



Prajñanam प्रज्ञानम

Sept. 2023

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National Institute of Technology, Uttarakhand
A Quarterly Newsletter: Sept. 2023 Issue

निदेशक के डेस्क से...

एनआईटी, उत्तराखंड की ओर से शुभकामनाएं !



मुझे आशा है कि आपको यह संदेश अच्छे स्वास्थ्य और उत्साह की स्थिति में मिल रहा है। जुलाई से सितंबर 2023 की अवधि के दौरान हमारे संस्थान की यात्रा को चिह्नित करने वाली उल्लेखनीय घटनाओं और महत्वपूर्ण उपलब्धियों को आपके साथ साझा करते हुए मुझे बहुत खुशी हो रही है। यह न्यूज़लेटर संस्करण हमारे संस्थान के प्रयासों का सार बताता है। सबसे पहले, मैं शैक्षणिक सत्र 2023-24 के लिए यूजी, पीजी और पीएचडी छात्रों के नए बैच का हार्दिक स्वागत करता हूं। आपकी उपस्थिति हमारे शैक्षणिक समुदाय को समृद्ध बनाती है, और हम आपके साथ इस शैक्षणिक यात्रा को शुरू करने के लिए उत्साहित हैं।

अकादमिक उत्कृष्टता और अनुसंधान के प्रति हमारी प्रतिबद्धता का उदाहरण नए संकाय सदस्यों की भर्ती से मिलता है। हमें अपनी अकादमिक टीम में 6 सहायक प्रोफेसर, 9 एसोसिएट प्रोफेसर और 2 प्रोफेसर को शामिल करने की घोषणा करते हुए गर्व हो रहा है। यह भर्ती गुणवत्तापूर्ण शिक्षा प्रदान करने और नवीन अनुसंधान को बढ़ावा देने में हमारी क्षमताओं को मजबूत करती है। इस अवधि के दौरान एक उल्लेखनीय उपलब्धि एनआईटी श्रीनगर परिसर में एक नए छात्रावास ब्लॉक का उद्घाटन है। यह सुविधा न केवल अतिरिक्त छात्र आवास की आवश्यकता को संबोधित करती है बल्कि छात्र जीवन स्तर में सुधार के लिए हमारे समर्पण को भी दर्शाती है।

छात्र कल्याण के प्रति हमारी प्रतिबद्धता के अनुरूप, सांस्कृतिक और ललित कला और साहित्यिक क्लब ने 19 अगस्त 2023 को आयोजित इंडक्शन प्रोग्राम के दौरान अपने नए प्रवेशकों के साथ बातचीत की। इस बातचीत ने छात्रों को इन क्लबों द्वारा आयोजित गतिविधियों की श्रृंखला में अंतर्दृष्टि प्राप्त करने की अनुमति दी, जिससे रचनात्मक अभिव्यक्ति और समुदाय की भावना के अवसर। एनआईटी उत्तराखंड के साहित्यिक क्लब ने 30 सितंबर 2023 को एक मनोरम कवि सम्मेलन का आयोजन किया, जिसमें 300 से अधिक छात्रों, संकाय सदस्यों और मेहमानों ने भाग लिया। इस आयोजन ने हमारी संस्था में सांस्कृतिक जीवंतता जोड़ी। इसके अतिरिक्त, समग्र शिक्षा के प्रति हमारी प्रतिबद्धता भगवद गीता की शिक्षाओं पर आधारित एक कार्यशाला के माध्यम से स्पष्ट हुई। थीम, "राइजिंग बियॉन्ड द लिमिट्स" को 3 सितंबर, 2023 को पेश किया गया था, जिसमें माइक्रोसॉफ्ट के एक कुशल इंजीनियर और आईआईटी रुड़की के प्रतिष्ठित पूर्व छात्र श्री रवि गौतम अतिथि वक्ता के रूप में कार्यरत थे। हमारे छात्रों ने भी 15 अगस्त, 2023 को 77वें स्वतंत्रता दिवस के जश्न में सक्रिय रूप से भाग लिया। सांस्कृतिक कार्यक्रमों में देशभक्ति गीत, नृत्य, कविता और विभाजन भयावह स्मृति दिवस की याद में एक नाटक प्रस्तुत किया गया। इसके अलावा, सांस्कृतिक और ललित कला क्लब ने सौहार्द और उत्सव की भावना को बढ़ावा देते हुए 11 सितंबर 2023 को वॉलीबॉल ग्राउंड, पॉलिटेक्निक कैंपस, एनआईटी उत्तराखंड में "दही हांडी प्रतियोगिता और जन्माष्टमी उत्सव" का आयोजन किया। अनुसंधान के क्षेत्र में, भौतिकी विभाग में एसोसिएट प्रोफेसर डॉ. जाग्रति सहरिया ने रुपये का अनुसंधान अनुदान प्राप्त किया। सीएसआईआर, नई दिल्ली से 22 लाख। यह अनुदान उनके शोध प्रोजेक्ट का समर्थन करेगा जिसका शीर्षक है "ऊर्जा रूपांतरण और भंडारण में लागू नवीन सामग्रियों की संरचनात्मक, इलेक्ट्रॉनिक और गति घनत्व जांच।" हमारे संकाय सदस्य प्रतिष्ठित पत्रिकाओं और सम्मेलनों में 50 से अधिक पत्र प्रकाशित करके ज्ञान का प्रसार करने में सक्रिय रहे हैं। ये उपलब्धियाँ शिक्षाविदों, छात्र कल्याण और अनुसंधान में उत्कृष्टता के प्रति हमारी प्रतिबद्धता को दर्शाती हैं। हम निरंतर प्रगति और सहयोग की आशा करते हैं क्योंकि हम विविध अनुसंधान चुनौतियों का समाधान करने और सामाजिक, तकनीकी और आर्थिक उन्नति में योगदान करने का प्रयास करते हैं।

जय हिंद, जय भारत!!

प्रोफेसर ललित कुमार अवस्थी, निदेशक
एनआईटी उत्तराखण्ड

FROM THE DIRECTOR'S DESK

Greetings from NIT, Uttarakhand!



I trust this message finds you in the best of health and spirit. It brings me great pleasure to share with you the remarkable events and significant achievements that have marked our institution's journey during the period from July to September 2023. This newsletter edition encapsulates the essence of our institute's endeavors. To begin, I extend a warm welcome to the new batch of UG, PG, and PhD students for the academic session 2023-24. Your presence enriches our academic community, and we are excited to embark on this educational journey with you.

Our commitment to academic excellence and research is exemplified by the recruitment of new faculty members. We are proud to announce the addition of 6 Assistant Professors, 9 Associate Professors, and 2 Professors to our academic team. This recruitment strengthens our capabilities in delivering quality education and fostering innovative research. A notable achievement during this period is the inauguration of a new hostel block at NIT Srinagar Campus. This facility not only addresses the need for additional student accommodation but also reflects our dedication to improving student living standards. In line with our commitment to student welfare, the Cultural & Fine Arts and Literary Club engaged with our new entrants during the Induction Programme held on 19th August 2023. This interaction allowed students to gain insights into the array of activities organized by these clubs, providing opportunities for creative expression and a sense of community. The Literary Club of NIT Uttarakhand organized a captivating Kavi Sammelan on 30th September 2023, drawing participation from over 300 students, faculty members, and guests. This event added cultural vibrancy to our institution. Additionally, our commitment to holistic education was evident through a workshop based on the teachings of the Bhagavad Gita. The theme, "Rising Beyond the Limits," was introduced on September 3, 2023, with Mr. Ravi Gautam, an accomplished engineer at Microsoft and a distinguished alumnus of IIT Roorkee, serving as the guest speaker. Our students also actively participated in the celebration of the 77th Independence Day on August 15, 2023. The cultural programs presented patriotic songs, dances, poetry, and a skit commemorating Partition Horrors Remembrance Day. Further, the Cultural and Fine Arts Club organized a "Dahi Handi Competition and Janmashtami Celebration" at the Volleyball Ground, Polytechnic Campus, NIT Uttarakhand on 11th September 2023, fostering a spirit of camaraderie and festivity. In the realm of research, Dr. Jagrati Sahariya, Associate Professor in the Department of Physics, secured a research grant of Rs. 22 Lakhs from CSIR, New Delhi. This grant will support her research project titled "Structural, Electronic, and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage." Our faculty members have been active in disseminating knowledge, with more than 50 papers published in reputed journals and conferences. These achievements reflect our commitment to excellence in academics, student welfare, and research. We look forward to continued progress and collaboration as we strive to address diverse research challenges and contribute to societal, technological, and economic advancement.

Jai Hind, Jai Bharat!!**Prof. Lalit Kumar Awasthi, Director
NIT Uttarakhand**

EVENTS:



HINDI PAKHWADA : A Hindi Pakhwada i.e. Hindi Week was organised from 14 September 2023 to 28 September 2023 in the university campus by the Rajbhasha Cell of NIT Uttarakhand. The aim of this event was to encourage the students, faculties and staff to develop an enhanced literary understanding of Hindi. The Rajbhasha cell organised various programmes including poem recitation competition, letter writing and essay writing competition. On the last day of the Hindi Pakhwada, a special 'KAVI SAMMELAN' was organised by the literary club where some of the renowned poets of the state and the country graced the occasion with their presence. Overall, the event was a huge success.

**INDEPENDENCE DAY PROGRAM**

To commemorate the 77th Independence Day of India, the Cultural and Fine Arts Club of NIT Uttarakhand organised several cultural programmes in the ITI Campus. This included various dance performances, poetry and patriotic songs with a brilliant display of patriotism and integrity. The highlight of the programme was a skit depicting the horrors of partition. The event concluded with the Director addressing the audience.

**AZADI KA AMRIT MAHOTSAV:**

The Community Development Cell under Research and Consultancy Wing, NIT Uttarakhand organized a one day orientation program under Azadi ka Amrit Mahotsav at Kendriya Vidyalaya, SSB Srinagar on 17th August 2023. Azadi Ka Amrit Mahotsav (AKAM) is an initiative by the Government of India to commemorate 75 years of India's independence and the glorious history of its people, culture and achievements. Azadi Ka Amrit Mahotsav aims to further boost this people's movement through collaborative campaigns and outreach activity across India and the world.

EVENTS:

**JANMASHTAMI CELEBRATION:**

NIT Uttarakhand celebrated the auspicious festival of Janmashtami with full zeal and fervor. The Cultural and Fine Arts Club of NIT Uttarakhand organised a 'Dahi Handi' competition on 11 September, 2023. The event started at 5:00 pm with an inaugural address by the honorable Director, Prof. L.K Awasthi. It was well received by the audience. The day ended with the energetic sounds of 'DJ Night' in the campus.



BHAGWAD GITA WORKSHOP: A workshop based on Bhagavad Gita on the topic "Rising Beyond the Limits" was organized by the Literary Club for first year students. The initial session titled "Rising Beyond the Limits" was held on September 3, 2023, and featured Mr. Ravi Gautam, an accomplished engineer at Microsoft and a distinguished alumnus of IIT Roorkee, as the guest speaker. The session, hosted in the college auditorium, witnessed an impressive turnout of 125 students who eagerly embraced the opportunity to delve into the themes of transcending self-imposed boundaries, nurturing resilient mindsets and setting and achieving ambitious goals in life.

**LITERARY EVENTS AT HNBGU:**

Bhartiya Yuva Morcha Srinagar organized various literary events on 27 August, 2023 at HNB Garhwal University which saw the participation of numerous nearby colleges and institutes.. This included Rangoli, Painting, Speech and Essay Writing competition. The students of Literary Club, NIT Uttarakhand participated and won laurels in the various competitions organised. Aanchal Singhal and Disha Rana from EEE 4th year and Vishesh Raina, ECE 4th year from NIT Uttarakhand secured first position in the Rangoli competition. In the Essay Writing competition, Rajnandani Mehta, CSE 2nd year, NIT Uttarakhand secured second position. Professor Lalit Kumar Awasthi, Director, NIT Uttarakhand congratulated the winners.

EVENTS:

**ORIENTATION PROGRAM**

The orientation program for B.Tech and M.Tech First Year students (2023 batch) was conducted on August 21, 2023, at the institute. Prof. Lalit Kumar Awasthi, Director, NIT Uttarakhand, addressed the newly admitted students. Dr. Lalita Prasad, Dean (Academic Affairs), gave a brief presentation on academic rules and regulations of the institute..

MERE MATI MERA DESH:**INDUCTION PROGRAM:**

The CFAC and Literary Club of NIT Uttarakhand, under the Student Welfare section, interacted with the new entrants and briefed them about the various activities conducted under the respective clubs by organising an Induction Programme on 19.08.23. The Executive and Associate members of the respective clubs introduced themselves. This was followed by an open mic session in which the new entrants showcased their talents like dancing, singing, poetry, extempore etc. The meeting ended on an enthusiastic note, expecting active participation from the new entrants in this academic year.



EVENTS:

EXPERT TALK ON “ENTREPRENEURSHIP AND STARTUPS”

An expert talk on “Entrepreneurship and startups” was organized by IEDC Cell, Research & Consultancy Section, NIT Uttarakhand on 9 August 2023. The aim of the expert talk was to make UG and PG students aware about innovation and start-up activities.

**INFRASTRUCTURE DEVELOPMENT**

The construction and development of infrastructural facilities at Srinagar campus is being carried out at the allotted land in Srinagar. The Hostel blocks A and B along with the dining block are currently operational. The Hostel blocks D and E were inaugurated on 15 August 2023. Hostel block D has a capacity to accommodate 120 students and the block is under possession of the Hostel Section. Hostel block E has been handed over to the Estate Section in which the faculty house, accommodation facilities for Hon'ble Director and warden houses have been created.

SPORTS DAY CELEBRATION

As we know, 29th August is celebrated as Sports Day across the country. The SAS Section organized cricket, skipping and plank competition from 23rd to 29th August 2023. About 12 teams participated in the cricket competition. Students participated enthusiastically in the skipping and plank competitions with full zeal and vigor, displaying excellent level of physical fitness. Winners were awarded prizes on last day.



EVENTS:

AT IABSE Congress New Delhi, 2023



Mr. Shrey Gupta (BT20CIV006), and Mr. Saurav Raturi (BT20CIV010), students of NIT Uttarakhand successfully presented their work titled "Effect of Vertical Irregularities on Buildings in Different Seismic Zones of India" and "1D Consolidation of Soil at Sumari, Uttarakhand considering Variable Compressibility" respectively in the International Association for Bridge and Structural Engineering (IABSE) Congress New Delhi 2023 on "Engineering for Sustainable Development" held from 20th to 22nd September, 2023.



TECHNICAL COMMITTEE AT SRT, TEHRI

A technical committee consisting of faculty members, namely Dr. Shashank Bhatra, Dr. Vikas Pratap Singh, Dr. Smita Kaloni and Dr. Bibhash Kumar of the Department of Civil Engineering, NIT Uttarakhand in liaison with the officers of HNBG University specifically Er. V.N. Bahuguna, (Executive Engineer), Er. M.P. Dobhal (Assistant Engineer) and Er. D.P. Nautiyal (Assistant Engineer) visited SRT Campus Badshahithaul Tehri on 27.07.23. The committee interacted with Prof. A.A. Bourai, Hon'ble Director, SRT Campus and other officials.



WORKSHOP ON AUTOCAD

A three day workshop on using AutoCAD software was organised by 'Samiksha- The Society of Civil Engineering' from 21st to 25th September, 2023. Mr. Pratik Parmar, pursuing M.Tech in Structural Engineering at the institute explained the B. Tech. participants about the various commands used while drafting a floor plan in AutoCAD with the help of the student version of the software. The students were given hands on training in order to provide them an idea about executing project designs..

EVENTS:



Community Event by NSS Unit: The NSS Unit, NIT Uttarakhand visited Government Combined Hospital, Srinagar Garhwal on 24/06/2023 to distribute fruits, juice and other edible items to the patients admitted there. The program aimed to care for the patients and to motivate them for a swift recovery. The NSS unit sought the permission of Dr. S S Chauhan, Principal Medical Superintendent, Government Combined Hospital, Srinagar Garhwal for distribution of edibles among the patients and the hospital authorities was contented to have the NSS unit there. The distribution of edibles consisted of apple, banana and juice for the admitted patients. The Volunteers visited General male and female wards and distributed edibles to them and learned about their health from the nursing staff appointed there. Volunteers also interacted with the patients and motivated them so that they may recover swiftly. The Unit also visited the children ward, dengue ward and ICU ward and comforted them too. The volunteers also visited emergency ward and provided hospitality to those who were present there. The NSS unit presented special thanks to Dr. S S Chauhan for giving them an opportunity to do communal service in the hospital and promised more such visits in the future.

EVENTS:



Mock Drill Event: The NSS volunteers of the Institute successfully organized the mock fire drill on 11/05/2023 in ITI Campus with collaboration with NIT UK fire police station Pauri Garhwal Uttarakhand. The main objective of the fire mock drill is to analyze how well the response team is organized in case of Fire and prepare the staffs members and students of the institute for preventive measures in case a fire breaks out. All the volunteers of NSS unit, faculties and staff of NIT UK along with the security guards attended the basic training program. Three Representatives of Fire and Emergency Services(Uttarakhand Police) graced the venue with their presence and addressed the staff and student regarding various kind of fire which may break out in hostels, home or areas prone to catching fire.

Ranking :

We are delighted to share some remarkable achievements and milestones attained by the National Institute of Technology, Uttarakhand, which reflect our unwavering commitment to excellence and progress.

NIRF Ranking 2023:

We take immense pride in announcing that the National Institute of Technology, Uttarakhand has secured a place in Rank Band 101-150 in the Engineering category, out of more than 1500 participating engineering institutions, as per the National Institute Ranking Framework (NIRF), which was released on June 5th, 2023. Notably, our institute's overall score has demonstrated improvement, rising from 37.76 to 40.18. We extend heartfelt congratulations to each and every faculty member and student for their significant contributions to this remarkable achievement.

India's Best Colleges 2023 Ranking:

Adding to our list of accomplishments, the National Institute of Technology, Uttarakhand has achieved the 33rd position in the Engineering category in the India's Best Colleges 2023 Ranking conducted by the India Today Group-MDRA Survey. This recognition serves as a testament to our ongoing commitment to delivering quality education and fostering an environment of excellence.

These accomplishments are a testament to the relentless efforts and dedication of our faculty members and students. We are immensely proud of our contributions and the progress we have made as an institution. We remain committed to nurturing a culture of excellence, innovation, and growth. Let us continue to work together, building on these achievements, to further elevate the stature of the National Institute of Technology, Uttarakhand.

Congratulations to all on these well-deserved accolades! Together, let's continue to inspire and make a positive impact.

हमें गर्व हो रहा है कि उत्कृष्टता और नियमित प्रगति के संकेत रूप में राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखंड द्वारा हासिल की गई कुछ अद्वितीय उपलब्धियों के बारे में साझा करने का बहुत उत्साह है।

NIRF रैंकिंग 2023:

हम गर्व के साथ घोषणा करते हैं कि राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखंड ने राष्ट्रीय प्रौद्योगिकी संस्थान रैंकिंग फ्रेमवर्क (NIRF) के अनुसार इंजीनियरिंग श्रेणी में 1500 से अधिक प्रतिभागी प्रौद्योगिकी संस्थानों में 101-150 रैंक बैंड में स्थान प्राप्त किया है, जो 5 जून 2023 को जारी की गई थी। यदापि, हमारे संस्थान का कुल स्कोर 37.76 से 40.18 तक सुधार करने के साथ-साथ उन्नति दिखा रहा है। हमारी ओर से इस महत्वपूर्ण उपलब्धि में हर शिक्षक सदस्य और छात्र को हार्दिक बधाई।

भारत के सर्वश्रेष्ठ कॉलेज 2023 रैंकिंग:

हमारी उपलब्धियों में एक और अद्वितीय साधन, राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखंड ने भारत टुडे ग्रुप-एमडीआरए सर्वेक्षण द्वारा आयोजित भारत के सर्वश्रेष्ठ कॉलेज 2023 रैंकिंग में इंजीनियरिंग श्रेणी में 33^{वीं} स्थान प्राप्त किया है। यह मान्यता हमारे गुणवत्ता युक्त शिक्षा और उत्कृष्टता को बढ़ाने के हमारे सतत प्रयासों की पुष्टि करती है।

ये उपलब्धियाँ हमारे शिक्षक सदस्यों और छात्रों के अथक प्रयासों और समर्पण की पुष्टि हैं। हम अपने योगदान और संस्थान के रूप में की गई प्रगति पर गर्व करते हैं। हम उत्कृष्टता, नवाचार और विकास की संस्कृति को पोषित करने के लिए वचनबद्ध रहते हैं। आइए, हम इन उपलब्धियों पर आधारित आगे बढ़ते हुए साथ मिलकर राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखंड के मान्यता को और ऊंचा करने का प्रयास करें।

PATENTS/PROJECTS/MoUs:

Status Of Patent (Filed, Published / Granted)	Inventor(s) And Co-inventors Name	Title Of The Patent
Published	Dr. Rakesh Kumar, Mr. Palash Suresh Behra, Dr. Dharmendra Tripathi, And Dr. Rakesh K. Mishra	Portable Stair Climbing Mechanism For The Conventional Trolley
Granted	Amalendu Patnaik, Tushar Goel	Highly-directional Compact Semicircular Angular-phased Antenna Array In 9.35-42.89 Ghz
Published	AK Tiwari, Shivam Saini, Anil Sharma, Manish Rawat, Dharmendra Tripathi	An Economical, Automated, Non-invasive Device For Spinal Curvature Measurement
Granted	Prof. SUDIPTA SARKAR, Dr. Laiju A. R.	A Hybrid Iron Sulfide Impregnated Anion Exchanger (HISIX) For Selective Removal Of Hexavalent Chromium From Contaminated Water
Granted	Rampal Pandey, Neha Thakur, Mrituanjay D. Pandey	Co(no3)2 Autocatalyzed Decarboxylation Of Itaconic Acid Leads To The Formation Of Methacrylic Acid And Co(ii)-mofs: Fluorescent Co(ii)-mofs Detect Hg2+, Fe3+ And Cu2+ Ions
Published	Pankaj Kumar Gupta, Kishore Debnath, Krishnakant Dhakar	A System And A Micromachining Process Using Cow Urine (Gau-mutra)
Granted	Dr. Mrituanjay D. Pandey, Rampal Pandey, Neha Thakur, Manzoor Ahmad Wani	Fluorescence Readout For Identification Of Hg2+-by Anthraimidazole Based Probe In Real Water Samples
Granted (US)	Maresh Chowdhary, Arun Kumar, Ghanapriya Singh, Rajendar Bahl	Open Vs. Enclosed Spatial Environment Classification For A Mobile Or Wearable Device Using Microphone And Deep Learning Method
Granted (US)	Maresh Chowdhary, Arun Kumar, Ghanapriya Singh, Kashif R. J. Meer, Indra Narayan Kar, Rajendar Bahl	Method And Apparatus For Determining Probabilistic Context Awareness Of A Mobile Device Using A Single Sensor And/Or Multi-sensor Data Fusion
Granted (US)	Maresh Chowdhary, Arun Kumar, Ghanapriya Singh, Rajendar Bahl	Context Awareness Of A Smart Device Through Sensing Transient And Continuous Signals
Granted (US)	Maresh Chowdhary, Arun Kumar, Ghanapriya Singh, Rajendar Bahl	Method For Generating A Personalized Classifier For Human Motion Activities Of A Mobile Or Wearable Device User With Unsupervised Learning
Granted (US)	Maresh Chowdhary, Arun Kumar, Ghanapriya Singh, Kashif R. J. Meer, Indra Narayan Kar, Rajendar Bahl	Method And Apparatus For Energy Efficient Probabilistic Context Awareness Of A Mobile Or Wearable Device User By Switching Between A Single Sensor And Multiple Sensors
Published	Dr. Vinod Singh Yadav, Manoj Kumar Singh, Vineet Singh, Anurag Maheshwari	Hybrid Solar Air Heater For Space Heating And Crop Drying
Published	Dr. Vinod Singh Yadav, Vineet Singh, Manoj Kumar Singh, Anurag Maheshwari	Solar Pump Irrigation Based On Photovoltaic (PV) Cell Technology
Published (German)	Sarika Pal, Maneesh Kumar Singh, Vipin Kumar Verma, Yogendra Kumar Prajapati	A System For Improved Long-range Surface Plasmon Resonance Sensor With Ultrahigh Imaging Sensitivity And Figure Of Merit
Published	Tushar Goel, Rajesh Saha, Amalendu Patnaik,	"Personal Portable Air-circulating System For PPE Suits Or Similar Uniforms/Dresses" 202011021129
Granted	Vinod Singh Yadav, Nishant Kumar	Power Driven Stair Climbing Tri-wheeled Spider-wheel System
Granted	Prakash Dwivedi, Sourav Bose, Rakesh Thapliyal, Satyaveer Negi	Solar Power Integrated Bidirectional Non-isolated DC-DC Converter For E-rickshaw
Published	Varshney A, Mishra NK, Singh V, Manoj Kumar, Niraj KUMAR	System For Disposing Agriculture Waste
Published (FER)	S Agrawal And NK Mishra	A Desk Mounted Air Purification Device
Published (German)	Dr. Manoj Gupta, Dr. Nitesh Singh, Dr. Pawan Kumar Rakesh	A Composition For Fabricating Of Pine Needle Ash Particulates Reinforced Surface Composite.
Published	N Kumar, Rajbahadur, M.S. Rawat, V Trivedi, N Trivedi, S Kaloni, BS Khatri	An Analyzing Method For Use Of Recycled Aggregates In Concrete
Filed	Dr. Man Vir Singh, Aman Bansal, Ham Lata, R K Tripathi, Ajay Singh Verma, Dr. Yogesh Kumar, Dr. Kamal Kant Tiwari	Real Time Peripheral Bed System For Relaxing Spine Of Patient Using Stretches Intensity And Position
Filed	A. Ajayaghosh, A. Mal, Rakesh K. Mishra, D. B. S. Kumar, J. Jacob, S. Shankar	A Process For Carbon Dioxide Adsorption Induced Switchable Antibacterial Activity Of A Smart Covalent Organic Framework
Granted (German)	Dr. Indrajit M. Nagpure	System For Synthesizing Kmgso4cl Nano-crystallite
FER Submitted	Tushar Goel, Satendra Pathak, Pankaj Kumar Pal,	SELF-REPETITIVE BROADBAND SLOT ANTENNA/14-03 Indian Design IPR, Jan. 2023
FER Submitted	Tushar Goel, Avinash Bhatt, Pankaj Kumar Pal	, "Industrial Design Of WIDEBAND UNIDIRECTIONAL ANTIPODAL Radiating Structure /14-03, Indian Design IPR, Jan. 2023
FER Submitted	Tushar Goel, Mahesh Kumar Aghwariya, Pankaj Kumar Pal,	"Industrial Design Of WIND-MILL LIKE SHAPED ANTIPODAL BROADBAND/14-03, Indian Design IPR, Jan. 2023
FER Submitted	Tushar Goel, Arvind Bisht, Pankaj Kumar Pal,	Log-periodic Antipodal Antenna/14-03
FER Submitted	Vinod Singh Yadav, Nishant Kumar, Aditya Pratap Singh	Vehicle Wheels Speed Synchronizing Assembly

S. No.	NATIONAL / राष्ट्रीय	DD/MM/YYYY
1.	Eotvos Lorand University, Hungary Eotvos लोरेंड विश्वविद्यालय, हंगरी	26-06-2019
2.	National Formosa University, Taiwan नेशनल फॉर्मोसा यूनिवर्सिटी, ताइवान	20-08-2019
3.	Indian Institute of Technology Roorkee, India भारतीय प्रौद्योगिकी संस्थान रुड़की, भारत	24-09-2020
4.	Indian Institute of Technology Kanpur, India भारतीय प्रौद्योगिकी संस्थान कानपुर, भारत	07-12-2020
5.	National Highways Authority of India (NHAI) भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (NHAI)	13-08-2020
6.	Mitsubishi Electric India Private Limited मिजुबिशी इलेक्ट्रिक इंडिया प्राइवेट लिमिटेड	02-07-2018
7.	Powerforge, (PWSIM Engg. Solutions Pvt Ltd.), Bengaluru पावरफोर्ज, (पीडब्ल्यूएसआईएम इंजीनियरिंग सॉल्यूशंस प्राइवेट लिमिटेड), बेंगलुरु	10-02-2020
8.	EMTP (Alliance Software & Services) ईएमटीपी (एलायंस सॉफ्टवेयर एंड सर्विसेज)	19-07-2021
9.	All India Institute of Medical Sciences (AIIMS) Rishikesh अखिल भारतीय आयुर्विज्ञान संस्थान (एम्स) ऋषिकेश	21-07-2020
10.	Semi-Conductor Laboratory (SCL) - ISRO, Mohali, India सेमी-कंडक्टर प्रयोगशाला (एससीएल) - इसरो, मोहाली, भारत	23-09-2020
11.	Bharat Heavy Electricals Limited (BHEL), Haridwar, India भारत हेवी इलेक्ट्रिकल्स लिमिटेड (बीएचईएल), हरिद्वार, भारत	02-09-2020
12.	Central Manufacturing Technology Institute (CMTI), Bengaluru सेंट्रल मैन्युफैक्चरिंग टेक्नोलॉजी इंस्टीट्यूट (सीएमटी), बेंगलुरु	21-05-2021
13.	Institute of Informatics & Communication, University of Delhi, New Delhi for Implementation of Non-SaaS SAMARTH ERP(SHSM) system गे.एस.समर्थ ईआरपी (एसएनएसएम) प्रणाली के कार्यान्वयन के लिए सूचना विज्ञान और संचार संस्थान, दिल्ली विश्वविद्यालय, नई दिल्ली	26-11-2020
14.	Indian Institute of Technology Delhi, India भारतीय प्रौद्योगिकी संस्थान दिल्ली, भारत	13-07-2020
15.	CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun, India सीएसआईआर-भारतीय पेट्रोलियम संस्थान (सीएसआईआर-आईआईपी), देहरादून, भारत	03-08-2020

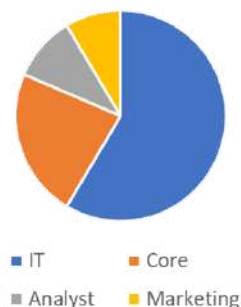
S. No.	NATIONAL / राष्ट्रीय	DD/MM/YYYY
16.	Manipal University, Jaipur मणिपाल विश्वविद्यालय, जयपुर	18-09-2019
17.	Malaviya National Institute of Technology Jaipur, Rajasthan, India मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर, राजस्थान, भारत	30-06-2020
18.	Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar Garhwal Uttarakhand हेमवती नंदन बहुगुणा गढ़वाल विश्वविद्यालय (केंद्रीय विश्वविद्यालय) श्रीनगर गढ़वाल उत्तराखंड	16-03-2021
19.	Indian Institute of Technology, Ropar भारतीय प्रौद्योगिकी संस्थान, रोपड़	02-09-2021
20.	Pawan Hans Limited, Noida पावन हंस लिमिटेड, नोएडा	08-10-2021
21.	The Institution of Engineering (India), Kolkata इंजीनियरिंग संस्थान (भारत), कोलकाता	24-03-2022
22.	Jawaharlal Nehru Government Engineering College (JNGEC), Sundernagar, HP जवाहरलाल नेहरू गवर्नमेंट इंजीनियरिंग कॉलेज (JNGEC), सुंदरनगर, हिमाचल प्रदेश	12-04-2022
23.	Indian Institute of Technology Roorkee, India @175 Partnership भारतीय प्रौद्योगिकी संस्थान रुड़की, भारत @175 भागीदारी	27.05.2022
24.	Indian Institute of Technology, Ropar भारतीय प्रौद्योगिकी संस्थान, रोपड़	21-06-2022
25.	Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab महाराजा रणजीत सिंह पंजाब तकनीकी विश्वविद्यालय, बठिन्डा, पंजाब	29-08-2022
26.	Asia University, Taiwan एशिया विश्वविद्यालय, ताइवान	19-10-2022
27.	Himachal Pradesh Technical University, Hamirpur हिमाचल प्रदेश तकनीकी विश्वविद्यालय, हमीरपुर	27-10-2022
28.	National Highways & Infrastructure Development Corporation Ltd राष्ट्रीय राजमार्ग और अवसंरचना विकास निगम लिमिटेड	31-10-2022
29.	National Institute of Technical Teachers Training and Research Chandigarh राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान चंडीगढ़	13-07-2020
30.	THDC Institute of Hydropower Engineering & Technology टीएचडीसी इंस्टीट्यूट ऑफ हाइड्रोपावर इंजीनियरिंग एंड टेक्नोलॉजी	27-01-2023

Research Grants:

Research Projects	PI/ Co-PI	Funding Agency	Total Sanctioned amount (Rs)
Study of FeRh epitaxial films and heterostructures for spintronics applications	Dr. Hardeep Kumar	UGC-DAE CSR Indore	11.98 Lakhs
Design Innovation Center	Dr. Pawan Kumar Rakesh	MoE, New Delhi, IIT Roorkee	100 Lakhs
Fabrication and Testing of Lower Limb Prosthesis for Transtibial Amputee using Biocomposites with Energy Restoring Capability	Dr. Pawan Kumar Rakesh, Dr. Sanat Agarwal	ICMR, New Delhi	28 Lakhs
Fabrication and characterization of Co- based CoPt/Pt multilayered films by Electrodeposition	Dr. Manvendra Singh Khatri	UGC-DAE CSR, Mumbai	1.35 Lakhs
Development of domestic cooking stove based on biomass gasification with porous radiant burner	Dr. Niraj Kumar Mishra	DST-SERB	22.13 Lakhs
Development of empirical model for fundamental natural period of buildings constructed in hilly terrains	Dr. Smita Kaloni, Dr. Shashank Bhatra	SERB DST	40.8 Lakhs
DECONET- "DECONET- DEVELOPMENT OF INDIGENOUS SYSTEM FOR DECIPHERING ENVISIONED SPEECH FROM EEG SIGNALS USING OPTIMIZED DEEP CONVOLUTIONAL NEURAL NETWORK MODELS	Dr. Hariharan Muthusamy, Dr. Niraj Kumar Singh, AIIMS, Rishikesh	CRG, DST-SERB	40.70 Lakhs
A novel power on pilot IC for ultra-low power wireless IoT devices	Dr. Nitanshu Chauhan, Dr. Sarita Yadav, Mr. Vivek Kumar, Dr. Hariharan Muthusamy	Meity	15 Lakhs
VLSI Design and Implementation of imagined speech based neuroprosthesis: an application in the health care system under chips to start up programs of Meity	Dr. Hariharan Muthuswamy, Dr. Nitanshu Chauhan, Mr. Vivek Kumar and Mr. Himanshu Kumar	Meity	84.70 Lakhs.
Structural, Electronic and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage	Dr. Jagrati Sahariya	CSIR	22 lakhs

Career Counselling and Placement (C2P) Section

Company Domains



Company Visited

8+

Companies like Samsung Research, L&T, etc

Last Year

80%

Placed students from B.Tech, programs

Max Package offered

15+

Including IT & Core Companies

In Process Drives

15+

Companies like NVIDIA, Schneider Electric, Maruti, Renishaw

Average Package

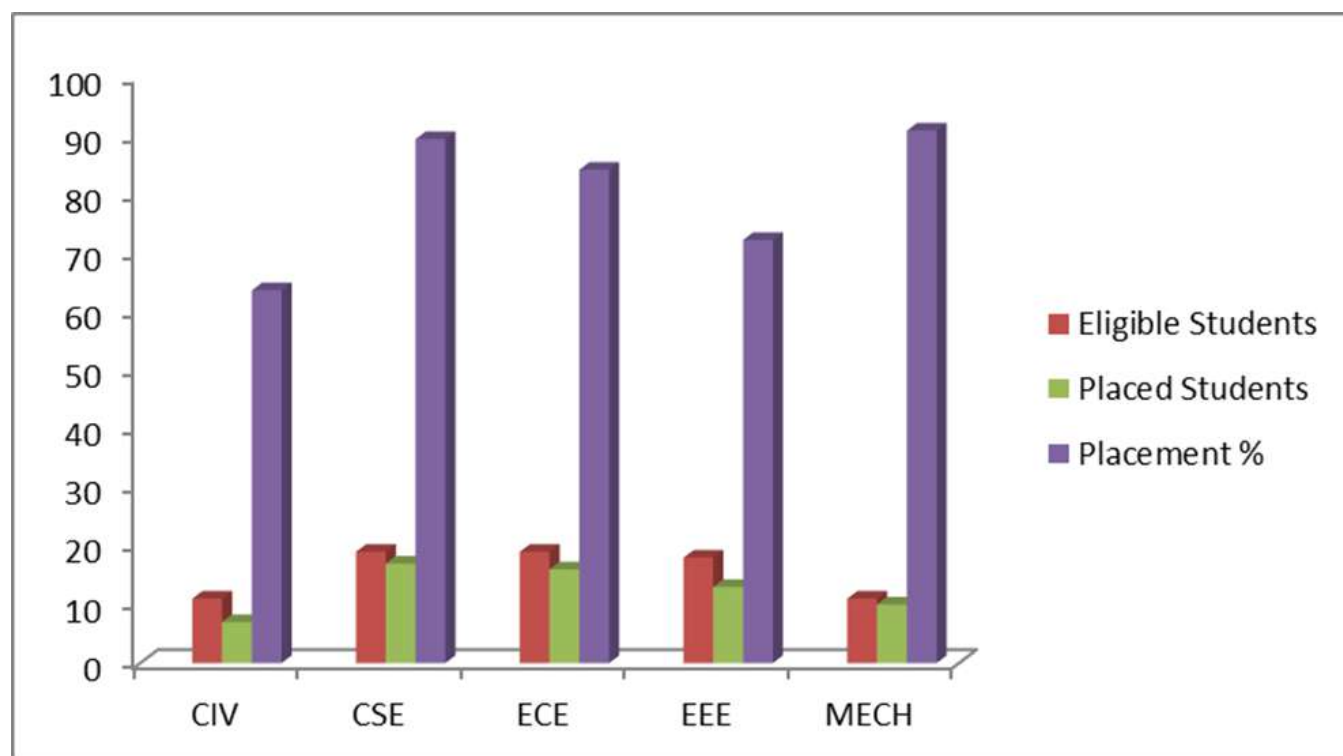
7LPA

Mean Package offered so far

Activities

12+

Counselling Programs workshops/ seminars/STC organized



C2P/Alumni Section:



Dev Vrat Joshi, Alumnus of B.Tech. (Civil Engineering) Batch- 2018-2022 got AIR- 125 in the UPSC 2022 examination



Maniya Verma, Alumnus of B.Tech. (Electrical and Electronics Engineering) Batch- 2016-2020 got AIR- 258 in the UPSC 2022 examination



Meenakshi Arya, Alumnus of B.Tech. (Computer Science and Engineering) Batch- 2013-2017 got AIR- 444 in the UPSC 2022 examination



Vipin Dubey, Alumnus of B.Tech. (Civil Engineering) Batch- 2014-2018 got AIR- 444 in the UPSC 2022 examination



Aditya Dohar, Alumnus of B.Tech. (Mechanical Engineering) Batch- 2016-2020 got AIR- 834 in the UPSC 2022 examination

S N	Name of Alumni	Current Position	Batch Details	Topic	Date	Photo
1	Shashank Singh	Senior Project Executive at NBCC India Limited	Alumnus of B.Tech. Batch (2015-2019), Civil Engineering	Cracking the Engineering Services Examination: Strategies and Tips for Success	6-Aug-23	
2	Vishesh Kumar	Senior Engineer at Machinery Technomont Private Limited, Delhi	Alumnus of B.Tech. Batch (2015-2019), Mechanical Engineering	Competitive Industrial Environment and necessity of related skills to overcome it	12-Aug-23	
3	Mayank Rajpurohit	Data Engineer, VAPLAY GROUP, STOCKHOLM, SWEDEN	Alumnus of B.Tech. Batch (2015-2019), Electrical & Electronics	Exploring the Opportunities in the Field of Data Engineering: Navigating the Path to Success	19-Aug-23	
4	Aniket Gupta	Semiconductor Device Research Scientist at Intel	Alumnus of B.Tech. Batch (2016-2020), Electronics & Communication Engineering	Career openings within the thriving semiconductor sector	28-Aug-23	

Alumni Affairs Section invites the alumni for career guidance and counselling to undergraduate and postgraduate students through Alumni Talk Series. The following alumni talks were conducted.

Research Publications:

- Soni Chaurasia, Kamal Kumar, Neeraj Kumar, "EEM-CRP: Energy Efficient Meta-heuristic Cluster based Routing Protocol for WSNs," IEEE Sensors (Accepted) [ISSN: 1530-437X] [IF: 4.325]
- Rajeev Tiwari, Premkumar Chithaluru, Kamal Kumar, Manoj Kumar and Thompson Stephan, "A Cooperation Federated Forwarder Selection Technique for Maximizing Network Lifetime in Wireless Sensor Network," in Sadhna, Springer, 2023. [SCIE, SCOPUS] [ISSN 0973-7677] [IF: 1.214]
- Soni Chaurasia, Kamal Kumar, "ACRA: Adaptive meta-heuristic based Clustering and Routing Algorithm for IoT-assisted wireless sensor network (Accepted for Publication)," Peer-to-Peer Networking and Applications, 2023. [SCIE] [IF 3.488] [ISSN: 1936-6450]
- Soni Chaurasia, Kamal Kumar, "MOORP: Metaheuristic based Optimized Opportunistic Routing Protocol for Wireless Sensor Network", in Wireless Personal Communications, Vol. 2023. Pp. 1-32 [SCIE, SCOPUS] [ISSN 1572-834X, IF: 2.017]
- Kamal Kumar et al., "Convolutions of String Data Structures: A Case Study of Finding Number of Palindrome Substrings in a String," in IEEE 12th International Conference on Communication Systems and Network Technologies (CSNT), 8-9 April, 2023, Technocrats Institute of Technology, Bhopal. (Accepted)
- Kamal Kumar et al., "Analysis of API Architecture: A Detailed Report," in IEEE 12th International Conference on Communication Systems and Network Technologies (CSNT), 8-9 April, 2023, Technocrats Institute of Technology, Bhopal. (Accepted)
- N. Thakur, P. Kandwal and Rampal Pandey*, Development of a Thiophene-Thiophene π -Conjugate Ultrasensitive Fluorescent Probe for Heavy-Metal Ions via Discrete Signaling: DFT Studies and Mechanistic Insights, Industrial & Engineering Chemistry Research, 2023, 62, 33, 12864-12879.
- Nishant Kumar, Vinod Singh Yadav, Application of response surface methodology to optimize the emissions and performance of a dual fuel engine using diesel and dimethyl ether, Environmental Progress & Sustainable Energy, 2023, DOI: 10.1002/ep.14233, Online ISSN 1944-7450. (2.79 SCIE-Q2)
- Vineet Singh, Vinod Singh Yadav, Application of RSM for Analysing and Optimizing the performance of Finned Solar Air Heater, Journal of Thermal Science, 2023, (2.5 SCIE Q2)
- Dahiya, Amardeep, and Sudib K. Mishra. "Rheological and Flexural Properties of High Strength Cementitious Composite Reinforced with L-Shaped End Superelastic Short Fibers." Journal of Materials in Civil Engineering 35.11 (2023): 04023386. DOI: 10.1061/JMCEE7.MTENG-15988.
- Vineet Singh, **Vinod Singh Yadav**, Optimum design and analysis of Solar Pump with the help of Genetic Algorithm a MATLAB tool and RSM tool at minimum cost, Environmental Progress & Sustainable Energy, 2023, DOI: 10.1002/ep.14308 (2.79 SCIE-Q2)
- Vineet Singh, **Vinod Singh Yadav**, Performance optimization of Solar Pump operating by PV module, Environmental Progress & Sustainable Energy, 2023, DOI:10.1002/ep.14293. (2.79 SCIE-Q2)
- Nitesh Kumar and Pramod Agarwal, "A Series-Parallel Input Parallel Output Based Active Clamped Current-Fed DC-DC Converter For High Power Applications," 2nd IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDEA-2023), Manipur, India, 2023 (accepted).
- Nitesh Kumar and Pramod Agarwal, "MFOFSE Filter Based Grid Controller For Three Phase Grid Connected Solar PV Array," 2nd IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDEA-2023), Manipur, India, 2023.
- Niraj Kumar, Manoj Kumar Singh, Vinod Singh Yadav, Vineet Singh, Anurag Maheswari, A Comparative Analysis of Ribs and Cans Type Solar Air Heater, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 03, pp1449-1459, September 2023 (3.60 SCOPUS-Q2) ISSN:2189-0420(Print).
- Maroti Deshmukh, Arjun Singh Rawat. "Lightweight Symmetric Key Encryption for Text using XOR Operation and Permutation Matrix", International Journal of Information Technology, ISSN: 2511-2112, DOI: <https://doi.org/10.1007/s41870-023-01407-3>, pp. 1-8, Springer, 2023.
- K. Mishra, V. Kumar and A. Datta, "Monte Carlo Modeling of Growth Delay in Atomic Layer Deposited WS₂ on SiO₂ Substrate based on Kinetic Extrapolation of Reaction Entropy and Enthalpy," in IEEE Transactions on Nanotechnology (Accepted).
- V. Kumar, A. Datta, and S. Dasgupta, " Multiscale Modeling of Radiation Aggravated Thermal Outburst in 5 nm Gate All Around Nanosheet Field Effect Transistor," in 29th International Workshop on Thermal Investigation of ICs and Systems, Budapest, Hungary, 2023. (Accepted)
- Jyoti Patel, Govind Sharma, Chitraja Rajan, Vivek Kumar and S. Dasgupta, " Power Efficient Hardware Fingerprint: Exploiting Process-Variations in A Quasi-Planar 14nm FinFET," in IEEE International Asia Pacific Conference On Circuits And Systems (APCCAS 2023), Hyderabad, India, 2023. (Accepted).
- Vivek Kumar, " Device Optimization for Thermal-Aware Reliable CMOS Analog Circuit Application," in IEEE International Nanotechnology Materials and Devices Conference. (Accepted).
- R. Srivastava., S. Pal. & Y.K. Prajapati, MXene-Assisted D-Shaped Photonic Crystal Fiber Probe with High Sensitivity for Detection of Tuberculosis. Plasmonics (2023). <https://doi.org/10.1007/s11468-023-01924-8>.
- V. Kumar, , S. Pal, Tantalum Disulfide (TaS₂)-Based Symmetrical Long-Range Surface Plasmon Resonance Biosensor with Ultrahigh Imaging Sensitivity and Figure of Merit. Plasmonics (2023). <https://doi.org/10.1007/s11468-023-01993-9>.
- Rajeev Kumar, Sajal Agarwal, Sarika Pal, Yogendra Kumar Prajapati, J.P. Saini, Enhanced refractive index sensing using a surface plasmon resonance sensor with heterostructure, Micro and Nanostructures, Volume 183, 2023, 207656, ISSN 2773-0123, <https://doi.org/10.1016/j.micrna.2023.207656>.
- Rahul Raj, Muskan Mayank, Laiju A. R., "Removal of zinc metal by ion exchanger technique using Amberlite IRA-120", in International Conference on Creative and Innovative Solution in Civil Engineering (CISCE 2023), MNIT, Jaipur, Rajasthan, India during 11-12, August 2023.
- P. Chakraborty, T. N. Gupta and N. Kumar, "SOGI-SF Filter based Three Phase Grid Tied Solar Energy Conversion System," 2023 3rd International Conference on Intelligent Technologies (CONIT), Hubli, India, 2023, pp. 1-5, doi: 10.1109/CONIT59222.2023.10205746.
- Amarjeet Kumar Prasad, Nitesh Kumar and Tripurari Nath Gupta, "SOGI-ANF Filter based Micro Grid with Solar Water Pumping system," 2nd IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDEA-2023), Manipur, India, 2023 (accepted).

Research Publications:

- Kuldeep Sharma, Sandeep Singh, Tinh Quoc Bui, Simplified numerical algorithms for generalized strip saturated two equal collinear cracks in piezoelectric media using distributed dislocation technique. ZAMM-Journal of Applied Mathematics and Mechanics (2023), e202300004.
- Singh, H. N., Agrawal, S. and Kuthe, A. M., "Design of customized implants and 3D printing of symmetric and asymmetric cranial cavities," Journal of Mechanical Behavior of Biomedical Materials, ISSN 1751-6161, eISSN: 1878-0180, Vol. 146, October 2023 (online Aug 2023), 106061, (DOI: <https://doi.org/10.1016/j.jmbbm.2023.106061>).
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