

Annual Quality Assurance Report (AQAR) 2023-24

Criterion VI

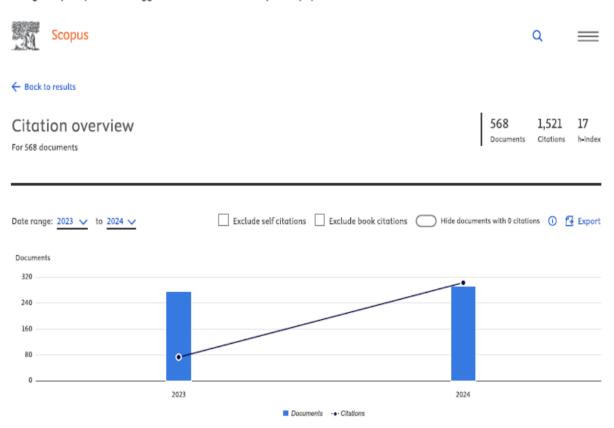
Governance, Leadership and Management

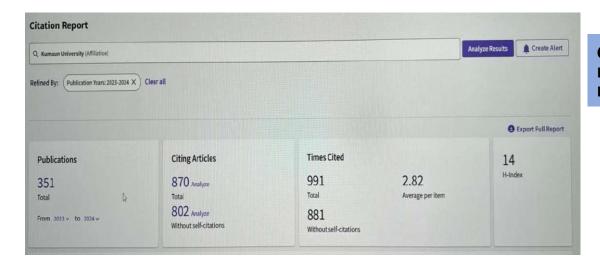
6.2.1
Research
Progress Report



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6.2.1
Research
Progress Report

2.7 Fostering Academic Excellence: Research Funding and Student Support Initiatives at Kumaun University

Kumaun University consistently demonstrates its unwavering commitment to academic excellence and holistic development through substantial investments in research funding and student support initiatives. Under the leadership of Vice-Chancellor Prof. Diwan S. Rawat, the university has disbursed Rs. I.25 crore in internal research funding, directly benefiting 65 faculty members across diverse disciplines. This financial support not only advances innovative research but also fosters a culture of intellectual inquiry, collaboration, and growth within the institution, aligning with Prof. Rawat's vision for academic empowerment.

In addition to enhancing faculty research capabilities, Kumaun University places a strong emphasis on supporting student academic development. A total of 35 students received Rs. 88,000 in funding, enabling them to participate in conferences, present their research, engage with global peers, and gain invaluable exposure to the academic community. This initiative reflects the university's ongoing efforts to provide students with opportunities to expand their knowledge, gain professional experience, and build networks within their respective fields

All such initiatives reflect Kumaun University's commitment to nurturing talent, fostering academic engagement, and preparing its students and faculty to meet future challenges.

1.5 Vice Chancellor and Senior Professors appointed as Members of Subject Expert Committee

In a significant development, the Ministry of Science and Technology, Government of India, has appointed Prof. Diwan S. Rawat, Vice Chancellor of Kumaun University, and Dr. Santosh Kumar, Senior Professor, as members of the Subject Expert Committee under the FIST (Fund for Improving Science and Technology Infrastructure in Universities and Other Higher Education Institutions) programme.

The FIST programme, launched in 2000-2001, addresses the critical need for enhancing infrastructure in postgraduate teaching and research in higher education institutions. While some institutions have made strides in this area, many still require robust support to strengthen their teaching and research capabilities in basic equipment, networking and computer facilities, infrastructure management, and advanced research facilities.

As committee members, Prof. Rawat and Dr. Kumar will play key roles in evaluating proposals and guiding the allocation of funds, which are offered competitively under an

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त्रितास कुमारे विशे के इतिस्तरम पार्ट्स व्यार कुरुवार्गी स्मित्र हो त्रितास कुमारे व्यार कुरुवार्गी स्मित्र हो त्रितास हो कि स्वार में मित्र हो त्रितास हो कि स्वार के स्

न्युवा विकास है।
आता सरकार के विश्वास प्रांतिविक्त से संताराय के विश्वास प्रांतिविक्त से संताराय के विश्वास प्रांतिविक्त से संताराय के विश्वास को अपने प्रतार के स्ताराय के अपने के स्ताराय के अपने के स्ताराय के स्तार के स्ताराय के स्ताराय के स्ताराय के स्ताराय के स्ताराय के स्तार के स्ताराय के स्ताराय के स्ताराय के स्ताराय के स्ताराय के स्तार के स्ताराय के स्तार के स्तार के स्तार के स्तार के स्तार के स्त

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का नवा दला काइआइटा वाब, के जाने धामर आइआइएर्स्स विस्थेत-लपुरम, वी आरबी आइआइटी विस्थे, वी सिद्धार्थ आईआइटी टिस्स्स की स्वाच काइआइटी टिस्स्स की स्वाच प्रोकेसर राजीय गुरुता दिस्सी

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Kumaun University, Nainital

annual invitation-based system. Support is provided for a 5-year period, with funding limits set at three operational levels. The appointment underscores Kumaun University's growing influence in national academic and research policymaking. Prof. Rawat and Dr. Kumar's inclusion in this prestigious committee highlights their expertise and commitment to advancing science and technology infrastructure in India.

Prof. N.G. Sahoo has also been selected as a member of the Department of Science and Technology (DST) to evaluate proposal under the Women in Science and Engineering (WISE)-Societal Challenges with Opportunities (SCOPE) Fellowship Programme of the WISE-KIRAN Division. He has been recognized as an esteemed member of the Subject Expert Committee for the Energy, Waste, and Water Management (EWWM) theme area. This programme provides various opportunities for women scientists and technologists who are currently unemployed or have taken a career break, enabling them to return to mainstream research.

I.6 Kumaun University gets Rs 100 crore grant from Ministry of Education, Government of India

In a major boost to higher education, the Ministry of Education has launched the Pradhan Mantri Uchchatar Shiksha Abhiyan (PM-USHA) to strengthen the educational ecosystem of the nation. This year, 26 universities across India have been awarded financial assistance totaling ₹100 crore each to enhance their educational infrastructure, research capabilities, and innovation. Kumaun University, Uttarakhand, has been selected under the Multiple Disciplinary Education and Research Universities (MERU) category to receive this prestigious grant. The funds will be utilized to upgrade existing infrastructure, new centers like Center for Sustainable Urban Development, Center for Professional Development and Entrepreneurship, Center for Non-Conventional Energy Study, Center for Disaster Management, Center for Advanced Computing, Center for Excellence in Medicinal Plants and Wellness Lifestyle, Central Instrumentation Center will be established.



प्रो. साहू डीएसटी की

पीएम-ऊषा से कुमाऊं विवि के



4. MoU for Research and Educational activities

4.1 Kumaun University signed a contract with Rockhill Agrotech Private Limited to promote research.

Kumaun University has signed an MoU with agriculture-based company Rockhill Agrotech Private Limited to advance research on medicinal and aromatic plants. The collaboration will facilitate the provision of chemical and biological samples to the Center for Excellence in Himalayan Medicinal Plants and Nano Technology, along with related departments.

The agreement was signed by Kumaun University Registrar and Rockhill Agrotech CEO Ajay Pal Singh Panwar in the presence of Vice Chancellor Prof. Diwan Singh Rawat and former scientist Dr. Ajay Kumar Singh Rawat. The Regional Development Institute in Kirti Nagar, Tehri Garhwal, has initiated commercial cultivation of these plants, which could revolutionize mountain agriculture through focused development and value addition. Vice Chancellor Prof. Rawat highlighted that this partnership will enhance research in university while contributing to the life and livelihood of Uttarakhand's people.

कुमाऊं विवि ने शोध

नैनीताल। कुविवि ने शोध को कराएगा। अनुबंध पर हस्ताक्षर प्राइवेट लिमिटेड के साथ अनुबंध सेंटर फॉर एक्सीलेंस इन विभागों को सैंपल उपलब्ध राणा के नेतृत्व में होगा।

बढावा देने को रॉकहिल एग्रोटेक कमाऊं विश्वविद्यालय के कलसचिव दिनेश चंद्र एवं किया है। यह संस्थान औषधीय रॉकहिल एग्रोटेक देहरादन के एवं सगंध पादपों के रासायनिक मख्य कार्यकारी अधिकारी अजय अव्ययों, जैविक गतिविधि के लिए पाल सिंह पंवार ने किए हैं। अनुसंधान कार्य कुमाऊं हिमालयन मेडिसिनल प्लांटस एंड विश्वविद्यालय के संकायाध्यक्ष नैनो टेक्नोलॉजी तथा संबंधित वायोमेडिकल संकाय डॉ. महेंद्र

4.2 Kumaun University signed MoU with Korea Institute of Science and Technology (KIST)South Korea

An agreement has been signed between Professor Rajendra Singh Nano Science and Nano Technology Center, Department of Chemistry, Kumaun University and Korea Institute of Science and Technology (KIST)South Korea. Professor Nand Gopal Sahoo of the Department of Chemistry said that the objective of this agreement is to find innovative solutions in nano science and nano technology with focus on recyclable materials and platforms.

Its main objectives are to facilitate the exchange of scholars, researchers and students between Kumaun University and KIST, to promote inter-cultural learning environment and encourage sharing of expertise. Under the contract, an agreement has been made on recyclable air mobility materials and platform. Registrar and Director, RDC and In-charge, Nano Science and Nano Technology Center of Kumaun University Prof. NG Sahoo and Dr. Yong Chae Jung, Director General of Convergence Research Center for Recyclable Air Mobility, Materials and Platform of KIST were present in the bilateral agreement signing.

नैनो साइंस में अत्याधनिक अनुसंधान पर दक्षिण कोरिया और कुमाऊं विवि साथ करेंगे काम



नैनीताल। कमाऊं विश्वविद्यालय के प्रोफेसर राजेंद्र विज्ञान विभाग और कोरिया इंस्टीटयूट ऑफ साइंस एंड साथ काम करने के लिए प्रोत्साहित करता है। टेक्नोलॉजी (केआइंएसटी) के बीच करार हुआ है। बता दें अनुश्रंध के तहत रिसाइक्लेबल एयर

प्रयोगशालाओं के पारस्परिक उपयोग की भी वकालत (रिसाइक्लेबल एयर मोबिलिटी, मटीरियल और करता है जिससे दोनों संस्थानों के शोधकर्ताओं की केआईएसटी के प्लेटफॉर्म की ओर से महानिदेशक डॉ. अत्याधृनिक उपकरणों और संसाधनों तक पहुंच प्राप्त योंग चाए जंग शामिल रहे। संस्थानों के विद्वानों और शोधकर्ताओं को नैनो विज्ञान की हमारी प्रतिबद्धता में मील का पत्थर है।

कुमाऊं विवि का नैनो साइंस और नैनो प्रौद्योगिकी के क्षेत्र में कोरिया से करार

सिंह नैनो साइंस एंड नैनो टेक्नोलॉजी सेंटर रसायन और नैनो प्रौद्योगिकी में अत्याधनिक अनसंधान पर एक

रसायन विज्ञान विभाग के प्रो. नंद गोपाल साह ने बताया भोबिलिटी मटीरियल एंड प्लेटफॉर्म को लेकर समझौत कि इस समजीते का उद्देश्य पनर्चकण योग्य सामग्रियों किया गया है। द्विपक्षीय समजीता हस्ताक्षर में कमाऊं और प्लेटपबर्म पर ध्यान देने के साथ ही नैनो साइंस विवि के रजिस्ट्रार एवं निदेशक, आरडीसी एवं प्रभारी, और नैनो टेक्नोलॉजी में नवीन समाधान तलाशना है। नैनो साइंस एंड नैनो टेक्नोलॉजी सेंटर के प्रभारी प्रो. कहा कि यह समझौता अनुसंधान सुविधाओं और एनजी साहू और कन्वजैंस रिसर्च सेंटर फार

हो सके। कहा कि यह समझौता सहयोगात्मक प्रो. साहू ने कहा कि केआईएसटी के साथ यह अनुसंधान परियोजनाओं को प्रोत्साहित करता है। दोनों साझेदारी वैश्विक शैक्षणिक उत्कृष्टता को बढ़ावा देने

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4.3 Kumaun University signed MoU with New York (USA) based company Charge CCCV (C4V)

Charge CCCV (C4V), a New York (USA) based company specializing in high-energy-power and long-life lithium-ion batteries, signed MoU with Kumaun University on research, educational and developmental programs. During the MoU signing ceremony on January 19, 2024, Dr. Shailesh Upreti, CEO and Founder of C4V and Registrar of Kumaun University signed this MoU to establish strong collaboration between the two institutions.



नैनीताल। उच्च-ऊर्जा-शक्ति और लंबी ायु की लिथियम-आयन बैटरियों के क्षेत्र विशेषज्ञता रखने वाली न्य यार्क सीफोरबी) ने कमाठां विवि के साध ग्रेप, शैक्षणिक और विकासात्मक हार्यकारी अधिकारी एवं संस्थापक डॉ. स्थापित करने में मदद करेगी।



सीसीसीबी (सीफोरबी) की ओर से फेलोरिंग दी जाएगी। प्रो. ठवत ने कहा कि न्यूवॉर्क की स्टेट चुनिवर्सिटी से पीएचडी संस्था छात्रों को ओद्योगिक इंटनेरिंग की करने के इच्छुक कुविवि के छात्र को चार पेशकश भी करेगी, जिससे उन्हें औद्योगिक साल के लिए आठ खाख रुपये प्रतिवर्ध की उत्पादों पर कार्य का सअवसर मिले।

शैलेश उग्रेती और कुमाऊं विवि के कुमाऊं विवि के कुलपति प्रो. डीएस रूप से कमजोर व मेथावी छात्रों को तीन प्रगति को बहुत्या देता है।

स्वार के तिए आठ एका रूप स्वार्थ के उपयो पर का पुरावस लाए। मेरालीशिय प्रदान की जाएगे। सीपोर्डस के मुख्य कार्यकारी अधिकारी सीपोर्डस आपले जीन वर्षों के लिए डॉ. शैलेश उंग्रेती न कार कि विज्ञन के क्षेत्र रसायन विज्ञान या भौतिकी विभाग के दो में नवाचार और विकास के मानले में यह कार्यक्रम पर एमओयू पर हस्ताक्षर किए। कुलस्त्रीचन दिनेश चंद्रा ने कहा कि यह भीएचडी छात्रों को आठ हजार रुपये प्रति समझौत अहम है। हमारा लक्ष्य औद्योगिक कार्यक्रम के दौरान सीफोरबी के मुख्य पहल दो संस्थानों के बीच मजबूत सहबोग माह की पीएचडी फेलोशिय प्राविजित को अकादिमक हान से जोड़ते हुए एक करेती। श्रीफोरबी की ओर से तीन आर्थिक - सहयोगी सालवरण बनाना है. जो सैनानिय

Under this MoU, C4V will provide a fellowship of Rs 8 lakh per year for four years to a student of Kumaun University who is interested in pursuing PhD from State University of New York. C4V will sponsor PhD fellowship of Rs 8000 per month to two PhD students of Chemistry or Physics department for the next three years. Along with this, C4V will provide fellowship of Rs 5000 per year for three years to three economically weak but meritorious students.

4.4 Kumaun University signed MoU with Crystal Crop Protection Limited

Crystal Crop Protection Limited has taken the responsibility of bearing the tuition fees of ten meritorious girl students of Kumaun University with the aim of providing them quality education and opportunities. Along with this, Crystal Crop Protection Limited will also offer internship to the students of Kumaun University and the students who perform well in the internship will be offered jobs by the company. The CEO and founder of Crystal Crop Protection Limited, visionary industrialist Shri Nand Kishore Agarwal handed over a letter on behalf of the company to the Vice Chancellor of Kumaun University, Prof. Diwan S. Rawat.

4.5 Kumaun University signed MoU with Central Himalayan **Environment Association (CHEA)**

Kumaun University signed MoU with Central Himalayan Environment Association, Uttarakhand for mutual partnership in research, development work and academic cooperation in Himalayan regions. This agreement was signed by Registrar and Central Himalayan Environment Association General Secretary.

On this occasion, Vice Chancellor of Kumaun University Prof. Diwan S Rawat said that there is a lot of potential for development in Himalayan states. But agreements for research and development work between most of the institutions remain limited to papers only, there is a need to work honestly and bring research and development plans on ground. He said that both the institutions will work on ground by taking researchers under research cooperation. Research work will also be jointly published. Some villages will be adopted by both the institutions. Work will be done in the adopted villages so that the local people and farmers can benefit from it.



4.6 Memorandum of Understanding (MoU) between ICAR-Vivekanand Parvatiya Krishi AnusandhanSansthan, Almora and Kumaun University, Nainital

Kumaun University, Nainital, and ICAR-Vivekanand Parvatiya Krishi Anusandhan Sansthan (ICAR-VPKAS), Almora, have signed a Memorandum of Understanding (MoU) to strengthen mutual cooperation in research, training, and academic activities. The agreement was signed by Kumaun University's Registrar, and ICAR-VPKAS Director, Dr. Laxmi Kant, in the presence of Vice Chancellor Prof. Diwan S. Rawat.

This MoU aims towards collaboration between ICAR-VPKAS scientists and Kumaun University's agricultural faculty for joint research, resource sharing, and capacity building. Both institutions will conduct collaborative academic

आईसीएआर-वीपाके एएस व कुविवि के मध्य एमओयू एक सीर्याकारिक साझेरारी की एएस का कुविवि के मध्य एमओयू एक सीर्याकारिक साझेरारी की एएस आहे हैं कि एस सीर्याक सीर्याक की एस सीर्याक सीर्याक की एस सीर्याक की एस सीर्याक सीर्याक की एस सीर्याक की प्रतिक्र की एस सीर्याक की प्रतिक्र की

programs, training sessions, and seminars, while also facilitating faculty and scientist exchanges. Research outcomes, including joint publications, will credit contributors from both organizations.

4.7 Kumaun University Partners with University of Georgia

Kumaun University has signed a Memorandum of Understanding with the University of Georgia, USA, to jointly study the behavior of the Indian summer monsoon. The agreement was signed by Dr. Rajeev Upadhyaya, Professor of Geology, Kumaun University, and Dr. David F. Porinju, Professor of Geography, University of Georgia, under a research project funded by the National Science Foundation, USA. In September, faculty members and research scholars from the University of Georgia will visit India to collaborate with Kumaun University in analyzing the changing behaviour of the Indian summer monsoon, particularly in the context of climate change. Publications resulting from this research will credit both universities, with contributions acknowledged appropriately.

Prof. Rajeev Upadhyay explained the significance of the Indian summer monsoon, which typically occurs from June to September, bringing crucial

rainfall to India and Southeast Asia. Highlighting its unpredictable nature due to climate change, he emphasized the importance of such studies in understanding monsoon dynamics and mitigating potential impacts on the region's environment and agriculture.

Prof. Rawat emphasized the need for effective measures on both domestic and international fronts to stabilize India's climate patterns, acknowledging the interconnected nature of the global environment. Expressing confidence in the partnership, he stated, "This joint research work of Kumaun University and the University of Georgia will prove to be a milestone in understanding and addressing these challenges."

4.8 MOU between Kumaun University and IIT Roorkee for mutual partnership and cooperation in research, training and academic activities

MOU has been signed between Kumaun University and Indian Institute of Technology, Roorkee for mutual partnership and cooperation in research, training and academic activities. This MOU was signed in the presence of Vice Chancellor of Kumaun University, Nainital, Prof. Diwan S Rawat and Director of Indian Institute of Technology, Roorkee, Prof. Kamal Kishore Pant.

The primary objectives of the MOU are to strengthen cooperation in the field of academic projects, research, skill development and technology. The MoU includes sharing of laboratory resources and scientific equipment required for programmes of common interest as mutually agreed upon, development of training programmes for faculty and staff of



4.10 Kumaun University partners with the American **Chemical Society**

Kumaun University has tied up with American Chemical Society to provide internship, career guidance, research paper writing, mock interviews as well as other career services to the students. On the initiative of Vice Chancellor Prof. Diwan S. Rawat, experts of American Chemical Society will provide online training to the students of KU from time to time. In this sequence, Senior Career Counselor of American Chemical Society Diksha Gupta interacted with the students of science class through online medium. She discussed with the students the subject of skills required to strengthen the competitive edge in the current global economy. While providing CV review, mock interviews and internship counselling.

नैनीताल । कृषियि द्वारा अपने विद्यार्थियों को इंटर्नेशिय तथा कैरियर सीनियर करियर कार्डसलर दीक्षा गुप्ता जा सके।



मोसाइटी के साथ टाईअप किया है। द्वारा बायोदाटा, शमीक्षा तथा गाँउ कलपति प्रोठ दीवान सिंह रावत की इंटरव्य व लिक्ड्डन प्रोप्बट्टल समीक्ष पहल पर अमेरिकन केम्पिकल मोसाइटी और इंटर्नेशिप परामर्श प्रदान करते हर के विशेषजों द्वारा समय-समय पर चनाया कि जैसे-जैसे छात्र इंटर्नीलप बे कविवि के विद्यार्थियों को ऑनलाइन लिए तैयारी करते हैं वे खद को नौकरी टेनिंग प्रदान की जाएगी। इसी ऋम में बाजार के लिए भी तैयार कर रहे होते सोमवार को अमेरिकन केमिकल हैं। इस अवसर पर कलपति प्रोठ राजन सोसाइटी को सीनियर कैरियर ने बताया कि अमेरिकन केमिकल काउंसलर दीशा गुप्ता द्वारा ऑनलाइन स्रोसाइटी जहाँ कृषिषि के विद्यार्थियों माध्यम में विज्ञान वर्ग के विद्यार्थियों के को अकार्टीमक परामार्ग प्रदान करेगी साथ संवाद किया गया। उनके द्वारा वहीं शोध एवं पराख्यतक के सालें को विद्यार्थियों के साथ वर्तमान वैश्विक उच्च गुणवता वाले प्रकाशनों हेत अर्थव्यवस्था में प्रतिस्पर्धात्मक बहुत परामर्श भी प्रदान करेगी जिसमें को यजपूर करने के लिए आवश्यक विद्यार्थियों को उच्च गणवता वाले कौशल विषय पर चर्चा की गई। शोध के उत्पादन हेत प्रोतलहित किया