



National Institute of Technical Teachers Training and Research, Chandigarh

Volume 14, No. 1  
(January– March, 2023)

# Newsletter

NITTTR, Chandigarh welcomes Professor BR Gurjar on joining as Director on 1st March, 2023



## Message from Professor BR Gurjar, Director

My greetings to all the stakeholders and well wishers of the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh who are connected with NITTTR Chandigarh through its newsletter. As you are aware, under the aegis of the Ministry of Education, Govt. of India, NITTTR Chandigarh is a leading resource institute dedicated for the continuous improvement of the quality and promotion of excellence in the teaching-learning arena of technical education. The role of NITTTR Chandigarh becomes more important when our country is implementing National Education Policy (NEP) 2020, which lays emphasis on Continuous Professional Development (CPD) and Career Management and Progression (CMP) of teachers.

In addition to various programs and accomplishments, this newsletter will help you learn about activities undertaken by NITTTR Chandigarh during January-March 2023 from the perspective of NEP 2020. With the reference of NEP 2020, let us all resolve to work hard to help the institute contribute in making our nation self-reliant (i.e. Aatma Nirbhar Bharat) by developing innovative methods and tools to train the technical teachers so that they can harness their full creative potential to further impart the quality education to the new generation. Please feel free to write to us on what else can be done for achieving holistic education, teacher training and research. Wish you a happy reading!

## 'International Conference on Artificial Intelligence of Things'

Springer CCIS Series (ICAIoT-2023) was organized by CSE, ECE and EE departments of NITTTR Chandigarh from 30 – 31 March 2023. The inaugural session was graced with the presence of Prof. Kamal Kishore Pant, Director IIT Roorkee as Chief Guest of the event, Prof. SA Ramakrishna, Director, CSIO Chandigarh as Guest of Honour, Prof. Bhola Ram Gurjar, Director NITTTR Chandigarh, Dr. Vipin C. Shukla, Scientist 'F' & Member Secretary, A2K+ Events and Dr. Ranjeet Bairwa, Scientist E and Dealing officer for this conf., A2K+ Events, DSIR, Ministry of Science & Technology, Govt. of India, New Delhi.

An overwhelming response had been received from the delegates across the country as well as from countries like UK, Saudi, Vietnam, Nepal, and Singapore. 60 papers, selected out of 400, were divided into 8 tracks, categorized into recent themes of AI, IoT & Industry 4.0. The invited talks were delivered by various experts. Prof. Math Bollen, Luleå University of Technology, Sweden addressed the significance of continuous data collection from supervised learning.

Dr. Kalaivani Chellappan, Universiti Kebangsaan, Malaysia talked about role of AIoT Energized Treatment Compliance and highlighted the research findings of AI in medical and digital healthcare. Dr. Mani Madhukar, Program Manager, IBM India Pvt. Ltd. talked about AI for AI. Dr Gagangeet Singh Aujla from Durham University, UK spoke about Electric Vehicles as a Service. Prof. Rajesh Kumar, MNIT Jaipur, gave insight of AI. The conference was sponsored by DSIR, Ministry of Science & Technology, Govt. of India, New Delhi. Dr. Sujatha Chaklanobis and Dr Ranjeet Bairwa of A2K+ Events provided their support. Conference Chairs including Prof. C. Rama Krishna, Dr Gagangeet Singh Aujla, Prof. Lini Mathew, Prof. Amod Kumar shared their heartfelt appreciation and gratitude to Springer, DSIR, advisory & technical programme committee, delegates & reviewers for their support.



## 11th Annual Alumni Meet



NITTTR, Chandigarh organised the 11th Annual Alumni Meet on 27th March, 2023. Prof. (Dr.) Bhola Ram Gurjar, Director, NITTTR, Chandigarh welcomed all the dignitaries and alumni of the institute and presided over the meet which was attended by around ninety alumni and faculty members of the institute. Prof. Gurjar highlighted the importance of the alumni contribution in the development of the institute.

The alumni shared their memories & experiences and reconnected with old friends & faculty members. During brainstorming session, alumni shared their views & ideas for improving the quality of technical education and stressed upon creating research hub with eminent R & D organisations. Prof. Poonam Syal, Chairperson, Alumni Activities interacted with Alumni on future roadmap for next five years of our institute.

## Parakram Diwas Celebrations

The institute celebrated the Parakram Diwas on 23rd January, 2023. Dr Harsh Vardhan Samalia, Associate Professor and the coordinator of the event briefed the faculty, staff and students about the significance of 'Parakram Diwas' highlighting the sacrifices made by Netaji Subash Chandra Bose for our country's freedom and development. The Parakram Diwas celebration witnessed the address by Prof. SS Pattnaik, the Director of the institute wherein he not only stressed on the key role played by Netaji and Azad Hind force but also talked about the various traits and qualities of a leader shown by Netaji in leading the Azad Hind force. He urged all the faculty, staff and students of the institute to inculcate and imbibe those traits and qualities in order to fulfil the dream of Netaji Subash Chandra Bose of India as the biggest economic as well as social superpower of the world. Dr Binayak Dutta, Assistant Professor, History Department, North Eastern Hill University, Shillong in his invited talk emphasized about the importance of Azad Hind Force in India's independence along with impact of Netaji on India's freedom movement across the globe. He also outlined the Netaji Subash Chandra Bose's role in mobilizing the youths in North Eastern states of the country.



## Yuva Sangam Programme

Ministry of Education, Government of India has conceptualized an initiative of 'Yuva Sangam' under Ek Bharat Shreshtha Bharat (EBSB) to strengthen people-to-people connect and build empathy between youth of the North Eastern States and other States of our country. NITTTR Chandigarh was paired with NIT Silchar. Students from Chandigarh visited Silchar and students from Assam visited Chandigarh.

Out of 180 registrations, 45 students were selected from various colleges of Chandigarh region (viz. MCM DAV College, Chandigarh University, Panjab University, Chitkara University, NITTTR Chandigarh etc.). The students from Chandigarh visited Silchar, Assam from 23rd February, 2023 to 1st March, 2023. Flag off ceremony for the visit of Chandigarh students to Silchar Assam was organized at NITTTR Chandigarh. Prof. (Dr.) Baldev Setia, Director, Punjab Engineering College, Chandigarh flagged off on 23rd February, 2023. The students visited many places at Silchar Assam specially Tea processing Industry, Sonbeel Wetland of Silchar, various labs such as Robotics lab, Condition Monitoring lab, and Advanced Biofuel lab of NIT Silchar. Students from Chandigarh showcased their culture through Bhangra and dance at NIT Silchar Cultural Programme. Also all students of Chandigarh had essence of North East cuisine and life style.

22 students and 3 faculty members from Assam visited NITTTR Chandigarh from 27th February, 2023 to 4th March, 2023. Students visited many places like Anandpur Sahib, Veerasat- e Khalsa, Sports complex of Patiala, Kurukshetra, Art and Museum Gallery of Chandigarh, Gandhi Bhawan in Panjab University, etc. Students also experienced Kirtan and Dance at ISKCON Temple. They enjoyed taking langar at Gurudwara as well as prasadam at ISKCON temple. Students met Meerabai Chanu and Jeremy, Commonwealth Gold Medal winners in the Sports Complex of Patiala. On the last day, Governor of Punjab, His Excellency, Sh. Banwarilal Purohit ji met the students in Punjab Raj Bhawan in the presence of Prof. BR Gurjar, Director of the institute. Students shared the culture of North East with them.



## Republic Day Celebrations

Republic Day was celebrated at the institute with great zeal on 26th January, 2023. Prof. SS Pattnaik hoisted the flag and addressed the gathering about our duties and rights as a responsible citizen. The celebrations were attended by faculty, staff (along with their families) and scholars of the institute. Several Professors, other faculty/staff members enriched the occasion with highly motivated speeches and citing features of constitution and development of nation. In addition, a cultural program (Dance representing culture of India, Mini Skit, Poem recitation, etc.) was organized in auditorium on the occasion.



## Institute Participation in 13th Inter-NITTTR Sports Tournament

13th Inter-NITTTR Sports tournament was held at NITTTR Chennai from March 20 – 23, 2023. The institute won medals as following : (a) Badminton Singles (Men): Dr Harsh Somalia – Gold; (b) Badminton Doubles (Men): Prof Ajay K Duggal & Dr Harsh Somalia – Gold; (c) Badminton Singles (Women): Dr Meenakshi Sood – Gold; (d) Badminton Mixed Doubles: Dr Meenakshi Sood & Sanjeev - Gold; (e) TT Mixed Doubles: Prof Ajay K Duggal & Meena Sharma – Gold; (f) TT Doubles (Women): Dr Meenakshi Sood & Meena Sharma – Gold; (g) Carrom (Women): Dr Maitreyee Dutta – Gold; (h) TT Singles ( Women): Meena Sharma – Silver; (i) Carrom (Mixed Doubles): Dr Maitreyee Dutta & Dr UN Roy – Silver; (j) Vollyball ( Men): Silver; (k) Chess (Men): Pradeep Bansal – Silver; (l) TT Doubles (Men): Prof Ajay K Duggal & J P Tungal- Bronze; (m) TT Singles (Men): J P Tungal – Bronze; (n) Carrom (Men): Dr U N Roy – Bronze; (o) Auction Bridge (Cards): Dr Sanjay Sharma & Dr Rakesh Wats – Bronze; (p) 100 m race – Bronze. Prof Ajay K Duggal was Overall co-ordinator and Prof P K Singla was Co- coordinator.

## एक दिवसीय हिंदी कार्यशाला का आयोजन

एक दिवसीय हिंदी कार्यशाला का आयोजन संस्थान में दिनांक 24.03.2023 को किया गया। इस कार्यशाला में संस्थान के 36 अधिकारियों एवं कर्मचारियों ने भाग लिया। कार्यशाला का उद्घाटन करते हुए संस्थान के निदेशक महोदय डा0 बी आर गुर्जर ने प्रतिभागियों को हिंदी में अधिक से अधिक काम करने के लिए प्रेरित किया एवं राजभाषा के प्रति सभी को अपनी-अपनी जिम्मेदारी निभाने का संदेश दिया। निदेशक महोदय ने हिंदी में काम करते समय कठिन शब्दों के प्रयोग से बचने और आम बोलचाल के शब्दों का ज्यादा प्रयोग करने पर बल दिया ताकि सभी लोग इसे समझ सकें। कार्यशाला के हिंदी अनुवादक श्री संजीव कुमार सिंह ने सभी सहभागियों को राजभाषा अनुपालन के प्रावधानों, मानक देवनागरी लिपी एवं हिंदी वर्तनी के मानकीकरण तथा कार्यालयों में दैनिक उपयोग में आने वाले हिंदी शब्दों और वाक्य सांचों के बारे में विस्तार से जानकारी दी।



## Meeting of the Academic Council

26th Meeting of the Academic Council was held on 1st February, 2023. The meeting was chaired by Professor SS Patnaik and was attended by Mr. SP Garnaik, Executive Director, EESL, New Delhi; Mr. Supreeth Nagaraju, Head, Education, Adobe Systems India Pvt. Ltd., Bangalore and all Professors of the institute. Dr. Maitreyee Dutta, Dean (Academics and R & D) was the Member Secretary, Academic Council.

## Celebration of International Women's Day

International Women's day is celebrated to recognize the achievements & strengths of the women. The institute celebrated the event on 10th March, 2023. In his inaugural address, Prof. SK Dhameja, NITTTR Chandigarh talked about gender equality and role of women in society building and embracing everyone without bias. Mrs. Jyoti Chowdhary, Advocate, Punjab & Haryana High Court addressed Faculty, staff and students on this occasion.



## National Voters Day

National Voters' Day (NVD) is celebrated across the Country on 25th January, every year. The theme of NVD celebration for this year is "Nothing like voting, I vote for sure." All Deans/ HODs/ Section In-Charge, administered the NVD pledge to all faculty, staff and students on the occasion.

## HRD Endeavour

5803 participants were trained by NITTTR Chandigarh during January-March, 2023 quarter by conducting 83 STCs/FDPs, workshops, and other activities. This includes 40 STCs conducted through Online Mode attended by 4915 participants and 43 offline STCs attended by 888 participants.

Prof. SS Gill & Dr. Meenakshi Sood conducted the three Consultancy training programmes: (a) Trade Specific Training for Instructors of Engg. Drawing on 'Workshop Calculation' in Uttarakhand from 09 -18 January, 2023; (b) Residential Training Programme on 'Advanced Pedagogy' for Foremen/ Instructors in Uttarakhand from 13 - 18 February, 2023; and (c) Competency Updation in Emerging Technologies for instructors of ITIs of Punjab from 02 - 07 March, 2023.

## Faculty Corner

- The institute has registered for National Digital Library Club (NDLI Club), the initiative of Ministry of Education (MOE), Government of India, through its National Mission on Education through Information and Communication Technology. It has repository of books and other educational content for use by the students, staff and faculty.
- Dr. Sunil Dutt, Professor, EMGT successfully uploaded the institute data on AISHE (All India Survey on Higher Education, Ministry of Education) Portal for 2021-22 on 13th January, 2023 as a Nodal Officer.
- Dr. Ritula Thakur presented a paper on "Three Phase Multilevel Switched Capacitor Inverter for Low/High Voltage Applications using PD-PWM Technique" in IEEE IAS Global Conference held at The Maldives National University, Male City, Maldives during 11-12 March, 2023. She chaired a technical session & received a certificate of appreciation.

- The institute faculty coordinated Six MOOCs through SWAYAM Portal as per detail given below:

S. No.	Title of MOOC	Name of Coordinator(s)	Number of Participants	Dates
1.	Communication Skills, Modes & Knowledge Dissemination	Er. Amandeep Kaur	3432	30 January – 31 March, 2023
2.	Development of Self Learning Material	Dr. Sunil Dutt	1016	30 January – 31 March, 2023
3.	Education Video Production	Dr. Maitreyee Dutta / Dr. SS Pattnaik	1275	30 January – 31 March, 2023
4.	Entrepreneurship Development	Dr. SK Dhameja	2721	30 January – 31 March, 2023
5.	Graphics and Animation Development	Er. Shano Solanki	2945	30 January – 31 March, 2023
6.	Research in Technical Education	Dr. PK Tulsi / Dr. Sunil Dutt	655	30 January – 31 March, 2023

- Three Ph.D. Scholars appeared for their final Viva-voce examination as per detail given below:

Name of Ph.D. Scholar	Title of Thesis	Date of Viva-Voce	Name of Supervisor(s)
Sh. Rajeev Kumar	Performance Evaluation of Nanoparticles based Lubricants on Static Thermal Behaviour of Circular Journal bearings	02.02.2023	Prof. SS Dhami, Professor and Prof. Amit Chauhan, UIET, PU, Chandigarh
Sh. Smruti Ranjan Pradhan	Investigation on Crown Fabrication using Additive Manufacturing for Veterinary Applicatio	13.03.2023	Prof. SS Banwait and Prof. Rupinder Singh, Mechanical Engineering, NITTTR, Chandigarh
Sh. Yeole Sanjay Ashok	Strengthening of High Performance Concrete Beam Column Joints Using Fibre Reinforced Polymer	22.03.2023	Prof. SK Sharma and Prof. HK Sharma, Civil Engineering, NIT, Kurukshetra

## Synergy with Peers

- A Memorandum of Understanding (MOU) was signed between NITTTR Chandigarh (Prof. SS Pattnaik, Director) and NIT, Uttarakhand Srinagar Garhwal (Prof. Lalit Kumar Awasthi, Director) on 23.01.2023.
- A Memorandum of Understanding (MOU) was signed between NITTTR Chandigarh and Khalsa College of Engineering and Technology, Amritsar (Director, KCET, Amritsar) on 15.02.2023.
- A Memorandum of Understanding (MOU) was signed between NITTTR Chandigarh (Prof. SS Pattnaik, Director) and Indian Institute of Technology, Ropar (Prof. Rajeev Ahuja, Director) on 21.02.2023 for jointly offering M.Tech/MS in Engineering Education and credit based training programmes in specific areas.
- A four days Dental Health Awareness & Check-up Camp was organized in collaboration with SpringUp Health Care for faculty, staff, students & their families from 17-20 January, 2023. During the camp, basic understanding of dental hygiene, preventive techniques & dental health awareness issues were thrown light by the experts.



## Industrial visit to understand processing of Millets & Value-added Products

The staff of NITTTR Chandigarh and participants of the short term course from CT Institute of Engineering management and Technology Jalandhar visited at Gurdaspur Organic Producer Company limited to understand the processing of millets and millet based value added products on 23 January 2023. The company had millet dirt removal machine and husk removal machine. Both machines work independently and powered by electricity.



## Joining Golden Ager Club

Superannuation	
	Shri Vijay Kumar Sharma 28.02.2023 Section Officer, Academic Cell

**National Institute of Technical Teachers Training and Research Sector 26, Chandigarh – 160 019 (INDIA)**  
(0172 - 2759500, Fax: 0172 - 2793893, 2791366)

Email: [director@nitttrchd.ac.in](mailto:director@nitttrchd.ac.in), [dirtitttrchd@yahoo.com](mailto:dirtitttrchd@yahoo.com),  
Website: [www.nitttrchd.ac.in](http://www.nitttrchd.ac.in)

**Chairman:** Professor (Dr.) Sunil Dutt  
**Team:** Dr. Ashok Kumar, Dr. Mala Kalra,  
Er. Amandeep Kaur,  
Dr. Ritula Thakur (Member Convener)  
**Published by:** NITTTR, Sector 26, Chandigarh  
**Designed by:** Dr. Suniti Dutt & Mr. Prerak Mittal  
(Department of Media Engineering)