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No.

Prajñanam प्रज्ञानं

A Quarterly News Letter

National Institute of Technology, Uttarakhand



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From the Director's Desk

I am presenting you all, yet another edition of quarterly newsletter of NIT Uttarakhand presenting the development that have taken place since last edition.

I joined this prestigious Institute on 09th Feb. 2022 and have setup my priorities. In an Institute of National Importance like NIT Uttarakhand, the main focus has to be on holistic development of the students and to engage them in creativity, innovation, entrepreneurial/start up activities.

Covid 19 has a huge impact on all the sectors of our social life, higher education sector has reasonably accomplished its objectives by imparting teaching, learning and research in online mode. Institute has successfully conducted the academic programmes through online mode during the pandemic times and all the courses were completed as per academic schedule. I greatly acknowledge the efforts of learned faculty members for sincerely discharging their duties and contributing for growth of our nation during tough pandemic times. The patience and hardwork of students during pandemic time is also worth proving.

NIT Uttarakhand is committed for establishment of state-ofthe-art laboratories, practical exposure, industrial exposure and to provide conducive environment for multidisciplinary holistic development to the students.

We are in "Dev Bhumi" Uttarakhand in the lap of mother nature and provide best teaching-learning and research environment to our students.

I wish a good learning to all the students!

Warm Regards, Prof. Lalit Kumar Awasthi Director, NIT Uttarakhand

Conference in Departments

Department of Electronics Engineering, NIT Uttarakhand has successfully organized two days International Conference on Robotics, Control, and Computer Vision (ICRCCV 2022) in association with Eötvös Loránd University, Hungary through online mode from 19th to 20th Feb. 2022. The objective of this conference is to share the recent developments in Robotics, Control and Computer Vision. Intelligent robots involve the expertise from the various domains such as Mechanical Engineering, Computer Science, Electrical Engineering, Electronics Engineering and Mathematics to mention a few.



NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

Activities by Research and Consultancy Section (R&C)

Rec section, NIT Uttarakhand has jointly organized the International Conference on Advances in Mechanical Engineering and Nanotechnology (ICAMEN-2022) on February 18-19, 2022 (virtual/physical mode) with Department of Mechanical Engineering, Manipal University Jaipur at MUJ Campus, Jaipur.

International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREEECH 2021) during 01-04 December, 2021 at CSIR-IIP, Dehradun.

Five-day virtual workshop on "Startup and Entrepreneurship Skills, Attitude and Behaviour Development" during February 16-20, 2022.

Five-day virtual workshop on "Challenges & Opportunities towards Sustainable Energy & Environmental Technology in India" during February 21-25, 2022.

Five days Virtual Workshop on "Design Thinking, Critical Thinking and Innovative Design" from 28 February- 04 March 2022.

Celebrated National Science Day on 28th February 2022 by organising two expert lectures by Prof. T. Pradeep (Padma Shri) Institute Professor, Indian Institute of Technology Madras (Title: Affordable Clean Water using Advanced Materials) and Prof. Chandra Shakher, Honorary Professor Indian Institute of Technology Delhi (Title: Light and Light based Technologies).



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* Ten full timePhD scholars have been admied under TEQIP III whose fellowship is being disburse from TEQIP head.

Comprehensive support (course/registrationfee, TA, DA) has been extended to faculty and sta ffmembers of the insstit e for a ending conference, workshop, short-term course, FDP, management capacity building, contnuing eduucaon programmes, subject up gradadon, qualificaatioup gradadatietc. Tentantely, 50 f50 faculand sta ffmembers have availed the financial support for aaending such type of events.
* So far tentati ely, 8 events including, conference, workshop, STC, STTP have been organized successfullyfrom the TEQIP head.

* Financial support has also been extended for conducting the administrati e/governing board meetingsuch as BoG, Senate.
* Institue is putti best effort to do collaboraboe work with its Mentor institue SLIET Longowal. Both insstitutio have accomplished several meetings/activiti jointly. Moreover, Director NITUK, Prof. Shyam Lal Soni has been nominated as member of BOM-SLIET Longowal.



* Prof. E Chandrasekhar from IIT Bombay and Prof. L Ravikumar from BMS college of Engineering Bangalore are Institute TEQIP mentor and Performance Auditor respectively. During 18-22 July they provided valuable inputs and suggestionsfor successful implementaatio of the TEQIP project in the Institution.



International Women's Day is celebrated on March 8 every year to rejoice women's cultural, political, and socioeconomic achievements. The idea behind celebrating the day is also to highlight the extraordinary roles played by women in every sphere of life and to greet their courage and determination. The theme of Women's Day 2022 was — Gender equality today for a sustainable tomorrow.

ICC, NIT Uttarakhand celebrated women's day on March 8. On the occasion of Women's day, poster making, slogan writing, and poem reciting competitions were organized for students and staff of the institute based on the theme of Women's day 2022. Prof Lalit Kumar Awasthi, Director NIT Uttarakhand, was the Chief Guest of the Event. Dr. Hariharan Muthuswamy (Dean R&C, NIT Uttarakhand) and Dr. Dharmendra Tripathi Dean FW NIT Uttarakhand grace the occasion with their presence. The program was started with the greeting of Dr. Jagrati Sahariya, Chairperson ICC. The chief Guest Director, NIT Uttarakhand, enlightens the audience with valuable words. The celebration ended with the prize distribution followed by the cake cutting ceremony.



अमिता गिरि का एमआइटी यूएसए के लिए चयन



एनआइटी श्रीनगर के निदेशक प्रो . ललित अवस्थी से वार्ता करती अमिता गिरि 🔹 जागरण

की पढाई की थी। इससे पहले वह आइआइटी दिल्ली में पीएमआरएफ योजना के तहत पीएचडी कर रही थी। वह बीटेक डिग्री में भी गोल्ड

शिलान्यास के दो साल बाद भी स्थायी परिसर का निर्माण कागजों में

जागरण संवाददाता, श्रीनगर गढवाल; एनआइटी की पूर्व छात्रा अमिता गिरि का उच्च अध्ययन के लिए मैसाचसेट्स इंस्टीट्यूट आफ टेक्नोलाजी (एमआइटी) युएसए के लिए चयन हुआ है। वह एमआइटी में बायोमेडिकल और सिग्नल प्रोसेसिंग में शोध करेंगी।

युएसए रवाना होने से पहले अमिता ने एनआइटी आकर शिक्षकों से मुलाकात की और डिपार्टमेंट में शोध कर रहे छात्रों का मार्गदर्शन किया। अमिता गिरि ने एनआइटी उत्तराखंड में 2013-17 में इलेक्ट्रानिक्स और संचार इंजीनियरिंग

प्रो. अवस्थी बने एनआईटी उत्तराखंड के निदेशक

श्रीनगर। सवा साल बाद एनआईटी ंउत्तराखंड को स्थायी निदेशक मिल गया है। एनआईटी हमीरपर

निदेशक प्रो. एलके अवस्थी को केंद सरकार ने यहां का निदेशक नियुक्त किया है। नवंबर 2020 में

एनआईटी उत्तराखंड के निदेशक प्रो. श्याम लाल सोनी की मौत हो गई थी। तब से कार्यवाहक निदेशक कार्यभार संभाल रहे थे। अब केंद्र सरकार ने स्थायी निदेशक के तौर पर प्रो. एलके अवस्थी की नियुक्ति की है। प्रो. अवस्थी एनआईटी हमीरपुर में कंप्यूटर साइंस एवं इंजीनियरिंग विभाग के प्रोफेसर हैं। एनआईटी उत्तराखंड के कलसचिव डा. पीएम काला ने इसकी पृष्टि की है। संवाद

एनआइटी स्थायी परिसर का निर्माण छह माह में : अवस्थी



श्रीनगर गढवाल में पत्रकारों से वार्ता करते एनआइटी उत्तराखंड के निदेशक प्रो. ललित कमार अवस्थी • जागरण

Research Publications

खबर 💾

* Singh, V. P. (2019). "Reliability-Based Stability Assessment of Natural Slopes." Indian Geotechnical Journal, 1-10.

* Sahoo, J. P. and Kumar, B. (2019). "Stability of circular tunnels in clay with an overlay of sand." International Journal of Geomechanics, ASCE, 19(3). * Sahoo, J. P. and Kumar, B. (2019). "Support pressure for stability of circula

- tunnels driven in granular soil under water table." Computers and Geotechnics, Elsevier, 109, 58-68.
- * Kumar, A., Paul, M., & Ghosh, I. (2019). "Analysis of Pedestrian Conflict with Right-Turning Vehicles at Signalized Intersectionsin India." Journal of TransportationEngineering, Part A: Systems, 145(6), 04019018.
- * Bhatra, S., & Maheshwari, P. (2019). "Double Beam Model for Reinforced Tensionless Foundatons under Moving Loads." KSCE Journal of Civil Engineering, 23 (4), 1600-1609.
- * Kumar, R., & Tadepalli, S. K. Dissipativitycriteria for digital filters with saturation nonlinearity. Journal Europeen des Systemes Automaatises, 50(4-6),555.

* Prajapati,Y. K. (2019). Influence of fin height on heat transfer and fluid flow characterisics of rectangular microchannel heat sink. International Journal of Heat and Mass Transfer, 137, 1041-1052

- * Chaurasia, P., Kumar, A., Yadav, A., Rai, P. K., Kumar, V., & Prasad, L. (2019) Heat transfer augmentationin automobile radiator using Al 2 O 3-water based nanofluid. SN Applied Sciences, 1(3), 257.
- * Dr. Pawan Kumar Rakesh et al., has published a book in the Springer entitled"Processing of Green Composites. Springer, 2019."
- * Hitesh Sharma et al., has writen two chapters in a book published in Springer entiled "Processing of Green Composites. Springer, 2019."
- * Suryanarayana, G., G. K. Rao, S. Sarangi, and P. Raja (2019). Directional relaying using parameter estim atioapproach. InternanationJournal of Electrical Power & Energy Systems, 107, 597-604.
- * Suryanarayana, G., P. Raja, and M. P. Selvan and Venkata Kirthiga Murali (2019) An Efffecte algorithm for Fault Discriminanatiand Es Es timaof Fault Locationin Transmission Lines. IET GeneraationTransmission & Distribution.

शभकामनाएं दी।

यूवाओं के साथ है और उनके सुखद भविष्य के लिए हर मार्ग को सुगम करती जा रही है।

दो बार सुमाड़ी में हो चुका है शिलान्यास, दो साल में स्थायी परिसर का किया गया था दावा, दो साल बाद भी काम शुरू नही



शिलापट्ट लगने के अलावा कुछ नहीं हुआ काम

मुहर लगा दी गई। ', अस्तृबर 2019 में पूर्व राज्यपाल बेबीरानी मौथे पूर्व मुख्यमंत्री त्रिवेंद्र रावत और पूर्व केंद्रीय शिक्षा मंत्री डॉ. रसेश पीखरियाल निशंक के

मेडल प्राप्त कर चुकी है। संस्थान के

निदेशक प्रो. ललित कुमार अवस्थी

ने उनके उज्ज्वल भविष्य के लिए

उत्तराखंड सुनहरे भविष्य की ओर... सुमाड़ी में एनआईटी के अस्थाई कैंपस का शिलान्यास किया गया है। देहरादून में कोस्ट

Students Activity and Sports Section

The objective of the students activity and sports section is to bring about **behavioural changes and move towards a more physically active lifestyle**. The section encourages people to remain healthy and fit by including physical activities and sports in their daily lives. Along with academic excellence, NIT Uttarakhand promotes extra-curricular activities to ensure all-round development of personality. The section is the central hub for student activities, student organizations, programming, events, sports tournaments, recreation and fun at the institute campus. Institute always motivated the students and staff members to take part in games & sports to keep themselves fit and inculcate a spirit of sportsmanship amongst themselves.

Organized Badminton, Table Tennis and Chess tournament for staffs and faculty members of the Institute from 27th July to 07th August 2021. Tournament was inaugurated by Dean SW on 27th July morning 06 am.

Organized Intra NIT Cricket & Tug of War tournament for M.Tech, Ph.D, Staff and Faculty from 27th November to 12 December 2021. Tournament was inaugurated by Honorable Registrar Sir on 02nd December 2021.

Organized the Intra NIT Volleyball & Athletics tournament for M.Tech, Ph.D, Staff and Faculty from 15th January to 30th January 2022. All the winners were awarded by the medals and certificates.



Students Awards and Honours

B.Tech student of 2013-17 batch Dr. Amita Giri from Department of Electronics Engineering who completed fr Postdoctoral fellowship at MIT USA.



From the Editors

We take immense pleasure at the arrival of the first editio of Insnstie Newsleter Pragyanam. The arrival of the Newwsleer is the pioneering step towards the fulfillment of the Insstite vision. We are privileged for having been entrusted with this responsibility and express our grattude to the hon'ble Director for his encouragement and graciousness. We extend our thanks to the Deans, Associate Deans, HoDs, all the faculty members, section heads, and sta fffor their support and timely help. We hope that the achievements of NIT Utarakhand soar higher with every new editio of the newewsler.

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