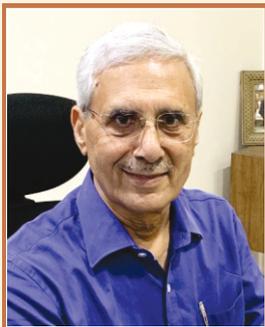NIT Jalandhar has been ranked **46ᵗʰ** in **'Engineering Ranking'** and **72ⁿᵈ** in **'Overall Ranking'** amongst the Indian Universities/Institutes by the **'NIRF Ranking 2023'**

NITJ NEWSLETTER-2023

Quarterly Magazine – January to March 2023

FROM THE DESK OF CHAIRMAN BoG, NIT JALANDHAR

SHRI SUBHASH CHANDRA RALHAN
(Chairman (BoG), NIT Jalandhar)

Greetings to all! It is my proud privilege to address the NITJ community and speak about the achievements of the current year and aspirations for the upcoming years.

NITJ has once again proven its academic excellence in India by getting ranked *45ᵗʰ* amongst all Indian Universities/Institutes according to the total h-index by *'AD Scientific Index 2023'*. For this success, I would like to thank the Director for his outstanding efforts. The commitment of our Institute to foster entrepreneurial skills among students as well as faculty has seen results this year, with MOUs signed with various organizations of National Importance. Under the aegis of Institution's Innovation Counsel (IIC) and Technology Business Incubator (TBI), the Institute organized several events and start-up related programmes to inculcate the value of potential skills among students. For this, I appreciate the efficient work done by our faculty for the betterment of quality education and the overall development of students. I also acknowledge the efforts put forward by the Deans, Registrar, and Heads of all Departments/Centres and Committees for the glorious success of the Institute.

Appreciation also goes to the members of student clubs and societies, which work ardently on the campus to organize cultural programmes to build an inclusive environment and also celebrate events of National Importance like Republic Day and Martyr's Day (Shaheed Diwas). The Institute also celebrated its Annual Technical Fest, TechNiti, to foster creativity and innovation in young minds through activities, such as a Hackathon, Robo Hunt, Robo War, NITYAAN (a rocket launch event), Smart Tank, Drone Show, Bot-Bolt etc. Further, workshops and expert talks related to different research domains that were organized on campus have yielded excellent results.

Lastly, I look forward to a year full of prosperity, as I am confident that the Institute will continue to move ahead in the fields of education and research. May the knowledge that our Institute provides enkindle a ray of light in every student and give them the inspiration to evolve and explore ideas to meet the demanding challenges of our society.

Jai Hind!

Inside this Issue

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FACULTY ACCOMPLISHMENTS | RESEARCH PUBLICATIONS | MEDIA COVERAGE

*NIT Jalandhar has been ranked **601-800** in **'THE World University Ranking 2023'** amongst the Global Universities/ Institutes under **Engineering Category***

FROM THE DIRECTOR'S DESK

Greetings from Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab!

I am delighted to acknowledge the academic accomplishments and achievements of NIT Jalandhar, an esteemed institute of technological excellence, in the current issue of the newsletter. Ranked amongst Global Universities under the Engineering Category with a ranking band of **601-800**, NITJ has already marked its presence in the top Institutes. Also, NIT Jalandhar has been ranked **46th** in **'Engineering Ranking'** and **72nd** in **'Overall Ranking'** amongst the Indian Universities/Institutes published by **Ministry of Education, Govt of India** (NIRF Ranking 2023**)**, as a result of improvement in all fields of academia as per NIRF parameters. I acknowledge and appreciate the continuous efforts of Faculty, Staff, Students, and Alumni for this achievement.

At the onset, I would like to share that from the academic session of 2023, NITJ is incepting new M. Tech courses in Industrial Engineering and Data Analytics, Manufacturing Technology and Machine Learning, Signal Processing and Machine Learning, Data Science, Data Analytics, and Electric Vehicle Design. Also, at the undergraduate level, the institute is going to introduce two new B. Tech programmes in Electronics and VLSI Engineering, and Data Science and Engineering, considering the pace of developing technology and the prospects of students. The institute has also signed an MoU with the Indian Institute of Management (IIM), Amritsar, to start an integrated B. Tech-MBA programme in partnership with IIM Amritsar.

At the academic level, it is worth mentioning that our students have performed exceedingly well in the GATE 2023 by grabbing all India ranks in single figures. In regard to quality research work, NIT Jalandhar has recorded a total of 478 Scopus publications (2023) as of May 22, 2023. For this, I appreciate the faculty members and research scholars who have published research papers in journals of international repute. Further, fourteen externally sponsored research projects and two patents were granted to the faculty. On the development front, I heartily applaud the inauguration of the Computation Laboratory, Modernized Structural Analysis Laboratory, and ISRO S-TIC Hall within the institute. This is a matter of pride for the Institute, as such facilities will provide hope to the young minds who strive for success and will help researchers take a turn towards a promising future.

NITJ also gives equal importance to the celebration of cultural events like UTKANSH within the institute, which gives a glimpse of the rich diversity of India. The organization of Sports Meet with great fervour promotes the value of physical fitness among students and faculty. At the same time, the campus also organized webinars and study tours to strengthen practical skills among our student community. While a successful array of technology-oriented events like TechNiti and other competitions provide a forum for networking, collaboration, and developing new avenues of knowledge.

Lastly, I wholeheartedly appreciate our faculty, staff, and students for the achievements that NITJ has received as a result of their dedication and sincerity. I would like to thank the alumni of the institute for their continuous support and contribution towards academic and entrepreneurial excellence. Based on the consistent growth and performance of the preceding years, I hope this continues further. I look forward to a fruitful and rewarding year.

Best Wishes!

Prof Binod Kumar Kanaujia
Director

CONTINUING EDUCATION

STC / FDP

Department of Biotechnology, NIT Jalandhar organized the prestigious Global Initiative for Academic Network (GIAN), a 10 Days International Course on 'Biotechnology and Biovalourization of Extremophiles 'from February 20-March 01, 2023. Prof Rajesh K Sani, South Dakota School of Mines and Technology USA was the foreign speaker who has delivered 24 lectures. Prof Subir Kundu, former Professor School of Biotechnology, IIT BHU also delivered three Lectures on latest Technology development and various aspects of Biofuels Production throughout the world. 61 participants (Faculty, Research Scholar, Post Graduate and Under Graduate) from various parts of country (Haryana, Madhya Pradesh, Uttar Pradesh, Rajasthan, Punjab, Delhi, Himachal Pradesh) has participated in this two-week short term course.

A five-day workshop on Hadron Physics from January16-20, 2023 was organized by Department of Physics of our institute in collaboration with IIT Ropar. This workshop was sponsored by the Department of Atomic Energy Board of Research in Nuclear Sciences, Government of India. The session included the addresses of Prof Raghunath Sahoo faculty (IIT Indore) and Dr Pushpendra Associate Professor (IIT Ropar). The eminent experts for this workshop were Prof Bidyut Roy (BARC Mumbai), Prof Dipankar Charkravorty (IIT Kanpur), Prof Amruta Mishra (IIT Delhi), Prof PC Vinod Kumar (PD Patel institute of Applied Sciences, Gujrat), Prof Abhijit Bhattacharyya (University of Calcutta), Prof Asmita Mukherjee (IIT Mumbai), Prof Raghunath Sahoo (IIT Indore), Prof Chandan Mondal (Institute of Modern Physics, Chinese Academy of Science). Along with this there were some invited lectures from Post-Doctoral researchers associates from leading teaching and research institutes across India and abroad like Kent State University (USA), Institute of Modern Physics (Chinese Academy of Science, China), IIT Kanpur, IIT Mumbai, SVNIT Surat. The workshop was focused on the latest theoretical and experimental developments in the field of high energy physics. The researchers will be presenting their research work on recent findings on Quark-gluon plasma, Phase Transitions in the Quantum Chromodynamics phase diagram etc. There were total 60 participants out of which 44 out-station in the workshop which include Professors, post-docs and research scholars across the globe.

To enhance the scientific writing skills among the researchers, the Department of Physics has organized a One-week workshop on 'Latex for beginners' between January 4–8, 2023. The main purpose of this workshop was to make students/research scholars/ faculty members familiar with Latex text editing software. About 30 people, including students and faculty members from various prestigious institutions like IISERs, Central and state Universities, NITs participated in this event. This workshop covered the basic information of the software, its installation, text formatting, presentation tools, graphics, equations etc.

Institution's Innovation Council (IIC) of our institute organized a two-days workshop on 'Design Thinking, Critical Thinking, and Innovation Design' from January 28-29, 2023. The objective of the workshop was to motivate students by blending design thinking with critical thinking, and to foster innovation that delivers customer-centric solutions and how one can overcome challenges with critical thinking to solve real world problems. The workshop comprised of four sessions. The first speaker of the workshop was Mr David de Souza, COO/Founder of Goa With Earth (GWE). Total 150 participants attended this two days' online workshop.

A Faculty Development Programme (FDP) on 'ML/DL for Data Science and Analytics using Python' was organized by department of Information technology from February 15-19, 2023. The FDP aimed to present a foundation of python basics for data science and machine learning. Prominent interactive sessions with experts will be conducted in different domains of research such as Big Data & Analytics, Artificial Intelligence, Machine Learning, Deep Learning and many more. This course provided an opportunity for researchers and practitioners from academia and industry to gain insights into the developments along with the existing research challenges in these domains, as well as a practical exposure to effective smart systems, tools, and related applications. There were 180+ participants who actively participated in the FDP sessions.
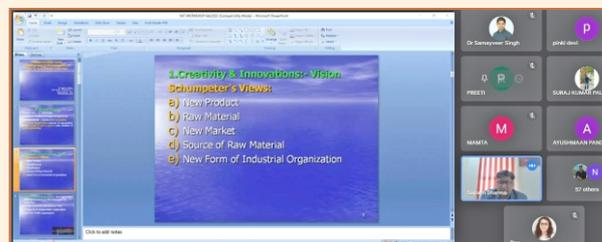
One Week Short Term Course (STC) on Process Modeling, Simulation, Control and Optimization (PMSCO-2023) was jointly organized by Department of Chemical Engineering, Department of Instrumentation and Control Engineering, and Department of Electrical Engineering of our Institute from March 23-27, 2023.
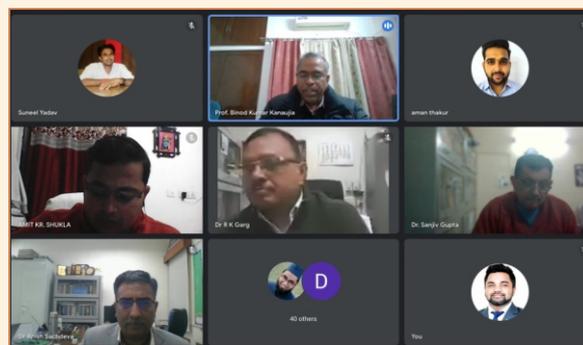

Workshops / Webinars

The Social Media Cell of the Institution's Innovation Council (IIC), NIT Jalandhar organized a one-day National Workshop on 'Entrepreneurial Traits Development and Measurement: A Tool For Sustainable Start-Ups' on February 10, 2023. Dr Supran Kumar Sharma, Dean Faculty of Management of Shri Mata Vaishno Devi University was the resource person of the workshop. The objective of the event was to inculcate the culture of entrepreneurship among the students, as well as to make them aware of the various entrepreneurial traits and competencies. More than 60 participants attended the workshop and discussed their perspectives on entrepreneurship in the contemporary era.

A faculty development programme on 'Role of Supply Chain Management 4.0 in effective implementation of Industry 4.0' was organized at NIT Jalandhar from January 30, 2023 to February 10, 2023 in hybrid mode. The programme has been sponsored by AICTE New Delhi under ATAL Academy. Around 50 participants from various Institutions in Punjab participated in this programme. Prof B K Kanaujia, Director of the Institute inaugurated the programme and congratulated the coordinators to organize this programme and expected the overall development and knowledge enrichment of all the participants after this programme. On this occasion, Dr Sanjiv Gupta Chief General Manager (CGM) from SML Ropar and many faculty members from NIT Jalandhar were present.

Institution's Innovation Council (IIC) of our institute organized an online expert talk on February 11, 2023 on the theme My Story- Motivation Session by Successful Entrepreneur/Start-up founder by Mr Anurag Arora, CEO, Mink Organics. The objective of this talk was to motivate students for starting their own businesses and become job creators not job seekers.

IMPORTANT EVENTS

The team Internship and Technical Affairs of Institution's Innovation Council (IIC) organized National Science Day in the memory of Nobel laureate Prof C V Raman on February 28, 2023. Competitions involving poster and project demonstration were held to celebrate Science Day. The objectives of the competitions were to encourage students to showcase their scientific skills and knowledge, as well as to inspire them to pursue a career in science. The posters presented by the students covered a wide range of scientific topics, including Mathematics, Physics, Chemistry, Biology, and, environmental science etc.

National Institute of Technology Jalandhar and Indian Institute of Management Amritsar signed a Memorandum of understating for starting a FIVE YEAR integrated B Tech MBA Programme for B Tech students of NIT Jalandhar. Through this MOU concerted efforts, visionary leadership and fore thinking of the two premier institutions has been on a common platform to synergize their intellectual capabilities for setting global benchmarks in the field of integrated teaching, professional training and collaborative work. Chairman, BoG Shri Subhash Chandar Ralhan, Director NIT Jalandhar Prof Binod Kumar Kanaujia and Director IIM Amritsar Dr Nagarajan Ramamoorthy along with Deans of both the institutions were present at the occasion. After signing the MOU, Prof Binod Kumar Kanaujia said that IIM Amritsar and NIT Jalandhar shall work jointly to develop integrated teaching modules for the delivery of joint academic programs where B Tech. degree from NIT Jalandhar and MBA degree from IIM Amritsar would save one academic year for the students. All 4th semester students of NIT Jalandhar will be eligible to apply for the program. The Integrated B Tech-MBA program offers B Tech students of NIT Jalandhar a unique opportunity to be corporate ready with this Integrated B Tech MBA degree. This collaboration will also help to develop policies and protocols to be utilized by our country through sustained efforts by both the institutes.

A MOU between National Institute of Technology, Jalandhar and University of Saskatchewan, Saskatoon Canada was signed on March 02, 2023 at India International Centre, New Delhi by Dr M K Jha Professor HAG, Department of Chemical Engineering on behalf of NIT Jalandhar and Dr Baljit Singh Vice President, Research on behalf of University of Saskatchewan, Saskatoon Canada in presence of Prof Satya Naryan Naik CRDT IIT Delhi and Hon. Scott Moe, Premier of Saskatchewan as witness during the signing of MOU. Further Mr Stephen Harper Former Prime Minister of Canada, Sh Vivek Bhardwaj IAS Secretary Ministry of Mines Government of India, Dr Prachi Kaul Director Shastri Indo Canadian Institute along with many prominent personalities including Prof Ajay K Dalai Chemical Engineering and Canada Research Chair in Bio-Energy and Environmentally Friendly Chemical Processing, Department of Chemical and Biological Engineering, College of Engineering, University of Saskatchewan, Canada was also present during the occasion. Prof Binod Kumar Kanoujia Director NIT, Jalandhar has highlighted the salient feature of this MOU is to explore opportunities to cooperate in various academic, research and scholarly endeavors in fields of mutual interest. This cooperation may include consideration of the following:

- Exchanges and internships for students, faculty, and staff;
- Introduction of new curricula;
- Joint research projects;
- Exchange of publications and training materials; and
  Development of joint academic programming.

Team TechNITi 2023 of our institute organized a Symbiosis Summit 2023 on 'Driving Innovation through Academia-Industry Collaboration' in collaboration with Central Institute of Hand tools Jalandhar on February 27, 2023. The inaugural ceremony of summit was graced with the auspicious presence of Chief Guest, Sh S C Ralhan, Chairperson, BOG NIT Jalandhar, Prof B K Kanaujia, Director NITJ, Registrar, Dean Research & Consultancy, Coordinator TechNITiJ 2023, Dr Sarabjit Singh, Principal Director, Central Insitute of Hand Tools (CIHT), Mr Virinder Sharma, Director Ministry of Micro, Small & Medium Enterprises (MSME), Mr Vikrant, National Institute of Solar Energy (NISC), Ms Mandeep Kaur Tangra, Founder Simba Quartz.

13th National Voter's Day was celebrated at NIT Jalandhar on January 25, 2023. The Theme for this year was 'Nothing Like Voting, I Vote for Sure'.

Dr B R Ambedkar NIT Jalandhar celebrated the 74th Republic Day in the Institute. The function started with unfurling of the National Flag by chief guest of the day, Hon'ble Chairman BOG, Shri Subhash Chandra Ralhan, Managing Director, Sri Tools Private Limited Ludhiana (Punjab) in presence of Director, NIT Jalandhar, Prof Kanaujia, followed by national anthem and then review of the parade at the Administrative Building. The event started with Republic Day Parade with one platoon of security unit and NCC unit of NIT Jalandhar at the administrative building. Deans, Heads of the department, Faculty, staff and students were become the witness of the 74th Republic day of the event. The Registrar of the institute started with the welcome notes and congratulated to all on 74th Republic day as well as for the Basant Panchmi. He added in his address, this day is very important especially for NIT Jalandhar because today is the day when India become republic by effect of the constitution. Our institute name is kept on the name of the father of the constitution, Dr B R Ambedkar. Further, the Director of the institute addressed with the tribute to freedom fighters who have fought for the independence and added on this day in 1950, India become Sovereign Socialist Secular Democratic Republic with a parliamentary system of government by giving effect of our constitution that was adopted on Nov 26, 1949 and came into force on January 26, 1950. The event concluded by performing several cultural program such as NUKKAD NATAK, Dance by the Prayas team.

Department of Mathematics, NIT Jalandhar has celebrated the National Mathematics Day on March 2, 2023. Students from Government Senior Secondary School, Nussi participated in the event along with their teachers and the principal. The keynote speaker for the event was Dr Davinder Pal Mand, Associate Professor, DAV College Jalandhar, addressed the students and enlightened them with the need to prioritize the goals and needs in life, and to make the efforts for their achievements. Dr Jagwinder Singh also gave an important talk highlighting the need for critical thinking in life. Similarly, Doctoral and Masters Students of the Mathematics department also conducted various mathematical activities including quizzes and presentation to motivate the students for higher study in Mathematics.

Institution's Innovation Counsel (IIC), Technology Business Incubator (TBI) and Team Technical Affairs (TTA) of our institute in collaboration with Central Scientific Instruments Organization (CSIO) organized a one-day event to celebrate Startup Day on January 16, 2023. The venture was for the students as well as the faculty members to celebrate the startup spirit on the campus. The first session was concluded with the insights of Mr Narinder Singh Jassal on awareness regarding PRISM schemes and, Ms Anima Mishra who expressed the relation between Startup ecosystem and investment. The second session of the event was centered on the entrepreneurial workshops conducted by Mr Rajiv Sikka, Ex CEO at Indian Oil- Adani Gas Pvt Ltd, and Mr Vikas Upadhyaya, Co-founder of Iwayplus.

Institution Innovation Council (IIC) of NIT Jalandhar welcomed 50 girls' students from classes X to XII (science stream) of Jawahar Navodaya Vidyalaya, Talwandi Madho, District Jalandhar under the Vigyan Jyoti programme of Ministry of Education on January 27, 2023. These Vigyan Jyoti scholars visited various labs and conducted hands-on experiments on working models, and interacted with faculty members. The school students visited all the departments like Electronics & Communication Engineering, Instrumentation & Control Engineering, Civil Engineering, Physics, Chemistry, Humanities & Management, Chemical Engineering, Textile Technology, Computer Science Engineering, Information Technology, Industrial Engineering, and Biotechnology Engineering departments. This one-day trip gave school students a glimpse of the NIT Jalandhar legacy, culture, technical competency, and social values. Students were also able to understand and appreciate opportunities for them after they completed school, and the various course and career options available.

The Social Media Cell of the Institution's Innovation Council (IIC) organized a one-day National Workshop on 'Problem Solving and Ideation' on February 23, 2023. Dr Tripti Mahara, Associate Professor of Christ University, Bangalore was the resource person of the workshop. The objective of the event was to inculcate the application of Artificial Intelligence in recent entrepreneurship among the students. Dr Mahara highlighted how data mining, data science, machine learning, deep learning and cloud computing become the backbone of the any smart entrepreneurs. She focused on the importance of data science which uses a combination of various tools, algorithms, formulas, and machine learning principles to draw hidden patterns from raw data. These patterns can then be used to gain a better understanding of a variety of factors and influence decision making. More than 60 participants attended the workshop and discussed their perspectives on entrepreneurship in the contemporary era.

TechNITi' 23, the annual Techno-managerial Fest of NIT Jalandhar which was inaugurated by Shri Jaspreet Singh, IAS Deputy Commissioner of Jalandhar and Prof Binod Kumar Kanaujia, Director NIT Jalandhar on February 25, 2023. The theme for Techniti 2023 was 'Metaverse, Startup and Innovation', which captures the essence of the event, encouraging young minds to think beyond boundaries and come up with innovative ideas to solve real-world problems. Sh Sudheer Kumar N, Director of the Indian Space Research Organization (ISRO) and Dr Sanjeev Kumar Joshi, Deputy CEO of BrahMos, two highly esteemed entities in the realm of space and missile technology were the Chief Guests for TechNITi 2023. TechNITi'23 showcased a variety of activities, such as a Hackathon, Robo Hunt, RC Car, NITYAAN (a rocket launch event), Smart Tank, Drone Show, Bot-Bolt, and many other engaging events. The 48-hour 'Hackmol 4.0' by Google Developer Student Club concluded with great efforts by all the teams. An interactive session with renowned educator Arsh Goyal provided the attendees with an opportunity to gain valuable insights from the expert's vast experience. A Fashion Show powered by LAKME held in the evening gathered participants from various prestigious institutes including NIFT. Valuable feedback from judges Sakshi Ranaut, Brand Ambassador of T Motion Pictures, Sonu Sethi, Mrs. India International, Tanmay Pushkar, a versatile Actor, Director and Producer, helped the participants refine their designs and enhance skills. 'NIT-Yaan', the Rocket Designing and Launching Championship held by Think India, continued for the second day. Rockets designed in the previous day workshop were launched today. The one with optimal trajectory and other parameters was declared as the champion of the event. NIT-Yaan aims to sharpen the scientific skills of young minds for their brighter future. 'Tricky Circuits' conducted by SPICE Society, wherein the participants were provided with circuits consisting of resistors, gates, and were tasked with determining the corresponding output. The preliminary round of the" Integration Bee" is a customary playoff-style competition in which student pairs compete in solving various integration problems. SOBER society has organised BIOMOD, BioMime and Organica Hunt. Prayaas games, Squad of the Year– a bridge construction contest and PC Gaming ended today. "Smart tank" an Investors Meet similar to the well-known Shark Tank-India was held by R-Tist, The Robotics club of NITJ. This is an ideation competition event aiming to recognize and promote innovative ideas that have the potential for practical application in industry. In the "Ad-Mad Show" organized by the Managerial Society, NITJ, participants were instructed to develop a marketing plan including a full-fledged creative campaign of either a product or a service. The college fest TECHNITI-23 at NIT Jalandhar witnessed a spectacular event as participants from various colleges showcased their skills in the RC Car Event organized by Team SOCIETY OF MECHANICAL ENGINEERING (SOME) on 26th February, 2023 and drew a large crowd of enthusiasts who were eager to witness the thrill and excitement of the high-speed race. The Society of Mechanical Engineering at Techniti 2023, NIT Jalandhar also organized an exciting event focused on Unmanned Aerial Vehicles (UAVs) or drones on the February 27th, 2023 and aimed at providing a platform for students to showcase their skills in designing and building UAVs, as well as flying them. In addition to the technical events, Techniti 2023 also featured a series of entertainment events that take place in the evening. These events consist of an EDM night featuring the Italian artist Olly Esse on the February 25, a LAKME Fashion Show on the February 26, and a Star Night with renowned Punjabi singer Ninja on the February 27.

The ISRO S-TIC hall was inaugurated at National Institute of Technology Jalandhar on February 27, 2023. It was inaugurated by Shri Sudheer Kumar N, Director, CBPO, ISRO who was the Chief Guest alongwith Prof Kanaujia, Director of the Institute. Shri Nishant Kumar, Deputy Director, CBPO, Prof J N Chakraborty, Dean (Research and Consultancy), Prof Joseph Anand Vaz, Coordinator of ISRO S-TIC were also present. The coordinator welcomed the dignitaries and the participants and felicitated the dignitaries and explained the background of the S-TIC at NIT Jalandhar and acknowledged the unstinted support received from ISRO. He also explained that the ISRO has approved eleven Technology Development Projects (TDPs), amounting to approximately Rs 178 lacs, so far. Approximately Rs 29 lacs have been provided separately for development of the infrastructure within this S-TIC hall. Several students are working on the ongoing TDPs at the S-TIC under the active supervision of their respective Principal Investigators (PIs), Co-Investigators (Co-PIs) and their TDP Mentors from ISRO. Each TDP engages between 3 to 5 students per year. Two batches of students have already had the opportunity to work on these TDPs. Thus, so far approximately 80 students have had the opportunity to work on these TDPs at S-TIC and have been mentored by PIs and ISRO Mentors from various centres across the country. Shri Sudheer Kumar encouraged the students and the Faculty members participating in the ISRO S-TIC projects. He interacted with each project team and appreciated their efforts. He also visited various laboratories across the Institute.

Dr B R Ambedkar NIT Jalandhar participated in G-20 meet organized at Khalsa College, the holy city of Amritsar by IIT Ropar with collaborative inputs from prominent higher education institutions such as IISc Bengaluru, IIM Amritsar and TISS Mumbai from March 15-17, 2022. Hon'ble Chief Minister of Punjab, Shri Bhagwant Mann visited the G20 Meet on education and graced the occasion. Union Secretary (Higher Education) Sh. K. Sanjay Murthy, Prof Govindan Rangarajan, Director Indian Institute of Science, Bengaluru and Director, IIT Ropar were among prominent who were present at a panel discussion graced the occasion. In the panel discussion, delegates from France, the United Kingdom, Australia, India, Oman, South Africa, UNICEF, China and UAE were also participated.

Computation Laboratory in the Department of Civil Engineering of NITJ was inaugurated on January 05, 2023

Modernized Structural Analysis Laboratory in the Department of Civil Engineering of this institute was inaugurated on January 05, 2023.

Centre for Energy and Environment and Department of Chemical Engineering, National Institute of Technology, Jalandhar and IIChE DRC jointly organized an Expert Lecture by Professor Ajay K Dalai University of Saskatchewan, Canada on 'Clean Sustainable Energy Production for Pollution Abatement Using Bioprocessing Technologies' on February 20, 2023.

Centre for Energy and Environment invited Dr Kanwar Singh Nalwa, Department of Sustainable Energy Engineering, IIT Kanpur to visit Dr B R Ambedkar National Institute of Technology, Jalandhar on February 24, 2023 for direct PhD admissions at IIT Kanpur.

Department of Chemical Engineering and Centre for Energy and Environment NITJ jointly organized an Expert Lecture by Sh Vishal Khanna, Deputy Director, Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi on 'The Prime Minister's Fellowship for Doctoral Research Scheme' on March 17, 2023.

Makar Sankranti Celebration at NITJ Campus by the Team Cultural Affairs, Sanskrity Club and Regional Languages Club on January 13,2023

Celebration of Startup Day (In Collaboration with CSIO) on January 16, 2023

Department of Chemical Engineering of our institute organized an Expert Lecture by Professor Nitin Kaistha, Chemical Engineering IIT Kanpur on 'Process Degrees-Of-Freedom: An Intuitive Procedure' on February 22, 2023. He spoked about the degrees-of-freedom of a process and highlight the compelling simplicity of the approach to obtained steady state degrees-of-freedom of a process.

Dr Renu Gupta and Dr M K Jha visited the Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE), Kapurthala on February 21, 2023 to see various research laboratories and interacted with Research Scientists, M Tech and PhD students.

Blood Donation Camp organized at NIT Jalandhar on January 24, 2023

A memorandum of understanding (MOU) has been signed between Dr B R Ambedkar NIT Jalandhar and Postgraduate Institute of Medical Education and Research (PGIMER) on February 06, 2023

Celebration of International Women Day at NITJ on March 13, 2023

Celebration of Shaheed Diwas at NITJ on March 23, 2023

Three-days 'Exhibition and Mentorship program for Inter-Institutional Idea Competition (IIIC'23)' from February 10-12, 2023

Expert Talk on the topic of Emergence of India as a Global Power in Defence at NITJ on February 26, 2023

The annual cultural fest 'UTKANSH' has been organized at NITJ from March 24-26, 2023

Expert Talk on Preventing Suicide Breaking the Silence at NITJ on March 17, 2023

STUDENTS CORNER

Student's Accomplishments

During TechNITI 2023, SPICE Society, the official society of the Department of Instrumentation and Control Engineering at NIT Jalandhar, organized two highly engaging and intellectually stimulating events recently - Robo Hunt and Tricky Circuits. The first event, 'Robo Hunt', witnessed the participation of various teams comprising students from different engineering disciplines. The event was held on February 25 and the competition involved motor driven microcontroller based robot cars, that was previously designed by the organizing team members. The participants were given a set amount of time to programme the microcontroller and steer the robot car along the designated path. The participants put forth their best efforts to make their robots navigate through the challenging terrain and complete the tasks efficiently. The event provided an excellent platform for budding engineers to showcase their technical skills and innovative ideas. The second event, 'Tricky Circuits,' challenged the participants to design and implement complex electronic circuits within specified time limit using basic components like IC's, resistors, diodes, LED's, jumper wires.

The event aimed to test the students' understanding of Circuit Theory and their ability to apply theoretical concepts to practical scenarios. The participants were judged based on the performance, complexity, and efficiency of their circuits. Both the events witnessed enthusiastic participation from students, and the winners were awarded cash prizes. The events received an overwhelming response from the students and faculty members, who appreciated the efforts of the SPICE society in organizing such intellectually stimulating events. The events provide an opportunity for students to interact with industry experts, which can enhance their understanding of the practical applications of the concepts they learn in the classroom.

A team of four members from Literary and Debating Club, NIT Jalandhar bagged first position along with a cash prize of Rs 1 Lakh in the Dr D R Singh Memorial British Parliamentary National Debate Competition held on February 10-11, 2023. The team members included students from various streams of B Tech - Sanchita Kapur (ICE-3rd year), Vanshika Sharma (EE-3rd year), Naina Singla (ECE-2nd year) and Ashutosh Goswami (ECE-2nd year), who are all passionate debaters and have participated in umpteen competitions. This competition is held annually at Punjab College of Technical Education, Ludhiana for the past 13 years and is one of the most prestigious debating competitions in India. Sponsored and organized by the Ludhiana Management Association, this competition hosts few of the best debaters from colleges and universities across the country. This year's event was especially competitive, with 60+ registrations and teams vying for the top prize. Among the teams that participated were Dr. Ram Manohar Lohiya National Law University (RMLNLU) Lucknow, IIM Amritsar, IIM Jammu, IIT Ropar, Ramjas College, Hindu College-Delhi, Subodh Law college Jaipur and 55 more teams, all of which were considered strong contenders. Among these teams, it was NITJs team that emerged victorious because the team had regular practice sessions, where they honed their debating skills and researched potential topics. Another team from NIT Jalandhar also participated in the competition and debated against some of the nation's best law colleges. The team members included Kunwar Bansal (ICE- 3rd year), Anika Sharma (CSE- 3rd year), Bhavya Dhawan (ICE- 2nd year) and Anshika (IPE- 2nd year). Director Prof Binod Kumar Kanujia congratulated the students of LADC to bring laurels to the institute, and hope to strive for excellence to continue their winning streak in future events.

Zeal Society, Department of Humanities and Management and Team Techniti of our institute organized Treasure Hunt which was a Pre-Fest of Techniti 2023 on February 9-10, 2023. Prof Binod Kumar Kanujia, Director, NIT Jalandhar was the chief guest at the opening ceremony of Treasure Hunt 2023. Treasure Hunt'23 attracted a total of 150 teams comprised of 700 students from the institute.

Student society of Department of Biotechnology SOBER (Society of Biotech Engineers and Researchers) as part of the institute's technical fest organized BioMod event on Feb 27, 2023. Students were to build models in the theme bioremediation. The main objective of the event was to encourage innovative ideas, creativity, and learning among the students, and a platform for them to showcase their skills in the field of Bioremediation.

Two events were conducted by SOBER society as a part of the institute's technical fest. These events aimed to provide learning and entertainment to the participants. The events were organized on February 26, 2023 in the MBH Ground. The first event was Bio-Mime and total 70 teams that participated in the event. The second event was Organica-Hunt and total 81 teams that participated in the event. The two events conducted by SOBER society in the institute's technical fest were successful in achieving their objective of providing learning and entertainment to the participants.

'Inter-Institutional Idea Competition (IIIC'23): iDEAtHON' was organized by the Institution's Innovation Council (IIC) and Yukti 2.0 of this institute from February 3-5, 2023. The objective of the iDEAtHON was to motivate the students to provide out-of-the-box and novel solutions to fundamental problems in day-to-day life. Further, the iDEAtHON event aimed to bring all the students to a single exploring

platform (for Software and Hardware edition). The young and creative brains of various institutes and universities of different parts of Punjab along with the host institution participated in this 3-day event. Other institutes of Jalandhar who majorly participated are KMV, DAV, GNA, Amity University and many more. In the inauguration ceremony, Dean R&C, coordinator YUKTI 2.0, President IIC, NIT Jalandhar, welcomed the audience and briefed about the iDEAtHON event. The Chief Guest, Prof Binod Kumar Kanaujia, Director NIT Jalandhar, motivated the participants with his words of wisdom. In this event a total of 145 teams enrolled their ideas, after screening 68 teams presented their innovative ideas. The panels of judges from NIT Jalandhar evaluated the ideas on the basis of the originality, their impact on society and the clarity. At the end of the event, the winners were announced, and everyone cheered in celebration of their achievement. The event was a testament to the power of collaboration, creativity, and determination, and it left everyone feeling inspired and energized.

Institution's Innovation Council (IIC) and YUKTI 2.0, NIT Jalandhar, Punjab, India organized a three-day Exhibition and mentorship program of Inter-Institutional Idea Competition (IIIC'23), namely, MENTORED iDEAtHON from February 10-12, 2023. This exhibition and mentorship program aimed to provide a platform for the best young and creative brains to showcase their talents through poster presentations and interact with mentors. The motive of the event was to provide mentorship to the ideas and motivates them for Innovation.

HACKMOL 4.0, a TechNiti 2023 event, took place on February 25-26 at NIT Jalandhar. 59 teams were chosen to participate in the competition out of the 500+ participating teams from the various colleges, including IIT Roorkee, Punjab Engineering College, Chandigarh, Thapar Institute of Technology, Patiala, KIET, Ghaziabad, CIT, Chennai, Panjab University etc. The judges for this competition were Mr Akhil Kapoor from JMP Industries, Dr Sarbjit Singh, Principal Director of the Central School of Hand Tools under the Ministry of MSME for the Government of India. Very innovative ideas like developing android applications to disseminate information about life threatening situation developed within 24 hours of event to solve real time problems were taken up by winning teams.

Deptartment of Textile Technology of our institute has organized an expert talk for B Tech / M Tech / PhD students on February 1, 2023. The details of expert talk are as follow.

- Mr Tanishq Awasthi, Scientist-B, Textiles Department, Bureau of Indian Standards, delivered a talk on 'Standardization in the field of technical textiles for aggrotech applications'.
- Mr Swapnil, Scientist-B, Textiles Department, Bureau of Indian Standards, delivered a talk on 'An overview of standardization activity of Bureau of Indian Standards (BIS)'.

All India Inter-NIT Women's Cricket tournament held at NIT Rourkela from January 28-30, 2023. First-Year CSE Students Naseem Akhtar, Vandana Sah, Prabhpreet Kaur and Anita Sai Participated in the and secured 1st Runner-Up position.

Rashmi Kumari, Third Year CSE, participated in All India Inter NIT Sports meet 2023 volleyball (women) held at Surathkal from January 20-22, 2023. The women's team played in quarter finals and won a match against NIT Agartala.

NITJ has been got 4th position in Inter Technical Institutes Football Tournament at Thapar, Patiala, Punjab.

Ms Arshpreet Kaur, Ph D Research Scholar participated in the 'Tech Startup - Connect & Grow' program under PSCST's SHE (Startups' Handholding & Empowerment) Initiative to promote women entrepreneurship in Punjab. From a pool of about 500 candidates that underwent a thorough screening process, her startup/idea has been selected to proceed to the next stage. She attended the 2-week mentorship workshop conducted by IISER-Mohali, in partnership with PSCST, between February 21 and March 4, 2023.

Sarkar Saima Islam (21103134) was a finalist of the National level championship, Nutrileaders Hunt (aired in National TV channel) and selected to make a short film by the Bangladesh Government in the program held at Bangabandhu International Conference Center, Begum Rokeya Avenue, Dhaka 1207, Bangladesh.

Ms Lalitha Shree M Tech Renewable Energy has been offered Internship of 2 months under Khorana Program for Scholars 2023, being conducted with the joint support of the Department of Biotechnology (DBT), Govt. of India, Indo-U.S. Science and Technology Forum (IUSSTF) and WINStep Forward (WSF). Ms Lalitha Shree will visit the State University of New York, USA from May 19, 2023 to July 31, 2023.

A logo designing competition was organized by Cybernauts Society of IT department on March 29, 2023. Total teams participated in the competition were 21 were winner team and runner-up team were distributed trophies.

STUDENTS PLACED AT MICROSOFT - CTC 52 LACS

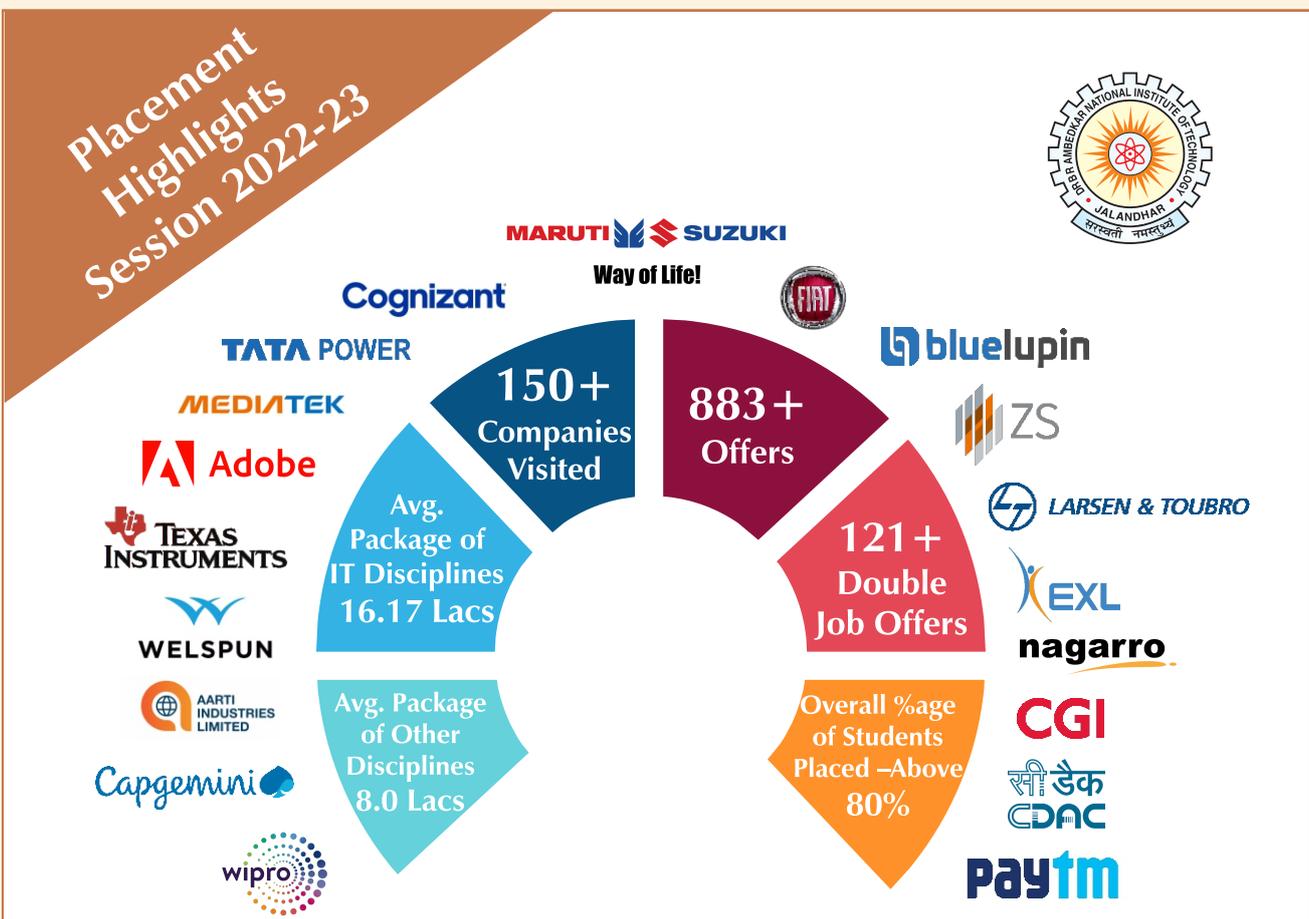|				
Shivam Sood	**Harshit Sharma**	**Gagan Walia**	**Tarush Gupta**	**Jainam Sogani**
Prince Mishra	**Harsh Kriplani**	**Shreenav Khandelwal**	**Jaideep Singh Sikri**	**Rohan Bansal**
Keshav Varshney	**Amit Pandey**	**Tanav Aggarwal**	**Amanpreet Singh**	**Vansh Makhija**

Following students of NIT Jalandhar secured ranks within top 100 in GATE 2023

Department	Name of Student	AIR
Biotechnology	Gurjant Singh	4
	Shreya	6
Electrical Engineering	Arun Singh	11
	Priyanshu Mudgal	21
Textile Technology	Rahul Rajpurohit	21
	Anshika Rajput	37
	Pankaj Kumar	62
Chemical Engineering	Hatif Haider Khan	18
	Nishant Vashisth	70
	Amit Kumar Dhiman	97

Dr B R Ambedkar National Institute of Technology, Jalandhar — Branch Wise Average Package (Lacs of Rs.) in 2022-23 Session

Placement Offers Above Rs. Ten Lacs Per Annum 2022-23 Session — Annual Package Range (Lacs Per Annum)

Dr B R Ambedkar National Institute of Technology, Jalandhar — Branch Wise Placement Percentage – 2022-23

Placement Highlights Session 2022-23

150+ Companies Visited

883+ Offers

Avg. Package of IT Disciplines 16.17 Lacs

121+ Double Job Offers

Avg. Package of Other Disciplines 8.0 Lacs

Overall %age of Students Placed –Above 80%

FACULTY ACCOMPLISHMENTS

Patent Granted

Srinivas, T, Combined cooling and power system, Application No.2622/CHE/2011, Patent No.421021.	Mahesh Kumar Sah, A Bhardwaj, Lalit K Awasthi, HEAD PPE MASK, Design patent Application No. 332812-001 (Registered/ Granted: 16-02-2023).

Sponsored Research Projects Granted

Name of Project	Principal Investigator	Co-PI	Funding Agency	Amount ₹
Development of smart magneto-rheological elastomers, gels, and fluids using metal oxide-carbon nanofibers and liquid metals	Dr. GIRl BABU		SERB-EEQ	41,82,588
Selective Depolymerization of Technical Lignins to Functional Chemicals	Dr Anjireddy Bhavanam	Dr Jayeeta Bhaumik, Scientist E, CIAB Mohali, Dr D Giri babu	DBT	39,60,264
Design and development of System on Chip based next generation IoT System for Industry 4.0 with Functional Safety and Security Features	Dr Ashish Raman		MeitY	96,00,000
Adaptive methods for channel and RF front-end equalization in NOMA systems	Dr. Asutosh Kar	Dr. Sandeep (NITK)	DST	14,29,500
Role of Blockchain in Higher Education Management: Present and Future Application in Punjab Region	Dr Sonia Chawla	Dr Gyan Prakash	ICSSR	2,00,000
Conversion of exsisting wheelchair into BCI controlled smart wheelchair	Dr Rajesh Singla		BNB Medicare India Pvt. Ltd	2,20,000
Development and analysis of magnetically-assisted variable flow abrasive-based finishing	Dr Aviral Misra	Vishal Santosh Sharma	DST-SERB	35,82,246
Development of Automated Deposition Head for 3DPrinting of Continuous Fibre Reinforced High-Performance Polymer Composites	Dr Narendra Kumar		DST-SERB -CRG	54,12,264
Development of UV Assisted 3D Printing System for PCB Manufacturing	Dr Narendra Kumar		ISRO	18,85,500
A Study of QQR property and Estimation & Commutative Rings with totally ordered Set of intermediate Rings	Dr Ravinder Singh		NBHM (DAE)	2,37,500
Design and development of a PCM Integrated solar air heater for 24 hours hot air supply	Dr Satyender Singh		DST-SERB -EEQ	27,18,804
Development, Characterization and Analysis of Hybrid Chemomechanical Magnetorheological Abrasive Finishing for Biomedical Applications	Dr Harpreet Singh		DST-SERB- CRG	32,18,040
Preparation And Studies Of Energy Efficient Semiconducting Quantum Dots-Liquid Crystal Composites For Next Generation Display Devices	Dr Praveen Malik		DST-SERB- CRG	36,41,264
Development and manufacture of Ultra High Molecular Weight Polyethylene (UHMWPE) nano-fabrics and its composite for reusable respiratory masks	Prof A Mukhopadhyay	Dr Palaniswamy N K and Dr N Gobi	NTTM, Ministry of Textile	55,00,000

Professor Mithilesh Kumar Jha, Dept of Chemical Engineering.

➢ Nominated as External member of the committee to evaluate the claims over technical specifications for Ash Fusion Analyzer procurement at Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala on March 22, 2023.

➢ Nominated as Member of Research and Development Committee for PhD Scholar of the Department of Chemical Engineering under School of Chemical Technology at Harcourt Butler Technical University, Kanpur on March 21, 2023.

➢ Nominated as External Subject Expert in the screening cum evaluation committee for promotion to the post of Associate Professor and Assistant Professor at Sant Longowal Institute of Engineering Technology, Longowal on March 01, 2023.

➢ Nominated as Member Honorary Fellowship Committee by Indian Institute of Chemical Engineers Kolkata on February 10, 2023.

➢ Appointed as Associate Editor of Indian Chemical Engineer (ICE), a Taylor and Francis Journal published by Indian Institute of Chemical Engineers from January 17, 2023.

➢ Delivered invited lecture on the topic entitled 'Opportunities for B Tech Students in Petroleum Industry' at Govt. Engineering College, Banka (Bihar) on February 27, 2023

Prof A Mukhopadhyay chaired session (Session G04 - Particle-Collector-Interaction) in conference FILTECH 2023 at Cologne, Germany on February 14, 2023.

Dr Tangellapalli Srinivas, Dept of Mechanical Engineering

➢ Received the **Innovative Teaching Award** at the 2nd Leadership Convention on 'World is One', organised by the World Leadership Academy and Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Orissa on February 25, 2023.

➢ Delivered invited Lecture on the topic entitled 'Thermodynamics Concepts in Renewable Energy systems using MATLAB', Value added Course - "Renewable Energy Technologies for Sustainable Systems – (RET-S2)", VIT University, Vellore on February 4, 2023.

➢ Delivered invited Lecture on the topic entitled 'Course and Programme Evaluation for Outcome-based Education', organized by Internal Quality Assurance Council (IQAC), Vellore Institute of Technology, Velore, Tamil Nadu during the Quality Week-2023 on March 1, 2023.

Dr L P Singh, Dept of Industrial and production Engineering,

➢ Receive the 'International Ergonomics Association' 2022 IEA/Kingfar ECR Award for Research in Human Factors and Ergonomics Issues.

➢ Expert of the two exclusive Workshops, one on Ergonomics for Tractor Design at Sonalika ITL Hoshiarpur, on dated January 4, 2023, another workshop on Project Time Management on March 14, 2023.

Dr Mukesh Bajya, Dept of Textile Technology has delivered an expert talk on google meet 'An overview of Technical Textile' in NIFT Shillong on February 25, 2023.

Dr Zunjarrao Bapuso Kamble, Dept of Textile Technology has delivered an expert talk on 'Composites: Introduction, fibres used and manufacturing' in Online mode for the B Tech students of Department of Textile Technology, Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra on February 17, 2023.

Dr Rohit Mehra, Dept of Physics has delivered an expert lecture on 'Inductively Coupled Plasma Mass Spectrometer' and 'Atomic Absorption Spectrophotometer' in 'Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) organized by National Institute of Technology Jalandhar and National Institute of Technology Warangal from February 6-12, 2023.

Dr S K Pahuja, Dept of Instrumentation and Control Engineering, has delivered expert lecture on 'Modeling and Simulation of Physiological Systems' in Refresher Course in Biomedical Engineering Department, NEHU on March 6, 2023.

Dr Sangeeta Garg, Dept of Chemical Engineering has attended the International Conference on 'Polymers for Advanced Technology', APA GOA 2023 and presented a paper titled, 'Enhancement in optical properties of PVA films embedded with CdSenanorods for packaging application' from February 23-25, 2023.

Dr N K Srivastava, Dept of Chemical Engineering has been invited as 'Organizing Committee member' for the 5th Global Conference & Expo on Nanoscience and Nanotechnology (ISTRNANO-2023) which will be held during October 18-19, 2023 at Rome, Italy.

Dr Mahesh Kumar Sah, Dept of Bio Technology

➢ Invited participant for DST sponsored industry-academia conclave organized by Chitkara University Technology Enabling Centre (CU-TEC) on March 4, 2023.

➢ Invited as Judge panel member for the INNO-TECH-2023 from March 18-19 2023, Science City Kapurthala on the theme "Sustainable Development & Environment Conservation" to commemorate the 75th anniversary of the India's Freedom. More than 300 student's projects were evaluated.

D P Tripathi, Deputy Librarian

➢ Delivered talk as a Resource Person conducted by 'Ranchi University, Ranchi' on the topic 'Digital Skills for Librarians and Librarianship' on February 23, 2023.

➢ Delivered talk in the Online Workshop conducted by UGC Human Resource Development Centre (HRDC) Sambalpur University on "Emerging Trends & Technologies in Library and Information Services during March 23-24, 2023.

Dr Rajneesh Rani, Dept of Computer Science and Engineering

- ➢ Delivered lecture on the topic 'Role of Artificial Intelligence in Machine Vision' in the Refresher Course of Artificial Intelligence and Machine Learning Organized by the UGC- Human Resource Development Center, Punjabi University, Patiala on January 14, 2023.
- ➢ Attended the Board of Studies meeting for finalizing the syllabi of B Tech and Dual Degree Programmes in Computer Science and Engineering Department, NIT Hamirpur on March 3, 2023.

Dr Jagdeep Kaur, Dept of Computer Science and Engineering was the Session Chair on March 3, 2023 for the 3rd International Conference on Information Technology- InCITe 2023 Next Generation Technology Summit on the theme "Decision Intelligence: Transform your World" from March 2-3, 2023 at Amity University Noida, Uttar Pradesh.

Dr K P Sharma, Dept of Computer Science and Engineering has served as an external examiner for the final dissertation viva-voce examination of M Tech (CSE) Student of the department of CSE, GB Pant Agriculture, and Technological University Uttrakhand on March 28, 2023.

Dr Shefali Arora, Dept of Computer Science and Engineering has delivered an expert lecture at CT Institute of Engineering, Management and Technology, on 'Explainable AI and its Applications' on March 7, 2023.

Dr Mohit Kumar, Dept of Information Technology

- ➢ Delivered a lecture on 'Security Issues in Cloud Computing' in 5 days FDP on 'AI in Multimedia Processing and Security' organized by Dept. of Computer Science & Engineering, NIT Patna, Bihar from Feb 18-22, 2023.
- ➢ Delivered a lecture on IoT in 5 days FDP on 'IoT and its Application' organized by Dept. of Computer Science & Engineering, BIT, Maharastra from March 27-31, 2023.

Dr Balwinder Raj, Dept of Electronics & Communication Engineering

- ➢ Delivered a talk on 'Vertical TFET based ONOFIC for Low Power VLSI Design', Indo-Slovenia Joint Workshop organized by IIT Indore on February 20, 2023.
- ➢ Invited as Resource Person to deliver expert talk in STC conducted by Centre for Development of Advanced Computing, Mohali on March 10, 2023
- ➢ Invited to the Board of Studies meeting of department of Electronics and Communication Engineering, University Institute of Engineering, Chandigarh University, March 03, 2023.

Dr Shyamkiran Kaur, Dept of Humanities and Management,

- ➢ Evaluation Panel Member, Session Chair and Scientific Committee Member in the 6th International Conference on Future of Women 2023 entitled 'Empowering Women, Powering the Future' organized by University of Witwatersrand, Johannesburg South Africa, University of Free State South Africa, University of Ibadan, Nigeria, University of Mauritius, Durban University of Technology, Allameh Tabataba'i University, Iran, Institute of Business Management Pakistan, TIIKM held from February 23 – 24, 2023.
- ➢ Invited as a subject expert in Kendriya Vidyalaya CRPF Jalandhar on March 3rd and 4, 2023.

RESEARCH PUBLICATIONS

International Journals

NIT Jalandhar has recorded a total of *478 Scopus Publications* (2023) as of May 22, 2023.

Book Chapters

1. Pall, A. S., Sharma, N., Sharma, K. P., & Wadhwa, V. (2023). A Systematic Review of Deep Learning Techniques for Semantic Image Segmentation: Methods, Future Directions, and Challenges. *Handbook of Research on Machine Learning*, 49-86.
2. Dev, J., Mangla, M., Sharma, N., & Sharma, K. P. (2023). Time Series Forecasting Techniques for Infectious Disease Prediction. In *Handbook of Research on Machine Learning* (pp. 269-287). Apple Academic Press.
3. Sharma, S., & Rani, R. (2023). A Comprehensive Review on State-of-the-Art Techniques of Image Inpainting. *Advancement of Deep Learning and its Applications in Object Detection and Recognition*, 231-259.
4. Yadav, A., Agrawal, M., & Srivastava, R. K. (2023). Emulsion templated three-dimensional porous scaffolds for drug delivery. In *Fiber and Textile Engineering in Drug Delivery Systems* (pp. 389-416). Woodhead Publishing.
5. Mawkhlieng, U., Bajya, M., & Majumdar, A. (2023). Shear Thickening Fluid–Based Protective Structures Against Low Velocity Impacts. In *Shear Thickening Fluid: Theory and Applications* (pp. 115-138). Cham: Springer International Publishing.
6. Das, P., Roy, M. D., & Ghosh, S. (2023). Implantable medical devices by using textile materials. In *Functional and Technical Textiles* (pp. 521-542). Woodhead Publishing.
7. Singh, H., & Chatterjee, A. (2023). Lignocellulosic biowaste for composite applications. In *Functional and Technical Textiles* (pp. 639-678). Woodhead Publishing.

INSTITUTE RANKING

World University Ranking 2023
- NITJ Ranking amongst Global Universities/Institutes under **Engineering Category**

Year :	2023	2022
Ranking Band :	601-800	801-1000

Dr B R Ambedkar National Institute of Technology Jalandhar

World University Ranking 2023

NITJ has been ranked in the THE (Times Higher Education) **WORLD UNIVERSITY RANKING - 2023** In the ranking band of 1001 - 1200

Dr B R Ambedkar National Institute of Technology Jalandhar

Ministry of Education Government of India — INDIA RANKINGS 2023
- NITJ Ranked 46th in Engineering Ranking
- NITJ Ranked 72nd in Overall Ranking

Dr B R Ambedkar National Institute of Technology Jalandhar

India University/Institution Rankings 2023
- NIT Jalandhar Ranked 45th amongst All Indian University/Institutes according to Total H index

Dr B R Ambedkar National Institute of Technology Jalandhar

Placements/Internships for PG Students

MEDIA COVERAGE

DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR

Dr B R Ambedkar NIT Jalandhar is launching new Programmes in academic year 2023:

PhD:
➤ **Sports & Healthcare**

Department/Programmes (M.Tech)
(Both CCMT and Self Sponsored)
(Duration : 2 Yrs.)

➤ **Industrial Engineering and Data Analytics**
➤ **Manufacturing Technology and Machine Learning**
➤ **Signal Processing and Machine Learning**
➤ **Data Science**
➤ **Data Analytics**
➤ **Electric Vehicle Design**

Under Graduate Programmes (B.Tech)
➤ **Electronics and VLSI Engine**
➤ **Data Science and Engineering**

Integrated B Tech- MBA (Joint program with IIM Amritsar)

4-Year Integrated Teacher Education Programme (B Sc-B Ed)

Direct PhD Admission in IIT Madras

THE WORLD UNIVERSITY RANKINGS
THE 2023
Ranking Band
(601-800)

nirf
NIRF 2023 All India Rank 46
(Engineering)
10th amongst NITs

Citations 64591
Faculty 234

Achievements @NITJ

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