculture and allied sectors Sustainable development through sericulture Opportunities of entrepreneurship in horticulture and allied fields Advances in animal husbandry and allied fields Livelihood security with dairy farming Emerging employment in fisheries sector for sustainable development Current approaches in animal husbandry for increasing livelihood security Climate smart agriculture systems: Transforming food systems under a changing climate' Sustainable rural livelihood systems and doubling farmers income through the innovative strategies Horticulture as growth engine of farming sector and recent advances in horticulture and allied sciences Crop production technology and precision agriculture Soil health management and conservation of natural resources Integrated management of nutrient

with special emphasis to micronutrient Eco-friendly management of conventional and newly emerging plant disease and insect pests Applied aspects of soil and agricultural microbiology Recent advances in dairy, food Science and technology Business and marketing in the agricultural sector for increasing livelihood Agriculture engineering, soil conservation, and food processing Recent advances in fisheries and allied sciences Emerging and applied aspect of plant and animal sciences in developmental biology Application of biotechnology, bioinformatics, enzymology, gene mapping, genetic engineering, molecular and cellular biology, for the development of science and technology Importance of medicinal and aromatic plants in the pharmaceutical sector Bioresources and technologies used for biofuel production Applied aspects microbiology in food, medical, industrial, agricultural and environmental Microbial ecology and diversity in different habitats development Cultivation of useful microbes for agro-environmental sustainability

- Natural Resource Management and Sustainable Hill farming for Livelihood Security: Sustainable hill farming for livelihood security Management of land, water and human resources for sustainable agriculture, horticulture and forestry Climate change adaptation and mitigation strategies for hilly areas Diversification and integrated farming system for sustainability and their socio-economic implications Bio industrial waste contaminated soils management and community participation Indigenous traditional knowledge Forest protection and management Finding synergies between forestry, agriculture, water and energy The role of urban forests in fuelling and feeding cities and providing environmental and social services Integrating forests and other land uses Forest landscape management Aquatic bio-diversity conservation and its management Livelihood opportunities and security in fish farming and allied sector Climate change adaptation and mitigation strategies for hilly areas Diversification and integrated farming system for sustainability and their socio-economic implications Bio industrial waste and contaminated soils community participation management Indigenous and traditional knowledge
- 3. Emerging Issues in Environmental Management
- 4. Frontier aspects in biotic and abiotic stress management :Aquatic pollution due to industrial waste, problems and mitigation strategies

Environmental development and biodiversity conservation Earth science, land use change, and management Advances in environmental microbiology and environmental engineering Climate change and its effect on environmental ecology and mitigation strategies Environmental chemistry, toxicology, health hazards and solution Environmental pollution and management Bioremediation of contaminated sites through innovative approaches Nanotechnology in water and wastewater treatment Recent Advances in Biological and Applied Sciences Emerging and applied aspect of plant and animal sciences in developmental biology Application of biotechnology, bioinformatics, enzymology, gene mapping, engineering, molecular and cellular biology, for the development of science and technology Importance of medicinal and aromatic plants in the pharmaceutical sector Bioresources and technologies used for biofuel productionApplied aspects of microbiology in food, medical, industrial, agricultural and environmental development Microbial ecology and diversity in different habitats Cultivation of useful microbes for agroenvironmental sustainability Applied aspects medical and pharmaceutical science in public healthcare Application of multidisciplinary knowledge in field of biomedical sciences Synthesis and biological screening of synthetic compounds and natural products for discovery of new drug Application of intellectual property rights (IPR) in science and technology Frontier aspects in computational biology for metagenomics analysis Advances in materials science, engineering, and technology Applied aspects in pharmacy, chemistry, physics, statistics and nano-science and nano-technology Innovative approaches in computer science, mechanical, and electrical engineering Role of the computer in the development of bioinformatics and biotechnology

5. Climate Resilient Agriculture: Ecosystem based approaches for climate change adaptation, ecosystem services, integrated farming system models and Land degradation neutrality Emerging approaches for biotic and abiotic stress management through big data analytics, precision farming, remote sensing, drone technology, AI, ML, Nanotechnology, modeling Sustainable soil management, conservation agriculture, organic farming, INM, soil microorganisms-plant interactions Resilience through land and water management interventions, water management and governance.



Release of conference souvenir

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9th International Conference

On

Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development (CAABASSD-2024)

March 01-03, 2024

Venue: Seminar Hall, UGC-Malviya Mission Teacher Training Centre Kumaun University, The Hermitage, Mallital, Nainital, Uttarakhand Inauguration Programme

Dates: March 01, 2024

Time: 10:30-11:30 AM

Time: 10:30-11:30 AW				
	Opening Prayer			
Lighting of Lamp by the Guests Honoring the Guests with Shawl and Potted Plant				
Welcome Address & About AEDS	Dr. Chhatrapal Singh President, AEDS, Majhra Ghat, Rampur, U.P. & Organizing Secretary (CAABASSD-2024)			
About the International Conference	Dr. Sanjay Kumar Jha, Associate Professor, Central Dept. of Botany, Tribhuvan University, Kathmandu, Nepal & Head of International Advisory Committee (CAABASSD-2024)			
Patronage Address	Prof. Jeet Ram, Dean, Faculty of Agriculture & Agroforestry, Kumaun University, Nainital, UK, India & Organizing Chairman (CAABASSD-2024)			
Presidential Address	Prof. Diwan Singh Rawat, Hon'ble Vice Chancellor, Kumaun University, Nainital, UK, India & Chief Patron (CAABASSD-2024)			
Vote of thanks	Prof. Ashish Tewari Kumaun University, Nainital-263001, Uttarakhand, India			



कुमाऊं विश्वविद्यालय, नैनीताल के हरमिटेज़ में आयोजित किए जा रहे तीन दिवसीय अंतरराष्ट्रीय सम्मेलन सतत विकास के लिए कृषि, जैविक और एप्लाइड विज्ञान में वर्तमान दृष्टिकोण का सफलतापूर्वक समापन किया गया।





https://maatikikhabren.com/the-three-day-international-conference-being-held-in-hermitage-at-kumaon-university-nainital-successfully-concluded-the-current-approach-in-agriculture-biological-and-applied-science-for-sustainable/

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नैनीताल। कुमाऊं विश्वविद्यालय, नैनीताल के हरिमेटेज़ में आयोजित किए जा रहे तीन दिवसीय अंतरराष्ट्रीय सम्मेलन सतत विकास के लिए कृषि, जैविक और एप्लाइड विज्ञान में वर्तमान दृष्टिकोण का सफलतापूर्वक समापन किया गया। आज तृतीय दिवस की शुरुआत अंतिम सत्र से हुई जिसमें कृषि एवम् पर्यावरण विकास हेतु प्रद्योगिकी के महत्त्वपूर्ण भूमिका पर चर्चा की गईं। सत्र के मुख्य वक्ता डा॰ संजय कुमार झा, सचिव, ए. ई. डी. एस. ने फसलों पर बढ़ते आपत्तिजनक खरपतवार के प्रकोप और मशरुम उत्पादन जैसे लाभदायक आयामों पर प्रकाश डाला, साथ ही समारोह मै मोजूद अन्य प्रतिभागियों ने अपनी मौखिक प्रस्तुतियां दीं। कार्यक्रम के समापन समारोह मै सभी चयनित प्रतिभागियों को प्रो॰ जीत राम, डॉ॰ छत्रपाल, मुख्य अतिथि डा चंद्रगिरी चरेलु, डा संजय कुमार झा एवं विशिष्ट अतिथि के रूप में हंगरी से आए प्राध्यापक एवं वैज्ञानिक डा॰ लास्लो राडोक्स, डा॰ गांबोर तारकोली एवम् डा॰ सुषना द्वारा मेडल एवं प्रमाण पत्र वितरित किए गए। कार्यक्रम मै करीब 125 प्रतिभागियों ने अपनी मौखिक प्रस्तुति दी वहीं 45 प्रतिभागियों ने पोस्टर प्रस्तुति कर प्रतिभाग किया। अपने उत्कृष्ट शोध प्रदर्शन के लिए डा नंदन सिंह, डा जावेद इक़बाल, डा कीर्ति नगरकोटी, डा मैत्री को सर्वश्रेष्ठ मौखिक प्रदर्शन एवम् कीर्ति तनेजा, कुमारी लेपचा, कुमारी तोशिबा, श्रीमान रेहान को द्वितीय एवम् डा वेद प्रिया, डा संजय, कुमारी खिहाम को तृतीय मौखिक प्रदर्शन पुरस्कार से सम्मानित किया गया। सर्वश्रेष्ठ पोस्टर प्रदर्शन के लिए कुमारी शिल्पा, कुमारी स्वाति जोशी को पुरस्कृत किया गया। साथ ही श्री अनुज कुमार सिंह, कुमारी सृजना बिश्वास, कुमारी मोनिका, कुमारी चंद्रप्रभा को भी पोस्टर परदर्शन के लिए पुरस्कार मिला।

कार्यक्रम में देश-विदेश से शामिल हुए करीब 18 शोधार्थी, वैज्ञानिक एवं प्राध्यापको को सर्वश्रेष्ठ प्रदर्शन के लिए सम्मानित किया गया। समापन के अन्तिम क्षणों में विशिष्ठ अतिथि डा॰ लासालो रेडोक्ज ने सभागार को संबोधित करते हुए समस्त विश्वविद्यालय परिवार एवं आयोजन कर्ता को सराहा साथ ही हंगरी में आयोजित किए जाने वाले आगामी सम्मेलनों के लिए भी स्वागत किया। काठमांडू से आए डा॰ संजय कुमार झा ने भी तीन दिवसीय कार्यक्रम कि सफलता एवं उसमें हुई महत्वपूर्ण चर्चाओं से निकले निष्कर्षों के लिए बधाई दी। सम्मेलन के सूत्रधार एवं संचालक डा॰ लित तिवारी ने कार्यक्रम के सफल आयोजन के लिए सभी गणमान्य अतिथियों, देशभर से आए प्रतिभागियों, एग्रो एनवायरनमेंट डेवलपमेंट सोसाइटी रामपुर के अध्यक्ष डॉक्टर छत्रपाल एवम् कार्यकर्ता, समस्त कुमाऊं विश्विद्यालय परिवार के प्राध्यापक एवम् स्टाफ, मीडिया अन्य सभी का धन्यवाद ज्ञापन किया। कार्यक्रम में डॉक्टर बोरलॉग ,डॉक्टर एम एस स्वामीनाथन को भी याद किया गया। राष्ट्रगान के साथ कांफ्रेंस संपन्न हुई।अंतराष्ट्रीय कांफ्रेंस में डॉक्टर वंदना नेगी ,डॉक्टर भट्ट ,डॉक्टर ईरा तिवारी ,डॉक्टर नवीन पांडे, दीपा राणा ,निर्मला , कविता , इंद्र रौतेला ,डॉक्टर दिव्या सिंह , शहबाज, आरिफ सिहत प्रतिभागी शामिल रहे।

Internal Quality Assurance Cell (IQAC), Kumaun University, Nainital

Future Initiative of IQAC Proposal for establishing the GEOHERITAGE SITES for GEOTOURISM

The proposed geoheritage sites are situated in the Kumaun Lesser Himalaya, which forms an integral part of the larger Himalayan orogeny. The Himalaya, an awe-inspiring mountain range, are primarily composed of crustal components that were once part of the northern Indian lithosphere. These components, which have existed for several hundred million years, have played a significant role in the geodynamic evolution of the Himalaya and have helped shape the landscape during the mountain-building process. Moreover, these components have been instrumental in creating a habitable environment in the Himalaya, making them essential to the ecology and biodiversity of the region.

(To be submitted to UCOST/Tourism Department of Government of Uttarakhand)

Geoheritage Sites of Kumaun Lesser Himalaya

Geoheritage Site 1: Main Boundary Thrust (MBT) Zone in the outer Kumaun Lesser Himalaya showing tectonic contact between the granite (1850 Ma old) and metavolcanics (Bhowali volcanics) containing the enclave of Siwalik sandstone.

Location: Amritpur village, Nainital

Significance of site: The Main Boundary Thrust (MBT) is a crucial geotectonic feature in the Lesser Himalaya region. It is a dividing line between the Siwalik and Lesser Himalayan rocks. The MBT zone is particularly well-exposed in the Amritpur village of Ranibagh, situated in the Nainital District. The Amritpur granite has mineralogical and geochemical features corresponding to peraluminous (S-type) granite formed around 1850 Ma ago by melting the pelitic source rocks. This granite is in contact with the metavolcanics (green-schist and amphibolite), containing a tectonic tongue of red, ferruginous, Siwalik sandstone (Fig. 1). These features are located within the MBT zone and are spectacularly exposed in the Gaula River section of the Amritpur. The MBT extends regionally from the NW to the NE Himalayan Belt.

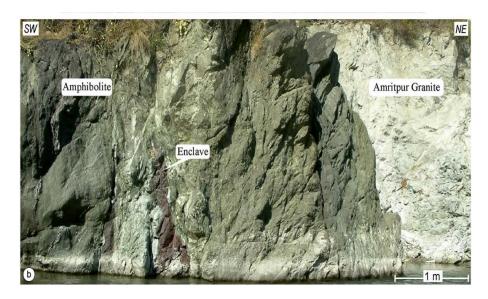


Figure 1 The granite in contact with metavolcanics containing the tectonic tongue of Siwalik (red coloured ferruginous sandstone), which lie in the MBT zone.

Geoheritage Site 2:

Location: Quartzite alternating with volcanics in Bhowali (N 29^o 24' 41", E79^o 31' 1")

Significance of site: Quartzite is a type of rock that forms from sandstone during the process of metamorphism. In the Bhimtal and Bhowali areas, the Bhowali Formation comprises alternating bands of quartzite and metavolcanics, which are deformed lava rocks. The quartzite and metavolcanics can be observed in various locations. Quartzite is composed of detrital zircons, a mineral highly resistant to erosion and can survive during rock or tectonic cycles. The zircons in the quartzite have a crystallization age of ca 1850 Ma and morphological characteristics similar to those found in the Amritpur granite. This indicates that the maximum depositional timing of the quartzite should be approximately 1850 million years old. Therefore, the metavolcanics deposited synchronously with the quartzite must have erupted no earlier than 1850 million years ago. Overall, the study of the quartzite and metavolcanics in the Bhowali Formation provides valuable insight into the geological history of the region.



Figure 2: The outcrop of quartzite exposed in the Bhowali region of outer Kumaun Lesser Himalaya.

Geoheritage Site 3:

Location: Quartzite over the granite gneiss Chiplakot (N 29⁰ 53' 46", E80⁰ 34' 64")

Significance of site: In the vicinity, a towering outcrop of quartzite (Fig. 3) extends to a height of about 50 meters. It is a type of metamorphosed sandstone rich in micaceous minerals, particularly

muscovite, and contains carbonaceous pods. The quartzite is exposed in association with metamorphosed granite, called granite gneiss. The granite gneisses form the basement upon which the quartzite is located or deposited around it. The zircons found in the granite gneisses reveal the youngest age to be around 1700 million years. Morphologically, these zircons share characteristics and crystallization age similar to those in the granite gneisses. This implies that the maximum depositional age of the quartzite should be 1700 million years old.



Figure 3: The outcrop of quartzite exposed in the Chiplakot region of inner Kumaun Lesser Himalaya.

Geoheritage Site 4: Granite and enclaves (interaction of crust- and mantle-related magmas)

Location: In and around Devidhura region in the Champawat

Significance of site: The Champawat district of Kumaun Lesser Himalaya is a region where granites, which are light-coloured and rich in silica, are extensively found. These granites are unique because they contain dark-coloured rock patches representing silica-poor mafic magmatic rocks, known as enclaves. The enclave is enclosed in granite (Fig. 4), which indicates that there was mixing and mingling of mafic and granite magma in deep-seated environments. The mafic and granite magmas, about 500 million years old, originated in different places. They were placed in a chamber where they coexisted and interacted due to their contrasting temperatures and compositions. This mixing and mingling of magmas is a fascinating geological process that helps us understand how different types of rocks can interact with each other in the Earth's crust.



Figure 4: The granite encloses the enclave in and around Devidhura region of Champawat district.

Geoheritage Site 5: Isoclinal fold developed in the quartzite of Almora Crystalline

Location: Khatyari Village (N 29⁰ 35' 28" E79⁰ 38' 39")

Significance of site: The village of Khatyari in the Almora district is a great place to witness the fascinating geological phenomenon of folded rocks. The rocks in question are metamorphics belonging to the Almora Crystalline formation, and they display various features such as folds, lineations, and schistosity planes. These structures were primarily formed during the mountain-building processes that shaped the region over millions of years. The isoclinal folds (Fig. 5) observed in the Almora Crystalline rocks are of significant scientific interest. They provide a clear demonstration of how pre-existing rocks are folded under the compression regime that characterized the Himalayan orogenesis. These close-to-tight folds were formed due to the buildup of stress during the orogeny, offering valuable insights into the geological processes that shaped our planet. The shown fold, where the limbs dip opposite each other, is an excellent example of first-generation folds that developed in the quartzites of the Almora Crystalline rocks. These folds are a testament to the immense forces that shaped the region and offer a glimpse into the geological history of the area.



Figure 5: The close-to-tight folding developed in the quartzite during the Himalayan building processes, exposed in the Khatyari Village of Almora District.

The Model Signage and Board for Geoheritage Sites (similar to this we have to prepare)









The above pictures are from Geoheritage sites of Italy where I visited during last September 2023.

(Santosh Kumar)

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