



ANNUAL REPORT 2024-25

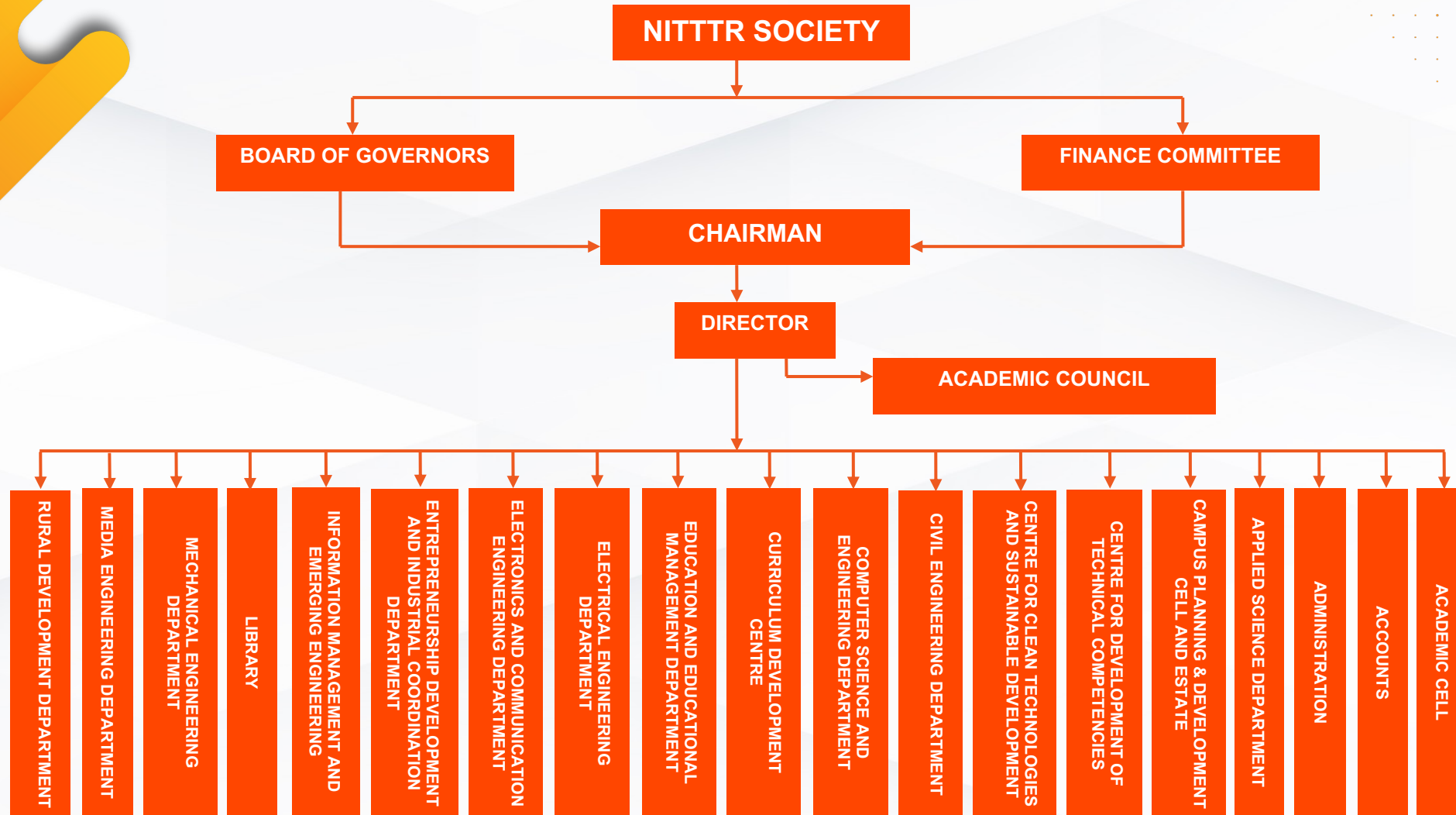
Teaming Together

National Institute of Technical Teachers Training and Research

*(Deemed to be University under Distinct Category,
Ministry of Education, Government of India)*

Sector – 26, Chandigarh – 160 019 (India)

ORGANISATIONAL STRUCTURE OF NITTTR CHANDIGARH



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ORGANIZATIONAL STRUCTURE

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LIST OF HON'BLE MEMBERS OF THE NITTTR CHANDIGARH SOCIETY AS ON 31.3.2025

Sr. No.	Constituency	Name
1.	Hon'ble Chairman	Prof. V G Talawar
2.	JS (TEL) Govt. of India Ministry of Education	Shri Govind Jaiswal, IAS
3.	Joint Secretary and Financial Adviser (IFD) Govt. of India Ministry of Education	Shri Sanjog Kapoor
4.	Vice Chancellor, Panjab University	Prof. (Dr.) Renu Vig
5.	AICTE Representative Adviser – I Regulation Bureau All India Council for Technical Education	Dr. More Ramulu
6.	Member Secretary	Prof. (Dr.) Bhola Ram Gurjar

LIST OF HON'BLE MEMBERS OF BOARD OF GOVERNOR MEMBERS OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Constituency	Name
1.	Hon'ble Chairman	Prof. V G Talawar
2.	JS (TEL) Govt. of India Ministry of Education	Shri Govind Jaiswal, IAS
3.	Joint Secretary and Financial Adviser (IFD) Govt. of India Ministry of Education	Shri Sanjog Kapoor
4.	Vice Chancellor, Panjab University	Prof. (Dr.) Renu Vig
5.	AICTE Representative	Dr. More Ramulu
6.	Member	Prof. Niraj Bala
7.	Member Secretary	Prof. (Dr.) Bhola Ram Gurjar

LIST OF HON'BLE MEMBERS OF FINANCE COMMITTEE OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Constituency	Name
1.	Hon'ble Chairman	Prof. V G Talawar
2.	JS (TEL) Govt. of India Ministry of Education	Shri Govind Jaiswal, IAS
3.	Joint Secretary and Financial Adviser (IFD) Govt. of India Ministry of Education	Shri Sanjog Kapoor
4.	Member Secretary	Prof. (Dr.) Bhola Ram Gurjar

LIST OF HON'BLE MEMBERS OF ACADEMIC COUNCIL OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Name and Designation with full address	Status
1.	Prof. Gurjar, Bhola Ram Director NITTTR, Chandigarh	Chairman
2.	Dr. Binod Kumar Kanaujia Director, Dr. B R Ambedkar NIT, Jalandhar	Member
3.	Dr. Mani Madhukar Programme Manager, CSR for Academia, IBM India Pvt. Ltd. Sector 62, Noida	Member
4.	Dr. B. C. Choudhary Professor & Head Applied Science Department NITTTR Chandigarh	Member
5.	Dr. C. Rama Krishna Dean (Administration & Finance) Professor & Head Computer Science & Engineering Department NITTTR, Chandigarh	Member Secretary
6.	Dr. Harsh Vardhan Samalia Associate Dean (Outreach and Resource Generation) & Associate Professor EDIC Department NITTTR, Chandigarh	Member
7.	Dr. Hemant Sood Professor & Head Civil Engineering Department NITTTR, Chandigarh	Member

LIST OF HON'BLE MEMBERS OF ACADEMIC COUNCIL OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Name and Designation with full address	Status
8.	Dr. Lini Mathew Professor and Head Electrical Engineering Department NITTTR, Chandigarh	Member
9.	Dr. Maitreyee Dutta Professor and Head IMEE Department NITTTR Chandigarh	Member
10.	Dr. Mala Kalra Assistant Professor Computer Science & Engineering Department NITTTR Chandigarh	Member
11.	Dr. Niraj Bala Professor & Head EDIC Department NITTTR, Chandigarh	Member
12.	Dr. Pankaj Sharma Professor Applied Science Department NITTTR Chandigarh	Member
13.	Dr. Poonam Syal Professor Electrical Engineering Department NITTTR, Chandigarh	Member
14.	Dr. Rajesh Mehra Professor and Head Curriculum Development Centre NITTTR, Chandigarh	Member
15.	Dr. Rakesh Wats Professor Media Engineering Department NITTTR, Chandigarh	Member
16.	Dr. Ritula Thakur Associate Professor Electrical Engineering Department NITTTR Chandigarh	Member

LIST OF HON'BLE MEMBERS OF ACADEMIC COUNCIL OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Name and Designation with full address	Status
17.	Dr. Rupinder Singh Professor & Head Mechanical Engineering Department NITTTR Chandigarh	Member
18.	Dr. S. S. Banwait Professor Mechanical Engineering Department NITTTR, Chandigarh	Member
19.	Dr. S. S. Pattnaik Professor Media Engineering Department NITTTR, Chandigarh	Member
20.	Dr. Sandeep Singh Gill Professor IMEE Department NITTTR Chandigarh	Member
21.	Dr. Sanjay Sharma Professor Civil Engineering Department NITTTR, Chandigarh	Member
22.	Dr. Sukhdeep Singh Dhami Dean (Academics & Students) Professor, Mechanical Engineering Department & Head, Electronics and Communication Engineering Department NITTTR, Chandigarh	Member
23.	Dr. U. N. Roy Professor & Head Rural Development Department NITTTR, Chandigarh	Member
24.	Er. Rama Chhabra Associate Dean (Academics & Students) Associate Professor EMGT Department NITTTR, Chandigarh	Member

LIST OF HON'BLE MEMBERS OF ACADEMIC COUNCIL OF NITTTR, CHANDIGARH AS ON 31.03.2025

Sr. No.	Name and Designation with full address	Status
25.	Er. Sunil D Jassal Associate Professor Mechanical Engineering Department NITTTR, Chandigarh	Member
26.	Er. Vinod Sonthwal Associate Dean (Faculty & Staff) & Associate Professor Civil Engineering Department NITTTR, Chandigarh	Member
27.	Er. Himmi Gupta Assistant Professor Civil Engineering Department NITTTR, Chandigarh	Member



1.0 The Institute

National Institute of Technical Teachers Training and Research, Chandigarh, is one of the four such national institutes in the country with focus on development of technical education in the country. However, being situated in the northern region, the main attention of the institute is focusing on the states of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, Delhi and Union Territory of Chandigarh. Presently, the outreach of the programs and activities of the institute covers the entire gamut of technical education. It is now reckoned as a resource institute for the technical education system providing services to its clientele covering faculty/staff of technical institutions, officials of directorates/boards of technical education, central and state government departments, industry, students from technical institutes, community and trainees from overseas. In February 2024, this institute was recognized as Deemed to be University under Distinct Category.

The institute is an autonomous organisation registered under the Societies Registration Act 1860 with Director as the executive head and managed by a Board of Governors. The institute is situated in a well-developed campus in Sector 26, Chandigarh covering an area of over 6.85 hectares housing the academic buildings, hostels, guest house and residential accommodation for faculty and staff. The institute also has residential campus in sectors 29 and 42 of Chandigarh. The institute is about 10 kms from Inter State Bus Terminus (ISBT) in Sector 43 and 05 kms each from Chandigarh Railway Station and ISBT, Sector 17, Chandigarh. The clean campus with innovative digital approach makes the institute unique not only in city but also in the country.

Vision

To be a lead resource Institute for promoting excellence in technical education system



Mission

- *To offer continuing education and training programs for the faculty and staff of the technical education system.*
- *To develop need-based curricula for technical education program.*
- *To develop instructional material to enhance effectiveness of teaching-learning process.*
- *To undertake research and development in engineering & technology and technical education.*
- *To provide extension and consultancy services to technical education system.*

1.1 Broad Objectives of the Institute

- *To provide professional education and training for teachers of engineering and technology disciplines in technical institutions for advancement of learning towards promoting excellence in technical education and industry.*
- *To strive for continuous improvement in instruction and research in engineering and technology disciplines and research in management of technical education.*
- *To actively support the growth and quality improvement of technical education in the country through involvement in activities at national and state levels.*

1.2 Operational Objectives

To act as a centre for offering quality training programs for teachers as per need of the system, covering the entire gamut of technical education including polytechnics, engineering colleges, vocational and management education at national level

01

To arrange for practical training of technical teachers in industries

02

To undertake systematic research to provide research inputs for development of technical education, training systems and its management

03

To undertake action research for development of innovative methods, processes and practices for improvement of teaching learning environment in technical and vocational education institutions

04

1.2 Operational Objectives (contd..)

To design new instructional system and strategies for production of online learning materials

05

To develop and disseminate learning resources like Text books, Laboratory Manuals, Video Programs, Computer Assisted Instructional Multimedia Packages to technical and vocational institutions and other organisations

06

To offer programs for technical teachers through SWAYAM and NCTEL web portal

07

To offer courses/programs for technical and vocational teachers to suit overseas demand especially for SAARC and ASEAN countries

08

To collaborate with community and industry in organising Continuing and Nonformal vocational education programs

09

To undertake consultancy and extension work for industry, technical institutions/organizations

10

To provide support services to Government of India schemes related to technical and vocational education system and as entrusted by MHRD, Government of India, from time to time

11

To cooperate with educational or other institutions in any part of the world having objectives wholly or partly similar to those of the institute by exchange of teachers and scholars and generally in such manner as may be conducive to their common objectives

12

The Institute is continually striving to achieve its stated objectives and remain in the forefront in all its functional areas.

1.3 Programs & Activities

To achieve its stated objectives, the Institute undertakes the following spectrum of activities:

Education & Training Programs

Research and Development

Instructional Material Development

(mainly focusing on digital resources or MOOCs for Swayam and NCTEL)

Extension Services

Curriculum Development

Consultancy in Technical Education and Technology Areas

Keeping in view the emerging needs of the country, the Institute is presently actively involved in the following areas as well:

- Development of various instructional resources with emphasis on digital content including educational video films and e-content generation in English and other regional languages providing easy access to the users across the nation. This also includes development and offering programs through MOOCs. Till Date the institute developed 15 MOOCS among which three MOOCS are for AICTE-NITTT.
- Continuing Education for Working Engineers/Technicians/Managers

In addition to the above programs and activities, the institute offers consultancy services to international, national and state level organisations in the above areas.

1.4 Management

The Institute is managed by a Board of Governors, which is responsible for its general direction and control, as laid down in the Memorandum of Association and Rules and Regulations of the National Institute of Technical Teachers Training and Research, Chandigarh Society. The Director is the Chief Academic and Executive Authority and also an ex-officio member secretary of the Society/Board/Finance Committee. Under provisions of the Memorandum of Association (MoA), the Board of Governors is assisted by the following committees:

- *Academic Council*
- *Finance Committee*



Director of the Institute is the Chairman of the Academic Council

2.0 Achievement Highlights

Achievements of the institute are reported under 05 major areas viz; Staff Development; through Training & Education Curriculum Development & revision; Instructional Material Development & Implementation; Research and Development; Extension Services and Consultancy. Distinctive programs and activities undertaken during the years are as under:

Training Programmes



167
courses through
ICT



148
courses in contact
mode



35125
participants
trained

4 New MOOCs were launched in SWAYAM portal out of which 3 of them were in Regional Languages (in Hindi and Punjabi).



Digital Circuit
Design - A
Practical Approach
(Hindi Language)

Mobile and Wireless
Communication
(In Hindi)

3D Printing of
Auxetic Structures:
Theory and
Practices

Digital Electronics:
Theory and
Practice
(In Punjabi)

Besides these, 4 MOOCs were Rerun as well as NITTT Modules were run in SWAYAM Portal.
Total Participants Enrolled : 33914



Conducted
05
programmes under
sponsored
projects and
trained 177
participants



20
students got
admitted in 04
Master's Degree
Programs for
working
professionals
(Regular)

31
students got
admitted in
05 Master's
Degree
Programs
(Modular)

2.0 Achievement Highlights

156 Video Films prepared for MOOCs and 165 video films uploaded on NCTEL Channel of YouTube.

Apprenticeship Programme under the Apprenticeship Act 1961 was initiated in NITTTR Chandigarh. Many apprentices have joined in the institute under this initiative.

13 MoUs Signed in this period with various institutes and industries like CPSC Manila, SPU Mandi, IIT Roorkee, Ministry of Education and NCVET.

NITTTR Chandigarh, in association with AICTE (New Delhi), hosted a three-day offline, non-residential programme on Universal Human Values from 15 to 17 May 2024 where 113 participants attended.

Shri K. Sanjay Murthy, IAS, Hon'ble Secretary, Department of Higher Education, Ministry of Education, Government of India, visited the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 3rd May 2024.

The Swachhata Hi Seva (SHS) 2024 campaign was successfully conducted at the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, from 1st September to 2nd October 2024.

National Institute of Technical Teachers Training and Research, Chandigarh (Ministry of Education, Government of India) organized a Conclave for Promoting Internationalization on 26th November, 2024 in resonance with the objective of NEP 2020 to internationalize India's education system.

Glimpses of events for 2024-25

Labour Day Celebration



Labour day coordinators Mrs. Shano Solanki and Dr. P Sudhakar Rao organized events for all the employees.



Our Institute celebrated Labour Day on 01-05-2024. Director Prof. B R Gurjar delivered a talk on May Day event explaining the motive behind the celebration of May Day and inspired all to participate in the events.



Gram Sabha



Shri Kesar Singh, the Sarpanch of Tasoli, highlighted key concerns including the large-scale migration of youth to Canada, the prevalence of chemical-based farming, and the lack of access to skill training and nearby health facilities.

The Gram Sabha also saw active participation from Dr. Jyoti, UBA Coordinator, and Dr. Vipinpal Singh from the Participating Institute SGGS College, Sector-26, Chandigarh, underscoring the collaborative approach of academic institutions in addressing rural challenges.

As part of its commitment to rural development under the Unnat Bharat Abhiyan (UBA) initiative, NITTTR Chandigarh conducted a Gram Sabha on 1st May 2024 at Village Tasoli, SAS Nagar, Mohali, Punjab. The event was aimed at engaging with the local community to identify developmental challenges and explore potential solutions.

Prof. U.N. Roy, Regional Coordinator of UBA and Professor & Head, Rural Development Department, NITTTR Chandigarh, delivered a thought-provoking lecture on potential rural enterprises, encouraging villagers and youth to explore sustainable livelihood opportunities.



Glimpses of events for 2024-25

Programme on Universal Human Values in collaboration with AICTE, New Delhi



NITTTR Chandigarh, in association with AICTE (New Delhi), hosted a three day offline, non residential programme on Universal Human Values from 15 to 17 May 2024. The initiative brought together faculty members and staff to explore the principles of empathy, ethical leadership, and holistic education, fostering a deeper understanding of human values in technical and professional learning environments.

Addressing the participants, Prof. (Dr.) BR Gurjar, Director NITTTR, emphasized the significance of continuous learning and professional development in the rapidly evolving educational landscape, keeping in mind the Universal Human Values.



Visit of Shri K. Sanjay Murthy, IAS, then Hon'ble Secretary, Department of Higher Education, MoE, GOI to NITTTR Chandigarh



Shri K. Sanjay Murthy, IAS, Hon'ble Secretary, Department of Higher Education, Ministry of Education, Government of India, visited the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 3rd May 2024.

Glimpses of events for 2024-25

Visit of Shri K. Sanjay Murthy, IAS, then Hon'ble Secretary, Department of Higher Education, MoE, GOI to NITTTR Chandigarh

During his visit, the Hon'ble Secretary toured various state-of-the-art laboratories and facilities of the institute, appreciating the impressive infrastructure and advanced technological resources available. He was warmly welcomed by Professor (Dr.) B.R. Gurjar, Director, NITTTR Chandigarh, and was introduced to faculty members who presented the institute's initiatives and activities aligned with national missions and the National Education Policy (NEP) 2020.



He advised the faculty to strengthen collaborations with premier national and international institutions, to focus on pedagogical innovations, sustainability, and advanced teaching-learning techniques, to promote multilingual education through training courses in Indian regional languages, especially in light of NITTTR's recent recognition as a Deemed to be University (under a distinct category). His visit was a significant source of motivation and direction, reinforcing NITTTR Chandigarh's commitment to educational excellence and innovation.

5-days Capacity Building Program for Technical Administrators



NITTTR Chandigarh organized a 5-day Capacity Building Program for Technical Administrators from Rajasthan from 13-17 May 2024. Shri Ravi Sharma, Chairman, Board of Governors, IIIT Una inaugurated the program in the presence of our esteemed Director, Prof. Bhola Ram Gurjar. The eminent speakers exhorted the participants to know self and concentrate on what the student has learnt rather than what one has taught.

Glimpses of events for 2024-25

Observance of Anti-Terrorism Day



National Institute of Technical Teachers Training and Research, Chandigarh, observed Anti-Terrorism day on 21st May, 2024. Observing the importance of the day, all the employees of the institute took Anti-terrorism day pledge in the presence of Deans, Department Heads and Section Incharges. Faculty, staff and PhD students of various departments were apprised of the importance of celebration of this day.



Expert Session for Newly Recruited staffs of NITTTR Chandigarh

An enlightening expert session on "How to Succeed in Life?" was conducted for our newly recruited staff members at NITTTR Chandigarh. The session was led by Prof. L N Mittal, a respected retired professor from NITTTR Chandigarh. The key points covered in his session included the beginnings and mandate of the institute, the development journey, understanding the Vision and Mission of both the Institute and oneself, the work culture and individual roles in



progress, self-management in achieving personal and institutional objectives, strategies for advancing the institute, and the institute's core attitudes and values. Prof. Mittal also delved into performance evaluation and recognition, as well as achieving a sense of contentment. The session was highly appreciated by all attendees.

Glimpses of events for 2024-25

Yoga Day Celebration



NITTTR Chandigarh celebrated 10th International Yoga Day, themed "Yoga for Self and Society," where the faculty, staff, and students came together in joyous spirit. As part of the celebrations, a four-day yoga camp was held from 18-21 June and Yoga Competitions on 21 June where participants showcased their prowess in various yoga asanas, demonstrating grace and strength. Let's continue to embrace yoga for holistic well-being and harmony

Ek Ped Maa ke Naam Campaign

NITTTR Chandigarh participated in National Campaign on plantation drive called as "Ek Ped Maa ke Naam Campaign". Director Prof. (Dr.) Bhola Ram Gurjar initiated the drive by plantation. NITTTR Chandigarh has planned plantation of 110 plants in NITTTR Campus and five selected villages called Kakaut, Bari, Mazri, Haripur and Hirdapur of Rupnagar (Punjab) under Unnat Bharat Abhiyan.



Celebration of Independence Day



On August 15, 2024, the National Institute of Technical Teachers' Training and Research (Deemed to be University), Chandigarh, commemorated India's 78th Independence Day with great passion and enthusiasm. The event was manifested by the hoisting of the National flag, reflecting the spirit of unity and pride among the students, faculty, and staff.

Prof. (Dr.) Rama Krishna Challa (Dean, Administration & Finance, NITTTR, Chandigarh) felicitated the Director with plant sapling. In his speech, Director, NITTTR, Chandigarh emphasized the importance of independence and the responsibilities that come with it. He urged the faculty, staff, and students to respect the principles of justice, equality, and freedom while making constructive contributions to the advancement of the country.

Glimpses of events for 2024-25

Gram Sabha, Kakut, Rupnagar



On the occasion of 78th Independence Day, NITTTR Chandigarh organized a Gram Sabha at village Kakut, District Rupnagar, on 15th August 2024. Captain Multan Singh, Sarpanch from Bari Village initiated the meeting and appreciated the development in the country. Dr. U N Roy addressed the Gram Sabha elaborating on the Unnat Bharat Abhiyan project's objectives and initiatives.

Sadbhavana Diwas

National Institute of Technical Teachers Training and Research (Deemed to be University), Chandigarh celebrated Sadbhavana Diwas with great enthusiasm on 20th August, 2024. The day highlights the importance of maintaining harmony, goodwill, and a sense of unity within the diverse Indian society. The Director, Prof. (Dr.) Bhola Ram Gurjar administer the pledge at 10:00 a.m. focusing on national unity and the importance of mutual respect.

World Entrepreneurship Day



Entrepreneurship Development and Industrial Coordination (EDIC) Department of the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh Celebrated the Udyamita Divas on the World Entrepreneurship Day on 21st August, 2024.

On this day, the students of NITTTR Chandigarh and nearby Institutes attended an online lecture delivered by Prof. (Dr.) SK Dhameja, Professor, EDIC Department on the topic of "How to Plan for a Start Up -- Legal & Ethical Steps" at 11:00 AM through online mode.

Under the visionary leadership of Prof. (Dr.) BR Gurjar, Director NITTTR Chandigarh, the day was celebrated successfully.

Glimpses of events for 2024-25

Celebration of National Space Day



The National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, hosted a series of thoughtfully curated events to commemorate National Space Day, 23rd August. These celebrations were designed to immerse students and faculty in the exploration and celebration of India's remarkable achievements in space exploration. The festivities were around on two main events, each crafted to showcase different facets of India's inspiring space journey.

Swachhata Pakhwada Divas

Swachhata Pakhwada is a time- bound initiative taken up for a fortnight- starting from the 01 to 15 Sept. 2024, during which various activities and programmes are organized to promote cleanliness, hygiene and sanitation across and within the organization. During the fortnight (Swachhata Pakhwada 2024) the aim was to raise awareness about the importance of cleanliness and encourage individuals, communities and organizations to actively participate in keeping surrounding clean.



57th Annual Day Celebration



57th Annual Day Celebration of NITTTR Chandigarh! National Institute of Technical Teachers Training and Research, Chandigarh (Ministry of Education, Government of India) celebrated its 57th Annual Day on 7th September, 2024. The function was graced by Sh. Gulab Chand Kataria ji, Hon'ble Governor, Punjab and Administrator, UT, Chandigarh. Hon'ble Governor congratulated NITTTR Chandigarh on being accorded the "Deemed to be University" status and emphasized the role and importance of teachers in societal and economic development.

Glimpses of events for 2024-25

57th Annual Day Celebration



Prof. (Dr.) Binod Kumar Kanaujia, Director, NIT Jalandhar, graced the occasion as the Guest of Honour and highlighted the need of quality educational institutes for the character building of the youth

Prof. (Dr.) Bhola Ram Gurjar, Director, NITTTR, Chandigarh, presented the Institute Annual Report highlighting the achievements of the Institute. Awards for 'Best Polytechnic' and 'Best Engineering College' were conferred to recognize significant contributions to quality technical education in northern India.



The celebrations were marked by a number of other activities by NITTTR Chandigarh which included a panel discussion on 'Status of Implementation of NEP 2020 & the way forward in HEIs' involving Vice-Chancellors /Directors/ Principals of various HEIs, award distribution to Institute employees and a vibrant cultural evening by students, staff and faculty of the institute.

Swachhata Hi Seva-2024

The Swachhata Hi Seva (SHS) 2024 campaign was successfully conducted at the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, from 17th September to 2nd October 2024. This time-bound initiative supported community involvement in sanitation and cleaning, in line with the Swachh Bharat Mission launched by the Government of India. The campaign's central theme, Swabhav Swachhata – Sanskaar Swachhata, aimed to instill sustainable cleanliness and hygiene practices within the institution.



Glimpses of events for 2024-25

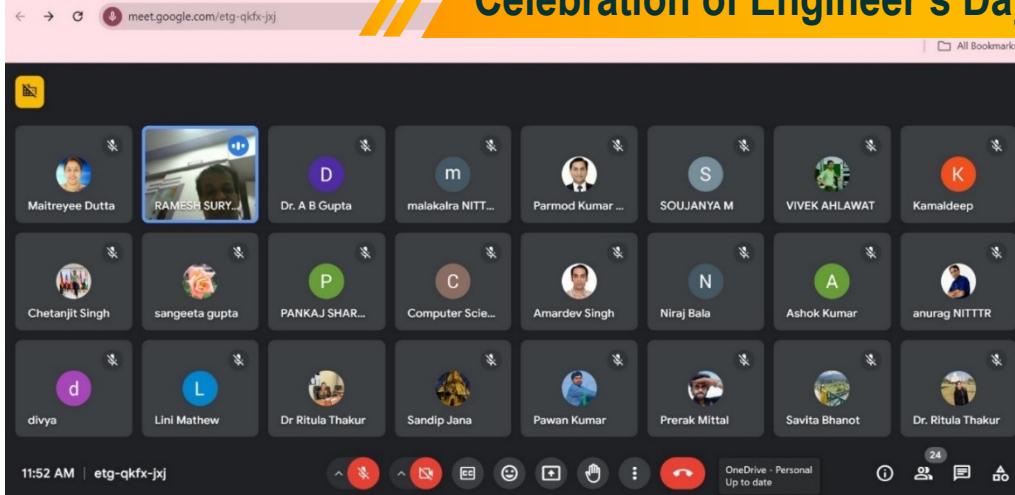
Swachhata Hi Seva-2024

Under the leadership of Prof. (Dr.) B.R. Gurjar, Director, NITTTR Chandigarh, the SHS 2024 campaign successfully engaged faculty, staff, and students, who actively participated in various cleanliness drives and awareness programs.

Poster Competition held on 20th September 2024, attracted 25 participants who showcased creative artwork reflecting the importance of cleanliness. Participants were made aware of SHS-2024 campaign and activities related to the event. The first, second and third prize winners of the competition were awarded on 2nd October 2024



Celebration of Engineer's Day



NITTTR Chandigarh celebrated Engineer's Day on 18th September 2024 with enthusiasm and pride, honouring the contributions of engineers to society. The event was graced by Mr Ramesh Suryavanshi, who is currently working as a global director in Quest Global MNC and has a vast industrial experience of 30 years in Oil & Gas, Power HVDC/ EHV/HV Substation/ Transmission /Distribution Industries. He delivered an inspiring keynote address on the theme of "Energy Transition in the Current Era". He emphasized the critical role engineers play in shaping a sustainable future through innovative solutions for renewable energy, decarbonization, and energy efficiency. He highlighted the importance of transitioning from fossil fuels to cleaner energy sources, urging us to lead this transformation. He elaborated on the challenges in renewable energy transition and suggested ways to overcome these hurdles. Attendees left motivated to contribute further to society's progress. The event was coordinated by Dr. Maitreyee Dutta, Dr. Ritula Thakur and Dr. Mala Kalra.

Glimpses of events for 2024-25

राजभाषा विभाग, गृह मंत्रालय द्वारा निरीक्षण



दिनांक 24.09.2024 को संस्थान में हिंदी में किए जा रहे कार्यों का मूल्यांकन करने हेतु राजभाषा विभाग, गृह मंत्रालय द्वारा निरीक्षण दौरा किया गया। इस निरीक्षण के लिए श्री के. पी. शर्मा, उपनिदेशक राजभाषा विभाग, गृह मंत्रालय से पधारे थे। निरीक्षण के दौरान संस्थान में हिंदी के उत्थान की सराहना की गई व संस्थान में शत - प्रतिशत हिंदी में कार्य करने की लक्ष्य प्राप्ति हेतु सुझाव साझा किए गए।

Workshop on Health & Well-being

On 30th September 2024, NITTTR Chandigarh hosted a Sensitization Workshop on Health & Well-being, led by our institute's doctor, Dr. Meenakshi Sharma, as part of the Safai Mitra Suraksha Shivar.

The event also included a preventive health checkup and the distribution of PPE kits and gifts to all Safai Mitras



Rastriya Ekta Diwas celebrations - Unity Run and Ekta Pledge



Institute celebrated Rastriya Ekta Divas on 31st October, 2024. Director Prof. Bhola Ram Gurjar along with faculty and staff took the Ekta pledge and participated in Unity Run.

Glimpses of events for 2024-25

Celebration of Viswakarma Day



Viswakarma Day was celebrated on 04-11-2024 with the active participation of faculty, staff, and contractual employees. The Vishwakarma Pooja was performed, and prasadam was distributed to all the attending employees and students.

Janjatiya Gaurav Diwas Celebrations 2024



NITTTR, Chandigarh celebrated Janjatiya Gaurav Diwas (birth anniversary of Bhagwan Birsa Munda) on 14th November (as 15th November was a public holiday). The Institute organized a Poster Making Competition on the theme 'The Life of Tribal People' for faculty, staff and M.E./ Ph.D. students. There were a total of 14 participants. They were also apprised of the significance of celebrating Janjatiya Gaurav Divas, which is celebrated annually on 15th November to honour the contributions of India's tribal communities and to recognize their role in the country's freedom struggle. The day also marks the birth anniversary of Birsa Munda, a tribal leader and freedom fighter who is revered by tribal communities across India. Cash prizes were given to the winners.

Glimpses of events for 2024-25

International Conclave



National Institute of Technical Teachers Training and Research, Chandigarh (Ministry of Education, Government of India) organized a Conclave for Promoting Internationalization on 26th November, 2024 in resonance with the objective of NEP 2020 to internationalize India's education system. As a leading institute in technical education and teacher training, NITTTR Chandigarh has consistently demonstrated a commitment to advancing academic excellence and fostering innovation.

The function was graced by Sh. Govind Jaiswal, Joint Secretary, Ministry of Education, Govt. of India. He spoke about the various aspects of NEP 2020 and the need to setup an ecosystem that can facilitate international collaboration for benefit of education and culture in India and other countries of the world via mutual activities. The delegates from Embassies of Finland, Israel, INWF (Indo Nodiad Water Farms), the representatives from IITs, IISER, NIPER, Mohali, NITs were present. The function was graced by the presence of Prof. S K Dhameja, Director General of CPSC Manila, Philippines and it was a matter of pride that NITTTR Chandigarh signed a MoU with CPSC Manila on 25th November, 2024 for further international collaboration.

Republic Day Celebration



The 76th Republic Day celebrations added vibrant colors of nationalism at NITTTR, Chandigarh. Here are few glimpses from the Republic Day Celebrations, 26th January, 2025.

2.1 Staff Development

The institute continued to grow in terms of academic activities, both qualitatively and quantitatively. The qualitative dimensions covered related to continued improvements by way of increased emphasis on applications, case studies and industrial exposure in training programs besides more efficient and effective use of multi-media in teaching-learning process. During 2024-25, the details of the long term and short-term training programs conducted by the institute for faculty/staff of engineering colleges and polytechnics are given below:

2.1.1 Long Term Programmes

2.1.1 (a) Ph.D. Programs

As Deemed to be University, the institute registered 27 students in Ph.D. programs (in Modular mode) in different disciplines.

2.1.1 (b) M.Tech. / M.E. Programs

The Institute offers full-time industry-oriented and practice-based Master's Degree Programs for Working Professionals of 02 years' duration. The courses are approved by AICTE in the following disciplines:

- Mechanical Engineering (Manufacturing Technology)
- Civil Engineering (Construction Technology and Management)
- Electrical Engineering (Instrumentation and Control)
- Electronics and Communication Engineering

The institute is also offering these Master's Degree Programs on modular basis. The modular program is of 3½ years duration. These ME programs are duly approved by AICTE and mainly for the working personnel who undergoes the course work during Summer and Winter break but are evaluated along with the regular students on the same question paper as they appear for examination with regular students. This unique model of the institute is a platform for the service personnel to upgrade quality knowledge through a flexi mode degree awarding programme ensured with quality. This programme was launched in the year 2005. Since then majority of the polytechnic faculty members could enhance their qualification spreading to all parts of the country.

Admissions made in these programmes during 2024-25 are given below:

LONG TERM PROGRAMMES

ME (Modular) Programme 2024-25							
Sr. No.	Name of the Programme	No. of Participants				Total	State wise breakup
		Poly	EC	Ind.	Gen		
1.	Mechanical Engineering	02	02	03	04	11	RJ-07, CHD-02, Bihar-01, CHHATTISGARH-01
2.	Civil Engineering (Construction Tech. & Management)	-	02	03	03	08	HP-02, CHD-02, RJ-01, HR-01, NAGALAND-01, ARUNACHAL PRADESH-01
3.	Computer Science and Engineering	-	01	-	03	04	HP-01, RJ-01, BIHAR-01, HR-01
4.	Electrical Engineering (Instrumentation and Control)	-	04	03	-	07	HP-01, RJ-04, CHD-01, NAGALAND-01
5.	Electronics and Communication Engineering	-	-	-	01	01	UK-01
Total		02	09	09	11	31	

ME (Regular) Programme 2024-25							
Sr. No.	Name of the Programme	No. of Participants				Total	State wise breakup
		Poly	EC	Ind.	Gen		
1.	Mechanical Engineering	-	-	03	03	06	PB-02, CHD-03, HR-01,
2.	Civil Engineering (Construction Tech. & Management)	-	01	-	09	10	PB-02, JH-01, HR-03, HP-02, MUMBAI-01, CHD-01
3.	Electrical Engineering (Instrumentation and Control)	-	01	01	01	03	CHD-02, GUJRAT-01
4.	Electronics and Communication Engineering	-	-	01	-	01	UP-01
Total		-	02	05	13	20	

Regular- 20; Modular- 31
M.E. (Modular & Regular) Total= 51

2.1.2 Short Term Courses (STCs) (Faculty Development Programme)

The Faculty Development Programmes were broadly of 6 categories viz., pedagogy, industry supported, research oriented, skill oriented, national mission and emerging areas.

The institute offers need-based and customized short-term courses of one to two weeks' duration for faculty/staff of engineering colleges, polytechnics and working professionals from industry. During the year 2024-25, 315 short-term programs were conducted through contact and ICT mode for faculty/staff of engineering colleges and polytechnics which were attended by 35955 teachers from various states of the country. Besides this, 33914 participants were trained through MOOCs/NITTT Modules. Total participants trained 69869 (35955 + 33914)

Conferences/Seminars, Training Workshops, Curriculum Development Workshops and Students Training etc. were other development programmes conducted by the institute.

(i) Training Programs/Workshops:

	Type of Training Programs	No. of Courses/ Programs	No. of Teachers Trained
A)	Short Term Courses		
	Contact Mode	148	2773
	ICT Mode	167	32352
	Consultancy programmes	05	177
	Sponsored Programmes	10	653
	Total:	330	35955
B)	Conferences/Seminars:		
	(i) International	01	84
	(ii) National	03	321
(C)	Training Workshops	29	1637
	Total:	33	2042
D)	Students Training Programs	01	327
E)	Curriculum Development Workshops	20	360

INTERNATIONAL CONFERENCES ORGANIZED

Sr. No.	Name of the Seminar/Conference	No. of Participants
1.	Conclave for Promoting Internationalization	84

NATIONAL CONFERENCES ORGANIZED

Sr. No.	Name of the Seminar/Conference	No. of Participants
1.	Indian Mathematics in NEP – 2020 with Knowledge partnership of Vigan Bharti (VIBHA)	13
2.	National Seminar on Space Day	175
3.	2 nd National ENOs Conference on Indian Knowledge System for Environmental Sustainability, Climate Action and ECO- Human Health	115

TRAINING WORKSHOPS (OTHER THAN CURRICULUM DEVELOPMENT WORKSHOPS)

Sr. No.	Name of the Workshop along with dates and venue	No. of Participants
1.	Workshop on NEP 2020 and NCRF in Hybrid Mode	54
2.	Two Days Technical Workshop for Faculty, Technical Staff and Research Scholars of Mechanical Engineering Department	14
3.	Workshop on Indian Knowledge System in collaboration with Vidya Bharati Uchcha Shiaksha Sansthan	26
4.	One Day Workshop on “Collaborative Projects between NITTTR Chandigarh and Rajeevika Mission Rajasthan”	06
5.	One Day National workshop on ‘National Education Policy 2020 and Indian Knowledge System’	34
6.	4 Days National Workshop on “विद्यालय से व्यावसायिक एवं उच्च शिक्षा का जुड़ाव” in collaboration with Vidhya Bharti, Uttar Kshetra	238
7.	Implementation of NEP- 2020 in collaboration with Vidya Bharti, North Zone, Kurukshetra	49
8.	Workshop on Augmenting Life and Professional Skills of Newly Recruited Staff of NITTTR, Chandigarh	43
9.	Workshop on Development and Implementation of IDP and NCrF	14
10.	Workshop on Design and Development of Courses for the Teaching and other Instructional Staff for Capacity Building in HEIs	21
11.	Teachers Day Celebration and Talk on Research Proposal writing by Prof. R. Singh	24
12.	Status of Implementation of National Education Policy (NEP 2020) & the Way Forward in Higher Education Institutes	31

TRAINING WORKSHOPS (OTHER THAN CURRICULUM DEVELOPMENT WORKSHOPS)

Sr. No.	Name of the Workshop along with dates and venue	No. of Participants
13.	A Session on EBSCO Education Suite	55
14.	Preparation of Fundamental Glossary of Mathematics under NEP-2020	20
15.	Microsoft Learn for Educators (MSLE) AI Bootcamp	24
16.	TGA to Characterise Materials	20
17.	Workshop on Strategies for Sustainability under Vikist Bharat Mission	22
18.	O Plan Workshops for the year 2025-26 (Rajasthan)	54
19.	O Plan Workshops for the year 2025-26 (Uttar Pradesh)	48
20.	Celebration of Mathematics Week	54
21.	Showcase of Cutting-Edge Laboratory Innovations in Engineering and Science	327
22.	Sustainability from Engineering and Vedic perspectives by Dr. Vikram M. Pattarkine	78
23.	International Webinar on Semiconductors in the Automotive Industry and Software Defined Vehicle Architecture	80
24.	Meeting with Delegates of Tanzania	24
25.	O Plan Workshops for the year 2025-26 (Haryana)	68
26.	Workshop for English Speaking Competency Development in collaboration with Vidya Bharati, Northern Zone	118
27.	Intellectual Property Management and Commercialization	47
28.	Learning Outcomes-Based Curriculum Framework (LOCF) of Environmental Science (EVS)	25
29.	Design of Syllabi for UGC, B.Sc, M.Sc. Prog. EVS	19

2.2 Instructional Material Development

During the year 2024-25, institute continued its efforts to promote development of instructional material, both print (text books, laboratory manuals, modules, readers etc.) and non-print (video programme, MOOCs videos). Emphasis was made to develop course material for MOOCs as it is thrust area of MHRD.

The following instructional material was produced during the year under report:

Print Material

Type of Instructional Material	No. Completed during 2024-25
Edited Text Books	02
Book Chapters	25
Laboratory Manuals	02
Readers	01

Text Books

Sr. No.	Title	Authors
1.	"Microcontroller Applications", as per AICTE model curriculum for 5 th Semester Diploma students published on ekumbh	Dr Ritula Thakur
2.	Spinel Ferrite Materials: Fundamentals, Progress, and Applications, Publisher : Elsevier	Gagan Kumar Bhargava, Pankaj Sharma, Sanjeev Shirsath, Sagar E., Kumar, Sumit Bhardwaj

Book Chapters

Sr. No.	Title	Authors
1.	Spinel Ferrite Materials: Fundamentals, Progress, and Applications,	Gagan Kumar Bhargava, Pankaj Sharma, Sanjeev Shirsath, Sagar E., Kumar, Sumit Bhardwaj, Publisher : Elsevier
2.	Chapter 6: Carbon Nanotubes: Measure for Environmental Remediation, Book Titled: Nanomaterials: An Approach Towards Environmental Remediation, Publisher: Bentham Books	Pankaj Sharma, Vidushi Karol, Sarabjeet Kaur, Prianka Sharma, Pages: 121-163.

Book Chapters (contd..)

Sr. No.	Title	Authors
3.	Chapter 9: Development of Piezoelectric Energy Harvesting Devices from Lead-Free Piezoelectric Materials, Book Titled: Nanomaterials: An Approach Towards Environmental Remediation, Publisher: Bentham Books	Priyanka Thakur, Navdeep Sharma, Prashant Thakur, Madan Lal, Pankaj Sharma, Dinesh Pathak, Pages: 200-234.
4.	Suitability of nanohexaferrites for gyromagnetic device applications, Book Titled: Nanostructured Hexagonal Ferrites - Novel Characteristics and Multifunctional Applications, Pages: 311-349, Publisher: Elsevier	Pankaj Sharma, B.S. Dhaliwal, Nikhil Thakur, Pawan Kumar, Abhishek Kandwal, Indu Sharma, Sumit Bhardwaj, Gagan Kumar Bhargava,
5.	Chapter 7: Emerging materials in advanced oxidation processes for micro-pollutant treatment process. Book Titled: Recent trends in advanced oxidation processes for micro-pollutant removal. Editors: Mohammad Khalid, Rashmi Walvekar, CRC Press,	Ashok Kumar et al.
6.	Comparison of Classical and Machine Learning Forecasting Techniques: A Case Study of Rice Production in India, Kailash Lachhwani et al. Book Titled "Optimization in the Agri-Food Supply Chain: Recent Studies" Wiley-ISTE, ISBN: 978-1-394-31698-4	Mayssa Koubaa, Mohamed Haykal Ammar, Diala Dhouib, Sirine Mnejja ;
7.	Approximation by a Double Sequence of Operators Involving Multivariable q-Lagrange–Hermite Polynomials. Book Titled : Operators, Inequalities and Approximation: Industrial and Applied Mathematics. Editors: Tripathy, B.C., Dutta, H., Paikray, S.K., Jena, B.B. Springer, Singapore.	Kailash Lachhwani et al.
8.	Book Chapter titled Recent Advances in Photodegradation of Various Plastics Plastic Degradation and Conversion by Photocatalysis (Volume 1): A Sustainable Approach; DOI: 10.1021/bk-2024-1489.ch009 ACS Symposium Series; American Chemical Society: Washington, DC.	Amandeep Kaur, Ritu Bala, and Sushil Kumar Kansal
9.	"Data Preprocessing Techniques for Brain Tumor Classification", Lect. Notes Electr. Eng., vol.1095, pp. 195-204, Springer, Singapore, 2024, doi: 10.1007/978-981-99-7077-3_20	N.Bhardwaj, M.Sood and S.S.Gill
10.	Comparative analysis of low-noise power efficient instrumentation amplifier for Bio-medical application. In: Hasteer. N., McLoone, S., Sharma, P., Nallamalli, R. (eds) Adaptive Intelligence. InCITE 2024. Lecture Notes in Electrical Engineering, vol 1280. Springer, Singapore. https://doi.org/10.1007/978-981-97-9045-6_11	Bamnavat, R., Gill, S.S., Raj, B., Krishna, B.

Book Chapters (contd..)

Sr. No.	Title	Authors
11.	"Design of MUX_Based CMOS 8-bit Encoder device for high-speed 5G Flash ADC binary conversion in UWB applications", Nanoelectronics: Materials to Chips Design, 325-352, 2025, CRC press, doi: https://doi.org/10.1201/9781003612797 , ebook ISBN9781003612797	B Krishna, SS Gill, A Kumar
12.	Electro-chemical machining of titanium alloys and various composites for efficient machining process, journal fabrication techniques and machining methods of advanced composite materials	Dr. P S Rao
13.	3D technology printing: a review, challenges and opportunities in industrial and mechanical engineering: a progressive research outlook, crc presss springer journal	Amit gupta, P Sudhakar Rao, KK Mittal
14.	RSM- reconfigurable mfg system, taylor and francis , crc press book -- mfg in the digital age as book chapter	Dr. P S Rao
15.	Swayam-14 teacher education titled, 3d printing of auxetic structures: theory and practice	Prof. Rupinder Singh
16.	Book on 3d printing: polymer, metal and gel based additive manufacturing, (published in the series: advanced mechanical engineering, ISBN 978-3-11-108061-1) DE GRUYTER, BERLIN, GERMANY, 2024, https://doi.org/10.1515/9783111081632	Prof. Rupinder Singh, Co-editor: Ranvijay Kumar, Vinay Kumar, J P Davim
17.	Special issue on metal 3D printing of biomaterials for prostheses and implants exploration of biomat-x, 2023-2024.	Prof. Rupinder Singh, Co-editor: J. P. Davim
18.	Special issue on functionally graded materials for application in structures, functional composite materials Springer open, 2023-2024.	Prof. Rupinder Singh, Co-Editor: Mohammad Siahkouhi
19.	Assessing properties of conventional and specialized materials for reference module 'Comprehensive Materials Processing, second edition' Elsevier, 2022-2024	Prof. Rupinder Singh
20.	Development & revisions in teaching resources (programming / simulation examples & PowerPoint presentations) in the following topics: (a)digital manufacturing (b)modeling & simulation of robot-to-robot cooperation	Prof. Rupinder Singh

Book Chapters (contd..)

Sr. No.	Title	Authors
21.	Integrated Dairy and Organic Farming	Prof. U N Roy
22.	Organic Dairy Farming: Case of Hetha Organics	Prof. U N Roy
23.	Organic Dairy Farming and Integrated Farming	Prof. U N Roy
24.	Green Tourism in Uttarakhand Himalaya	Prof. U N Roy
25.	"LeafNet: From Leaf Images to Insights through CNN and VGG16-Based Crop Disease Classification with Web Integration," AI Predictive Analytics for Crop Health Agreement, Wiley, 2025. [Scopus Indexed]	Shweta Sharma, Sweeti Sah, Rakesh Kumar, Kamaldeep, Manisha Malik

Lab Manual

Sr. No.	Title	Authors
1.	"ETABS for Building Modelling"	Dr. Himmi Gupta
2.	Instructional Manual on "Arduino and Its Interfacing"	Dr. Ritula Thakur

Reader

Sr. No.	Title	Authors
1.	Eco-Friendly Construction Materials – Issue II	Dr. Himmi Gupta

Non Print Material (Digital Resources)

156

No. of Video Films Produced



165

Number of Video Films edited and uploaded in NCTEL Youtube channel



The information regarding the instructional material developed has been disseminated to the technical institutions of the region and outside to enable them to use the same.

List of Produced Films (April 2024- March 2025)

Sr. No.	Title of the Video
1.	Python Tuple by Dr. Mala Kalra
2.	Green Tourism in Uttarakhand: Himalaya
3.	Integrated Organic and Dairy farming
4.	Dairy Farming using Desi Cows
5.	The Code Python for Developers- Learning by Coding by Dr. Sushil Narang Chitkara
6.	Parity Bits Error Detection & Correction (Punjabi) by Dr. Balwinder Singh Dhaliwal
7.	Hamming Codes by Dr. Balwinder Singh Dhaliwal
8.	Intro Film - Mobile and Wireless Communication by Dr. Garima Saini
9.	Wireless Communication by Dr. Garima Saini
10.	Intro film Digital Circuit Design - A Practical Approach by Dr. Kanika Sharma
11.	Advantages and Application of Wireless Communication (वायरलेस संचार के लाभ और अनुप्रयोग) by Dr. Garima Saini
12.	Digital Circuit Design - A Practical Approach - Half Adder by Dr. Kanika Sharma
13.	Digital Circuit Design - A Practical Approach- Full Adder by Dr. Kanika Sharma
14.	Demo of above Half Adder by Dr. Kanika Sharma
15.	Digital Circuit Design - A Practical Approach - Half Subtractor by Dr. Kanika Sharma
16.	Digital Circuit Design - A Practical Approach - Full Subtractor by Dr. Kanika Sharma
17.	Digital Circuit Design - A Practical Approach - Demo of Full Adder by Dr. Kanika Sharma
18.	Digital Circuit Design - A Practical Approach - Demo of Half Subtractor & Full Subtractor by Dr. Kanika Sharma
19.	Introductory film on Digital Electronics - Theory & Practice by Dr. Balwinder Singh Dhaliwal
20.	Digital Electronics - Theory and Practice - Signed & Unsigned Numbers by Dr. Balwinder Singh Dhaliwal
21.	Digital Circuit Design - A Practical Approach-BCD & 7 Segment by Dr. Kanika Sharma
22.	Digital Circuit Design - A Practical Approach- Demo of BCD & 7 Segment by Dr. Kanika Sharma
23.	Electromagnetic Waves & its properties by Dr. Garima Saini
24.	Digital Circuit Design - A Practical Approach - 3:8 line Decoder by Dr. Kanika Sharma
25.	Digital Circuit Design - A Practical Approach- Demo of 3:8 line Decoder by Dr. Kanika Sharma
26.	Disaster Risk Reduction and Management Intro video by Dr. Kamaldeep and Dr. Suniti Dutt
27.	Frequency Allocation and band used for mobile communication by Dr. Garima Saini
28.	Basic concept of cellular network by Dr. Garima Saini
29.	Digital Logic levels by Dr. Kanika Sharma
30.	Understanding Signal Propagation in wireless network and factors affecting signal range and quality by Dr. Garima Saini
31.	Elements of Digital Logic by Dr. Kanika Sharma
32.	Arithmetic Operation using binary numbers by Dr. Balwinder Singh Dhaliwal
33.	Understanding Signal Propagation in wireless network and factor affecting signal range and quality: by Dr. Garima Saini
34.	Arithmetic Operations using signed binary numbers by Dr. Balwinder Singh Dhaliwal

List of Produced Films (April 2024- March 2025) (contd..)

Sr. No.	Title of the Video
35.	Reflection Diffraction & Scattering by Dr. Garima Saini
36.	Friis equation by Dr. Garima Saini
37.	Evolution from 1G to 5G by Dr. Garima Saini
38.	Floating Point Number by Dr. Balwinder Singh Dhaliwal
39.	BCD Addition by Dr. Balwinder Singh Dhaliwal
40.	Intro Video of 3D Printing by Dr Rupinder Singh
41.	3D Printing Overview by Dr. Rupinder Singh
42.	Case Study 3D Printing Overview: Dr. Rupinder Singh
43.	3D printing of dual thermoplastic material with different layers combination Tensile by Dr. Rupinder Singh
44.	3D printing surgery for veterinary patient by Dr. Rupinder Singh
45.	Fabrication of PLA- HAP-CS biocompatible and biodegradable feedstock filament using twin screw by Dr. Rupinder Singh
46.	Secondary recycle ABS and Graphene composite for 3D 4D Applications rheological, thermal and Mechanical Analysis by Dr. Rupinder Singh
47.	Historical Development and Technology by Dr. Rupinder Singh
48.	Welding and Dissimilar Plastic based material for joining applications by Dr. Rupinder Singh
49.	Mechanical and Vet. Science collaboration by Dr. Rupinder Singh
50.	Pre and post processing parameters of FDM for development of crowns for strategic teeth by Dr. Rupinder Singh
51.	Printing Application in human dentistry by Dr. Rupinder Singh
52.	Hybridization of additive and conventional Manufacturing Process by Dr. Rupinder Singh
53.	Cell Area and Cell Sight Structure by Dr. Garima Saini
54.	Frequency Reuse by Dr. Garima Saini
55.	Co channel & Adjacent Channel Interference by Dr. Garima Saini
56.	Logic Gates by Dr. Balwinder Singh Dhaliwal
57.	Functions of Digital Logic by Dr. Kanika Sharma
58.	3D polymer Printing by Dr. Rupinder Singh
59.	Printer Hardware Parameters
60.	Dynamic Power Control by Dr. Garima Saini
61.	Logic Gates with Demo by Dr. Kanika Sharma
62.	Case Study In Very Orthopedic by Dr. Rupinder Singh
63.	1-Bit Magnitude Comparator Dr. Kanika Sharma

List of Produced Films (April 2024- March 2025) (contd..)

Sr. No.	Title of the Video
64.	Cell Splitting by Dr. Garima Saini
65.	Combinational Logic Circuits by Dr. Kanika Sharma
66.	Gel 3D Printing by Dr. Rupinder Singh
67.	Gel 3D Printing Case Study by Dr. Rupinder Singh
68.	Metal 3D printing
69.	3D Metal Printing Case Study
70.	Encoder and priority encoder with demo
71.	Intro to sensor week by Dr. Rupinder Singh
72.	Intro to sensor case study by Dr. Rupinder Singh
73.	Cell Sectoring by Dr. Garima Saini
74.	Boolean Algebra Boolean postulates by Dr. Balwinder Singh Dhaliwal
75.	Case studies for 4D allocations of auxetic structures by Dr. Rupinder Singh
76.	Case study 2 by Dr. Rupinder Singh
77.	4D applications of auxetic structures in polymer 3D printing
78.	2-bit ADC flash type by Dr. Kanika Sharma
79.	Cellular system (capacity & coverage) by Dr. Garima Saini
80.	Circuit realization by Dr. Balwinder Singh Dhaliwal
81.	Frequency division multiple access by Dr. Garima Saini
82.	TIME DIVISION MULTIPLE ACCESS by Dr. Garima Saini
83.	LOGIC FAMILIES (ttl& cmos) by Dr. Balwinder Singh Dhaliwal
84.	Multiplexer with demo by Dr. Kanika Sharma
85.	Demultiplexer with demo by Dr. Kanika Sharma
86.	FDMA&TDMA by Dr. Garima Saini
87.	SR Latch with demo by Dr. Kanika Sharma
88.	SOP & POS by Dr. Balwinder Singh Dhaliwal
89.	CDMA by Dr. Garima Saini
90.	Sequential logic circuit by Dr. Kanika Sharma

List of Produced Films (April 2024- March 2025) (contd..)

Sr. No.	Title of the Video
91.	Flip Flop and D Flip Flop by Dr. Kanika Sharma
92.	Hand Off by Dr. Garima Saini
93.	K Maps by Dr. Balwinder Singh Dhaliwal
94.	Astable Multivibrator by Dr. Kanika Sharma
95.	POS with K Map by Dr. Balwinder Singh Dhaliwal
96.	5 and 6 variable K Map by Dr. Balwinder Singh Dhaliwal
97.	Hand off process in Cellular mobile Communication by Dr. Garima Saini
98.	Adder and Subtractor by Dr. Balwinder Singh Dhaliwal
99.	Practical consideration in hand off design by Dr. Garima Saini
100.	N Bit Address by Dr. Balwinder Singh Dhaliwal
101.	Multiplexer by Dr. Balwinder Singh Dhaliwal
102.	J K Flip flop by Dr. Kanika Sharma
103.	T Flipflop by Dr. Kanika Sharma
104.	Demultiplexer by Dr. Balwinder Singh Dhaliwal
105.	4 bit synchronous up counter by Dr. Kanika Sharma
106.	4 bit universal shift register by Dr. Kanika Sharma
107.	GSM & Its Structure by Dr. Garima Saini
108.	Encoders by Dr. Balwinder Singh Dhaliwal
109.	GSM SUB SYSTEM by Dr. Garima Saini
110.	Water Level Indicator by Dr. Kanika Sharma
111.	IR Proximity/obstacle by Dr. Kanika Sharma
112.	GSM Interface and frequency band by Dr. Garima Saini
113.	GSM Frame Structure by Dr. Garima Saini
114.	Decoder by Dr. Balwinder Singh Dhaliwal
115.	Fire Alarm Circuit by Dr. Kanika Sharma
116.	Comparator by Dr. Balwinder Singh Dhaliwal
117.	Key features and benefits of GPRS by Dr. Garima Saini

List of Produced Films (April 2024- March 2025) (contd..)

Sr. No.	Title of the Video
118.	LDR by Dr. Kanika Sharma
119.	Real Time Application of Digital Logic Circuit by Dr. Kanika Sharma
120.	GPRS Architecture by Dr. Garima Saini
121.	Gprs channels by Dr. Garima Saini
122.	EDGE by Dr. Garima Saini
123.	Research in Interdisciplinary Area for Sustainable Development by Dr. UN Roy
124.	Bcd to 7 Segment display decoder by Dr. Balwinder Singh Dhaliwal
125.	Concept of latch and SR Flip flop by Dr. Balwinder Singh Dhaliwal
126.	Electronic Code Lock Circuit with Demo by Dr. Kanika Sharma
127.	LED Chaser Circuit with Demo by Dr. Kanika Sharma
128.	Frequency Divider Circuit with Demo by Dr. Kanika Sharma
129.	Hand Off Scenarios by Dr. Garima Saini
130.	WCDMA in 3G Network by Dr. Garima Saini
131.	Overview of UMTS by Dr. Garima Saini
132.	UMTS Architecture
133.	Key Advancement in GSM and UMTS by Dr. Garima Saini
134.	JK, D and T Flip Flop by Dr. Balwinder Singh Dhaliwal
135.	Shift Register and their basic types by Dr. Balwinder Singh Dhaliwal
136.	Universal Shift Register by Dr. Balwinder Singh Dhaliwal
137.	OFDM ka Parichay by Dr. Garima Saini
138.	Bluetooth and its application by Dr. Garima Saini
139.	Asynchronous counter or ripple counters by Dr. Balwinder Singh Dhaliwal
140.	Design of Asynchronous counter by Dr. Balwinder Singh Dhaliwal
141.	Decade and Arbitrary Sequence Counters by Dr. Balwinder Singh Dhaliwal
142.	Shift Register Counters
143.	Intro to WiFi by Dr. Garima Saini
144.	WiFi Architecture by Dr. Garima Saini

List of Produced Films (April 2024- March 2025) (contd..)

Sr. No.	Title of the Video
145.	Semiconductor Memories Organisation and Classification by Dr. Balwinder Singh Dhaliwal
146.	Random Access Memory (RAM), Static RAM (SRAM) and Its Basics
147.	LTE and its Frequency Band by Dr. Garima Saini
148.	Dynamic Ram and DDR RAM by Dr. Balwinder Singh Dhaliwal
149.	ROM & its types by Dr. Balwinder Singh Dhaliwal
150.	LTE Architecture by Dr. Garima Saini
151.	LTE Resource Blocks by Dr. Garima Saini
152.	Transition from 3G to 4G by Dr. Garima Saini
153.	Working of DAC by Dr. Balwinder Singh Dhaliwal
154.	Binary weighted resistor DAC by Dr. Balwinder Singh Dhaliwal
155.	5G Standardization and spectrum
156.	5G new radio concepts

List of Videos Edited and Uploaded on NCTEL = 165

Sr. No.	Title of the Video
1.	Testimonial Video-I on Two Days Workshop on Teaching Pedagogy for IIITs from 9-10 March 2024
2.	Testimonial Video-II on Two Days Workshop on Teaching Pedagogy for IIITs from 9-10 March 2024
3.	Techniques of Assessment By Dr. Sunil Dutt
4.	Outcome Based Education By Dr. P S Grover
5.	Outcome Based Education By Dr. Meenakshi Sood
6.	Interplay of Technology & Education By Dr. Jyotirmoy Dutta
7.	Instructional Strategies for OBE By Ms. Amandeep Kaur
8.	E Tools for Student Evaluation By Dr. Gaurav Kumar
9.	Curriculum Framework for Higher Education in NEP 2020 By Dr. Meenakshi Sood
10.	Curriculum Design Process By Dr. Meenakshi Sood

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
11.	Curriculum Design & Implementation Strategy By Dr. P S Grover
12.	Blooms Taxonomy By Dr. Sanjeev Sofat
13.	Assessment Techniques & Rubrics By Dr. P S Grover
14.	Academic Industry Linkage For Curriculum Structuring By Prof. Niraj Bala
15.	Art of Social Engineering by Dr Shweta Sharma
16.	Cyber Laws by Dr. Suniti Dutt
17.	Safe online banking by Dr. Manisha Malik
18.	IPR of Print materials by Er. Amardev Singh
19.	Secure and Healthy browsing over the web using VPN by Er. Kaveesh Nayak
20.	Identity Theft and Data Theft : Detection and Prevention by Dr. Srinivasa
21.	Smartphone fingerprinting and Vulnerability
22.	Testimonial Video-I on Course on Outcome Based Education from 22-26 April 2024
23.	Testimonial Video-II on Course on Outcome Based Education from 22-26 April 2024
24.	Bloom's and Other Taxonomy and Mapping by Prof. (Dr.) SS Pattnaik
25.	Brief Information on the Report of Overarching Committee by Prof. SS Pattnaik
26.	Classroom Management by Dr. Jagriti Saini
27.	Setting of question paper and designing of marking scheme by Prof. Paramjit Kaur Tulsi
28.	Use of Online Evaluation Tools for Assessment by Er. Gaurav Kumar
29.	AI VR in teaching Learning by Dr. Jagriti Saini
30.	Blended Learning and cooperative methods of teaching by Ms. Amandeep Kaur
31.	Changing Learning Spaces New Gen classrooms by Ms. Amandeep Kaur
32.	Effective Curriculum Design and Implementation by Dr Arvind Bal Gupta
33.	Flipped Classroom by Prof. Sunil Dutt
34.	Innovative Pedagogy by Ms. Amandeep Kaur
35.	Integrating social media in teaching by Ms. Rama Chhabra
36.	Planning for instructions & delivery An overview by Prof. Paramjit Kaur Tulsi
37.	Project Based Learning by Prof. B S Pabla

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
38.	Recent Trends in Analysis & Design of Civil Engineering Structures by Er. Himmi Gupta
39.	Fire Resistant Design of Structures by Er. Himmi Gupta
40.	Indian Standards related to Disaster Resilient Infrastructure by Jitendra K. Chaudhary
41.	Design of Prestressed Beam Bridges by Mr. Mohit Garg
42.	Design of Steel Structures Concept and Practices by Mr. MM Ghosh
43.	Multiframe Modelling for Analysis of Structures by Dr. Rajneesh Sharma
44.	Sustainable Structural Design: Concept and Practices by Jit K Gupta
45.	Analysis and Design of Structures using STAAD - Part I by Bentley Inc.
46.	Making Villages Smart: An Introduction by Er. Himmi Gupta
47.	Finite Element Analysis for Design of Structures using SpaceGass Software by David Francis
48.	Gol Initiatives for Smart Villages and Precision Agriculture by Prof. Krishna Mohan
49.	Smart Grids & Rural Electrification by Money Khanna
50.	Renewable Energy Options for Smart Villages by Dr. Arvind Dhingra
51.	Rural Planning and Development by Mr. Jit K Gupta
52.	Gamification in Teaching Learning by Dr. Manisha Malik
53.	Outcome Based Education by Dr. Maitreyee Dutta
54.	Crafting Effective CV with High Visibility to Job Portals and Rankings Dr. Gaurav Kumar
55.	E resources and Portals for Research and Intellectual Property Dr. Gaurav Kumar
56.	Tools and AI Prompts for Graphics and Academic Content Dr. Gaurav Kumar
57.	Diversified AI Chatbots for Teaching and Learning
58.	Effective Use of MOODLE for Teaching Learning Dr. Jagriti Saini
59.	Flipped Classroom Concept Features or Implications for Teaching Learning Dr. Sunil Dutt
60.	How to Successfully Create an Online Course Dr. Jagriti Saini
61.	Integration of Blogs, and Twitter in Teaching Learning by Dr. Suditi Jindal
62.	LinkedIn for Greater Visibility Credibility and Networking by Mr. Hitesh Gulati
63.	Role and Importance of Social Media in Education by Ms. Rama Chhabra
64.	Developing outcome-based question paper by Dr. Balwinder Singh Dhaliwal

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
65.	Designing of Rubrics Part I by Dr. Balwinder Singh Dhaliwal
66.	Blended Learning by Amandeep Kaur
67.	Key Technologies for making Villages Smart by Prof. Jagdish Godihal
68.	Watershed Management for Rural Areas by Dr. Pravesh Kr. Sharma
69.	CO-PO Attainment Part I by Dr. Balwinder Singh Dhaliwal
70.	Decoding POs by Prof. SS Pattnaik
71.	Agricultural Demand Management and Solar Pumps by Neeraj Sharma
72.	CO PO Attainment Part II by Balwinder Singh Dhaliwal
73.	PCR Mindset by Dr. Hitesh Kumar Gulati
74.	Interpersonal Relations and Conflict Reductions By Ms. Manjula Sularia
75.	Stress Management : Tabla Approach Part 1 by Dr. Hitesh Kumar Gulati
76.	Stress Management : Tabla Approach Part 2 by Dr. Hitesh Kumar Gulati
77.	Managing Communication by Dr Archana R Singh
78.	Changing Contours of Professional education and Role of Teachers by Dr. JS Saini
79.	Effective Presentation skills for Professional Excellence
80.	Professionalism in Teaching and Learning by Dr .Hitesh Kumar Gulati
81.	AWS Identity & Access Management (IAM) by Dr. Mala Kalra
82.	Creating an account in AWS and using EC2 by Dr. Mala Kalra
83.	Characteristics of effective teacher by Dr. Shilpa Suri
84.	AWS Storage services by Dr. Vipin Gupta
85.	Amazon Relational Database Services by Dr. Vipin Gupta
86.	Innovative pedagogy and Assessment for Effective NEP 2020 Implementation by Dr. Manu K. Vora
87.	Academia Industry Linkage for curriculum design Dr. Harshvardhan
88.	Techniques of Assessment Dr. Sunil Dutt
89.	Outcome based Education Dr. Meenakshi Sood
90.	Online Evaluation Tools for Assessment Dr. Gaurav Kumar
91.	Instructional Strategies for OBE Dr. Sunil Dutt

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
92.	Curriculum Development & Implementation Dr. Sanjeev Sofat
93.	Blooms Taxonomy for CO Formulation Er. P K Singla
94.	Curriculum Design Process Dr. Meenakshi Sood
95.	Curriculum design in consonance with NEP 2020 Dr. Meenakshi Sood
96.	Concepts & Strategy of curriculum Design Prof. Y K Anand
97.	AI tools for Teaching Learning strategies Dr. Gaurav Kumar
98.	Articulation, mapping of Learning Outcomes for OBE Dr. Meenakshi Sood
99.	Research Problem Identification by Dr. PK Tulsi
100.	Research Concepts: types and Significance by Dr. AB Gupta
101.	Experiment Research Design by Dr. AB Gupta
102.	Descriptive Research by Dr. PK Tulsi
103.	Literature Review by Dr. Anil Kumar
104.	Disaster Management by Dr. Suniti and Dr. Kamaldeep
105.	Data Collection Dr. AB Gupta
106.	Descriptive Statistics Dr. Anil Kumar
107.	Inferential Statistics Dr. Anil Kumar
108.	Research Ethics and Academic Integrity Dr. Pankaj Sharma
109.	Research Report Writing Dr. Rupinder Singh
110.	Sampling Techniques, Scales & Scaling Dr. AB Gupta
111.	Use of Medley Software by Dr. Gaurav Kumar
112.	Use of PSPP Software by Dr. Gaurav Kumar
113.	Disaster Risk Reduction and Management
114.	Curriculum and credit framework for Undergraduate Programme by Dr. J Preetha
115.	Curriculum based on Outcome based Education
116.	Curriculum Design by Dr. Meenakshi Sood
117.	Curriculum design process and Blooms taxonomy by Prof. P S Grover
118.	Curriculum Development & Implementation by Dr. Sanjeev Sofat

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
119.	Educational Implications of NEP & Fostering Employability skills by Prof. P S Grover
120.	History of Education Policies of India by Dr. Meenakshi Sood
121.	Implementation of NCRF & Integration of Skill Based Courses in HEIS by Dr. Meenakshi Sood
122.	Key insights of NEP by Prof. B S Pabla
123.	Optimal Learning Environment and Support for Holistic development of students by Anuradha Chawla
124.	Restructuring Curriculum Framework for Higher Education in NEP 2020 by Dr. Meenakshi Sood
125.	Academic Industry Institute Interface By Dr. Sanjeev Gupta
126.	Aspects Of Effective Curriculum Implementation By Dr. SS Gupta
127.	Bloom's Taxonomy & Its Relevance To Curriculum By Dr. P S Grover
128.	Curriculum Design For Education By Dr. Sanjeev Sofat
129.	Curriculum Development Processan Overviews By Dr. SK Gupta
130.	Group Task On Curriculum Design Implementation By Dr. S K Gupta
131.	Nep 2020 And Relevance For Curriculum Design By Dr. B S Pabla
132.	Networking With Industry By Dr. S K Gupta
133.	Online Assessment Tools And Methods By Mr. Gaurav Kumar
134.	Outcome Based Education By Dr. B S Pabla
135.	Project Based Learning By Dr. Sanjeev Gupta
136.	Student Evaluation And Examination Dr. Meenakshi Sood
137.	Intro Video on Wireless and Mobile Communication
138.	Intro Video on 3D Auxetic Structures
139.	Intro Video on Digital Electronics: Theory and Practice
140.	Intro Video on Digital Circuit Design by Dr. Kanika Sharma
141.	Evolution and Future Prospects of Industry 4 0 by Dr. Niraj Bala
142.	Entrepreneurial Skills and Attributes by Dr. Harsh Vardhan Samalia
143.	Sustainable Practices in Industry 4 0 by Dr. Pawan Kumar
144.	Role of Machine Learning in Industry 4 0 by Dr. Amit Kumar Bharadwaj
145.	Industry 4.0 New Frontier in Financing

List of Videos Edited and Uploaded on NCTEL = 165 (contd..)

Sr. No.	Title of the Video
146.	Importance of IPR and Patenting for 14.0 by Dr. Niraj Bala
147.	Harnessing the Power of IoT in Industries by Dr. Sarabpreet Kaur
148.	Enhancing Employability and Growing Leadership Mindset by Dr. Uma Batra
149.	Enhancement of Employability Skills through various Government Schemes by Dr. S K Dhameja
150.	Computational Thinking Approach for Industry 4.0 by Dr. K G Srinivasa
151.	AR and Block chain Technologies of 14. 0 by Dr. Gaurav Kumar
152.	Applications of Additive Manufacturing for Industry 4.0 by Dr. Niraj Bala
153.	Adoption of 14.0 Technology by Er Amardev Singh
154.	Role Of Industry, Institute And Students In Project Work
155.	Project Based Learning & Higher Thinking Skills
156.	Organizing Project Oriented Professional Training
157.	Networking With World Of Work For Project Work
158.	Identification And Planning Of Project Work
159.	Group Task ~1
160.	Evaluation Of Project Work
161.	Developing Employability Skills Through Project Work
162.	Concept And Significance Of Project Work
163.	Competence Expected By Industry From Technical Students
164.	Aspects Of Report Writing For A Project Work
165.	Academic Industry Interface For Project Work

2.3 Curriculum Development

The institute continued to undertake curriculum development activities including the design and review of curricula for courses in engineering and non-engineering areas through a scientific approach, which has been considerably internalised by the polytechnic system enabling them to take up similar projects by themselves with some guidance from this institute. During the year 2024-25, 83 curricula have been designed for Haryana, Maharashtra and Punjab state. The institute also revised 56 curricula for Haryana and Punjab State. The institute conducted 20 Curriculum Development Workshops of 1-2 days' duration which were attended by 360 participants.

Curriculum Designed

Sr.No.	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	30	Haryana	Draft of 30 Diploma Programmes for HSBTE submitted
2.	30	Haryana	Feedback received on the draft of 30 diploma programmes from various experts. The feedback was incorporated in the respective curricula
3.	6	Punjab	Curricula of 1 st semester of 6 diploma programmes for Punjab State Board of Technical Education submitted
4.	6	Punjab	Curricula of 2nd semester of 6 diploma programmes for Punjab State Board of Technical Education submitted
5.	5	Maharashtra	Development of Curricula of 5 Under-Graduate Courses (B.Tech) for Indian Institute of Information Technology (IIIT) Nagpur submitted
6.	6	Punjab	Curricula of 24 diploma programmes for Punjab State Board of Technical Education submitted

Curriculum Revised

Sr. No.	No. of Curriculum Revised	State/Origin	Title of Curriculum Revised
1.	30	Haryana	Revised 30 Diploma courses as per feedback received.
2.	1	Haryana	Revised Diploma Programme of Artificial Intelligence and Machine Learning
3.	1	Haryana	Revised Diploma Programme of Hotel Management and Catering Technology
4.	24	Punjab	Revised 24 Diploma Courses as per feedback received



2.4 Research and Development

Research and development activities in technology and technical education form an important aspect of the institute's programme. During the year 2024-25, 07 Ph.D. and 62 ME thesis were completed under guidance of institute faculty.

Sr. No.	Name of Candidate	Date of conduct of Viva-voce Examination	Title	Supervisor(s)
1.	Preeti Kumari	18 th June 2024 (Tuesday) at 11:30 A.M	Design and Development of Multimodal Interface and shred Control Architecture for Assisted Mobility	Supervisor: (i) Dr. Lini Mathew, Professor & Head Electrical Engg. Deptt., NITTTR, Sector-26, Chandigarh Co-Supervisor: (ii) Dr. Neelesh Kumar, Principal Scientist Dept. of Biomedical Instrumentation, CSIR-CSIO, Chandigarh
2.	Ashmita Rupal	10 th April, 2024 (Wednesday) at 11:30 A.M	Development of Nano Structured Polyurethane Based Bituminous Waterproofing Membrane	Supervisor: (i) Dr. Sanjay Kumar Sharma, Professor, Civil Engg. Deptt., NITTTR, Sector- 26, Chandigarh; Co-Supervisor: (ii) Dr. G.D. Tyagi, Technical Director, Shivalik Agro Poly Products Ltd., Parwanoo, Himachal Pradesh
3.	Himmi Gupta	18 th September, 2024 (Wednesday) at 3:00 P.M	Analysis of Behaviour of High Performance Slurry Infiltrated Fibrous Concrete in Anchorage Zone of Post Tensioned Prestressed Girders	Supervisor: (i) Dr. Sanjay K. Sharma, Professor Civil Engg. Deptt., NITTTR, Sector-26, Chandigarh; Co-Supervisor: (ii) Dr. H.K. Sharma, Professor, Civil Engineering Department, NIT, Kurukshetra
4.	Minhaz Husain	23 rd January, 2025	Investigations on 3D Printed PVDF Matrix Based Intramedullary Pin For Canine	Supervisor: Dr. B.S. Pabla (Retd.), Professor, Mechanical Engineering Department, NITTTR, Chandigarh; Co-Supervisor: Dr. Rupinder Singh, Professor, Mechanical Engineering Department, NITTTR, Chandigarh
5.	Praveen Shukla	27 th January, 2025	A Distributed Detection Approach for DDoS Attacks in IOT Environment	Supervisor: (i) Prof. C. Rama Krishna, Professor, Computer Science & Engineering Department, NITTTR, Chandigarh; Co-Supervisor: (i) Prof. Nilesh Vishwasrao Patil, Professor, Computer Engineering Department, Govt. Polytechnic, Chhatrapati Sambhaji Nagar, Maharashtra

Sr. No.	Name of Candidate	Date of conduct of Viva-voce Examination	Title	Supervisor(s)
6.	Srishtee Chaudhary	10 th February, 2025	Optimized Design of Perovskite Solar Cell Using Eco-friendly Materials For Enhanced Efficiency	(i) Dr. Rajesh Mehra, Professor, Curriculum Department, NITTTR, Chandigarh
7.	Jagjeet Singh	19 th March, 2025	Flexural Behaviour of High Performance Self Compacting Fibrous Concrete Slabs	Supervisor: (i) Dr. S. K. Sharma, Professor, Civil Engineering Department, NITTTR, Chandigarh; Co-Supervisor: (ii) Dr. H. K. Sharma, Professor, Civil Engineering Department, National Institute of Technology, Kurukshetra, Haryana

Patents/ Copyrights

Sr.No.	Name of Patents	Author (s) Name
1.	Functionally graded waveguides for aerospace applications; Brief: provisional application filed on dated: 07/06/2024, Indian Patent Application No.: 202411044119	Rupinder Singh, Minhaz Husaain, Bharat Kalia
2.	A point of care kit for post-surgery medicinal monitoring of stone accumulation in urinary tract; Brief: provisional application filed on dated: 22/06/2024, Indian Patent Application No.: 202411048079	Rupinder Singh, Minhaz Husaain, Bharat Kalia
3.	"Friction Damper for Beam-Column Joints of Buildings", Application No. 202311051848 A, Examination Report filed on 17.06.2024	Goyal, Amit., Kushal Chauhan, Bharati, Nagendra Dhooper
4.	"Construction Material with Pond Ash" in the Application No. 202411018668, Published on 20.06.2024.	Goyal, Amit, Godara Mohit

Faculty published 106 SCI Papers and 73 in Other Journals. Faculty also published 69 papers in Proceedings in National Conferences & International Conferences.

Research Grants Received by Institute Faculty:

- Research Grant of Rs. 2.25 crore from HP Disaster Management Authority.
- Institute received Rs. 94 Lakhs under sponsored project titled Chip-to-Startup (C2S) by MEITY, Gol.
- Grant for IPR Activities from Punjab State Council for Science and Technology (PSCST).
- Pilot Project for Practically Demonstrating Decentralized Municipal Solid Waste, Conversion into usable form and its Market Introduction for PMC Patna.
- Short term Research Project "Study on the use of 3D printed smart cerclage strip for medicinal monitoring of comminuted fractures post-surgery".
- Research Project titled "Design, Development, and Pre-clinical Validation of SMARTDICE: An Automated Smart Cartilage Dicer for Dicing and Predicting Diced Cartilage Integrity for Rhinoplasty and Facial Trauma/Deformities".
- Grant for e-SLM Development of online programmes of Centre for Distance and Online Education, Central University, Himachal Pradesh.
- Grant received for Faculty Orientation Programme on "Employability Skills" from 16th to 20th December, 2024 at TTC, Jodhpur in collaboration with Wadhvani Foundation and AICTE, New Delhi.

2.5 Extension Services and Consultancy

The Institute has continued to play a proactive role to influence the planning and development of technical education and also collaborated with institutions and organisations at national and international levels having similar objectives. The institute also provided consultancy services to government, public sector and other national and state level organisations, technical education system and industry in the area of engineering and technology, educational management, curriculum development, entrepreneurship development and rural development. The Institute earned consultancy Projects of amount Rs. 289.03 Lakhs.

Sr. No.	Programme Title	Status
1.	Material Testing, Design and Technical Services to industry	Completed
2.	Testing of various Electrical Works from various organizations- As per requirement	Completed
3.	Antenna Testing	Completed
4.	Training of Students and Faculty from Engineering Colleges and Polytechnics in various branches	Completed
5.	Product Design and Development	Completed
6.	Facilities and services for training, examinations etc. to outside agencies	Completed
7.	Sample Analysis with AFM and PLS	Completed
8.	Curriculum design of 28 Diploma courses for HSBTE, Panchkula	Completed
9.	FDP on Outcome Based Education from 22-26 April, 2024 at Parul University, Vadodara, Gujrat	Completed
10.	Third Party Transparency Audit under RTI Act	Completed
11.	Biometric Verification report in r/o newly appointed TGTs/JBTs under samgra Shiksha, Chandigarh	Completed

Sr. No.	Programme Title	Status
12.	Three Days FDP on NEP, Accreditation and Certification by NAAC and NBA from 18-20 May, 2024 in Graphic Era Hill University, Bhimtal	Completed
13.	Capacity Building Programme under STRIVE for ITI Instructors of Rajasthan state from 13-17 May, 2024.	Completed
14.	Capacity Building Programme for SRM University from 20-24 May, 2024.	Completed
15.	FDP on Emerging Technology from 25 to 28 June, 2024 at Indo Global College, New Chandigarh	Completed
16.	Revision and Design of Curricula of 06 Diploma Programmes and making them NSQF Compliant for PSBTE, Chandigarh	Completed
17.	FDP on OBE from 21- 25 October, 2024 at VFSTR (Deemed to be University), Guntur, A.P.	Completed
18.	Conducting Live Test of applicants for the post of Design Assistant to be recruited on contractual basis for Chandigarh road safety society on 06.09.2024	Completed
19.	Design of two diploma courses Curricula for HSBTE, Chandigarh	Completed
20.	FDP on Cloud Computing from 25-29 November, 2024 at Mandsaur University, Mandsaur M.P.	Completed
21.	Train the Trainer programme for NEP 2020 for Gujarat State 14-18 October, 2024	Completed
22.	FDP on Outcome Based Education at Teerthanker Mahaveer University, Moradabad from 4-8 November, 2024	Completed
23.	Typing Test of candidates from Navodaya Samiti Regional Office, Chandigarh on 11.01.2025	Completed
24.	Training Workshop on Setting Question Papers and Designing Marking Scheme for IAF Ground-crew Examining Board Members on 27-28 Feb, 2025	Completed
25.	Content Development of Undergraduate Courses (B.Tech) for IIIT Nagpur	Completed
26.	Outcome Based Education and Accreditation at SIT Nagpur, Maharashtra from 03- 07 March, 2025.	Completed

Signing of Memorandum of Understanding:

Sr. No.	Organisation	Date of Signing	Date of Maturity	Signing Authority
1.	MoE, Dept. of Higher Education, MoE, Govt. of India, New Delhi	2024	2025	JS, Department of Higher Education Ministry of Education, Govt. of India
2.	Rajasthan Grameen Ajeevika Vikas Parishad (Rajeevika), Rural Development Department, Govt of Rajasthan	03.05.2024	02.05.2029	Dr. Vikram Meena (SPM, SI-Gender) RAJEEVIKA
3.	Nirogya Life Line Foundation (NLLF), Chandigarh	11.11.2024	10.11.2027	Director, Nirogya Life Line Foundation (NLLF), Chandigarh
4.	Arogaya CIBioD Affordable Healthcare Foundation, Chandigarh	11.11.2024	10.11.2027	Director, Arogaya CIBioD Affordable Healthcare Foundation, Chandigarh
5.	Colombo Plan Staff College (CPSC), Manila, Philippines	25.11.2024	24.11.2027	Prof. S.K. Dhemja Director General, CPSC Manila
6.	Sardar Patel University, Mandi, Himachal Pradesh	06.12.2024	05.12.2027	Vice Chancellor, SPU Mandi
7.	Information Sharing and Analysis Centre (ISAC), 319A, Logix Technova Sector-132, Noida, U.P.	13.12.2024	12.12.2025	Group Captain P. Aanand Naidu (Retd.), Director ISAC, Noida
8.	Indo Nordic Water Forum (INWF), New Delhi	07.01.2025	06.01.2027	Mr. Anshul Jain, Hon. Convener, INWF, New Delhi
9.	UGC- Malaviya Mission Teacher Training Centre, Jai Narain Vyas University, Jodhpur	17.01.2025	16.01.2026	Director, UGC- MMTTC, Jodhpur
10.	Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, Uttarakhand	27.01.2025	26.01.2028	Vice Chancellor, VMSBUTU, Dehradun, Uttarakhand
11.	Electronics & ICT Academy, and IIT Roorkee	31.01.2025	30.01.2028	Dr. Sanjeev Manhas, Chief Investigator E&ICT Academy, IIT Rorkee
12.	EdCIL (India) Limited, Noida (A "Mini Ratna Category –I CPSE", under Ministry of Education, GOI)	21.03.2025	20.03.2028	Kuljinder Singh Sahni, Manager, EdCIL (India) Limited
13.	Department of Higher Education Ministry of Education	31.03.2025	30.03.2026	JS, Department of Higher Education Ministry of Education, Govt. of India

2.6 Academic Achievements of the Departments



Applied Science Department

Civil Engineering Department



Computer Science and Engineering Department

Curriculum Development Centre



Electrical Engineering Department

Electronics and Communication Engineering Department



Entrepreneurship Development & Industrial Coordination Department

Education and Educational Management Department



Information Management and Emerging Engineering

Mechanical Engineering Department



Media Engineering Department

Rural Development Department

Applied Science Department



Dr. B. C. Choudhary

Professor & Head

Research Areas - Fiber Optics, Radiation Physics



Dr. Pankaj Sharma

Professor

Research Areas: Chalcogenide Glasses, Thin Films, Nanomaterials, Ferrites.



Dr. Ashok Kumar

Associate Professor

Research Areas: Physics of nanomaterials and thin films, Nanotechnology enabled energy devices.



Dr. Kailash Chandra Lachhwani

Assistant Professor

Research Areas - Operation Research, Mathematical Programming

Applied Science Department

During the year 2024-25, the department has conducted 29 short term training programs in ICT and Contact modes, which were attended by 2491 teachers from polytechnics and engineering colleges. The Department has conducted 6 workshops with 589 participations and 01 national conference with 37 participants. The department faculty published 23 papers in SCI Journals. The department also published/presented 03 papers in proceedings of International Conferences. The department faculty edited 01 text book and contributed 06 chapters in edited books by international publishers. The faculty member of department attended 02 in-house and 05 outstation training programmes for professional development.

Sr. No.	Short Term Programmes Conducted
1.	Mathematical Methods for Engineering and Science Teachers
2.	MATLAB For Science and Engineering Teachers
3.	Experiments in Applied Physics for Polytechnic
4.	Experiments in Engineering Physics
5.	Fuzzy Optimization Techniques: New Trends
6.	Applications of Technology in Environmental Sustainability
7.	Mathematical Techniques for Solving Engineering Problems
8.	Applications of Technology in Environmental Sustainability
9.	Materials Characterization Techniques
10.	Applied Mathematics with MATHEMATICA
11.	Green Energy Materials and Technology
12.	Professional Ethics and Plagiarism
13.	Nanomaterials, Characterizations and Applications
14.	Refresher Course in Energy Materials and Technology
15.	Mathematical Methods for Engineering and Science Teachers
16.	Nanomaterials, Sensors and Devices
17.	Vedic vs Classical Mathematics: Applications for Real world problems
18.	Applied Mathematics with MATHEMATICA
19.	Nanomaterials and Devices
20.	Refresher Course in Nanoscience and Nanotechnology
21.	Teaching of STEM
22.	Engineering Physics – Basics
23.	Refresher Course in Engineering Physics
24.	Energy Storage Materials and Technology

Sr. No.	Short Term Programmes Conducted
25.	Mathematical Techniques for Solving Engineering Problems
26.	Nanotechnology Developments and Challenges
27.	Indian Knowledge System: Science and Technology
28.	Engineering Optimization with MATLAB
29.	NEP-2020: Science and Technology

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
1.	Engineered Low-Dimensional Chalcogenide Perovskite for High- Efficiency Optoelectronic Devices	Pankaj Sharma	DST	2024-09-29
2.	Development of High-Energy-Density Perovskite-Mxene Composite- Energy Storage for E-Rickshaw Applications	Dr. Ashok Kumar- (Supervisor- Capstone Project- Industry Challenge: Energy density in batteries)	Punjab State Council for Science & Technology	2025-03-13

Workshop

Sr No	TAC No.	Name of the Workshop	Start Date	End Date	Total Student
1.	W-7	Implementation of NEP-2020	2024-08-16	2024-08-17	61
2.	W-3	Indian Knowledge System in NEP-2020	2024-07-06	2024-07-06	24
3.	W-5	National education Policy 2020 and Indian Knowledge System	2024-07-20	2024-07-20	34
4.	W-14	Preparation of Fundamental Glossary of Mathematics under NEP-2020	18.12.2024	22.12.2024	20
5.	W-20	One day activity "Indian Mathematics day 2024" as part of Celebration of Indian Mathematics week (16-23 December 2024)	23.12.2024	23.12.2024	24
6.	W-21	Showcase of Cutting-Edge Laboratory Innovations in Engineering and Sciences for PM Shri KV School students.	2025-01-28	2025-01-31	461

Conference and Seminar

Sr No.	TAC No.	Name of the Conference and Seminar	Collaboration	Faculty Name	Start Date	End Date	Total Student
1.	NC-01	National Conference (NC-1) on "Indian Mathematics in NEP - 2020"	Vigyan Bharti	Dr. KC Lachhwani, Prof. Pankaj Sharma	2024-11-13	2024-11-14	37

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding agency
1.	SP-78	Sponsored Program	Investigation of oxide- rGO nanocomposites	CSIR (Fellowship supported JRF Rs 37000/ month till 28.10.2022 + HRA 16%; SRF Rs 42,000/ month + HRA 16%) (2020-25)
2.	SP-71	Sponsored Program	Engineered Novel cobalt-free nanostructured double perovskites for asymmetric energy storage device application	UGC-DAE-CSR (2022-2025)
3.	CP-128	Consultancy	Sample Analysis with AFM and PLS	Departmental High-end Instruments

Papers published by the Applied Science Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Reduced graphene oxide correlated electrochemical energy storage behavior of La ₂ MnFeO ₆ /rGO composite microspheres	Renu Dhahiya, Neetika Chauhan and Ashok Kumar
2.	Synergistic effect of redox electrolyte and reduced graphene oxide on the electrochemical performance of LaCaCrMnO ₆	Anup Singh, Deeksha Nagpal, Ajay Vasisht, Anwar Ul-Hamid, Parasmani Rajput, Mukul Gupta and Ashok Kumar
3.	Electrochemical evaluation of hybrid La ₂ CoCrO ₆ /Co ₃ O ₄ /rGO composite for enhanced supercapacitor performance	Deeksha Nagpal, Anup Singh, Ajay Vasisht, Ranbir Singh and Ashok Kumar
4.	Structural, magnetic, dielectric properties of double perovskite-La ₂ NiFeO ₆ synthesized by wet chemical route	Shivani Punj, Rajib Mondal, Souvik Chatterjee, Davit B. Dhruv, Ashok Kumar, Alesh Kumar, and Jashandeep Singh

Papers published by the Applied Science Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
5.	Influence of CuO Layer on the Performance of Thin-Film Copper Indium Gallium Selenide Solar Cells: A Numerical Analysis	Ram Sevak Singh, Ram Dayal Patidar, Kalim Deshmukh, Anurag Gautam and Ashok Kumar
6.	Tailoring Gas Sensing Properties of Armchair Graphene Nanoribbons via Transition Metal Doping: A First Principles Investigation on NO, NO ₂ and NH ₃ Molecules	Jyoti R, Navjot Kaur, B C Choudhary, Timothy John Prior and Ramesh K Sharma
7.	Group VIII Transition Metal (Fe, Ru & Os) Embedded Graphitic Carbon Nitride as an Acetone Sensor: A First Principle Investigation	Nihal, Rahul Sharma, S.D. Dogra, B.C. Choudhary, J.K. Goswamy
8.	gCN/ZnO nanocomposite as an efficient sunlight active photocatalyst for Rhodamine B dye degradation	Nihal, Chandresh Kumari, Rahul Sharma, Mamta Sharma, Sukh Dev Dogra, Ishu Sharma, B.C. Choudhary, J.K. Goswamy
9.	Improved magneto-dielectric response and dielectric characteristics of rare earth doped Ba and Co based U-type hexaferrite	Sharma, Indu; Sharma, Sunil; Thakur, Prashant; Bhardwaj, Sumit; Mahajan, Munisha; Kaur, Shubhpreet; Anand, Gagan; Jasrotia, Rohit; Dahshan, A; Elsaedy, HI;
10.	Enhanced Structural, Magnetodielectric, and Multiferroic Response in Fe and Co Co-doped Barium Strontium Titanate Ceramics	A. R. Khan, Rahul Goel, Aayush Gupta, Harshit Tripathi, Naveen Kumar, Sumit Bhardwaj, Sanjeev Kumar, indu sharma, Gagan Kumar, Pankaj Sharma, Sanjeev Kumar
11.	Wastewater Treatment: The Emergence of Cobalt Ferrite and Its Composites in Sulfate Radical-Based Advanced Oxidation Processes	Jyoti Prakash, Rohit Jasrotia, Himanshi, Jagpreet Singh, Abhishek Kandwal, Pankaj Sharma
12.	Investigation of Structural, Optical, and Antifungal Characteristics of Al-Doped MnFe ₂ O ₄ Ferrite Nanoparticles	Indu Sharma, Aayush Gupta, Sumit Bhardwaj, Vaseem Raja, Pankaj Sharma, Gagan Kumar
13.	A review of two-dimensional inorganic materials: Types, properties, and their optoelectronic applications	Nikhil Thakur, Pawan Kumar, Sanjeev Kumar, Arun Kumar Singh, Hitesh Sharma, Nagesh Thakur, A Dahshan, Pankaj Sharma

Papers published by the Applied Science Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
14.	Improved multiferroic and magnetodielectric properties in Ni and Fe co-doped barium strontium titanate ceramics	Arbaz Reyaz Khan, Rahul Goel, Aayush Gupta, Harshit Tripathi, Naveen Kumar, Sumit Bhardwaj, Sanjeev Kumar, Gagan Kumar, Pankaj Sharma, Sanjeev Kumar
15.	(Ge ₂ S ₈) _{100-x} Tex Chalcogenide Glasses: Physico-Mechanical Study for NIR Optical Devices	KA Aly, DC Sati, A Dahshan, S Sharda, P Sharma
16.	Comparative study of physical properties of As ₂ Se ₃ and (As ₂ Se ₃) ₉₀ Ge ₁₀ glassy alloys doped with metallic impurities	Ishu Sharma, HI Elsaedy, Yasser AM Ismail, A Dahshan, Sunanda Sharda, Sanjay Kumar, KA Aly, Pankaj Sharma
17.	Optical properties and structural rigidity of [(GeSe ₂) ₇₅ (Sb ₂ Se ₃) ₂₅] _{100-x} Tex chalcogenide glasses for potential applications in infrared filters and lenses	Reetu Chauhan, Yasser A. M. Ismail, K. A. Aly, Pankaj Sharma, Ram Chhavi Sharma, Chetna Tyagi, Sunanda Sharda
18.	Comparative study of electrical and dielectric properties of Ho/Y ions modified Ba-Co-Sr Z-type nanohexaferrites	Kirti Singha, Rohit Jasrotia, Jahangeer Ahmed, Saad M. Alshehri, Abhishek Kandwal, Monika Chandel, Pankaj Sharma
19.	Enhanced photocatalytic and antimicrobial properties of nickel-doped barium M-type hexaferrites synthesized via citrate sol-gel method	Indu Sharma, Neha Thakur, Yasser AM Ismail, KA Aly, Pankaj Sharma, Khalid Mufasam Batoo, Prashant Thakur
20.	Optimizing solar cell performance with chalcogenide Perovskites: A numerical study of BaZrSe ₃ absorber layers	K.A. Aly, Nikhil Thakur, Pawan Kumar, Y. Saddeek, T. Shater, Yasser A.M. Ismail, Pankaj Sharma
21.	Cobalt ferrites: Structural insights with potential applications in magnetism, dielectrics, and Catalysis	Rohit Jasrotia, Jyoti Prakash, Yasser B. Saddeek, Abdullah H. Alluhayb, Alaa M. Younis, Natrayan Lakshmaia, Chander Prakash, K.A. Aly, Mika Sillanpää, Yasser A.M. Ismail, Abhishek Kandwal, Pankaj Sharma
22.	Green synthesized Fe-doped ZnO NPs using aloe vera gel: Antimicrobial, structural, optical and magnetic properties	Shreya Chauhan, Prashant Thakur, Kamal Kishore, Madan Lal, Pankaj Sharma
23.	Enhanced energy storage performance of samarium manganese iron oxide — reduced graphene oxide composites: A structural and electrochemical investigation	Renu Dhahiya, Neetika Chauhan and Ashok Kumar

Papers published / presented by the Applied Science Department Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue	Date	Author (s) Name
1.	Substitution of Calcium at A-site in LaCaMnNiO ₆ for Optimized Electrochemical Energy Storage Application. Proceedings of the 10th Virtual International Conference on Science, Technology and Management in Energy (eNergetics,); https://doi.org/10.5281/zenodo.14732760	Mathematical Institute SANU, Belgrade, Serbia (Online)	25-26 November 2024	Dinesh, Mukul Gupta, Parasmani Rajput and Ashok Kumar
2.	A Novel Approach for Generalized Decagonal Neutrosophic Linear Programming Problem. In: Pant, M., Deep, K., Nagar, A. (eds) Published in Proceedings of the 12th International Conference on Soft Computing for Problem Solving (SocProS 2023), Lecture Notes in Networks and Systems, vol 995. Springer, Singapore.	IIT Roorkee	01 July 2024	Kailash Lachhwani
3.	Defending NLPP Solution Approaches: A Rebuttal to Bhatia et al. (2022) "Mehar approach to solve neutrosophic linear programming problems using possibilistic mean" Presented in the 13 th International conference on Soft Computing for Problem Solving (SocPros 2025): Artificial Intelligence for Viksit Bharat.	IIT Roorkee	24-26 Feb 2025	Kailash Lachhwani

Research and Development

No. of M.E. Thesis Guided	-
No. of Ph.D Thesis Awarded	02 (Dr. BC Choudhary - Co-Supervisor) PU Chandigarh. 02 (Dr. Ashok Kumar – Co-Supervisor) CU Mohali

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	A tools for future work force	Dr. KC Lachhwani	2024-07-22	2024-07-27	Online - NITTTR Chandigarh
2.	3-day Face-to-Face FDP on "Inculcating Universal Human Values in Technical Education"	Pankaj Sharma	2024-05-15	2024-05-17	NITTTR, Chandigarh

Training Program Attended (Other Institute)

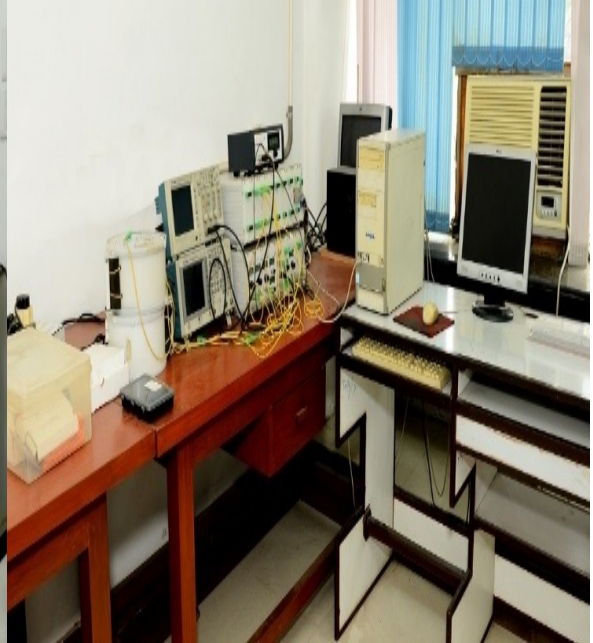
Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Capacity Building for Promoting Positive Mental Health, Resilience and Wellbeing in HEIs	Dr. Ashok Kumar	2024-08-27	2024-08-27	Online- NITTTR Chandigarh
2.	Capacity Building Programmes in STEM related areas	Dr. Ashok Kumar	2024-09-29	2024-10-08	IISc Challakere Campus, Bangalore
3.	Faculty Development Programme on Introduction to Universal Human Values (Hindi Medium)	Dr. Ashok Kumar	2025-01-27	2025-01-31	Online- NITTTR Chandigarh (conducted by AICTE)
4.	Capacity Building Programme in STEM	Dr. KC Lachhwani	2024-09-15	2024-09-26	IISc Challakere Campus,
5.	Stage-3: DST programme in IKS on Chemistry and Metallurgy	Pankaj Sharma	2024-07-08	2024-07-09	IKS Division-MoE., AICTE, H.Q.O., New Delhi.

Instructional Material Development

Sr No	Faculty Name	Edited Textbook Details	Edited textbook Publish. Mnth	No. of Book Chapter	Book Chapter Details	Book Chapter Publish. Mnth
1.	Pankaj Sharma	Spinel Ferrite Materials: Fundamentals, Progress, and Applications, Editors. : Gagan Kumar Bhargava, Pankaj Sharma, Sanjeev Shirsath, Sagar E., Kumar, Sumit Bhardwaj, Publisher : Elsevier	January 2025			

Instructional Material Development

Sr No	Faculty Name	Edited Textbook Details	Edited textbook Publish. Mnth	No. of Book Chapter	Book Chapter Details	Book Chapter Publish. Mnth
2.	Pankaj Sharma			2	<p><u>Chapter 6</u>: Carbon Nanotubes: Measure for Environmental Remediation, Authors: Pankaj Sharma, Vidushi Karol, Sarabjeet Kaur, Prianka Sharma, Pages: 121-163.</p> <p><u>Chapter 9</u>: Development of Piezoelectric Energy Harvesting Devices from Lead-Free Piezoelectric Materials, Authors: Priyanka Thakur, Navdeep Sharma, Prashant Thakur, Madan Lal, Pankaj Sharma, Dinesh Pathak, Pages: 200-234.</p> <p>Book Titled: Nanomaterials: An Approach Towards Environmental Remediation, Publisher: Bentham Books</p>	Sept. 2024
3.	Pankaj Sharma			1	<p>Suitability of nanohexaferrites for gyromagnetic device applications, Authors: Pankaj Sharma, B.S. Dhaliwal, Nikhil Thakur, Pawan Kumar, Abhishek Kandwal, Indu Sharma, Sumit Bhardwaj, Gagan Kumar Bhargava,</p> <p>Book Titled: Nanostructured Hexagonal Ferrites - Novel Characteristics and Multifunctional Applications, Pages: 311-349, Publisher: Elsevier</p>	June 2024
4.	Ashok Kumar			1	<p>Chapter 7: Emerging materials in advanced oxidation processes for micro-pollutant treatment process.</p> <p>Ashok Kumar et al.</p> <p>Book Titled: Recent trends in advanced oxidation processes for micro-pollutant removal.</p> <p>Editors: Mohammad Khalid, Rashmi Walvekar, CRC Press,</p>	January 2025
5.	Kailash Lachhwani			1	<p>Comparison of Classical and Machine Learning Forecasting Techniques: A Case Study of Rice Production in India, Kailash Lachhwani et al.</p> <p>Book Titled "Optimization in the Agri-Food Supply Chain: Recent Studies" Edited by Mayssa Koubaa, Mohamed Haykal Ammar, Diala Dhouib, Sirine Mnejja ;</p> <p>Wiley-ISTE, ISBN: 978-1-394-31698-4</p>	August 2024
6.	Kailash Lachhwani			1	<p>Approximation by a Double Sequence of Operators Involving Multivariable q-Lagrange-Hermite Polynomials.</p> <p>Kailash Lachhwani et al.</p> <p>Book Titled : Operators, Inequalities and Approximation: Industrial and Applied Mathematics.</p> <p>Editors: Tripathy, B.C., Dutta, H., Paikray, S.K., Jena, B.B. Springer, Singapore.</p>	Sept. 2024





Civil Engineering Department



Dr. Hemant Sood

Professor & Head

Research Areas - Concrete Technology, Pavement Design, Transportation Engineering



Dr. Sanjay Kumar Sharma

Professor

Research Areas - Hydraulics & Irrigation, Environmental Engg., Building Maintenance



Er. Ajay Kumar Duggal

Associate Professor

Research Areas - Transportation Engineering, Foundation Engineering, Highway Engineering



Civil Engineering Department

Er. Vinod Kumar Sonthwal

Associate Professor

**Research Areas - Geo-technical Engineering,
Construction Management, Soil Mechanics**



Dr. Himmi Gupta

Assistant Professor

**Research Areas - Structural Engineering, Bridge
Engineering, Project Management**

Civil Engineering Department

During the year 2024-25, the department has conducted online 30 short term training programs in ICT and Contact Mode, which were attended by 1496 teachers from polytechnics and engineering colleges. The Department has conducted 1 workshops with 238 participations. The department faculty published 1 papers in SCI Journals, 29 papers in Non-SCI International Journal. The department also published 02 papers in proceedings of International Conferences & Seminars.

Sr. No.	Short Term Programmes Conducted
1.	Yoga and Meditation
2.	Concrete Lab Practices
3.	Construction Management
4.	Energy Efficient and Innovative Building Construction Practices
5.	Laboratory Practices in Soil Engineering
6.	Application of Auto CAD in Engineering
7.	Non Destructive Techniques in Civil Engineering
8.	Bearing Capacity Estimation for Foundations
9.	Latest Analysis and Design Trends for Civil Engineering Structures
10.	Concrete Mix Design-New Directions
11.	Testing of Latest Civil Engineering Materials
12.	Artificial Intelligence - Concepts and Practices for Civil Engineers
13.	Application of Auto CAD in Engineering
14.	Latest Analysis and Design Trends for Civil Engineering Structures
15.	Bearing Capacity Estimation for Foundations
16.	Concrete Mix Design – New Directions
17.	Artificial Intelligence -Concepts and Practices for Civil Engineers
18.	Construction Management
19.	Fundamentals of BIM and Geospatial Technologies for Development of Smart Cities
20.	Laboratory Practices in Soil Engineering
21.	Advanced Construction Materials and Techniques
22.	Innovation in Construction and Green Building Materials
23.	Building Maintenance, Repair and Rehabilitation
24.	Structural Design with STAAD PRO
25.	Remote Sensing, GPS and GIS in Civil Engineering
26.	Affordable Housing in Disaster Prone Areas
27.	Managing Infrastructure in Urban Areas
28.	Defect free Construction Repair and Maintenance
29.	Clean and Green Technologies
30.	Quality Control of Concrete

Workshop

Sr No	TAC No.	Name of the Workshop	Start Date	End Date	Total Student
1.	W-6	विद्यालय से व्यावसायिक एवं उच्च शिक्षा का जुड़ाव" in collaboration with Vidhya Bharti, Uttar Kshetra	2024-07-27	2024-07-30	238

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding agency
1.	IC-1, LC-1	Quality Control Projects	Design of Concrete Mixes, HPC, SCC, Concrete Construction Materials	CPWD, MES, Chandigarh Admin, HSIIDC, PPC, HPPWD, Punjab PWD, ITBP, HSAMB etc.
2.	IC-3, LC-3	Evaluation	Evaluation & Design of Roads, Quality Control in Road works & Testing of Highway Materials	Chandigarh Admin, M.C Mohali, M.C. Chandigarh, CPWD, MES, AAI, HSVP etc.

Papers published by the Civil Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Optimization of Staging Height of RCC Overhead Water Tank in High Seismic Zones Using P-Delta Analysis	Bandari Murali Krishna, Himmi Gupta
2.	Review Paper on Investigating the Hardened Properties of Extrusion based 3D Concrete Printing with Agro-Industrial Waste Materials	Nisha Verma, Himmi Gupta, Ashish Kapoor
3.	Analytical Investigation of Structural Behavior of Conventional Slab and Flat Slab in Multi-storeyed RCC Framed Structure	Maneesh Thakur, Himmi Gupta
4.	Calculation of Carbon Emissions and Establishing Carbon Sinks in an Educational Institute	Umesh Kumar, Himmi Gupta
5.	An Experimental Investigation on Mechanical Properties of High Performance Slurry Infiltrated Fibrous Concrete (HPSIFCON)	Himmi Gupta

Papers published by the Civil Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
6.	A Study on Effect of Addition of Steel Slag to Stone Matrix Asphalt (Grade-2) Using VG-30 Grade Bitumen. IJRASET(www.ijraset.com) PaperID:IJRASET66827, Published in Volume13, Issue II, Feb 2025	Pawan Kumar, Ajay K. Duggal
7.	A Review on Stabilization of Granular Subbase in Flexible Pavement by Using Calcium Chloride International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN : 2321- 9653 ; SJ Impact Factor : 7.538 Volume 12 Issue XII Dec. 2024- Available at www.ijraset.com Paper ID: IJRASET65901	Er. Vikash Sharma Er. Ajay Kumar Duggal
8.	Effect of Marble Dust and Silica Fume on Properties Of Concrete Published In JETIR (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor Published in Volume 11 Issue 6 ,June-2024 Date of Publication: 2024-06-14	Jiyalal Meena Dr.Hemant Sood
9.	Construction Material with Pond Ash Published in Intellectual Property India, Ref. No./Application No. TEMP/E-1/23204/2024-DEL.	Mohit Godara Dr. Amit Goyal
10.	Presented in the Conference, International Conference on Sustainable Built Environment (ICSBE 24), held at AMITY UNIVERSITY on March 16, 2024. Topic: Development of Dedicated Green Corridor for Storm Water Management.	Ankur Kamal Dr. Amit Goyal
11.	Assessing the Usage of Barytes Powder and Cuddapah Stone Dust as Supplementary Cementitious Materials in Concrete of Grade M30 and M35 Paper ID: IJRASET64906, Volume 12, Issue X, October 2024 International Journal for Research in Applied Science and Engineering Technology (IJRASET) ISSN: 2321-9653, Impact Factor: 7.429 DOI : https://doi.org/10.22214/ijraset.2024.64906	Putta Venkata Nagaraju, Dr. Hemant Sood
12.	Stabilization of soil using Sodium Alginate Biopolymer Published in IJRASET (www.ijraset.com) Approved Journal no: IJRASET66257. Published in Volume 13 Issue 1 , January-2025 Date of Publication: 2025-01-01	Sunny Raj Vinod kumar Sonthwal
13.	Retrofitting Measures of an Existing Institutional Building for Net Zero Energy. Journal of Engineering & Technology Education, Vol. 17, No. 1; January – June, 2023 59 , NITTTR Chandigarh ISSN 2229 – 631 X	Vikram Kumar Er. Himmi Gupta
14.	A Review on Calculating Carbon Footprint of an Educational Institute Published in IJRASET, volume 12, Issue 1, Jan 2024 Paper id: IJRASET58050	Nidhi Chauhan Dr. Sanjay Kumar Sharma
15.	Optimization of Staging Height of RCC Overhead Water Tank in High Seismic Zones Using P-Delta Analysis Published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 12 Issue V May 2024 Paper Id: IJRASET62564 Published Date: 2024-05-23 https://doi.org/10.22214/ijraset.2024.62564	Bandari Murali Krishna, Himmi Gupta

Papers published by the Civil Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
16.	Utilization of Sewage Sludge for Developing Construction Material. Patent Application no. 202411011501 A	Er. Rahul Kumar, Dr. Amit Goyal Dr. Sanjay Sharma
17.	Behavioral Similarity between Marshall Stability and Indirect Tensile Strength Value for DBM Grade-2 using VG-30,VG-40 and CRMB-55 Grade Binder with RAP. Paper Id: IJRASET66828 Volume 13,Issue II, February 2025 in International Journal for research in Applied Science & Engineering technology.	Madanjeer Kumar, Er. Ajay Kumar Duggal
18.	A Comparative Study on Environmental and Economic Benefits of Centralized Versus Decentralized Solid Waste Management Systems Published in IJRASET International Journal for Research in Applied Science & Engineering Technology in volume12 ,Issue VI, June 2024 Paper ID: IJRASET63416.	Ganesh Verma Dr. Sanjay Kumar Sharma
19.	Enhancement of Soil Properties through Stabilization with Xanthan Gum and Polypropylene Fiber PAPER ID: IJRASET64069 Published in Volume 12, August 2024	Er. Rohit Kumar Er. Vinod Kumar Sonthwal
20.	A Comparative Analysis and Design of Industrial Building Using Hot Rolled Section and Cold Formed Section for Sustainability Published In iJRASET(www.ijraset.com) ISSN: 2321- 9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue XII Dec 2023 Paper ID : IJRASET57809	Er. Dipankar Das Er. Himmi Gupta
21.	Effect of copper slag as partial replacement of fine aggregate in concrete of M35 & M40 grade Published In JETIR (www.jetir.org) ISSN UGC Approved (Journal No:63975) & 7.95 Impact Factor Published in Volume 11 Issue 11 , November-2024 Date of Publication: 2024-11-27	Manjilal Murmu & Dr. Hemant Sood
22.	Energy Conservation in Institutional Buildings: A case study in India International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 12 Issue IV Apr 2024-Available at www.ijraset.com	Gulab Singh Dr. Sanjay Kumar Sharma
23.	A Review on Developing Hiper Bituminous Mix Using Existing Binder and Modifier Paper id: ijraset64069 published in volume 12, august 2024	Harsh Thakur Er. Ajay Kumar Duggal
24.	A study on effect of addition of recycled bituminous material stone matrix asphalt using Ploymer Modified Bitumen(PMB-400) International Journal for Research in Applied Science & Engineering Technology(IJRASET) ISSN:2321-9653; Volume 13, Issue I Jan 2025	Digwant Kumar Matho Er. Ajay Kumar Duggal
25.	Review Paper on Investigating the Hardened Properties of Extrusion Based 3D Concrete Printing with Agro- industrial Waste Materials DOI- https://doi.org/10.22214/ijraset.2024.63531	Nisha Verma, Dr. Himmi Gupta Ashish Kapoor (Scientist, CBRI)
26.	A Review on Development of 3D Printable Concrete by Utilizing Agro-Industrial Waste: Evaluation of Fresh Properties DOI- https://doi.org/10.22214/ijraset.2024.63530	Ankit Dwivedi, Dr. Sanjay Sharma Ashish Kapoor (Scientist, CBRI)

Papers published by the Civil Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
27..	Measuring Improvement in Fly Ash Based Concrete Impregnated with Glass Fiber Published in IJRASET (www.ijraset.com) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538, Published Volume 13 Issue I, Jan 2025 Date of Publication: 2025-01-12	Er. Ajay Kumar Chaudhary Dr. Hemant Sood Er. Jasvir Singh Rattan
28.	Development of Rating System of Existing Railway Steel Bridges International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; Volume 11 Issue XII Dec 2023- Available at www.ijraset.com	Anil Kumar Singh Dr. Himmi Gupta
29.	Improvement of Soil Properties through Stabilization Using Beta-Glucan and Coir Fiber International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13 Issue I Jan 2025- Available at www.ijraset.com SJ Impact Factor 7.538 ISRA Journal Impact Factor 7.894	Er. Tribhuvan Kumar Er. Vinod Kumar Sonthwal

Papers published / presented by the Civil Engineering Department Faculty in International Conferences/Seminars

Sr.No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue	Date	Author (s) Name
1.	Innovative Approaches in the Construction of Cable-Stayed Bridges	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025) organized by ASCE India Section Northern Region (ASCE IS NR) & Punjab Engineering College, Chandigarh,	7-9 Feb 2025	Akheel Baig Mirza, Himmi Gupta
2.	Analytical Investigation For Impact Loading On Reinforced Concrete Slab Considering Different Aspect Ratio	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025) organized by ASCE India Section Northern Region (ASCE IS NR) & Punjab Engineering College, Chandigarh, 7-9 Feb 2025	7-9 Feb 2025	Ravi Shankar Kumar, Himmi Gupta

Research and Development

No. of M.E. Thesis Guided	25
No. of Ph.D Thesis Awarded	04

Training Program Attended (In-house)

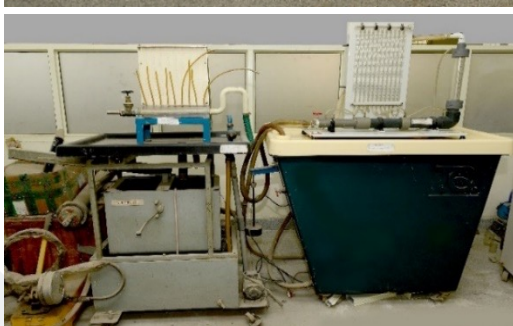
Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Online International Webinar Sustainability from Engineering and Vedic Perspectives	Dr. Himmi Gupta	2025-01-16	2025-01-16	Online - NITTTR Chandigarh

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	NEP2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	Dr. Himmi Gupta	2024-05-02	2024-05-15	Online by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh.
2.	Faculty Development Program on "AI for Future Workforce"	Dr. Himmi Gupta	2024-07-22	2024-07-26	Online - Computer Science & Engineering Deptt, NITTTR Chandigarh
3.	Capacity Building program in STEM	Dr. Himmi Gupta	2024-09-29	2024-10-08	IISc Bengaluru, Challakere Campus
4.	Sustainability in Built Environment	Dr. Himmi Gupta	2025-01-11	2025-02-15	Online by Indian Association of Structural Engineers
5.	Universal Human Values (UHV-I)	Dr. Himmi Gupta	2025-01-20	2025-01-24	Online by AICTE
6.	Impact and Blast Dynamics	Dr. Hemant Sood & Er. Vinod Kumar	03-12-2024	05-12-2024	Southampton, London

Instructional Material Development

Sr No	Faculty Name	No./Lab Manual Details	Lab Manual Publish. Month	No./Readers Details	Readers Publish. Month
1.	Dr. Himmi Gupta	1 Lab Manual on "ETABS for Building Modelling"	January	1 Reader on Eco-Friendly Construction Materials – Issue II	February



Computer Science & Engineering Department



Dr. Amit Doegar

Head

Research Areas – Networking, Image Processing, Open Source Technologies

Dr. C. Rama Krishna

Professor

Research Areas - Wireless Communication & Networks, Cryptography & Cyber Security



Mrs. Shano Solanki

Associate Professor

Research Areas - Algorithm Analysis & Design, Multimedia System Design, Web Based Training

Dr. Mala Kalra

Assistant Professor

Research Areas - Cloud Computing, Information Retrieval, Swarm Intelligence



Computer Science & Engineering Department

During the year 2024-25, the department has conducted online 27 short term training programs in ICT and Contact Mode, which were attended by 7956 teachers from polytechnics and engineering colleges. The department faculty published 06 paper in SCI Journals, 01 paper in Non-SCI National Journal and 04 papers in Non-SCI International Journal. The department also published 21 papers in proceedings of International Conferences & Seminars.

Sr. No.	Short Term Programmes Conducted
1.	Cybersecurity Intelligence (In collaboration with IBM)
2.	Data Science Unleashed: Ignite Your Analytical Skills (In collaboration with IBM)
3.	Data Science Unleashed: Ignite Your Analytical Skills (In collaboration with IBM)
4.	AI for Industry 4.0 (In collaboration with IBM)
5.	Predictive Analytics (In collaboration with IBM)
6.	Cybersecurity Intelligence (In collaboration with IBM)
7.	MATLAB in Engineering Teaching and Applications
8.	Open Source Applications for Technical Education
9.	Mastering Linux for Engineering Applications
10.	Python Programming - Learning by Examples
11.	Computer Aided Design and Artificial Intelligence
12.	Network Science using Python
13.	Mastering Linux for Engineering Applications
14.	AI for Future Workforce (in collaboration with Intel)
15.	Cloud Application Development using IBM Cloud (In Collaboration with IBM)
16.	OpenCV for Image and Video Processing Applications
17.	Deep Learning for Engineering Applications
18.	Machine Learning using Python
19.	AI and Cloud based Tools for Research
20.	Python for Engineering Applications
21.	Mastering Cloud Computing Essentials with AWS
22.	Cryptography and Network Security
23.	Tools for Research in Cloud, Fog and Edge Computing
24.	Open Source Applications in Engineering Education
25.	Data Science using Python
26.	Data Science using Python
27.	ICT Tools for Smart Educators

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	1	Chandigarh	Master of Engineering (CSE)

Student Training

Sr No	TAC No.	Name of the Training Programme	Venue	Start Date	End Date	Total Student
1.	CP-8C	Data Science and Machine Learning using Python	NITTTR Chandigarh	2024-10-14	2024-10-25	14
2.	CP-8A	Hands on IT Skills Training	NITTTR Chandigarh	2025-02-13	2025-02-13	41
3.	CP-8A	Hands on IT Skills Training	NITTTR Chandigarh	2025-03-20	2025-03-20	45

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding agency
1.	CP-24-239	Consultancy Program	FDP on Cloud Computing	Mandsaur University, Mandsaur

Papers published by the Computer Science and Engineering Department Faculty in SCI/SCOPUS Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Anomaly detection framework for IoT-enabled appliances using machine learning	Mohd Ahsan Siddiqui, C. Rama Krishna & Mala Kalra
2.	Kafka-Shield: Kafka Streams-based Distributed Detection Scheme for IoT Traffic-based DDoS Attacks	Parveen Shukla, C. Rama Krishna, and N.V. Patil
3.	Distributed Ensemble Method Using Deep Learning to Detect DDoS Attacks in IoT Networks	Praveen Shukla, C. Rama Krishna, and N. V. Patil
4.	Application of Non-Immersive Virtual Reality in Cerebral Palsy Children: A Systematic Review	Agrawal Luckykumar Dwarkadas, Viswanath Talasila, Sheeraz Kirmani, C. Rama Krishna, and K. G. Srinivasa

Papers published by the Computer Science and Engineering Department Faculty in SCI/SCOPUS Journals

Sr. No.	Name of the Paper Published	Author (s) Name
5.	KS-SDN-DDoS: A Kafka Streams-based Real-time DDoS Attack Classification Approach for SDN Environment	A. Kaur, C. Rama Krishna, and N. V. Patil
6.	A Comprehensive Review on Software-Defined Networking (SDN) and DDoS Attacks: Ecosystem, Taxonomy, Traffic Engineering, Challenges, and Research Directions	A. Kaur, C. Rama Krishna, and N. V. Patil

Papers published by the Computer Science and Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Leveraging CNN and Fundus Imaging for Enhanced Glaucoma Detection	Shajila Beegam M K, Mala Kalra
2.	Social Distancing Induced Coronavirus Optimization Algorithm (COVO): Application to Multimodal Function Optimization and Noise Removal	Om Ramakisan Varma, Mala Kalra, Mohd Asifuddola
3.	An Enhanced Pediatric Bone Age Estimation Model Based on CNN and Metaheuristic Group Learning Algorithm	Yeshpal Singh, Amit Doegar, Arpita Joshi
4.	A Hybrid Model for the Segmentation of Mammogram Images using Otsu Thresholding, Morphology, and U-Net	V. Saini, M. Khurana, and C. Rama Krishna

Papers published by the Computer Science and Engineering Department Faculty in National Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Hybrid Method for Plant Disease Detection with Textural Feature	Ketan Khullar, Amit Doegar

Papers published/presented by the Computer Science and Engineering Department Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	CNN-based fundus image analysis for improved glaucoma detection	Computational Methods in Science and Technology, CRC Press, E-Book ISBN: 9781003501244.	M.K. Shajila Beegam, Mala Kalra

Papers published/presented by the Computer Science and Engineering Department Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
2.	Classification of Brain Tumor Using Ensemble of Deep Learning Models	International Conference on Information Systems and Management Science (ISMS) Organized By Department of Computer Engineering, National Institute of Technology Kurukshetra.	N Yibenthung Tungoe and Amit Doegar
3.	Bacteria Image Classification using Deep Learning Mode	International Conference on Emerging Trends in Technology and Management, held at Maharaja Agrasen Institute of Technology 15-16 October 2024	Manju Kumari, Dr. Amit Doegar
4.	Potato Leaf Disease Detection by Deep Learning Using Boosting Algorithm	Multilingual International Conference on Multidisciplinary Studies and Innovative Technologies, held at YMCA, New Delhi, 28 August 2024.	Meenu Sharma, Amit Doegar
5.	A Novel Approach for Diabetic Prediction Using Attribute Subset Selection, K-Means and Logistic Regression	Communications in Computer and Information Science (CCIS), Springer.	Kumar Gaurav Upadhyay, Mala Kalra, Rakesh Kumar, Prashant Kumar
6.	Diabetic Retinopathy Detection Approach Using Convolution Neural Networks	Communications in Computer and Information Science (CCIS) Springer, Vol. 2358.	Gahendra Singh, Mala Kalra, Rakesh Kumar, Prashant Kumar
7.	Anomaly Detection System for Smart Lighting	Lecture Notes in Electrical Engineering, Springer, Singapore, Vol 1202.	Mohd Ahsan Siddiqui, C. Rama Krishna, Mala Kalra
8.	Overlapping Community Detection using GNN with PSO Optimization and Fuzzy C-Means	8th International Conference on Innovative Computing and Communication (ICICC-2025), organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with the National Institute of Technology Patna, India and the University of Valladolid, Spain from 14-15 Feb 2025.	Rishabh Chauhan, Shano Solanki
9.	Optimized Image Encryption Model based on Hybridization of Chaotic Maps with Metaheuristic OBOO Algorithm	International Conference on Advancements in Computing Technologies and Artificial Intelligence (Computatia-2025) held from 21-22 February 2025 at Vivekananda Global University, Jaipur.	Abhinaya Srivastava, Shano Solanki

Papers published/presented by the Computer Science and Engineering Department Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
10.	Identification of Influential Nodes based on Overlapping Communities Structure to Maximize Influence in Social Networks	International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT-2025) organized by Graphic Era Hill University, Bhimtal Campus, Bhimtal, India from 21-22 February 2025.	Aayushi Aggarwal, Shano Solanki
11.	Hybrid Deep Learning Model for Skin Cancer Detection based on CNN and LSTM	International Conference on Computing and Communication Networks (ICCCNet-2024) organized by Manchester Metropolitan University, Manchester, United Kingdom from 17-18 October 2024.	Nandini Rajput, Shano Solanki
12.	Indian Classical Dance Forms Classification method based on Convolutional Neural Network and Metaheuristic Mother Optimization Algorithm	International Conference on Sustainable Developments in Computational Optimization and Intelligent Systems organized by Bhai Gurdas Institute of Engineering and Technology, Sangrur, Punjab (24-25 April 2025).	Pooja Sharma, Amit Doegar
13.	Augmented/Virtual Reality: Technological Advancement with Use Cases	IEEE Global Conference on Information Technologies and Communications (GCITC), Bangalore, India, 2023, pp. 1–7. https://doi.org/10.1109/GCITC60406.2023.10425860	A. L. Dwarkadas, C. Rama Krishna, V. Talasila, and S. K. G.
14.	Steganography Authenticated Quadrant Stacked Multiple Image Visual Cryptography Scheme with Perfect Reconstruction	IEEE Conference in International Conference on Innovations in High-Speed Communication and Signal Processing (IEEE-IHCSP 2024)	G. Sivasidambaram, C. Rama Krishna, and R. Sathishkumar
15.	Contrastive Learning-based Approach for Automated Road Damage Detection	IEEE 7th International Conference on Information Systems and Management Sciences (ISMS), National Institute of Technology, Kurukshetra, India	D. Agrawal, V. Gupta, and C. Rama Krishna
16.	Cost and Makespan Aware Workflow Scheduling Using PSO Algorithm in Cloud	Proceedings of the International Conference on Innovative Computing & Communication (ICICC) 2024	D. Mishra, C. Rama Krishna, and M. Kalra
17.	VGG-Inspired Convolutional Neural Network Denoiser for the Enhancement of Mammogram Images	Springer Proceedings of the International Conference on Machine Learning Algorithms (ICMLA) 2024, Vol. 2238, pp. 457–465. https://doi.org/10.1007/978-3-031-75861-4_40	V. Saini, M. Khurana, and C. Rama Krishna

Papers published/presented by the Computer Science and Engineering Department Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
18.	A Dual Transfer Learning-Based Model for Mammogram Images Enhancement and Classification	Proceedings of the International Conference on Demystifying Emerging Trends in Green Technology 2023, Vol. 3, p. 159. https://doi.org/10.2174/9789815324099125030017	V. Saini, M. Khurana, and C. Rama Krishna
19.	Big Data Distributed Processing Frameworks for Handling DDoS Attacks in SDN Environment - A Systematic Review	IEEE Proceedings of the International Conference on Artificial Intelligence and Emerging Technology	A. Kaur, C. Rama Krishna, and N. V. Patil
20.	Med-DDoS-SDN: A Kafka Streams-Based Distributed Approach for Protecting Healthcare SDN Environments Against DDoS Attacks	Springer, Smart Innovation, Systems and Technologies Series in Proceedings of the 2nd Congress on Smart Computing Technologies (CSCT 2023)	A. Kaur, C. Rama Krishna, and N. V. Patil
21.	Non-Immersive Virtual Reality Framework for the Rehabilitation of Children with Cerebral Palsy	Springer LNNS Series International Health Informatics Conference (IHIC-2023), https://doi.org/10.1007/978-981-97-7190-5_11	Agrawal Luckykumar Dwarkadas, Viswanath Talasila, Sheeraz Kirmani, C. Rama Krishna, and Srinivasa KG

Research and Development

No. of M.E. Thesis Guided	12
No. of Ph.D Thesis Awarded	01

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Attended Capacity Building Training Programme for the preparation of Qualification by the experts of NCVET, New Delhi	Amit Doegar	2024-04-19	2024-04-19	NITTTR Chandigarh
2.	AI for Future Workforce (in collaboration with Intel)	Dr. Mala Kalra	2024-07-22	2024-07-26	NITTTR Chandigarh

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
3.	Cyber Crime Intervention Officer (CCIO) Program	Amit Doegar	2025-02-03	2025-02-08	NITTTR Chandigarh
4.	Inculcating Universal Human Values in Technical Education	Amit Doegar	2024-05-15	2024-05-17	NITTTR Chandigarh
5.	Cyber Crime Intervention Officer (CCIO) Program	Dr. Mala Kalra	2025-02-03	2025-02-08	NITTTR Chandigarh
6.	ISAC certified Cyber Crime Intervention Officer (ccio)	Er. Shano Solanki	2025-02-03	2025-02-08	NITTTR CHANDIGARH

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Advances in Artificial Intelligence and Computing for Robust Engineering Applications	Dr. Mala Kalra	2024-07-08	2024-07-12	PUNJAB ENGINEERING COLLEGE (Deemed to be University), CHANDIGARH
2.	International Training Program on High Performance Leadership Management Certificate	Shano Solanki	2024-12-16	2024-12-20	Atton Institute Dubai, UAE
3.	Capacity Building Programme in STEM	Amit Doegar	2024-09-15	2024-09-26	Indian Institute of Science Bengaluru, Challakere Campus, Karnataka
4.	Inculcating Universal Human Values in Technical Education	Dr. Mala Kalra	2025-03-10	2025-03-14	Online

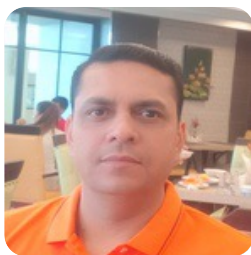
Instructional Material Development

Sr No	Faculty Name	No./Lab Manual Details	Lab Manual Publish. Month	No./Readers Details	Readers Publish. Month
1.	Er. Shano Solanki/ Dr. Mala Kalra	Video Films on Python Programming and its applications in Data Science (in Hindi)		5 videos	
2.	Dr. Amit Doegar	Video Film on Object Detection using Python		1 video	





Curriculum Development Centre



Dr. Rajesh Mehra

Professor & Head

Research Areas - VLSI Design, Advanced Digital Signal Processing, Embedded Design

Er. Parmod Kumar Singla

Associate Professor

Research Areas: Curriculum, Communication Skills, Management, Appropriate Technology for Rural Development, Entrepreneurship Development



Dr. Suresh Kumar Gupta

Associate Professor

Research Areas - Curriculum Development, Civil Engineering

Dr. Meenakshi Sood

Associate Professor

Research Areas - ANN, Antenna, Antenna (Planar, Metamaterial, Fractal), Curriculum Development, Digital Signal & Image Processing, Machine Learning



Curriculum Development Centre

During the year 2024-25, the department has conducted online 34 short term training programs in ICT and Contact Mode, which were attended by 5576 teachers from polytechnics and engineering colleges. The Department has conducted 20 workshops with 360 participations. The department faculty published 04 papers in SCI Journals, 03 papers in Non-SCI Journals. The department also published 02 papers in proceedings of International Conferences.

Sr. No.	Short Term Programmes Conducted
1.	Developing Ethics and Values in Curriculum Implementation
2.	Curriculum Design for Outcome Based Education
3.	Outcome based Education and Accreditation Process
4.	Preparing Students for Placements and Higher Studies
5.	Developing Healthy Work Culture at Work Place
6.	Curriculum development Challenges National Credit Framework, NEP and OBE
7.	OBE Based Curriculum Design
8.	Effective Curriculum Implementation using FOSS
9.	Effective Curriculum Implementation
10.	Mentoring Skills for Effecting Curriculum Implementation
11.	Curriculum Design for Outcome Based Education
12.	Presentation Skills for Effective Curriculum Implementation
13.	Preparing Students for Placements and Higher Studies
14.	Planning, Execution and Evaluation of Project Work
15.	Outcome Based Curriculum Design
16.	Presentation Skills for Effective Curriculum Implementation
17.	Developing Ethics and Values in Curriculum Implementation
18.	Curriculum Development Processes
19.	Curriculum Development aligned with NEP 2020
20.	Accomplishment of Curriculum Objectives using CAD
21.	Planning, Execution and Evaluation of Project Work
22.	Development of Employable Skills
23.	Curriculum Design and Implementation
24.	Outcome based Education and Accreditation Process
25.	Developing Healthy Work Culture at Work Place
26.	OBE Based Curriculum Design
27.	Effective Curriculum Implementation using FOSS
28.	Outcome Based Education for Program Accreditation

Sr. No.	Short Term Programmes Conducted
29.	Mentoring skills for effecting curriculum implementation
30.	Accomplishment of Curriculum Objectives using CAD
31.	Effective Curriculum Implementation
32.	CAD practices to achieve Curriculum goals
33.	Effective Curriculum Implementation
34.	Outcome Based Education in Context with NEP-2020
35.	English Speaking Competency Development

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	30	Haryana	Draft of 30 Diploma Programmes for HSBTE submitted
2.	30	Haryana	Feedback received on the draft of 30 diploma programmes from various experts. The feedback was incorporated in the respective curricula
3.	6	Punjab	Curricula of 1st semester of 6 diploma programmes for Punjab State Board of Technical Education submitted
4.	6	Punjab	Curricula of 2nd semester of 6 diploma programmes for Punjab State Board of Technical Education submitted
5.	5	Maharashtra	Development of Curricula of 5 Under-Graduate Courses (B.Tech) for Indian Institute of Information Technology (IIIT) Nagpur submitted
6.	6	Punjab	Curricula of 24 diploma programmes for Punjab State Board of Technical Education submitted

Curriculum Revised

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	30	Haryana	Revised 30 Diploma courses as per feedback received.
2.	1	Haryana	Revised Diploma Programme of Artificial Intelligence and Machine Learning
3.	1	Haryana	Revised Diploma Programme of Hotel Management and Catering Technology
4.	24	Punjab	Revised 24 Diploma Courses as per feedback received

Curriculum Workshop

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Venue	Total Participants
1.	CP-21-143	18 Workshops for Design and Development of Curricula for various diploma programmes of HSBTE	02-04-2024	18-04-2024	NITTTR Chandigarh	167
2.	CP-24-234	Design of curricula for PSBTE - Textile Design	29-08-2024	29-08-2024	NITTTR	10
3.	CP-24-234	Design of curricula for PSBTE - Chemical Engineering	30-08-2024	30-08-2024	NITTTR Chandigarh	8
4.	CP-24-234	Design of Curricula for PSBTE - Mechatronics	03-09-2024	03-09-2024	NITTTR Chandigarh	12
5.	CP-24-234	Design of curricula for PSBTE - Mechanical Engineering (RAC)	05-09-2024	05-09-2024	NITTTR Chandigarh	8
6.	CP-24-234	Design of curricula for PSBTE - Mechanical Engineering (Tool and Die)	06-09-2024	06-09-2024	NITTTR Chandigarh	11
7.	CP-24-234	Design of Curricula for PSBTE - ECE (Industry Integrated)	06-09-2024	06-09-2024	NITTTR Chandigarh	8
8.	CP-24-234	Design of curricula for PSBTE - Chemical Engineering (Plastic and Polymer)	13-11-2024	13-11-2024	NITTTR Chandigarh	8
9.	CP-24-234	Design of Curricula for PSBTE - ECE (Industry Integrated)	14-11-2024	14-11-2024	NITTTR Chandigarh	8
10.	CP-24-234	Design of curricula for PSBTE - Mechanical Engineering (RAC)	19-11-2024	19-11-2024	NITTTR Chandigarh	7
11.	CP-24-234	Design of Curricula for PSBTE - Mechatronics	21-11-2024	21-11-2024	NITTTR Chandigarh	9
12.	CP-24-234	Design of curricula for PSBTE - Mechanical Engineering (Tool and Die)	22-11-2024	22-11-2024	NITTTR Chandigarh	9

Curriculum Workshop

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Venue	Total Participants
13.	CP-24-234	Design of curricula for PSBTE - Textile Design	03-12-2024	03-12-2024	NITTTR Chandigarh	8
14.	CP-24-245	Design of curricula for IIIT Nagpur “Spiritual Development	10-02-2025	10-02-2025	NITTTR Chandigarh	14
15.	CP-24-245	Design of curricula for IIIT Nagpur “Personal and Social Responsibilities	11-02-2025	11-02-2025	NITTTR Chandigarh	14
16.	CP-24-245	Design of curricula for IIIT Nagpur “Diversity Management	12-02-2025	12-02-2025	NITTTR Chandigarh	14
17.	CP-24-245	Design of curricula for IIIT Nagpur “Vedic Science	13-02-2025	13-02-2025	NITTTR Chandigarh	14
18.	CP-24-245	Design of curricula for IIIT Nagpur “Sensitivity and Sustainability	14-02-2025	14-02-2025	NITTTR Chandigarh	13
19.	CP-24-234	Design of Curricula for PSBTE - Mechatronics	12-03-2025	12-03-2025	NITTTR Chandigarh	8
20.	CP-24-234	Design of curricula for PSBTE - Textile Design	19-03-2025	19-03-2025	NITTTR Chandigarh	10

Research Studies

Sr No.	Title of Research Studies	Faculty Names	Years	Months	Date of Project
1	Impact Study on Implementation of NSQF aligned curriculum in selected polytechnics	Dr. S.K. Gupta	2 Years	0 Month	01-04-2023
2.	Planning and Execution of Online Course in Technical Education	Dr. Meenakshi Sood	2 Years	0 Month	01-04-2023

Research Project Submitted

Sr No	Project Title	Faculty Name	Date
1	Multifaceted Curriculum Challenges in Implementation of National Education Policy (NEP 2020) for Higher Technical Educational Institutes (HETIs)	Dr. Rajesh Mehra, Dr. Meenakshi Sood	18-08-2024

Workshop

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W-1	Implementation of national Credit Framework & Integration of Skills Based Courses in Higher Education Institutes	27-08-2024	30-08-2024	78
2.	W-28	Design of Syllabi for UGC, B.Sc, M.Sc. Prog. EVS	24-03-2025	25-03-2025	19

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Fees (Rs.)
1.	CP-21-143	Consultancy Program	Design of NSQF compliant curriculum of 28 diploma courses for Haryana State Board of Technical Education	8260000
2.	CP-22-182	Consultancy Program	Design of NSQF compliant curriculum of AI & ML for Haryana State Board of Technical Education	295000
3.	CP-22-187	Consultancy Program	Design of NSQF compliant curriculum of Hotel Management and Catering Technology for Haryana State Board of Technical Education	295000
4.	CP-24-234	Consultancy Program	Revision and Design of Curricula of 06 Diploma Programmes making them NSQF Compliant - PSBTE	1770000
5.	CP-24-235	Consultancy Program	Award for developing textbooks for PSBTE&IT	2250000
6.	CP-24-238	Consultancy Program	Development of curricula of 2 diploma programmes for HSBTE	700000
7.	CP-24-241	Consultancy Program	Outcome Based Education Accreditation, Moradabad	118000
8.	CP-24-245	Consultancy Program	Detailed Content Development of five Under Graduate Courses (B.Tech) IIIT Nagpur	885000
9.	CP-21-154	Consultancy Program	Design of NSQF compliant curriculum of 21 diploma courses for Punjab State Board of Technical Education	5369000
10.	CP-23-211	Consultancy Program	Design of NSQF compliant curriculum of 3 Part Time diploma courses for Punjab State Board of Technical Education	354000

Papers published by the Curriculum Development Centre Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"Monitoring and regression analysis of landfill surface temperatures using remote sensing and image processing techniques". International Journal of Remote Sensing, Taylor and Francis Group 45(15), 5158–5174.	Sharma, K., Sood, M., & Kumar, A.
2.	"Adaptive decomposition with guided filtering and Laplacian pyramid-based image fusion method for medical applications". Discov Appl Sci 6, 423 (2024).	Shukla, N., Sood, M., Kumar, A. et al
3.	"3D-Bioprinting and AI-empowered Anatomical Structure Designing: A Review", Current Medical Imaging, Article ID: e15734056259274 vol 20 Published on: 08 April, 2024	Neha Bhardwaj, Meenakshi Sood and Sandeep Singh Gill
4.	"Various Materials and Structures for Heterojunction Organic Solar Cells Design for Efficiency Enhancement" NANO: Brief Reports and Reviews, 2550021 (10 pages), January 2025. DOI: 10.1142/S1793292025500213	Divya Sharma, Rajesh Mehra, Balwinder Raj

Papers published by the Curriculum Development Centre Faculty in International Journal other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"Design of Transfer Learning based Deep CNN Paradigm for Brain Tumor Classification", WSEAS Transactions on Biology and Biomedicine, vol. 21, pp. 162-169, April 2024	Neha Bhardwaj, Meenakshi Sood, SS Gill
2.	"Monitoring, classification and analysis of waste disposal sites using Machine Learning", Procedia Computer Science, Volume 235, 2024, Pages 1558-1567, ISSN 1877-0509,	Kislaye Sharma, Meenakshi Sood
3.	"A Computational and Comparative Analysis of Medical Image Fusion Using Different Transform Domain Techniques " Advances in Mathematical Modelling, Applied Analysis and Computation-Proceedings of ICMMAAC 2023 Lect. Notes Networks Syst., vol. 952 LNNS, pp. 165–186, 2024, doi: 10.1007/978-3-031-56307-2_12. (Springer)	Nirdesh Shukla, Meenakshi Sood, Amod Kumar

Papers published/presented by the Curriculum Development Centre Faculty in International Conferences/Seminars

Sr.No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue	Date	Author (s) Name
1.	"Design and Simulation of Decimator for Digital Signal Processing" Paper presented 9th IEEE International Conference on Mathematics and Computers in Sciences and Industry (MCSI) Rhodes Island, Greece			Dr. Rajesh Mehra
2.	"Deep Learning Framework Design for Diabetic Retinopathy Abnormalities Classification," 2024 4th Interdisciplinary Conference on Electrics and Computer (INTCEC), Chicago, IL, USA, 2024, pp. 1-6, doi: 10.1109/INTCEC61833.2024.10603094.			M. Sood, S. Jain and C. Bhardwaj

Research and Development

No. of M.E. Thesis Guided	3 No's Meenakshi Sood
No. of Ph.D Thesis Awarded	1 No. Completed (Shrishti Choudhary) Guided by Rajesh Mehra

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Universal Human Values (UHV)	P K Singla Dr. S K Gupta	15-05-2024	17-05-2024	NITTTR Chandigarh
2.	Online International Webinar Sustainability from Engineering and Vedic Perspectives	P K Singla Dr S K Gupta	16-01-2025	16-01-2025	Online - NITTTR Chandigarh
3.	Attended Capacity Building Training Programme for the preparation of Qualification by the experts of NCVET, New Delhi	Dr S K Gupta	19-04-2024	19-04-2024	NITTTR Chandigarh
4.	Capacity Building for Promoting Positive Mental Health, Resilience and wellbeing in HEIs	Dr. Meenakshi Sood	27-08-2024	27-08-2024	Online

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Introduction to Universal Human Values	Dr. Meenakshi Sood	27-01-2025	31-01-2025	Online
2.	Capacity building training programme for the preparation of Qualification by the experts of NCVET, New Delhi	Dr. Meenakshi Sood	19-04-2024	19-04-2024	New Delhi
3.	Capacity Building Programme in STEM	Dr. Meenakshi Sood	14-09-2024	26-09-2024	IISC Bengaluru Campus Chalkere, Karnataka
4.	National Discussion-cum-Workshop for Creditisation of Skill-based Programmes & Apprenticeship Training	Dr. Meenakshi Sood	19-11-2024	19-11-2024	NITTTR, Bhopal



Education & Educational Management Department



Dr. A B Gupta

Professor & Head

Research Areas - Curriculum Development,
Curriculum Implementation

Er. Rama Chhabra

Associate Professor

Research Areas – Chemical Engineering, Information
Management



Dr. Amandeep Kaur Sandhu

Assistant Professor

Research Areas - Educational Management,
Educational Technology

Education & Educational Management Department

During the year 2024-25, the department has conducted online 22 short term training programs in ICT and Contact Mode, which were attended by 2862 teachers from polytechnics and engineering colleges. The Department has conducted 01 workshop with 60 participations. The department faculty published 01 paper in SCI Journals, 01 paper in Non-SCI International Journal.

Sr. No.	Short Term Programmes Conducted
1.	Enhancing Performance at Workplace (For Technical and Supporting Staff)
2.	Student Centered Instruction Strategies
3.	Outcome based education
4.	Library Science
5.	Research Methodology
6.	Faculty induction training programme for newly recruited teachers'
7.	Outcome based education
8.	Online learning and evaluation
9.	Soft Skills and Classroom Teaching
10.	Faculty induction training programme for newly recruited teachers
11.	Advanced instructional strategies
12.	Methods of Research & Publication Ethics
13.	Managerial Skills
14.	Personality Development
15.	Effective teaching learning using social media
16.	Online Learning and Evaluation
17.	Preparing Students for Job Interviews
18.	Online Learning and Evaluation
19.	Communication at workplace
20.	Research methodology
21.	Life Skills Development
22.	Systematic plan of delivery for instructions

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	1	Chandigarh	Research Methodology
2.	1	Chandigarh	Advanced Pedagogical Practices

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
1	Impact Assessment Study For Vighyan Jyoti Programme 2024-25	Dr. A B Gupta/Dr. U N Roy/Er. Rama Chhabra/ Dr. Amandeep Kaur	DST, Delhi	2024-05-29

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	CP-24-243	Consultancy	Setting Question Paper and designing marking scheme	Ground Crew Examination Board, Air Warriors, Chandigarh

Papers published by the Education and Educational Management Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	3D printed biomaterials: From fabrication techniques to clinical applications: A systematic review	Amandeep Kaur, Sandeep Singh, Niraj Bala, Sushil Kumar Kansal

Papers published by the Education and Educational Management Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	GREEN SUSTAINABLE BIONANOCOMPOSITES MATERIALS: SHORT REVIEW, Pages 98-106, 10.61552/JMES.2024.03.003	Sandeep Singh, Niraj Bala, Amandeep Kaur

Training Program Attended (In-house)

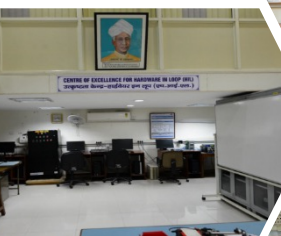
Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	AI for Future Workforce	Dr. A.B. Gupta	2024-07-22	2024-07-26	NITTTR, Chandigarh

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Multipoint Entry and Exit System and Academic Bank of Credits	A B Gupta	2024-07-20	2024-07-20	AICTE, New Delhi
2.	Capacity Building Programmes in STEM related areas	Amandeep Kaur	2024-09-29	2024-10-08	IISc Challakere Campus
3.	Universal Human Values (UHV-I)	Amandeep Kaur	2025-01-20	2025-01-24	Online Organized by AICTE
4.	Nurturing Future Leadership Program	Amandeep Kaur	2024-03-11	2024-03-15	Indian Institute of Management Visakhapatnam
5.	Enhancing Soft Skills and Personality	Amandeep Kaur	2024-02-01	2024-04-30	NPTEL Online Certification Course (MOOC-8 Weeks)
6.	High Performance Leadership Management	Rama Chhabra	2024-12-16	2024-12-20	Atton Institute, Dubai

Instructional Material Development

Sr No	Faculty Name	No./Lab Manual Details	Lab Manual Publish. Month	No./Readers Details	Readers Publish. Month
1.	Amandeep Kaur, Ritu Bala, and Sushil Kumar Kansal	Book Chapter titled Recent Advances in Photodegradation of Various Plastics	November, 2024	Plastic Degradation and Conversion by Photocatalysis (Volume 1): A Sustainable Approach DOI: 10.1021/bk-2024-1489.ch009 ACS Symposium Series; American Chemical Society: Washington, DC.	-



Electrical Engineering Department



Dr. Lini Mathew

Professor & Head

Research Areas - Digital Signal Processing, ANN and Fuzzy Logic, Virtual Instrumentation

Dr. Poonam Syal

Professor

Research Areas - Sustainable Rural Development, Energy Management, Instrumentation for Env. Engg., Assistive Technologies, Research Methodology



Dr. Ritula Thakur

Associate Professor

Research Areas - Real Time modeling & Simulation of Power Systems, Modeling of DFIG based WECS, Embedded systems and Microcontrollers, Quality Analysis and Detection Technology in Food Materials, Sensors and Instrumentation, Power Systems, Power Quality, PLC and SCADA, Micro Grid and Smart Grid

Electrical Engineering Department

During the year 2024-25, the department has conducted 15 short term training programs in ICT and Contact Mode, which were attended by 2383 teachers from polytechnics and engineering colleges. The Department has conducted 2 workshops with 306 participations. The department faculty published 2 papers in SCI Journals, 04 papers in Non-SCI International Journal. The department also published 13 papers in proceedings of International Conferences & Seminars. The Electrical Engineering Department established State of the Art Electric Vehicle Laboratory last year.

Sr. No.	Short Term Programmes Conducted
1.	Raspberry Pi and its Interfacing
2.	Solar Energy - Aspects and Applications
3.	Power Electronic Devices and MicroGrid Simulation Using Typhoon HIL
4.	Climate Change and De-carbonization Technologies
5.	IoT Implementations using Arduino
6.	Hands on Practices on Control of Electrical Machines
7.	Battery Management Systems for Electric Vehicles
8.	Environment and Energy Management
9.	MATLAB and Simulink Programming
10.	Outcome Based Education for Program Accreditation
11.	Sustainable Development Goals -Interventions and Schemes of Govt. of India
12.	Green and Clean Technologies for Environment Sustainability
13.	Smart Grid and Renewable Energy Sources
14.	Artificial Intelligence and Optimisation Techniques using MATLAB
15.	Science, Technology and Innovation for Sustainable Development

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
1.	Development of an Indigenous Compact Single-Stage Buck-Boost integrated Power Pack with Advanced AI-based Energy Efficient Control for Electric Vehicle Propulsion	Dr Ritula Thakur	ANRF-DST	2024-12-31

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W-1	Implementation of national Credit Framework & Integration of Skills Based Courses in Higher Education Institutes	27-08-2024	30-08-2024	78
2.	W-28	Design of Syllabi for UGC, B.Sc, M.Sc. Prog. EVS	24-03-2025	25-03-2025	19

Student Training

Sr No	TAC No.	Name of the Training Programme	Venue	Start Date	End Date	Total Student
1.	ST-1	Electric Vehicles	NITTR, Chandigarh	2025-03-28	2025-03-28	22

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	SP-86	AICTE Karyashala FDP	Integrating Electric Vehicle Design, Simulation and Control into Engineering Education during 5 – 9 August 2024	(i) AICTE - Rs.2,50,000/- (ii) M/s Mathworks India Pvt. Ltd - Rs.49000/-

Papers published by the Electrical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Enhanced Optimization Techniques for Parameter Estimation of Single-Diode PV Modules	Kumar, Madhav, Kaibalya Prasad Panda, Ramasamy T. Naayagi, Ritula Thakur, Gayadhar Panda
2.	Multistage Proportional Integral * (1 + Proportional Integral Derivative) Controller for Energy Management in EV	Shiv Prakash Singh, Lini Mathew

Papers published by the Electrical Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Comparative Analysis of Coal properties and Flue Gas Temperature of Thermal Power Station using Machine Learning	Malay Ranjan Mallik, Ritula Thakur, Piush Verma
2.	Book Chapter - State Estimation and Cell Balancing for Lithium-Ion Batteries Powering Electrical Vehicles - A Comprehensive Review	Ankit Kumar Sharma, Shimi Sudha Letha, Poonam Syal, Sarita Rathee, Ajay Kumar
3.	Design and Development of a Heat Sink for Reducing Thermal Overloading for a Motor Inverter in Electrical Vehicle	Balram Meena, Lini Mathew
4.	A review on importance of PLC and drive to save energy in the process industry	Gobind Kumar Saini, Poonam Syal

Papers published / presented by the Electrical Engineering Department Faculty in International Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue & Published By	Author (s) Name
1.	Technological and Socio-Economic Review of Solar based EV Charging Systems	IEEE International Conference on Power Electronics, Intelligent Control & Energy Systems, Delhi Technological University, Delhi, 26 – 28 April 2024.	Kawal Preet Singh, Poonam Syal, Sourav Bose
2.	Voltage Profile and Power Loss Analysis with PSO-Optimized DG Allocation of 220kV/132kV/33kV Substation at Jamshedpur, India	AIP Conference Proceedings, Volume 3237, Issue 1, February 2025, International Conference on Innovative Approaches in Engineering & Technology: ICIAET-24, April 2024, Proddatur, India	Manish, Lini Mathew
3.	Book Chapter - Performance Improvement of Waste to Energy Plant by Stepped Cyclic Operation of RAM Feeder	Yuan, C. (eds) Proceedings of 5th International Conference on Resources and Environmental Research (ICRER 2023). Environmental Science and Engineering, April 2024. Springer, Cham. pp. 87-100 https://doi.org/10.1007/978-3-031-56359-1_7	Vivek Kumar Srivastava, Poonam Syal
4.	Development of a High-Gain DC-DC Converter for Hydrogen Fuel Cell Based Electric Vehicles	6th International IEEE Conference on Energy, Power and Environment" (ICEPE 2024), National Institute of Technology Meghalaya, 20 - 22 June 2024	Madhav Kumar, Akash Kumar, Jaya Kumari, Kaibalya Prasad Panda, Ritula Thakur, Gayadhar Panda

Papers published / presented by the Electrical Engineering Department Faculty in International Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue & Published By	Author (s) Name
5.	A Review of Micro-Hydro System Topologies Operating at off-Grid Locations	IEEE International Conference on Computer, Electronics, Electrical Engineering and their Applications (IC2E3-2024) held at NIT, Uttarakhand on 6 - 7 June, 2024	Pratibha Chauhan, Poonam Syal, Sumit Kumar
6.	Energy Managment and Performance Analysis of Solar Microgrid using Measured Data	DST SERB Sponsored " International Conference on Sustainable Computing and Green Energy (ICSSCGE-2024) during 24-25 June, 2024 Organised by School of Technology, Woxen University Hyderabad	Soujanya Manda, Ritula Thakur, Shimi S L
7.	Simulation Modelling of Community Based Off Grid Microgrid	IEEE 4th International Conference on "Sustainable Energy and Future Electric Transportation" (SEFET-2024), organized by Departmental of Electrical and Electronics Engineering, GRIET, Hyderabad during 31st July-3Aug 2024	Soujanya Manda, Ritula Thakur, Shimi S L
8.	Performance Enhancement of Micro Hydro Power Plant with Improved Load Controller	IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University held from 10 to 12 October, 2024 at Riga, Latvia	Pratibha Chauhan, Poonam Syal
9	Retrofitting educational institution building to achieve net zero energy building – A case study in Bihar, India	3rd International Conference on Smart Grid Energy Systems and Control "Green and Sustainable Energy Systems" (SGESC-2025) organized by Electrical Engineering Department National Institute of Technology, Kurukshetra from 21st Feb to 23rd Feb 2025	Ragunath A, Poonam Syal
10.	Harmonic Distortion Analysis of Electric Vehicle Charging Using Real-Time Data	IEEE 2nd International Conference on Advancement & Key Challenges in Green Energy and Computing(AKGEC 2024)	Anju Bala, Ritula Thakur, Shimi Sudha Lata
11.	Design of Highly Efficient Switched Reluctance Motor for Heavy Duty Exhaust Fan for Air Ventilation System	IEEE International Conference on Smart and Sustainable Developments in Electrical Engineering held on 28 Feb. to 2 March, 2025 at Indian Institute of Technology (Indian School of Mines) Dhanbad	Gurbhej Singh Kalyan, Poonam Syal
12.	Wavelet & Transfer Learning based Prosthetics Gestures Control	IEEE International Conference on Automation & Computation organised by Graphic Era Hill University, Dehradun, 4 - 6 March, 2025	Vidya, Poonam Syal
13.	Comparative Analysis of Advanced State of Charge Estimation Techniques in Lithium-Ion Batteries Powering Electric Vehicles	IEEE International Conference on Energy, Power and Environment, held from 9 to 11, May 2025, organised by National Institute of Technology, Meghalaya	Ankit Sharma, Poonam Syal, Shimi S.L.

Papers published / presented by the Electrical Engineering Department Faculty in National Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Venue & Published By	Author (s) Name
1.	Integration of Ground Mounted Solar Power Plant and Peer to Peer Solar Network using Battery Energy Storage System to Overcome the Generation Loss and Revenue Realization by Installing EV Charger	37th National Convention of Computer Engineers & National Seminar on Application of AI and Machine Learning, organized by The Institution of Engineers (India).	Swati Dharupta, Virender Kumar, Vaibhav Gangta, Ajay Kumar, Lini Mathew

Research and Development

No. of M.E. Thesis Guided	10
No. of Ph.D Thesis Awarded	1

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Universal Human Values (UHV)	Prof. Poonam Syal	2024-05-15	2024-05-17	NITTTR Chandigarh
2.	AI for Future Workforce	Dr Ritula Thakur	2024-07-22	2024-07-26	Department of Computer Science and Engineering, National Institute of Technical Teachers Training & Research, Chandigarh
3.	AICTE Karyashala FDP on "Integrating Electric Vehicle Design, Simulation, and Control into Engineering Education"	Dr Ritula Thakur	2024-08-05	2024-08-09	Department of Electrical Engineering, NITTTR, Chandigarh

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Practice on Universal Electronics Trainer Kit	Dr Ritula Thakur	2024-06-04	2024-06-06	Centre for Outreach and Digital Education, Indian Institute of Technology Madras
2.	Real time Implementation of Power Electronics Converters in Grid Integration of Renewable Energy Sources	Dr Ritula Thakur	2024-07-08	2024-07-12	Department of Electrical Engineering, Malaviya National Institute of Technology (MNIT) Jaipur
3.	Capacity Building Programme in STEM	Poonam Syal	2024-09-15	2024-09-26	Indian Institute of Science Bengaluru, Challakere Campus, Karnataka
4.	HIL Solutions for E-Mobility Workshop	Dr. Lini Mathew	2024-11-04	2024-11-07	Typhoon HIL Office, Novi Sad, Serbia
5.	Practice on Universal Electronics Trainer Kit	Dr. Lini Mathew	2024-06-04	2024-06-06	Centre for Outreach and Digital Education, Indian Institute of Technology Madras
6.	HIL Solutions for E-Mobility Workshop	Dr Ritula Thakur	2024-11-04	2024-11-07	Typhoon HIL Office, Novi Sad, Serbia

Instructional Material Development

Sr No	Faculty Name	No./Lab Manual Details	Lab Manual Publish. Month	No./Readers /Textbook Details	Readers Publish. Month
1.	Dr. Ritula Thakur	Instructional Manual on "Arduino and Its Interfacing"	September		
2.	Dr Ritula Thakur			Book on "Microcontroller Applications", as per AICTE model curriculum for 5th Semester Diploma students published on ekumbh	October



Electronics & Communication Engineering Department



Dr. Sukhdeep Singh Dhami

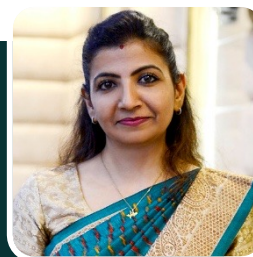
Professor & Head

Research Areas – Mechatronics, Automation & Control System, Modeling & Simulation

Dr. Kanika Sharma

Associate Professor

Research Areas – Embedded System Design, Digital System Design, Wireless Sensor Network



Dr. Balwinder Singh Dhaliwal

Associate Professor

Research Areas : Antenna (Fractal, MIMO), ANN, Digital Signal Processing, Soft Computing

Electronics & Communication Engineering Department



Dr. Balwinder Raj

Associate Professor (on lien to NIT Jalandhar)

Research Areas - Nanoelectronic Devices and Circuits, VLSI & Embedded System Design, Modeling and Simulation, FPGA Based Design



Dr. Garima Saini

Assistant Professor

Research Areas - Advanced Digital Communication, Wireless & Mobile Communication, Antenna

Electronics & Communication Engineering Department

During the year 2024-25, the department faculty took 23 courses for Regular and Modular M.E. programmes. Total 26 short-term training programs in Contact and ICT Mode, which were attended by 3134 teachers from polytechnics and engineering colleges. The Department has conducted 01 webinar with 80 participations. The department also conducted 02 Student Training Programmes of 04 Weeks and 06 Weeks duration with total of 22 student's participation. The department faculty published 2 papers in SCI Journals, 05 papers in Non-SCI Journals. The department published 12 papers in proceedings of International Conferences. The faculty of the department attended online and offline training programs during the year. The faculty also submitted research proposal to the funding agency.

Sr. No.	Short Term Programmes Conducted
1.	Advancements in Antenna and Wireless Technologies (ICT-04)
2.	Wireless Embedded Systems (ICT-03)
3.	VLSI Design using CADENCE Tools (ID-7)
4.	Communication Technologies: Connectivity Evolutions (ICT-11)
5.	Recent Advances in on-Chip optics (ECE-2)
6.	Scilab Programming for Emerging Areas Applications
7.	IoT Advancements in Emerging Technologies (ECE-6)
8.	IoT Enabled Embedded Systems (ICT-31)
9.	5G and its Use Cases (ICT-30)
10.	Smart System Integration with Wireless Sensors (ICT-40)
11.	Digital Twinning (ID-13)
12.	Microstrip Patch Antenna Design Techniques and Tools (ECE-4 & ICT-51)
13.	VLSI Design and FPGA Implementation using XILINX Tools (ID-18)
14.	Mechatronics System Design (ID-9)
15.	IoT and Embedded Systems (ICT-52)
16.	Electronics Lab Essentials: Comprehensive Equipment Operation (ECE-10)
17.	AI for Engineering Applications (COE-3)
18.	Drone Technologies Opportunities and Regulations (ECE-11)

Sr. No.	Short Term Programmes Conducted
19.	AI for SDG under Unnat Bharat Abhiyaan (ID-24)
20.	VLSI Design and FPGA Implementation using XILINX Tools (ID-18)
21.	Free ICT Tools for Effective Teaching-Learning (ID-2)
22.	Wireless Communication and Technologies using NETSIM (ECE-7)
23.	ICT Tools for Smart Educators (ID-28)
24.	Scilab Programming for Emerging Areas Applications (ID-22)
25.	Role of Indian Knowledge & Skill Development (ID-30)
26.	Teaching ECE Lab subjects using Free Simulators (ECE-8)

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	-	-	Regular M.E. ECE (VLSI Design) 1. System on Chip design 2. Semiconductor devices 3. Analog IC Design 4. Hardware Description Language 5.Digital IC Design

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
1	Customized 3-D Printed Quad Band Stacked Microstrip Patch Antenna Design for L1, L2, L5 & S bands	Dr. Balwinder Singh Dhaliwal, Dr. Garima Saini	ISRO	2024-05-06

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W-23	International Webinar on Semiconductors in the Automotive Industry and Software Defined Vehicle Architecture (80)	02.01.2025		80

Student Training

Sr No	TAC No.	Name of the Training Programme	Venue	Start Date	End Date	Total Student
1.	CP-09	04 Weeks Industrial Students Training on "VLSI Design Tools"	NITTTR, Chandigarh	1/07/2024	26/7/2024	20
2.	CP-09	6 Weeks Industrial Students Training on " Embedded system Design and Internet of Things"	NITTTR, Chandigarh	1/07/2024	09/08/2024	02

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	CP-03	Testing	Antenna Testing	CP-03

Papers published by the Electronics & Communication Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"Fault and Location Detection in Planar Antenna Array Using Tuned Stacking Ensemble Machine Learning Approach", Wireless Personal Communications, Springer Nature, 1323- 1348 (2024), Accepted:7 March 2024, Published online- 8th April 2024 , https://doi.org/10.1007/s11277-024-10942-6	Atul M. Kulkarni, Garima Saini, Shyam S. Pattnaik, Shubhranshu Pattnaik,
2.	"Design of High-speed and 6-bit Flash ADC Module for Non-Contact Vital Sign Signal Processing in Biomedical Application", Biomedical Application. Analog Integr Circ Sig Process, 123, 25 (2025). https://doi.org/10.1007/s10470-025-02376-2 .	Pushparaj Pal, Banoth Krishna, Amod Kumar, Sandeep Singh Gill & Garima Saini,

Papers published by the Electronics & Communication Engineering Department Faculty in International Journal other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"An Improved Cluster Head Rotation approach for Sensor Networks", CINEFORUM Journal, ISSN: 0009-7039, Vol. 64, No. 2, pp. 84-88, June 2024	Birbal Kumar Rajak, Kanika Sharma
2.	"A review on opportunistic routing protocols in Wireless Sensor Networks" International Research Journal of Modernization in Engineering Technology and Science 9IRJMETS) ISSSN: 2582-5208, vol.6, Issue 5, May 2024	Mohd Shariq Mahboob, Kanika Sharma
3.	"Design of High Speed Low-Power SRAM cell using FinFET in the Stack Method for medical applications" WEAS transactions on Biology and Biomedicine (Special Issue in memoriam Stamatis Vassiliadis)	Monika Sharma, Sandeep S.Gill and Kanika Sharma, Banoth Krishna,
4.	Fake Indian Currency detection using digital image processing	Harjeet Kaur, Amod Kumar, Kanika Sharma
5.	Improved Dual-Tier Cluster-Based Routing Protocol for Mobile Wireless Sensor network	Gaurav Goyal, Kanika Sharma

Papers published / presented by the Electronics & Communication Engineering Department Faculty in International Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	"Design and Performance Analysis of a Polyimide Film Substrate-Based Flexible Microstrip Antenna With Different Thicknesses for 2.45 GHz ISM Band Applications," Proceedings of 5 th IEEE International Conference on Recent Trends in Computer Science and Technology (ICRTCST 2024), pp. 371 – 375, 15-16 April, 2024, Jamshedpur, Jharkhand, India.	IEEE & Jamshedpur	Rahul Singh, Balwinder S. Dhaliwal, Garima Saini
2.	"Performance of Rectangular Microstrip Antenna on Various Infill Density of 3D Printed ASA Substrate," Proceedings of Second International Conference on Networks, Multimedia and Information Technology (NMITCON), Bengaluru, India, 09 – 10 August, 2024, pp. 1-7, doi: 10.1109/NMITCON62075.2024.10699031.	IEEE & Bengaluru	Manoj Kumar, Garima Saini, Balwinder S. Dhaliwal

Papers published / presented by the Electronics & Communication Engineering Department Faculty in International Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
3.	"3D Printed Varying Infill Density Thermoplastic Polyurethane Substrate Based Flexible Antennas For IoT Applications," Proceedings of International Conference on Electrical, Electronics and Computing Technologies (ICEECT), Greater Noida, India, 29 – 31 August 2024.	IEEE & Greater Noida	Kamal Gurgar, Garima Saini, Balwinder S. Dhaliwal
4.	"Design and Analysis of a 3D-Printed ASA Substrate based Antenna for Wi-Fi 6E Application," Proceedings of International Conference on Electrical, Electronics and Computing Technologies (ICEECT), Greater Noida, India, 29 – 31 August 2024.	IEEE & Greater Noida	Manju, Garima Saini, Balwinder S. Dhaliwal
5.	"Effect of Thickness on Dielectric Properties of 3D Printed TPU Substrate for Patch Antenna Design," Proceedings of International Conference on Electrical, Electronics and Computing Technologies (ICEECT), Greater Noida, India, 29 – 31 August 2024.	IEEE & Greater Noida	Manish Bijaraniya, Balwinder S. Dhaliwal, Garima Saini
6.	"Multilayer Flexible Substrate Antenna for Smart Wearable Electronics," 2024 International Conference on Smart Electronics and Communication Systems (ISENSE), Kottayam, India, 06 – 07 December 2024, pp. 1-5, doi: 10.1109/ISENSE63713.2024.10872120	IEEE & Kerala	A. Singh, B. S. Dhaliwal and G. Saini
7.	"Extraction of Signal in Noncontact Human Vital Signs Signal Using Machine Learning Approaches", International Conference on Signal, Machines, Automation, and Algorithm, SIGMAA 2023. Advances in Intelligent Systems and Computing, vol 1461, pp. 421-432, Springer, Online ISBN978-981-97-6352-8	Springer & New Delhi	Pushparaj Pal, Amod Kumar, Garima Saini, Nuzhat Fatema

Papers published / presented by the Electronics & Communication Engineering Department Faculty in International Conferences/ Seminars

Sr. No	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
8.	Parameter Estimation in Design of 5.2 GHz Rectangular U Slot Microstrip Patch Antenna with ANFIS", Proceedings of World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2024), 22-23 February, 2024, India, published In: A.K., Tripathi, D., Anand, A.K. Nagar, (eds) Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-97-4496-1_35 (Published on 01 October, 2024)	Springer, Singapore	H. Kaur, and B.S. Dhaliwal
9.	"Energy Efficient Routing algorithm based on an Improved Cluster Head rotation approach for Wireless Sensor Networks", 5th International Conference on Sustainable Communication Networks and Application	(ICSCNA), 11-13 Dec. 2024.	Birbal Kumar Rajak, Kanika Sharma
10.	Routing Protocols for Mobile Wireless Sensor Networks: A Review", 2 nd International Conference on Pervasive Computing Advances and Applications (PerCAA 2024)	IET Conference Proceedings, Vol. 2024, Issue 38.	Gaurav Goyal, Kanika Sharma
11.	Improved Adaptive Ranking Based Routing Algorithm for Wireless Sensor Networks	IEEE & Gautam Buddha Nagar	Mohd Shariq Mahboob, Kanika Sharma
12.	Miniaturized Antenna Array using Additive Manufactured PLA Substrate with Fractal Geometry and ANN Assisted Fractal Dimensions, "2024 IEEE Future Networks World Forum (FNWF), pp. 1-5, 202 979-8-3503-7949-5/24/\$31.00 ©2024 IEEE DOI: 10.1109/FNWF63303.2024.11028779	IEEE & Dubai	Garima Saini, Atul M Kulkarni, Shyam S Pattnaik

Research and Development

No. of M.E. Thesis Guided	16
No. of Ph.D Thesis Awarded	-

Training Program Attended (In-house)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Universal Human Values organized by EDIC and CDC department in collaboration with AICTE in collaboration with AICTE	GS	15/05/2024	17/05/2024	NITTTR CHD
2.	AI in Future Workforce organized by CSE Department in Collaboration with Intel.	GS	22/07/2024	26/07/2024	Online
3.	AICTE Karyashala FDP on "Integrating Electric Vehicle Design, Simulation, and Control into Engineering Education"	Dr Ritula Thakur	2024-08-05	2024-08-09	Department of Electrical Engineering, NITTTR, Chandigarh

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	International Training Program on "High Performance Leadership Management"	Dr. Kanika Sharma	16.12.2024	20.12.2024	Atton Institute, Dubai, UAE
2.	Practice on Universal Electronics Trainer Kit	Dr. Kanika Sharma	04.06.2024	06.06.2024	IIT Madras
3.	Cyber Crime Intervention Program in collaboration with ISAC	Dr. Kanika Sharma, Dr. Balwinder S. Dhaliwal and Dr. Garima Saini	03/02/2025	07/02/2025	Online

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
4.	Capacity Building for Promoting Positive Mental Health, Resilience and Wellbeing in HEIs' conducted by Department of Higher Education, Ministry of Education, Govt. of India in online mode on	Dr. Balwinder S. Dhaliwal	27th August, 2024	27th August, 2024	Online
5.	Capacity Building Programmes in STEM" conducted by IISc, Bengaluru	Dr. Balwinder S. Dhaliwal	29th September, 2024	08th October, 2024	IISc, Bengaluru Challakere Campus
6.	MDP titled "Soft Skills for Interpersonal Effectiveness: Skill and Attitude Enhancement Lab"	Dr. Balwinder S. Dhaliwal	18th November, 2024	21st November, 2024	IIM Kozhikode
7.	5G/ 6G Wireless Technologies, NIT Kurukeshtra	Dr. Garima saini	17/04/2024	21/04/2024	Online
8.	Empowering Connectivity: Wearable Antennas for Wi-Fi and 5G Applications" organized by IEEE Student Branch and IEEE Communication society SBC MNNIT Allahabad	Dr. Garima saini	29 April, 2024.	29 April, 2024.	Online



Entrepreneurship Development & Industrial Coordination Department



Dr. Niraj Bala

Professor & Head

Research Areas - Entrepreneurship Development, Patenting, Business Startup, Skill Promotion and Rural Development, Industrial Coordination, Manufacturing processes

Dr. Suresh Kumar Dhameja

Professor (on lien to CPSC Manila)

Research Areas – Entrepreneurship Development, Industry Institute Interaction, Technical and Vocational Education and Training



Dr. Harsh Vardhan Samalia

Associate Professor

Research Areas - Strategic Management, Informal Competition, Digital Transformation of Organizations, Behavioral Aspects of Information Systems

Entrepreneurship Development & Industrial Coordination Department



Er. Amardev Singh

Assistant Professor

**Research Areas – Entrepreneurship Development, IPR,
Technology Adoption and Management**



Entrepreneurship Development & Industrial Coordination Department

During the year 2024-25, the department has conducted online 30 short term training programs in ICT and Contact Mode, which were attended by 2020 teachers from polytechnics and engineering colleges. The Department has conducted 3 workshops with 123 participations. The department faculty published 1 papers in SCI Journals, 02 papers in Non-SCI International Journal and 02 in Non-SCI National Journal.

Sr. No.	Short Term Programmes Conducted
1.	Skill Development for Business Start-ups
2.	Design Thinking for Start-ups
3.	Innovation, Incubation for Business Start-up
4.	Managerial and Financial Skills for Entrepreneurs
5.	Project Management
6.	Developing Thinking Skills - Significance, Process and Methods
7.	Skill Development for Employability
8.	Design Thinking and Innovation Management for Startups
9.	Government Initiative for Entrepreneurship Promotion
10.	Fashion Technology and Management
11.	MSME - Start-up, Promotion and Management
12.	Nurturing Intent, Initiative, and Innovation for Business Start-ups
13.	Setting up a Business Start-up in Information Technology
14.	Fostering Research and Development in Academic Institutions
15.	Education in the METAVERSE Era
16.	Project Management for Business Start-ups
17.	Management skills for Professional Teacher Excellence
18.	Role of IPR in Library Sciences
19.	Employability Skills for Industry 4.0
20.	Employability Skills for Industry
21.	Enhancing Research Capabilities for Academic Career Progression

Sr. No.	Short Term Programmes Conducted
22.	Managing Business Start- ups for making Self- reliant India
23.	Strengthening Industry Academia Integration
24.	Business Start-ups and IPRs
25.	Entrepreneurship and Innovation Management for Aatam Nirbhar Bharat
26.	Motivation, Team Building and Creativity in Entrepreneurship
27.	Emerging Technologies in Micro and small Enterprises
28.	Enhancing Research Capabilities for Academic Career Progression
29.	Universal Human Values
30.	Setting up a Business Start-up in Information Technology

Research Studies

Sr No.	Title of Research Studies	Faculty Names	Years	Months	Date of Project
1.	Technical Education in India, Past, Present and Future Technical Education in India, Past, Present and Future	Prof Rakesh Wats, Prof S S Gill, Prof Pankaj Sharma, Dr Harsh Vardhan Samalia			Ongoing

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W - 8	Workshop on Augmenting Life and Professional Skills for newly recruited staff	2024-08-21	2024-08-21	44
2.	W - 23	EBSCO Education Suite	2024-09-18	2024-09-18	56
3.	W - 15	3-day Microsoft Learn for Educators (MSLE) AI Bootcamp Hybrid mode from	2024-12-18	2024-12-20	23

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	CP-23-204	Consultancy Program	Third Party Audit under RTI Act, 2005	Various Organisations / Institutions
2.	CP-24-226	Consultancy Program	Third Party Audit under RTI Act, 2005	Third Party Transparency Audit under RTI Act

Papers published by the Entrepreneurship Development & Industrial Coordination Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	3D printed biomaterials: From fabrication techniques to clinical 3D printed biomaterials: From fabrication techniques to clinical applications: A systematic review, European Polymer Journal, Vol. 227, 2025, https://doi.org/10.1016/j.eurpolymj.2024.113606 . Impact Factor: 5.8	Amandeep Kaur, Sandeep Singh, Niraj Bala, S.K. Kansal

Papers published by the Entrepreneurship Development & Industrial Coordination Department Faculty in International Journal other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Microstructure, microhardness and wear properties investigation in friction stir processing of stir cast Mg/B4C metal matrix composite Surf. Topogr.: Metrol. Prop. Vol. 13. DOI 10.1088/2051-672X/ada9d0.	Amandeep Singh, Palwinder Singh, Amardeep Singh, Baljinder Ram and Niraj Bala
2.	Optimized Load Balancing Scheme to Enhance the Efficiency of the WLAN. International Journal of Performability Engineering, 2024, 20(6): 391-399. doi: 10.23940/ijpe.24.06.p6.391399	Simarjit Singh Malhi, Raj Kumar, and Amardev Singh

Papers published by the Entrepreneurship Development & Industrial Coordination Department Faculty in National Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"Strategic Management of Intellectual Property Rights for Sustainable Competitive Advantage: A Study of Indian Chemical Industry", Journal of Intellectual Property Rights; Vol. 29, 2024, pp 155-164; DOI: 10.56042/jipr.v29i3.727; {Scopus Indexed}	Hergovind Singh, Harsh Vardhan Samalia and Y V R Murthy

Papers published by the Entrepreneurship Development & Industrial Coordination Department Faculty in National Journals

Sr. No.	Name of the Paper Published	Author (s) Name
2.	Optimized Load Balancing Scheme to Enhance the Efficiency of the WLAN. International Journal of Performability Engineering, 2024, 20(6): 391-399; DOI: 10.23940/ijpe.24.06.p6.391399	Simarjit Singh Malhi, Raj Kumar, and Amardev Singh

Research and Development

No. of M.E. Thesis Guided	01
No. of Ph.D Thesis Awarded	-

Training Program Attended (In-house)

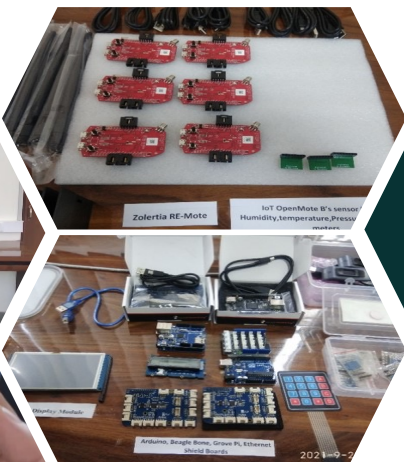
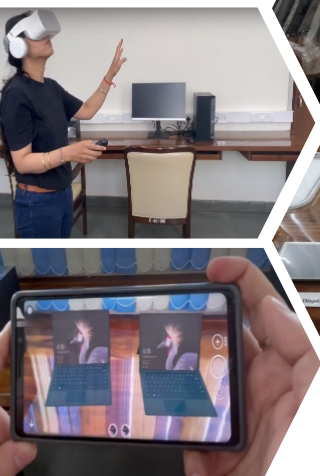
Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Universal Human Values (UHV)	Niraj Bala	2024-05-15	2024-05-17	NITTTR Chandigarh
2.	AI for Future Workforce	Dr. Harsh Vardhan Samalia	2024-07-22	2024-07-26	Online; Department of Computer Science and Engineering, National Institute of Technical Teachers Training & Research, Chandigarh

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Labour Market Information Systems	Dr. SK Dhameja	2024-06-17	2024-06-21	International Training Centre, International Labour Organisation, Turin
2.	Capacity Building Programmes in STEM related areas	Dr. Harsh Vardhan Samalia	2024-09-29	2024-10-08	IISc Bengaluru Campus, Challakere, Karnataka

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
3.	Artificial Intelligence (AI) for Managers and Leaders - Strategies and Implementation	Dr. Harsh Vardhan Samalia	2024-12-09	2024-12-13	Atton Institute Dubai, UAE
4.	High Performance Leadership Management Certificate	Niraj Bala	2024-12-16	2024-12-20	Atton Institute Dubai, UAE
5.	"Leadership Development for Aligning Organization's Strategy to Sustainable Development Goals (SDGs)"	Er. Amardev Singh	2024-12-19	2024-12-23	Sharjah, UAE
6.	"Inculcating Universal Human Values in Technical Education"	Er. Amardev Singh	2025-01-27	2025-01-31	Online, Conducted by AICTE
7.	Cyber Crime Intervention Officer (CCIO) Program	Dr. Harsh Vardhan Samalia	2025-02-03	2025-02-07	Online: ISAC Foundation



Information Management & Emerging Engineering Department



Dr. Sandeep Singh Gill

Professor & Head

Research Areas - VLSI CAD, Soft Computing Techniques, Engineering Management



Dr. Maitreyee Dutta

Professor

Research Areas - Digital Signal & Image Processing, Data Warehousing & Data Mining



Dr. KG Srinivasa

Professor (on lien to IIIT Raipur, Chhattisgarh)

Research Areas - High Performance Computing, Cloud Computing, Data Science, IoT, Digital Pedagogy

Information Management and Emerging Engineering Department

During the year 2024-25, the department has conducted online 07 short term training programs in ICT and Contact Mode, which were attended by 1253 teachers from polytechnics and engineering colleges. The Department also organized 08 Consultancy Programmes to various organizations and Universities and trained 436 participants. The Department has conducted 07 workshops with 278 participations. The department faculty published 11 papers in SCI Journals, 01 papers in Non-SCI International Journal, 08 in International Conferences and 03 in National Conferences.

Sr. No.	Short Term Programmes Conducted
1.	Applications of IOT- Project Based
2.	OBE in the Context of NEP
3.	Data Science and Machine Learning
4.	Data Analysis of Cyber Attacks through ML and Deep Learning
5.	Applications of AI in Electronics System Design
6.	IOT and Data Analysis of Sensor Data
7.	Scilab Programming for Emerging Areas Applications

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	01	All States	Curriculum developed for PG Diploma in Internet of Things

Research Project Granted

Sr No	Project Title	Faculty Name	Sanction Date	Funding Agency
1.	Design and Development of System-on-Chip for Single Lead Wearable Electrocardiogram	Prof. S.S. Gill (PI) Dr. Balwinder Raj (Co-PI)		SMDP-C2S, Meity

Research Project Granted

Sr No	Project Title	Faculty Name	Sanction Date	Funding Agency
2.	Technical Education in India: Past, Present and Future	Prof.R K Wats, Prof.S.S.Gill, Prof.Pankaj Sharma, Dr.H.V.Samalia		AICTE
3.	eSLM Development for online programmes of CDOE,CUHP	Prof.S.S.Gill, Prof. Maitreyee Dutta		CUHP

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W-1	Workshop on NEP 2020 and NCRF in Hybrid Mode	30.08.2024	30.08.2024	54
2.	W-9	Workshop on Development and Implementation of IDP and NCrF	27.08.2024	27.08.2024	14
3.	W-10	Workshop on Design and Development of Courses for the Teaching and other Instructional Staff for Capacity Building in HEIs	28.08.2024	28.08.2024	21
4.	W-12	Status of Implementation of National Education Policy (NEP 2020) & the Way Forward in Higher Education Institutes	05.09.2024	05.09.2024	31
5.	W-18	O Plan Workshops for the year 2025-26 (Rajasthan)	12.12.2024	12.12.2024	54
6.	W-22	Sustainability from Engineering and Vedic perspectives by Dr. Vikram M. Pattarkine	16.01.2025	16.01.2025	78
7.	W-24	Meeting with Delegates of Tanzania	16.01.2025	16.01.2025	24

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.		Consultancy Program	Capacity Building Programme	STRIVE Rajasthan
2.		Consultancy Program	Train to Trainers at SRM University, A.P.	SRM University, A.P.
3.		Consultancy Program	FDP on Emerging Technology from 25 to 28 June, 2024 at Indo Global College, New Chandigarh	Indo Global College, New Chandigarh
4.		Consultancy Program	Outcome Based Education and Accreditation	Vignyan University, Guntur
5.		Consultancy Program	Outcome Based Education and Accreditation	DTE Gujarat
6.		Consultancy Program	eSLM Development for online programmes of CDOE,	CUHP
7.		Consultancy Program	6 months training and 6 weeks training on VLSI Design Tools for UG students (Even semester 2024/June-July 2024)	
8.		Consultancy Program	Employability skills program for polytechnic colleges. 16.12.24-20.12.2024	Wadhwani Foundation.
9.		Consultancy Program	Outcome based education and accreditation,	SIU Nagpur

Papers published by the Information Management and Emerging Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	SuperVidConform: Conformation Detail-preserving Network (CDPN) for Video Super-resolution	Sindge, Renuka Sambhaji, Dutta, Maitreyee, and Saini, Jagriti
2.	Robot-assisted indoor air quality monitoring and assessment: a systematic review	J Saini, M Dutta, J Marques
3.	A systematic literature review on image splicing detection and localization using emerging technologies	N., Chithra.R., Dutta, M. & J. Saini

Papers published by the Information Management and Emerging Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
4.	Machine Learning for Indoor Air Quality Assessment: A Systematic Review and Analysis	Saini. J, Dutta. M & Marques. G
5.	Design and Development of Hypertuned Deep learning Frameworks for Detection and Severity Grading of Brain Tumor using Medical Brain MR images(SCIE, Scopus)	N.Bhardwaj, M.Sood and S.S.Gill
6.	3D-Bioprinting and AI-empowered Anatomical Structure Designing(SCIE, Scopus)	N.Bhardwaj, M.Sood and S.S.Gill
7.	Design of Transfer Learning based Deep CNN Paradigm for Brain Tumor Classification. (Scopus)	N.Bhardwaj, M.Sood and S.S.Gill
8.	"Design of High-Speed Low-power SRAM Cell using FinFET in the Stack Method for Medical Applications", WSEAS Transactions on Biology and Biomedicine. (Scopus)	Monika Sharma, Sandeep Singh Gill, Kanika Sharma, Banoth Krishna.
9.	Design of high speed and 6-bit flash ADC module or non-contact vital sign signal processing in biomedical application, Analog Integrated Circuits and Signal Processing(SCIE, Scopus)	P Pal, B Krishna, A Kumar, SS Gill, G Saini
10.	Design of High-Speed 16-bit Flash ADC for OFDM Receiver Channel Estimation	Banoth Krishna, Sandeep Singh Gill, Amod Kumar
11.	A new representation in 3D VLSI floorplan: 3D O-Tree.	Gupta, R., Gill, S.S.

Papers published by the the Information Management and Emerging Engineering Department Faculty in International Journal other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Super-Fuse: Fuzzy Input Enhancement Using Efficient Video Super-Resolution Deep Fusion Network for Public Safety	Sindge, Renuka Sambhaji & Maitreyee Dutta

Papers published / presented by the Information Management and Emerging Engineering Department Faculty in International Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	Enhancing Passive Digital Image Splicing Forensics using Data-Efficient Image Transformer and Lightweight Pretrained ShuffleNet-V2 Models – A Comparative Analysis	International Conference on Trends in Engineering Systems and Technology (ICTEST-2024) organized by Govt. Model Engineering College, Thrikkakara, Kerala held during 11-13 April, 2024	Chithra Raj N, Maitreyee Dutta, Jagriti Saini
2.	Classification of Brain Tumor using Deep Learning	International Conference on Emerging Trends in Technology and Management organized at Maharaja Agrasen Institute of Technology, Delhi. Best Paper Award received	Manisha Siyag, Maitreyee Dutta
3.	IoT Enabled Environmental Monitoring and Forecasting with GSM Based Alerts	10th IEEE International Smart Cities Conference on “Smart Cities: Revolution for Mankind at Pattaya, Thailand	Jagriti Saini, Maitreyee Dutta, Goncalo Marques
4.	English-to-Hindi Speech-to-Speech Translation of Interviews with Automatic Voice Switching	Electrical Electronics and Computing Technologies (ICEECT) Greater Noida, India, 2024, pp. 1-6, doi: 10.1109/ICEECT61758.2024.10739125	Mahendra Gupta and Maitreyee Dutta
5.	Enhancing Passive Digital Image Splicing Forensics Using Data-Efficient Image Transformer and Lightweight Pretrained ShuffleNet-V2 Models - A Comparative Analysis,	2024 First International conference on Trends in Engineering Systems and Technologies (ICTEST), Kochi, India, 2024, pp. 1-8, DOI : 10.1109/ICTEST60614.2024.10576181.	Chithra Raj N, Maitreyee Dutta, Jagriti Saini
6.	Design and implementation of Low Power Energy Efficient 14T Hybrid Full Adder for Multiplier Applications	2025 IEEE 14 th International Conference on Communication Systems and Network Technologies(CSNT), Bhopal, India,2025, pp. 713-718, dio: 10.1109/CSNT64827.2025.10968814	N.K. Garg, S.S. Gill and K.Sharma.
7.	High Input impedance and power efficient instrumentation amplifier for biomedical applications	2 nd International conference on Pervasive Computing Advances and Applications (PerCAA 2024), IET Conference Proceedings, Volume 2024, Issue 38, https://doi.org/10.1049/icp.2025.0788	Pravej Kumar Tanwar, Sandeep Singh Gill and Balwinder Raj
8.	Comparative Analysis 6Tm 8T and 10T SRAM in CMOS and FinFET Technologies.	A Review,”2024 International Conferenceon Computer, Electronics, Electrical Engineering & their Applications(IC2E3), Srinagar Garhwal, Uttarakhand, India, 2024, pp. 1-6, dio: 10.1109/IC2E362166.2024.10827672	M. Sharma, S.S. Gill and K Sharma

Papers published / presented by the Information Management and Emerging Engineering Department Faculty in National Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	Deep Learning-Based Super-Resolution Techniques: A Comparative Analysis With Recent Insights, Proceedings on Engineering Sciences ISSN: 2620-2832 (print version); 2683-4111 (online version) Renuka Sindge, Maitreyee Dutta	Proceedings on Engineering Sciences ISSN: 2620-2832 (print version); 2683-4111 (online version)	Renuka Sindge, Maitreyee Dutta

Book Chapters published by the Information Management and Emerging Engineering Department Faculty

Sr. No.	Title of the Book Chapter	Author (s) Name
1.	"Data Preprocessing Techniques for Brain Tumor Classification", Lect. Notes Electr. Eng., vol.1095, pp. 195-204, Springer, Singapore, 2024, doi: 10.1007/978-981-99-7077-3_20	N.Bhardwaj, M.Sood and S.S.Gill
2.	Comparative analysis of low-noise power efficient instrumentation amplifier for Bio-medical application. In: Hasteer. N., McLoone, S., Sharma, P., Nallamalli, R. (eds) Adaptive Intelligence. InCITe 2024. Lecture Notes in Electrical Engineering, vol 1280. Springer, Singapore. https://doi.org/10.1007/978-981-97-9045-6_11	Bamnavat, R., Gill, S.S., Raj, B., Krishna, B.
3.	"Design of MUX_Based CMOS 8-bit Encoder device for high-speed 5G Flash ADC binary conversion in UWB applications", Nanoelectronics: Materials to Chips Design, 325-352, 2025, CRC press, doi: https://doi.org/10.1201/9781003612797 , ebook ISBN9781003612797	B Krishna, SS Gill, A Kumar

Research and Development

No. of M.E. Thesis Guided	06
No. of Ph.D Thesis Awarded	01

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	INTEL digital readiness	Prof. Maitreyee Dutta	2025-01-29	2025-01-30	AI for Future Workforce Symposium, Bangalore
2.	Seminar on NAAC Accreditation	Prof.S.S.Gill	2024-19-12	-	Punjab Raj Bhavan, Chandigarh



Mechanical Engineering Department



Dr. S S Banwait

Professor & Head

Research Areas – Engineering Design, Production Management, Manufacturing Tech.



Dr. Sukhdeep Singh Dhami

Professor

Research Areas – Mechatronics, Automation & Control System, Modeling & Simulation



Dr. Rupinder Singh

Professor

Research Areas : DOE ANN RSM TAGUCHI, Non-Conventional Machining, Additive Manufacturing, Metal casting



Mechanical Engineering Department



Er. Sunil D Jassal

Associate Professor

Research Areas - Thermal Engineering



Dr. P Sudhakar Rao

Associate Professor

Research Areas - CAD/CAM, Manufacturing Technology

Mechanical Engineering Department

During 2024-25, the department has conducted online 42 short-term training programs in ICT and contact mode, which were attended by 2106 teachers from polytechnics and engineering colleges. The department has conducted 03 workshops with 56 participants. The department faculty published 58 papers in SCI journals, 03 papers in non-SCI international journals and 01 papers in non-SCI national journals. During the year, the department also published 08 papers in Proceedings of International Conferences & Seminars. 02 patents were published.

Sr. No.	Short Term Programmes Conducted
1.	Mechatronics System Design
2.	Mechanical Measurement And Central
3.	Robotics And Automation
4.	Robotics And Automation
5.	Additive Manufacturing For Bio-medical Applications
6.	Ergonomic Product Design
7.	Additive Manufacturing
8.	Advances In Manufacturing
9.	CNC Machines: Operation And Programming
10.	Production Management
11.	Modelling And Simulation Using MATLAB/ Scilab
12.	Advanced Material Processing And Characterization
13.	Advanced AUTOCAD
14.	Hybrid Machining
15.	Advanced Machining Processes
16.	Refresher Course In Mechanical Engineering
17.	CAD Using Solid Works
18.	CAD/ CAM And FEA
19.	Supervisory Development For Workshop Instructors
20.	3D And 4D Printing
21.	Engineering Graphics Using CAD
22.	Applications Of VR/AR in Manufacturing

Sr. No.	Short Term Programmes Conducted
23.	Modelling And Simulation Using MATLAB
24.	Hybrid Machining
25.	Green Manufacturing
25.	NEP & It's Implementation
27.	Advance In Automotive Tech
28.	CAD Using Proe/Creo
29.	Advanced Machining Processes
30.	CAD Using Solid Works
31.	3D and 4D Printing
32.	Ergonomic Product Design
33.	Advances In Manufacturing
34.	Additive Manufacturing For Bio-medical Applications
35.	Modelling And Simulation Using MATLAB
36.	Advanced Material Processing And Characterization
37.	Advanced AutoCAD
38.	Digital Twinning
39.	Computer Aided Design and Artificial Intelligence
40.	Manufacturing 4.0 Technologies
41.	Digital Twinning Of Material Processing Technologies
42.	AutoCAD

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	1	Haryana	For Diploma Engg --Haryana state (CAD AND GRAPHICS)

Research Project Granted

Sr No	Project Title	Faculty Name	Sanction Date	Funding Agency
1.	Study on the use of 3D printed smart cerclage strip for the medicinal monitoring of comminuted fractures post-surgery	Rupinder Singh	2024	Department of science and technology & renewable energy, Chandigarh administration
2.	TEACHERS ASSOCIATESHIP FOR RESEARCH EXCELLENCE (TARE) to Dr. Jasgurpreet Singh Chohan under the mentorship of Dr. Rupinder Singh, at National Institute of Technical Teachers Training and Research, Chandigarh	Rupinder Singh	2021-24	SERB
3.	TEACHERS ASSOCIATESHIP FOR RESEARCH EXCELLENCE (TARE) to Dr. Ranvijay Kumar under the mentorship of Dr. Rupinder Singh, at National Institute of Technical Teachers Training and Research, Chandigarh	Rupinder Singh	2021-24	SERB
4.	FIST-level 0 category	Rupinder Singh	2021-26	DST
5.	TEACHERS ASSOCIATESHIP FOR RESEARCH EXCELLENCE (TARE) on design & development of cranial implants under the mentorship of Dr. S.S.Dhami, at National Institute of Technical Teachers Training and Research, Chandigarh	S. S. Dhami	2022-2025	SERB

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
1.	Investigations on using fallow powder for sustainable laser powder bed fusion	Rupinder Singh	DST	2025
2.	Development of PBT-30GF compatible thermoplastic composite using phenolic waste for electrical terminal block and environmental remediation	Rupinder Singh	DST	2025
3.	Single-point cutting tool with lattice core and functionally graded material configuration	Rupinder Singh	AICTE	2025

Research Project Submitted

Sr No	Project Title	Faculty Name	Funding Agency	Submission Date
4.	Design, development, and pre-clinical validation of smartdice: an automated smart cartilage dicer for dicing and predicting diced cartilage integrity for rhinoplasty and facial trauma/deformities	Rupinder Singh	ICMR	2025
5.	Addressing the challenges of Bakelite waste disposal	Rupinder Singh	PSCST	2025

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
1.	W-2	Two-day technical workshop for faculty, technical staff and research scholars of Mechanical Engineering Department	30.04.2024	01.05.2024	14
2.	W-16	TGA to characterize materials	28.11.2024	28.11.2024	20
3.	W-17	Workshop on strategies for sustainability under the Vikist Bharat mission	12.12.2024	12.12.2024	22

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	-	Consultancy	Recruitment of Junior Engineer Electrical (from April 2024 to March 2025)	Engineering department electrical circle I, Chandigarh administration
2.	-	Consultancy	Conduct of written test for recruitment of IT OFFICERS / CLERK / FIELD OFFICERS / MANAGER (from April 2024 to March 2025)	The Punjab State Cooperative Agricultural Development Bank, Chandigarh

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
3.	CP-24-227	Consultancy	Recruitment of JBTS (july 2024)	Samagra Shiksha, School education, Chandigarh administration
4.	CP-24-242	Consultancy	Conduct a skill test for the recruitment of a Junior secretariat assistant (from July 2024 to Jan 2025)	Navodaya Vidyalaya Samiti, Chandigarh
5.	CP-136	Consultancy	Recruitment of patwaris, booking clerks and ziladars (April 2024)	Subordinate Services Selection Board, Punjab
6.	-	Consultancy	Conduct of cad skill test (Sep. 2024)	Chandigarh police
7.	-	Consultancy	Recruitment of faculty (from Jan 2025 to March 2025)	Shivalik college of pharmacy, Nangal

Papers published by the Mechanical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	Damage-free hole making using microwave drilling in flax/pp composite	P.S.Rao, Pankaj Thakur, Sunny Jafar
2.	On modes of electro-chemical machining: a comprehensive review	Gurwinder Singh, P.S.Rao And R Singh,
3.	Research progress towards the machining of titanium alloy using CNC milling: a technical review	M Kumar, P.S.Rao
4.	Optimization of machining process on coated tungsten carbide electrode tool and titanium alloy workpiece using EDM: a critical review	Newton Kumar Singh, P Sudhakar Rao, Kalakonda Saidaiah
5.	On machining profile accuracy in the modified electro-chemical machining process	Gurwinder Singh, P.S. Rao, R Singh,
6.	On electro-chemical machining with an inter-electrode slit for a partially insulating cathode a	Gurwinder Singh, Rupinder Singh, P.S. Rao

Papers published by the Mechanical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
7.	Optimization of surface roughness in milling of EN 24 steel with WC-coated inserts using response surface methodology: analysis using surface integrity microstructural	Shashwath Patil, P.S.Rao, Sathish, Ms Prabhudev, V Vijayan, S Rajkumar, Shubham Sharma, Abhinav Kumar, Mohamed Abbas, Emad Makki
8.	On 3Dprinted thermoresponsive PCL-PLA nanofibers based architected smart nanoporous scaffolds for tissue reconstruction	Ranvijay Kumar, Rupinder Singh, Vinay Kumar, Nishant Ranjan, Jeena Gupta, Nancy Bhura
9.	On the recycling of PVDF-reinforced graphite by using 3d gel printing	A. Mehta, Rupinder Singh, B. S. Pabla, Ranvijay Kumar
10.	On comparison of sensing capabilities of 3D printed wearable sensors	S. Kumar, Rupinder Singh, Ap Singh, J. Stanley, Yang Wei
11.	On 3D printing of PVDF composite- based -sensors for biomedical applications	M.Husain, Rupinder Singh, B.S. Pabla
12.	On secondary recycling of the domestic thermoplastic waste with reinforcement of aluminum powder	V Kumar, Rupinder Singh, N. Ranjan, R. Kumar
13.	Tertiary recycling of polyvinylidene fluoride composites by 3D gel printing	A Mehta, Rupinder Singh, B.S. Pabla, B.R. Gurjar
14.	3D printed conformal sensors for health monitoring of bovine post diaphragmatic hernia surgery: a review	A. Barwar, Prateek Kala, Rupinder Singh
15.	On fused filament fabrication of PLA nanofiber reinforced PCL matrix-based smart porous scaffolds	Ranvijay Kumar, Rupinder Singh, Ankush Mehta, Nishant Ranjan, Vinay Kumar
16,	Bio-materials for intramedullary pin application in canine femur: a comparative analysis	Minhaz Husain, Rupinder Singh, B. S. Pabla, G. Singh, J.P. Davim
17.	On 3Dprinted PVDF-based smart energy storage devices	Ankush Mehta, Rupinder Singh, B. S. Pabla, Vinay Kumar
18.	On compressive properties of 3Dprinted PVDF composite for implant applications	Minhaz Husain, Rupinder Singh, B.S. Pabla

Papers published by the Mechanical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
19.	On 3D-printed flexible and wearable sensors from primary recycled PVDF	C. Jain, B. S. Dhaliwal, Rupinder Singh, S. Pattnaik
20.	On fracture mechanism of 3D printed nanofiber reinforced PLA matrix	Ranvijay Kumar, Rupinder Singh
21.	On tertiary recycling of PVDF with reinforcement of waste dry cell components	Ankush Mehta, Rupinder Singh, B.S. Pabla
22.	On 3D printed novel stifle prosthesis for canines	Rupinder Singh, A Kumar, Ranvijay Kumar, Arun Anand
23.	On the characterization of 3D-printed diaphragmatic hernia sensor for health monitoring of bovine: FEA, morphological, and in vitro analysis	Rupinder Singh, Gurwinder Singh Arun Anand
24.	On 3d printing of canine femur bone models	K.S. Boparai, A. Kumar, Rupinder Singh
25.	On digital twinning of tensile properties of PVDF composite by fused filament fabrication	Minhaz Husain, Rupinder Singh, B.S. Pabla
26.	Investigating the torsional characteristics of 3D printed PVDF composite	Minhaz Husain, Rupinder Singh, B.S. Pabla
27.	On comparison of conventional and modified electro-chemical machining	Gurwinder Singh, Rupinder Singh, P.S. Rao
28.	On the modified electro-chemical machining process with a partially insulating cathode	Gurwinder Singh, Rupinder Singh, P.S. Rao
29.	On 3Dprinted intelligent diaphragmatic hernia sensor	Rupinder Singh, Gurwinder Singh, Arun Anand
30.	On direct metal laser sintering of functionally graded material with virgin and mixed powder	B. Kalia, Rupinder Singh, B.S. Pabla, M. Dureja
31.	On 3D printing of 17-4 PH stainless steel dental implant for pre-molar 4 in canine under compressive loading: effect of solid and octet meta structure	B. Kalia, Rupinder Singh, Bahadur Singh Pabla
32.	On 3D printing of functionally graded implants using two different metallic powder-based alloys	Rupinder Singh, Minhaz Husain, Sahil Mehra
33.	On secondary recycling of PVDF for 3d printing of functional sensors: mechanical, flow, thermal, and dielectric properties	Minhaz Husain, Rupinder Singh, B.S. Pabla

Papers published by the Mechanical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
34.	Effect of autoclaving on the dimensional stability and surface characteristics of 3d printed PVDF composite-based implants	M. Husain, Rupinder Singh, B.S. Pabla
35.	Effect of meta-structure on mechanical properties of polyvinylidene fluoride composite-based 3D printed intramedullary pins	Minhaz Husain, Rupinder Singh, B. S. Pabla
36.	3D printed hernia mesh implant: a conformability study	Abhishek Barwar, Prateek Kala, Rupinder Singh, J.P. Davim
37.	On design and fabrication of 3D printed stifle prosthetic implant	Rupinder Singh, Arvind Kumar, Arun Anand
38.	On 3D printing of thermoplastic polyurethane over woven fabric for wearable sensors	Sanjeev Kumar, Rupinder Singh, A.P Singh, Yang Wei
39.	Effect of preprocessing temperature on the recycling of waste direct metal laser sintering powder	Rupinder Singh, Shubham Kumar, S.S. Banwait, Maheep Vikram Singh
40.	On fused filament fabrication of novel tape bandages as phagocytosis sensor: effect of sic particle size in PLA matrix	Minhaz Husain, Rupinder Singh, B. S. Pabla, Ap Singh, M. Singh
41.	On processing of waste polyethylene terephthalate glycol for sensory applications	Kanwerajit Singh, Rupinder Singh, A P Singh
42.	On machining profile accuracy in the modified electro-chemical machining process	Gurwinder Singh, Rupinder Singh, P.S. Rao
43.	On mechanical properties of 3d printed secondary recycled abs composite for silencer application in short-range gun	Gulraj Singh, G S Brar, Rupinder Singh
44.	On digital twinning of 3D printed petg-based smart containers for health monitoring of food articles	Kanwerajit Singh, Rupinder Singh, A P Singh
45.	On 3D dispenser printing of mno ₂ reinforced pvdf matrix for recycling of dry cell	A.Mehta, Rupinder Singh, B. S. Pabla
46.	On the tertiary recycling of pvdf composite matrix by 3D dispenser printing	Ankush Mehta, Rupinder Singh, B. S. Pabla, R. Kumar
47.	On the use of recycled blended metallic powder in the direct metal laser sintering	Rupinder Singh, Shubham Kumar,s,s, Banwait
48.	On novel 3D printed diaphragmatic hernia solution for bubalus bubalis	Rupinder Singh, G. Singh, Arun Anand
49.	On the recycled acrylonitrile butadiene styrene composite filaments with tuneable thermo-mechanical properties	Ranvijay Kumar, Rupinder Singh, Nishant Ranjan, V.Kumar

Papers published by the Mechanical Engineering Department Faculty in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
50.	Investigations on 3d printed novel stifel prosthesis as IOT-based solution	Rupinder Singh, Arvind Kumar
51.	On characterization of room temperature vulcanizing-liquid silicone rubber with sensing capabilities for novel orthotic shoe sole	Gurwinder Singh, Rupinder Singh, Chandan Kumar, Minhaz Husain
52.	On prominent β -phase of PVDF matrix with 4D capabilities	Minhaz Husain, Rupinder Singh, B.S. Pabla
53.	On 3d printed sandwich meta-structures for improved wear characteristics	Rupinder Singh, Minhaz Husain, Sahil Mehra, Vinay Kumar
54.	On the design and fabrication of polyvinylidene fluoride-based sensors for health monitoring	A.Barwar, Prateek Kala, Rupinder Singh
55.	On 3d printed polyvinylidene fluoride composite-based diaphragmatic hernia sensors	A.Barwar, P Kala, Rupinder Singh
56.	On 3d-printed cutting boards of high-density polyethylene-stubble waste composites with improved wear properties	Ranvijay Kumar, Rupinder Singh, M. Husain, Vinay Kumar, N. Ranjan
57.	Some investigations on hybrid 3d printed PVDF-based functional prototypes	Vinay Kumar, Gurwinder Singh, M. Husain, Ranvijay Kumar, H. Meena, Rupinder Singh, M S J Hashmi
58.	On design, fabrication, and pre-clinical validation of customized 3D-printed dental implant assembly	Vaibhav Sahni, Vishakha Grover, Rishab, Satinder Singh, Sr Pradhan, Rupinder Singh, Ap Singh, Ankush Mehta, Ashish Jain

Papers published by the Mechanical Engineering Department Faculty in International Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	3D technology printing: a review, challenges and opportunities in industrial and mechanical engineering: a progressive research outlook	Amit Gupta, P Sudhakar Rao, Kk Mittal
2.	Electro-chemical machining of titanium alloys and various composites for efficient machining process	Kk Mittal, P.S.Rao, Pk Jain
3.	Electro-chemical machining of titanium alloys and various composites for efficient machining process	P Sudhakar Rao, Vikas Sharma, Harish Kumar, Sri Phani Sushma

Papers published by the Mechanical Engineering Department Faculty in National Journals other than SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	A Review of 17-4ph Features produced using Direct Melting Laser Sintering and CNC Milling: A Comparative Analysis Approach International Journal of All Research Education & Scientific Methods, ISSN No: 2455-6211; Vol. 12(8), August - 2024.	Shasinlo Lorin and S S Dhami -

Papers published / presented by the Mechanical Engineering Department Faculty in International Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	A critical review of hybridization of EDM processes	RAMPC, 2025, NIT Jamsedpur	K Saidaiah, P.S.Rao Ravikant
2.	Study on bending behaviour of aluminium alloy pipe	International conference on recent advances in design and manufacturing (radm-24), NIT, Patna, June 28 – 30, 2024	P.S.Rao, Mohit Singh
3.	Bending and wear behaviour of aluminium alloy pipes of circular cross-section at different strain rates,	Proc. 5 th international conf. On recent advances in mechanical infrastructure (ICRAM-2025) Jan. 10 – 12, 2025.	P.S.Rao, K Saidaiah
4.	Root Crack Incipient Gear Fault Detection using Machine Learning Algorithms	13 th International Conference on Multidisciplinary Research, PCTE Institute of Engineering & Technology, Ludhiana, March 20 – 22, 2025	Kanika Saini, Sukhdeep Singh Dhami and Vanraj
5.	A Comprehensive AI Framework for Superior Diagnosis, Cranial Reconstruction, and Implant Generation for Diverse Cranial Defects	Bioengineering, February 2025, 12, 188. https://doi.org/10.3390/bioengineering/12020188	Mamta Juneja, Sukhdeep Singh Dhami, Prashant Jindal
6.	A Low-Cost Approach for Robot-to-Robot Cooperation	15 th International IEEE Conference on Computing, Communication and Networking Technologies, June 24 – 28, 2024, IIT Mandi	Lopamudra, S. S. Dhami, Rajesh Kumar
7.	On technological solutions for recycling of recycling of polymer waste: a review	E3s web of conferences, 509, 2024 Proceedings of 2 nd international conference on sustainable nanotechnology and nanomaterials (iconn-2023) Doi:10.1051/e3sconf/202450903011	K. Mankotia, Jasgurpreet singh chohan, Rupinder Singh

Papers published / presented by the Mechanical Engineering Department Faculty in International Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
8.	Influence of vapor smoothing on surface quality of multi-layered abs based composite specimen prepared by fused filament fabrication	AIP conf. Proc. Vol. 3185, 2025 https://doi.org/10.1063/5.0243528 Proceedings of icfmmmp-2023, Ipu, phagwara	Kapil chawla, Rupinder Singh, jaspreet singh, himani mehta

Patents/Copyright

Sr. No.	Name of patents/copyright	Author (s) Name
1.	Functionally graded waveguides for aerospace applications Brief: provisional application filed on dated: 07/06/2024, indian patent application no.: 202411044119	Rupinder Singh, Minhaz Husaain, Bharat Kalia
2.	A point of care kit for post-surgery medicinal monitoring of stone accumulation in urinary tract Brief: provisional application filed on dated: 22/06/2024, indian patent application no.: 202411048079	Rupinder Singh, Minhaz Husaain, Bharat Kalia

Research and Development

No. of M.E. Thesis Guided	16
No. of Ph.D Thesis Awarded	04

Training Program Attended (In-House)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	Universal human values	DR P S RAO	2024-05-15	2024-05-17	NITTTR CHD
2.	AI for future workforce	DR P S RAO	2024-07-22	2024-07-26	NITTTR CHD
3.	ISAC certified cyber crime intervention officer (ccio)	DR P S RAO	2025-02-03	2025-02-08	NITTTR CHD
4.	Theme-investing in future, Moe Gol	DR P S RAO	2025-03-05	2025-03-05	NITTTR CHD ONLINE PROGRAMME
5.	Indian mathematics in nep-2020 conducted by app sc nitttr chd	DR P S RAO	2024-11-13	2024-11-14	NITTTR CHD

Training Program Attended (Other Institute)

Sr No	Title of Training Program	Faculty Name	Start Date	End Date	Venue
1.	RAMPC 2025 CONFERENCE AT NIT JAMSHEDPUR	DR P S RAO	2025-03-21	2025-03-25	NIT JAMSHEDPUR
2.	ICRAME 2025 CONFERENCE AT NIT SILCHAR	DR P S RAO	2025-02-28	2025-03-02	NIT SILCHAR
3.	COMPETENCY DEVELOPMENT PROGRAMME IN STEM	DR P S RAO	2024-09-15	2024-09-26	INDIAN INSTITUTE OF SCIENCE BENGALURU, CHALLAKERE CAMPUS, KARNATAKA
4.	PHYSICS BASED & DATA DRIVEN MODELLING IN ADDITIVE MFG	DR P S RAO	2024-11-25	2024-11-29	NIT WARANGAL TELANGANA
5.	ICDMT 2024 AT PEC CHD	DR P S RAO	2024-11-08	2024-11-10	PEC CHD

Instructional Material Development

Sr No	Faculty name	No./book chapters	Book chapter details	No./readers details	Readers publish. Mnth
1.	DR P S RAO	1	Mechanical Engg	Mechanical engg book chapters	December 2024
2.	DR P S RAO	1	Electro-chemical machining of titanium alloys and various composites for efficient machining process, journal fabrication techniques and machining methods of advanced composite materials	Mechanical engg book chapters- springer	Jan 2025
3.	DR P S RAO	1	3D technology printing: a review, challenges and opportunities in industrial and mechanical engineering: a progressive research outlook, crc press springer journal-amit gupta, p sudhakar rao, kk mittal	Mechanical ENGG BOOK CHAPTERS- Springer	Jan 2025
4.	DR P S RAO	1	RSM- reconfigurable mfg system, taylor and francis , crc press book -- mfg in the digital age as book chapter	MECHANICAL ENGG BOOK CHAPTERS- Springer	Mar 2025
5.	Prof. Rupinder Singh	08	Swayam-14 teacher education titled, 3d printing of auxetic structures: theory and practice	08 chapters	Jan 2025

Instructional Material Development

Sr No	Faculty name	No./book chapters	Book chapter details	No./readers details	Readers publish. Mnth
6.	Prof. Rupinder Singh	01	Book on 3d printing: polymer, metal and gel based additive manufacturing, (published in the series: advanced mechanical engineering, ISBN 978-3-11-108061-1) (CO-EDITOR: RANVIJAY KUMAR, VINAY KUMAR, J P DAVIM) DE GRUYTER, BERLIN, GERMANY, 2024, https://doi.org/10.1515/9783111081632	12 chapters	2024
7.	Prof. Rupinder Singh	01	Special issue on metal 3D printing of biometals for prostheses and implants (CO-EDITOR: J. P. DAVIM), exploration of biomat-x, 2023-2024.	05 chapters	2024
8.	Prof. Rupinder Singh	01	Special issue on functionally graded materials for application in structures, functional composite materials (Co-Editor: Mohammad Siahkouhi), Springer open, 2023-2024.	05 chapters	2024
9.	Prof. Rupinder Singh	01	Assessing properties of conventional and specialized materials for reference module 'Comprehensive Materials Processing, second edition' Elsevier, 2022-2024	41 chapters	2024
10.	Prof. S.S.Dhami	01	Development & revisions in teaching resources (programming / simulation examples & PowerPoint presentations) in the following topics: (a)digital manufacturing (b)modeling & simulation of robot-to-robot cooperation	02	2024





Media Engineering Department



Dr. R K Wats

Professor & Head

Research Areas - Quality Mgt. & General Management,
Civil Engineering (Irrigation & Hydraulics)

Dr. SS Pattnaik

**Professor (HAG) (On lien Odisha State Open
University, Sambhalpur, Odisha)**

Research Areas - Soft Computing, Multimedia,
Antenna & Microwave, RF & Bio-medical



Media Engineering Department

During the year 2024-25, the department has conducted online 27 short term training programs inclusive of ICT and Contact Mode, which were attended by 1543 teachers from polytechnics and engineering colleges. The department faculty and staff published 01 paper in SCI Journal, 01 paper in International Conference and 01 International Book Chapter. The faculty and staff of the department attended 02 training programmes (01 online and 01 offline programme) during the year. The faculty of the department coordinated the NITTT MOOC programme on Institutional Management and Administrative Procedures 02 times in the year in which about 3600 faculty members from Engineering Institutions in the country participated. The Department coordinated the production of 04 MOOCs for SWAYAM portal in the areas of Electronics and Mechanical Engineering (02 in Hindi language, 01 in Punjabi language and 01 in English language).

Sr. No.	Short Term Programmes Conducted
1.	OBE, SAR and NBA (Contact Mode only)
2.	Leadership Management Strategy & Professional Ethics (Contact Mode & ICT Mode)
3.	Protecting Yourself Over the Web (Contact Mode & ICT Mode)
4.	Understanding Process of Accreditation (NBA & NAAC) for Quality Enhancement (Contact Mode only)
5.	NBA & NAAC Strategic Preparation for Enhancing Quality of Education (Contact Mode & ICT Mode)
6.	OBE, SAR and NBA (Contact Mode & ICT Mode)
7.	Teacher's Self Esteem, Motivation & Professionalism Development (Contact Mode & ICT Mode)
8.	Institutional Management and Academic Administration (Contact Mode & ICT Mode)
9.	Graphics & Animation through Open Source Tools for making MOOCs (Contact Mode & ICT Mode)
10.	Video Production Techniques for MOOCs (Contact Mode only)
11.	Outcome based Education & Effective SAR Writing (Contact Mode & ICT Mode)
12.	Academic Audit and Leadership for Improving Institutional Ranking (Contact Mode & ICT Mode)
13.	Enhanced Learning Experience through Digital Tools (Contact Mode & ICT Mode)
14.	AR,VR & AI for Innovative Teaching and Learning Experiences (Contact Mode & ICT Mode)
15.	Sustainable Creativity and Innovation Management in Institution (Contact Mode & ICT Mode)

Papers published by the Media Engineering Department Faculty/Staff in SCI Journals

Sr. No.	Name of the Paper Published	Author (s) Name
1.	"A federated learning approach for classifying chest diseases from chest X-ray images," Biomedical Signal Processing and Control, vol. 10, February 2025 [SCI Indexed, Impact Factor: 4.9]	Sandeep Kumar Satapathy, Sung-Bae Cho, Shruti Mishra, Sweeti Sah, Kamaldeep, Sachi Nandan Mohanty

Papers published / presented by the Media Engineering Department Faculty in International Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted along with a Name of the Conference/Seminar (venue, with date)	Author (s) Name
1.	"An Integrated Auto encoder-CNN and K-Means Clustering Technique for Sign Language Recognition," International Conference on Electrical, Electronics and Automation (E2ACON2025), March 8-9, at Dr. BT Ambedkar NIT Jalandhar, Co-Hosted by School of Electrical and Electronic Engineering, Newcastle University, Singapore	Kamaldeep, Dhvani Arora, Shruti Arora

Book Chapters published by the Media Engineering Department Faculty/Staff in SCI Journals

Sr. No.	Name of the Book Chapter Published	Author (s) Name
1.	"LeafNet: From Leaf Images to Insights through CNN and VGG16-Based Crop Disease Classification with Web Integration," AI Predictive Analytics for Crop Health Agreement, Wiley, 2025. [Scopus Indexed]	Shweta Sharma, Sweeti Sah, Rakesh Kumar, Kamaldeep, Manisha Malik

Research & Development

Sr. No.	Name of Project	Team	Beneficiary State	Status of Project completed/ In progress	Target date of completion
(i)	Technical Education in India: Past, Present and Future	Team: AICTE and Prof. Rakesh K Wats, Prof. Sunil Dutt, Prof S.S.Gill, Prof. Pankaj Sharma, Dr. Harshvardhan Samalia, Dr. Suniti Dutt, Dr. Manisha Malik, Dr. Kamaldeep, Er. Monika Arora	All India	In Progress	

Research & Development

Sr. No.	Name of Project	Team	Beneficiary State	Status of Project completed/ In progress	Target date of completion
(ii)	AR/VR Integrated Immersive Multi-Lingual Videos on Water-Borne and Vector-Borne Diseases for Enhancing Awareness sponsored by DST & Renewable Energy, U.T, Chandigarh	Dr. Suniti Dutt and Prof. S.S. Pattnaik and Dr. Kamaldeep	All India	Completed & Submitted	

Training Programmes attended by the Media Engineering Department Faculty/Staff

Sr. No.	Title of Training Programme	Period of Training	Venue	Attended by
1.	GoT Basic training on Introduction to AR & VR	November 04 th – 13 th , 2024	Online training by NIELIT, Chandigarh	Prof. Rakesh K Wats, Savita Bhanot, Anurag Soni, Suniti Dutt, Kamaldeep, Monika Arora, Chetanjit Singh, Prerak Mittal, Ashish, Dinesh Kumar, Aman Chawla, Rajesh
2.	Unity & AR-VR Fundamentals	December 11 th – 13 th , 2024	Hands-on training by Trendsetters Infoservices at NITTTR, Chandigarh	Prof. Rakesh K Wats, Savita Bhanot, Anurag Soni, Suniti Dutt, Kamaldeep, Monika Arora, Ashish Mahajan, Chetanjit Singh, Prerak Mittal, Dinesh Kumar, Ashish, Aman Chawla, Rajesh
3.	ISAC Certified Cyber Crime Intervention Officer (CCIO)	Feb 3 – Feb 7, 2025	Online	Kamaldeep, Ashish
4.	Lok Sabha General Election Training	April 27, 2024	PG Govt. College CoED Sector-11 Chandigarh	Kamaldeep
5.	Lok Sabha General Election Training	May 03 rd and May 15 th , 2024	PG Govt. College CoED Sector-11 Chandigarh	Ashish
6.	CAS and ToT Module for Samarth	Sep 17 th and Sep 18 th , 2024	Online	Kamaldeep, Chetanjit Singh

Worksheets

Sr. No.	Title
1.	<p>Brochures/Reports Designed (185 + 78 = 263):</p> <p>a) Designed 185 Course Brochures of the STC courses conducted by the institute</p> <p>b) Designed 78 brochures/banners/greetings/reports etc:-</p> <ol style="list-style-type: none"> Designed the Institute Annual Report (English & Hindi) Designed the Institute Newsletter ("Sampark") Designed the Institute Presentation in Hindi during the visit of the first parliamentary meeting of the Hon'ble First Sub-Committee of the Department of Official Language. Designed the ME Admission Brochure 2024-25 Designed the Digital Banner for the Programme on 'Skill Development for Business Start-ups' Designed the Invitation Card for Institute Annual Day 2024 Designed the Publicity Poster for Ph.D. Admissions 2024-25 Designed the Cover page of the Memorandum of Association Designed the Organizational Structure of National Institute of Technical Teachers Training and Research, Chandigarh (Deemed to be University under Distinct Category, under Section 3 of UGC Act 1956) Designed the Inauguration Slide for FDP on AI for Future Workforce Designed the Presentation on National Education Policy 2020: Transforming Higher Education Designed the Brochure for the National Conference on Indian Mathematics in NEP-2020 Designed the Cover page of the Journal named Pragyanam Designed the Institute Presentation 2024-25 Designed the Swacchta Hi Sewa Banner 2024 Designed the Banner for the Expert talk on the occasion of National Space Day 2024 Designed the Banner for the Essay Writing Competition on the occasion of National Space Day 2024 Designed the Independence Day Banner Designed the Banner for the Conclave for Promoting Internationalisation Designed the Standee including the Spectrum of activities, Mission and Facilities of the Institute Designed the Presentation on Assessment and Evaluation Designed the Brochure for the promotion of the MOOC Course on Digital Electronics: Theory and Practice Designed the Banner for Bharatiya Bhasha Utsav 2024 Designed the Brochure on Conclave on Promoting Internationalisation Designed the Standee on Conclave for Promoting Internationalisation Designed the Final Credits and Disclaimer section for all the MOOC videos produced Designed the Presentation on Environmental Science: Incorporating Activities into the EVS Instructional Strategy Designed the Banner on International Webinar on Sustainability from Engineering and Vedic Perspectives Designed the Brochure for the promotion of the MOOC Course on Digital Circuit Design - A Practical Approach (Hindi Language) Designed the Brochure for the promotion of the MOOC Course on 3D Printing of Auxetic Structures: Theory and Practices Greetings in Hindi on the occasion of Ram Navmi 2024

Worksheets

Sr. No.	Title
1.	32. Designed the banner of 3-days Offline Non-Residential Programme on Universal Human Values 15-17 May 2024
	33. Designed the banner for social media publicity of the Gram Sabha at Village Tasoli, SAS Nagar, Mohali, Punjab on 1st May 2024 under Unnat Bharat Abhiyan
	34. Banner for Admissions for the session 2024-25 for M.E Modular Programmes
	35. Greetings of Buddha Purnima in Hindi 2024
	36. Greetings on International Day of Yoga in Hindi and English
	37. Designed the banner of Announcement of Outstanding Institution Awards (for both Polytechnics and Engineering Colleges) for the Year 2023-24
	38. Designed the banner of Inauguration Ceremony of FDP on "AI for Future Workforce" (22-26 July 2024) in collaboration with Intel
	39. Greetings of 78th Independence Day in Hindi and English
	40. Greetings of Raksha Bandhan in Hindi and English
	41. Greetings of Krishna Janamashtami in Hindi and English
	42. Brochure for One-Day Workshop on Implementation of National Credit Framework (NCrF) & Integration of Skill Based Courses in Higher Education Institutes on 30 August 2024
	43. Greetings of Teachers Day in Hindi
	44. Greetings of Hindi Diwas
	45. Designed the Swachhta Hi Seva 2024 banner
	46. Greetings of Engineers Day in Hindi and English
	47. Greetings of Gandhi Jayanti and Shri Lal Bahadur Shastri in Hindi
	48. Greetings of Shubh Navratri in Hindi
	49. Greetings of Durga Ashtmi in Hindi
	50. Greetings of Dussehra in Hindi
	51. Greetings of Maharishi Valmiki Jayanti in Hindi
	52. Greetings of Deepawali in Hindi
	53. Greetings of Ekta Diwas in Hindi
	54. Greetings of Guru Nanak Jayanti in Hindi and English
	55. Designed the banner of Conclave on Promoting Internationalisation
	56. Greetings of Samvidhaan Diwas in Hindi
	57. Greetings of Bhartiya Bhasha Utsav 2024 in Hindi
	58. Greetings of national Mathematics day in Hindi and English
	59. Greetings of Christmas
	60. Greetings of Veer Bal Diwas in Hindi and English
	61. Greetings of New Year Wishes 2025 in Hindi and English
	62. Greetings of Guru Gobind Singh Ji Jayanti in English and Hindi
	63. Greetings of World Hindi Day in Hindi and English
	64. Greetings of National Youth Day in Hindi and English
	65. Greetings of Lohri in Hindi and English
	66. Greetings of Makar Sakranti in Hindi and English
	67. Greetings of Parakram Diwas in Hindi and English
	68. Designed the banner of International Webinar on Sustainability from Engineering and Vedic Perspectives
	69. Greetings of 76th Republic Day in Hindi and English
	70. Greetings of Martyrs' Day in Hindi and English
	71. Greetings of Basant Panchmi in Hindi and English

Worksheets

Sr. No.	Title
1.	72. Greetings of Guru Ravidas Jayanti in Hindi and English
	73. Greetings of International Mother Language Day in Hindi and English
	74. Greetings of Maha Shivratri in Hindi and English
	75. Greetings of International Women's Day in Hindi and English
	76. Greetings of Holi in Hindi and English
	77. Greetings of Hindu New Year, Chaitra Navratra, Ugadi and Gudi Padwa in Hindi and English
	78. Greetings of Eid in Hindi and English

Instructional Manual

Sr. No.	Title
1.	Total Video Films Recorded: 189 Total Video Films Edited: 321 (MOOCs + NCTEL + O-Plan) Total video coverage of Events = 30 Other Video films Edited = 23 Total Films in Regional language = 122 (77 Hindi + 45 Punjabi)
2.	Total ICT based Video films Edited and Uploaded on NCTEL/ NITTTRCHD MOOC Channel = 303

Any Other Activities

1. Technical Coordination of ICT based Courses/ Online Workshops/ Institute Meetings and Conferences along with Request for Still Photography and Videography for the above of various departments of the Institute = 173 events

2. Graphic Designing: 92 Numbers

- a) Graphics and Animation Designing in following MOOC/ Non-MOOC Presentations (92):

S. No.	Name of the programme	Contribution
1.	Binary Codes by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
2.	Python List by Dr. Mala Kalra	Preparation of Infographics and designing presentations
3.	Python Tuple by Dr. Mala Kalra	Preparation of Infographics and designing presentations
4.	Applied Thermodynamics Part 3 by Dr Niraj Bala	Preparation of Infographics and designing presentations
5.	Eco Tourism by Dr. UN Roy	Preparation of Infographics and designing presentations
6.	Parity Bit and Error Detection and Correction Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
7.	Disaster Risk Reduction and Management by Dr. Suniti and Dr. Kamaldeep	Preparation of Infographics and designing presentations

S. No.	Name of the programme	Contribution
8.	Introduction video of Digital Electronics: Theory and Practice in Punjabi Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
9.	Octal Number System Punjabi by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
10.	Concepts of Digital Electronics by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
11.	Hamming Codes by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
12.	Introduction to Number System by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
13.	Signed and Unsigned Binary Numbers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
14.	Arithmetic Operations using Signed Binary Numbers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
15.	Arithmetic Operations using Binary Numbers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
16.	BCD Addition by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
17.	Floating Point Numbers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
18.	Basic Logic Gates by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
19.	Boolean Algebra by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
20.	Circuit Realization using Logic Gates by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
21.	TTL and CMOS Logic Families and Their Sub-classification by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
22.	Minimization of SOP and POS Form by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
23.	Minimization of SOP form using K Maps by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
24.	Minimization of POS form using K Map by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
25.	5 and 6 variable K Map by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
26.	Combinational Logic Circuits, Adder and Subtractor by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
27.	N-Bit Adders by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
28.	Multiplexers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
29.	Demultiplexers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics and designing presentations
30.	Encoders by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
31.	Decoders by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
32.	Comparators by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations

S. No.	Name of the programme	Contribution
33.	BCD to 7 segment Decoder by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
34.	SR Latch and Flip Flops by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
35.	JK, D and T Flip Flop by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
36.	Shift Registers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
37.	Universal Shift Registers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
38.	SR Latch and Flip Flops by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
39.	JK, D and T Flip Flop by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
40.	Shift Registers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
41.	Universal Shift Registers by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
42.	Asynchronous or Ripple Counters by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
43.	Design of Synchronous Counters by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
44.	Decade and Arbitrary Sequence Counters by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
45.	Shift Register Counters by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
46.	Semiconductor Memories: Classification and Organization by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
47.	RAM, SRAM and Its Basic Types by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
48.	DRAM and DDR RAM by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
49.	ROM and its Types by Dr. Balwinder Singh Dhaliwal	Preparation of Infographics, animations and designing presentations
50.	Introductory Video on 3D Printing of Auxetic Structures: Theory and Practices by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
51.	Introduction to 3D Printing by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
52.	Operational Procedures for 3D Printing by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
53.	Case Study 3D Printing of Dual Thermoplastic W2, L1 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
54.	3 D Printed Surgery for Veterinary Patients W2, L2 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
55.	Case Study Fabrication of PLA Composite Feedstock Filament Fabrication using TSE W2, L3 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations

S. No.	Name of the programme	Contribution
56.	Secondary Recycled ABS and Graphene Composite W2, L4 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
57.	Historical Development of Technology W2, L5 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
58.	Welding of Dissimilar Plastic Based Materials For Joining Applications in Automobiles W2, L6 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
59.	Mechanical and Veterinary Science Collaboration W2, L7 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
60.	FDM for Development of Crowns for Strategic Teeth of Canine W2, L8 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
61.	Printing Applications in Dentistry W2, L9 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
62.	Hybridization of Additive and Conventional Manufacturing Processes W2, L10 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
63.	Characterisation of 3D printed Parts W3 L1 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
64.	Printer Hardware Parameters W3 L2 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
65.	Gel 3D Printing by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
66.	Gel 3D Printing Case Study by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
67.	Metal 3D Printing by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
68.	Metal 3D Printing Case Study by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
69.	Introduction of Sensors by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
70.	Applications in Different Fields as IoT Based Solution for Digital Twinning by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
71.	Case Studies in Veterinary Orthopaedic and Dentistry Applications with in house Developed Materials by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
72.	Case Studies for 4D Applications in Auxetic Structures by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
73.	Case Study 2 by Dr. Rupinder Singh	Preparation of Infographics, animations and designing presentations
74.	Electronic Lock by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
75.	Frequency Divider by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
76.	LED Chaser Circuit by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations

S. No.	Name of the programme	Contribution
77.	Light Sensor Circuit by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
78.	Obstacle Detector by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
79.	Thermistor Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
80.	Water Level Indicator by Dr. Kanika Sharma	Preparation of Infographics, animations and designing presentations
81.	Cell Area and Cell Site Structure by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
82.	Cell Sectoring by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
83.	Co Channel and Adjacent Channel Interference by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
84.	Dynamic Power Control by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
85.	Frequency Reuse by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
86.	Network Function Virtualization and Network Slicing by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
87.	Code Division Multiple Access, CDMA by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
88.	Difference between FDMA and TDMA by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
89.	Frequency Division Multiple Access by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
90.	Fundamentals of Cell Splitting by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
91.	Time Division Multiple Access by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations
92.	Ways to increase capacity and coverage in cellular systems by Dr. Garima Saini	Preparation of Infographics, animations and designing presentations

3. Purchase Activities

Sr. No.	Title
1.	<ul style="list-style-type: none"> i. PA System for Conference Hall II ii. Amplifier iii. Chairman and Delegate Unit iv. Speakers v. Digital Conference System (Audio Interface) vi. Rack vii. Adobe Suite viii. AR Tablet ix. Bluetooth Portable Speakers x. Colored Printer Cartridge Drums xi. Colored Printer Cartridge xii. External Hard Disk xiii. Konica Minolta (Photocopy Machine) OEM Maintenance Kit

Sr. No.	Title
1.	<ul style="list-style-type: none"> xiv. JBL Wireless Microphone xv. Monitor Speakers (PA Active Loudspeakers) xvi. Portable Sound System xvii. UPS Batteries xviii. Webcam xix. Wireless Microphone xx. Wireless Pointer

3. Newsletter Designing: 01

List of Produced Films (April 2024- March 2025)

S. No.	Title of the Video
1	Python Tuple by Dr. Mala Kalra
2	Green Tourism in Uttarakhand: Himalaya
3	Integrated Organic and Dairy farming
4	Dairy Farming using Desi Cows
5	The Code Python for Developers- Learning by Coding by Dr. Sushil Narang Chitkara
6	Parity Bits Error Detection & Correction (Punjabi) by Dr. Balwinder Singh Dhaliwal
7	Hamming Codes by Dr. Balwinder Singh Dhaliwal
8	Intro Film - Mobile and Wireless Communication by Dr. Garima Saini
9	Wireless Communication by Dr. Garima Saini
10	Intro film Digital Circuit Design - A Practical Approach by Dr. Kanika Sharma
11	Advantages and Application of Wireless Communication (वायरलेस संचार के लाभ और अनुप्रयोग) by Dr. Garima Saini
12	Digital Circuit Design - A Practical Approach - Half Adder by Dr. Kanika Sharma
13	Digital Circuit Design - A Practical Approach- Full Adder by Dr. Kanika Sharma
14	Demo of above Half Adder by Dr. Kanika Sharma
15	Digital Circuit Design - A Practical Approach - Half Subtractor by Dr. Kanika Sharma
16	Digital Circuit Design - A Practical Approach - Full Subtractor by Dr. Kanika Sharma
17	Digital Circuit Design - A Practical Approach - Demo of Full Adder by Dr. Kanika Sharma
18	Digital Circuit Design - A Practical Approach - Demo of Half Subtractor & Full Subtractor by Dr. Kanika Sharma
19	Introductory film on Digital Electronics - Theory & Practice by Dr. Balwinder Singh Dhaliwal
20	Digital Electronics - Theory and Practice - Signed & Unsigned Numbers by Dr. Balwinder Singh Dhaliwal
21	Digital Circuit Design - A Practical Approach-BCD & 7 Segment by Dr. Kanika Sharma
22	Digital Circuit Design - A Practical Approach- Demo of BCD & 7 Segment by Dr. Kanika Sharma
23	Electromagnetic Waves & its properties by Dr. Garima Saini
24	Digital Circuit Design - A Practical Approach - 3:8 line Decoder by Dr. Kanika Sharma
25	Digital Circuit Design - A Practical Approach- Demo of 3:8 line Decoder by Dr. Kanika Sharma
26	Disaster Risk Reduction and Management Intro video by Dr. Kamaldeep and Dr. Suniti Dutt
27	Frequency Allocation and band used for mobile communication by Dr. Garima Saini
28	Basic concept of cellular network by Dr. Garima Saini
29	Digital Logic levels by Dr. Kanika Sharma
30	Understanding Signal Propagation in wireless network and factors affecting signal range and quality by Dr. Garima Saini
31	Elements of Digital Logic by Dr. Kanika Sharma
32	Arithmetic Operation using binary numbers by Dr. Balwinder Singh Dhaliwal
33	Understanding Signal Propagation in wireless network and factor affecting signal range and quality: by Dr. Garima Saini

List of Produced Films (April 2024- March 2025)

Sr. No.	Title of the Video
34.	Arithmetic Operations using signed binary numbers by Dr. Balwinder Singh Dhaliwal
35	Reflection Diffraction & Scattering by Dr. Garima Saini
36	Friis equation by Dr. Garima Saini
37	Evolution from 1G to 5G by Dr. Garima Saini
38	Floating Point Number by Dr. Balwinder Singh Dhaliwal
39	BCD Addition by Dr. Balwinder Singh Dhaliwal
40	Intro Video of 3D Printing by Dr Rupinder Singh
41	3D Printing Overview by Dr. Rupinder Singh
42	Case Study 3D Printing Overview: Dr. Rupinder Singh
43	3D printing of dual thermoplastic material with different layers combination Tensile by Dr. Rupinder Singh
44	3D printing surgery for veterinary patient by Dr. Rupinder Singh
45	Fabrication of PLA- HAP-CS biocompatible and biodegradable feedstock filament using twin screw by Dr. Rupinder Singh
46	Secondary recycle ABS and Graphene composite for 3D 4D Applications rheological, thermal and Mechanical Analysis by Dr. Rupinder Singh
47	Historical Development and Technology by Dr. Rupinder Singh
48	Welding and Dissimilar Plastic based material for joining applications by Dr. Rupinder Singh
49	Mechanical and Vet. Science collaboration by Dr. Rupinder Singh
50	Pre and post processing parameters of FDM for development of crowns for strategic teeth by Dr. Rupinder Singh
51	Printing Application in human dentistry by Dr. Rupinder Singh
52	Hybridization of additive and conventional Manufacturing Process by Dr. Rupinder Singh
53	Cell Area and Cell Sight Structure by Dr. Garima Saini
54	Frequency Reuse by Dr. Garima Saini
55	Co channel & Adjacent Channel Interference by Dr. Garima Saini
56	Logic Gates by Dr. Balwinder Singh Dhaliwal
57	Functions of Digital Logic by Dr. Kanika Sharma
58	3D polymer Printing by Dr. Rupinder Singh
59	Printer Hardware Parameters
60	Dynamic Power Control by Dr. Garima Saini
61	Logic Gates with Demo by Dr. Kanika Sharma
62	Case Study In Very Orthopedic by Dr. Rupinder Singh
63	1-Bit Magnitude Comparator Dr. Kanika Sharma
64.	Cell Splitting by Dr. Garima Saini
65	Combinational Logic Circuits by Dr. Kanika Sharma
66	Gel 3D Printing by Dr. Rupinder Singh
67	Gel 3D Printing Case Study by Dr. Rupinder Singh
68	Metal 3D printing
69	3D Metal Printing Case Study
70	Encoder and priority encoder with demo
71	Intro to sensor week by Dr. Rupinder Singh
72	Intro to sensor case study by Dr. Rupinder Singh
73	Cell Sectoring by Dr. Garima Saini
74	Boolean Algebra Boolean postulates by Dr. Balwinder Singh Dhaliwal
75	Case studies for 4D allocations of auxetic structures by Dr. Rupinder Singh
76	Case study 2 by Dr. Rupinder Singh
77	4D applications of auxetic structures in polymer 3D printing
78	2-bit ADC flash type by Dr. Kanika Sharma

List of Produced Films (April 2024- March 2025)

Sr. No.	Title of the Video
79	Cellular system (capacity & coverage) by Dr. Garima Saini
80	Circuit realization by Dr. Balwinder Singh Dhaliwal
81	Frequency division multiple access by Dr. Garima Saini
82	TIME DIVISION MULTIPLE ACCESS by Dr. Garima Saini
83	LOGIC FAMILIES (ttl & cmos) by Dr. Balwinder Singh Dhaliwal
84	Multiplexer with demo by Dr. Kanika Sharma
85	Demultiplexer with demo by Dr. Kanika Sharma
86	FDMA&TDMA by Dr. Garima Saini
87	SR Latch with demo by Dr. Kanika Sharma
88	SOP & POS by Dr. Balwinder Singh Dhaliwal
89	CDMA by Dr. Garima Saini
90	Sequential logic circuit by Dr. Kanika Sharma
91	Flip Flop and D Flip Flop by Dr. Kanika Sharma
92	Hand Off by Dr. Garima Saini
93	K Maps by Dr. Balwinder Singh Dhaliwal
94	Astable Multivibrator by Dr. Kanika Sharma
95	POS with K Map by Dr. Balwinder Singh Dhaliwal
96	5 and 6 variable K Map by Dr. Balwinder Singh Dhaliwal
97	Hand off process in Cellular mobile Communication by Dr. Garima Saini
98	Adder and Subtractor by Dr. Balwinder Singh Dhaliwal
99	Practical consideration in hand off design by Dr. Garima Saini
100	N Bit Address by Dr. Balwinder Singh Dhaliwal
101	Multiplexer by Dr. Balwinder Singh Dhaliwal
102	J K Flip flop by Dr. Kanika Sharma
103	T Flipflop by Dr. Kanika Sharma
104	Demultiplexer by Dr. Balwinder Singh Dhaliwal
105	4 bit synchronous up counter by Dr. Kanika Sharma
106	4 bit universal shift register by Dr. Kanika Sharma
107	GSM & Its Structure by Dr. Garima Saini
108	Encoders by Dr. Balwinder Singh Dhaliwal
109	GSM SUB SYSTEM by Dr. Garima Saini
110	Water Level Indicator by Dr. Kanika Sharma
111	IR Proximity/obstacle by Dr. Kanika Sharma
112	GSM Interface and frequency band by Dr. Garima Saini
113	GSM Frame Structure by Dr. Garima Saini
114	Decoder by Dr. Balwinder Singh Dhaliwal
115	Fire Alarm Circuit by Dr. Kanika Sharma
116	Comparator by Dr. Balwinder Singh Dhaliwal
117	Key features and benefits of GPRS by Dr. Garima Saini
118	LDR by Dr. Kanika Sharma
119	Real Time Application of Digital Logic Circuit by Dr. Kanika Sharma
120	GPRS Architecture by Dr. Garima Saini
121	Gprs channels by Dr. Garima Saini
122	EDGE by Dr. Garima Saini
123	Research in Interdisciplinary Area for Sustainable Development by Dr. UN Roy
124	Bcd to 7 Segment display decoder by Dr. Balwinder Singh Dhaliwal
125	Concept of latch and SR Flip flop by Dr. Balwinder Singh Dhaliwal
126	Electronic Code Lock Circuit with Demo by Dr. Kanika Sharma
127	LED Chaser Circuit with Demo by Dr. Kanika Sharma

List of Produced Films (April 2024- March 2025)

Sr. No.	Title of the Video
128	Frequency Divider Circuit with Demo by Dr. Kanika Sharma
129	Hand Off Scenarios by Dr. Garima Saini
130	WCDMA in 3G Network by Dr. Garima Saini
131	Overview of UMTS by Dr. Garima Saini
132	UMTS Architecture
133	Key Advancement in GSM and UMTS by Dr. Garima Saini
134	JK, D and T Flip Flop by Dr. Balwinder Singh Dhaliwal
135	Shift Register and their basic types by Dr. Balwinder Singh Dhaliwal
136	Universal Shift Register by Dr. Balwinder Singh Dhaliwal
137	OFDM ka Parichay by Dr. Garima Saini
138	Bluetooth and its application by Dr. Garima Saini
139	Asynchronous counter or ripple counters by Dr. Balwinder Singh Dhaliwal
140	Design of Asynchronous counter by Dr. Balwinder Singh Dhaliwal
141	Decade and Arbitrary Sequence Counters by Dr. Balwinder Singh Dhaliwal
142	Shift Register Counters
143	Intro to WiFi by Dr. Garima Saini
144	WiFi Architecture by Dr. Garima Saini
145	Semiconductor Memories Organisation and Classification by Dr. Balwinder Singh Dhaliwal
146	Random Access Memory (RAM), Static RAM (SRAM) and Its Basics
147	LTE and its Frequency Band by Dr. Garima Saini
148	Dynamic Ram and DDR RAM by Dr. Balwinder Singh Dhaliwal
149	ROM & its types by Dr. Balwinder Singh Dhaliwal
150	LTE Architecture by Dr. Garima Saini
151	LTE Resource Blocks by Dr. Garima Saini
152	Transition from 3G to 4G by Dr. Garima Saini
153	Working of DAC by Dr. Balwinder Singh Dhaliwal
154	Binary weighted resistor DAC by Dr. Balwinder Singh Dhaliwal
155	5G Standardization and spectrum
156	5G new radio concepts

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
1	Testimonial Video-I on Two Days Workshop on Teaching Pedagogy for IIITs from 9-10 March 2024
2	Testimonial Video-II on Two Days Workshop on Teaching Pedagogy for IIITs from 9-10 March 2024
3	Techniques of Assessment By Dr. Sunil Dutt
4	Outcome Based Education By Dr. P S Grover
5	Outcome Based Education By Dr. Meenakshi Sood
6	Interplay of Technology & Education By Dr. Jyotirmoy Dutta
7	Instructional Strategies for OBE By Ms. Amandeep Kaur
8	E Tools for Student Evaluation By Dr. Gaurav Kumar
9	Curriculum Framework for Higher Education in NEP 2020 By Dr. Meenakshi Sood
10	Curriculum Design Process By Dr. Meenakshi Sood
11	Curriculum Design & Implementation Strategy By Dr. P S Grover
12	Blooms Taxonomy By Dr. Sanjeev Sofat
13	Assessment Techniques & Rubrics By Dr. P S Grover
14	Academic Industry Linkage For Curriculum Structuring By Prof. Niraj Bala
15	Art of Social Engineering by Dr Shweta Sharma
16	Cyber Laws by Dr. Suniti Dutt
17	Safe online banking by Dr. Manisha Malik
18	IPR of Print materials by Er. Amardev Singh
19	Secure and Healthy browsing over the web using VPN by Er. Kaveesh Nayak
20	Identity Theft and Data Theft : Detection and Prevention by Dr. Srinivasa
21	Smartphone fingerprinting and Vulnerability
22	Testimonial Video-I on Course on Outcome Based Education from 22-26 April 2024
23	Testimonial Video-II on Course on Outcome Based Education from 22-26 April 2024
24	Bloom's and Other Taxonomy and Mapping by Prof. (Dr.) SS Pattnaik
25	Brief Information on the Report of Overarching Committee by Prof. SS Pattnaik
26	Classroom Management by Dr. Jagriti Saini
27	Setting of question paper and designing of marking scheme by Prof. Paramjit Kaur Tulsi
28	Use of Online Evaluation Tools for Assessment by Er. Gaurav Kumar

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
29	AI VR in teaching Learning by Dr. Jagriti Saini
30	Blended Learning and cooperative methods of teaching by Ms. Amandeep Kaur
31	Changing Learning Spaces New Gen classrooms by Ms. Amandeep Kaur
32	Effective Curriculum Design and Implementation by Dr. Arvind Bal Gupta
33	Flipped Classroom by Prof. Sunil Dutt
34	Innovative Pedagogy by Ms. Amandeep Kaur
35	Integrating social media in teaching by Ms. Rama Chhabra
36	Planning for instructions & delivery An overview by Prof. Paramjit Kaur Tulsi
37	Project Based Learning by Prof. B S Pabla
38	Recent Trends in Analysis & Design of Civil Engineering Structures by Er. Himmi Gupta
39	Fire Resistant Design of Structures by Er. Himmi Gupta
40	Indian Standards related to Disaster Resilient Infrastructure by Jitendra K. Chaudhary
41	Design of Prestressed Beam Bridges by Mr. Mohit Garg
42	Design of Steel Structures Concept and Practices by Mr. MM Ghosh
43	Multiframe Modelling for Analysis of Structures by Dr. Rajneesh Sharma
44	Sustainable Structural Design: Concept and Practices by Jit K Gupta
45	Analysis and Design of Structures using STAAD - Part I by Bentley Inc.
46	Making Villages Smart: An Introduction by Er. Himmi Gupta
47	Finite Element Analysis for Design of Structures using SpaceGass Software by David Francis
48	GoI Initiatives for Smart Villages and Precision Agriculture by Prof. Krishna Mohan
49	Smart Grids & Rural Electrification by Money Khanna
50	Renewable Energy Options for Smart Villages by Dr. Arvind Dhingra
51	Rural Planning and Development by Mr. Jit K Gupta
52	Gamification in Teaching Learning by Dr. Manisha Malik
53	Outcome Based Education by Dr. Maitreyee Dutta
54	Crafting Effective CV with High Visibility to Job Portals and Rankings Dr. Gaurav Kumar
55	E resources and Portals for Research and Intellectual Property Dr. Gaurav Kumar
56	Tools and AI Prompts for Graphics and Academic Content Dr. Gaurav Kumar

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
57	Diversified AI Chatbots for Teaching and Learning
58	Effective Use of MOODLE for Teaching Learning Dr. Jagriti Saini
59	Flipped Classroom Concept Features or Implications for Teaching Learning Dr. Sunil Dutt
60	How to Successfully Create an Online Course Dr. Jagriti Saini
61	Integration of Blogs, and Twitter in Teaching Learning by Dr. Suditi Jindal
62	LinkedIn for Greater Visibility Credibility and Networking by Mr. Hitesh Gulati
63	Role and Importance of Social Media in Education by Ms. Rama Chhabra
64	Developing outcome-based question paper by Dr. Balwinder Singh Dhaliwal
65	Designing of Rubrics Part I by Dr. Balwinder Singh Dhaliwal
66	Blended Learning by Amandeep Kaur
67	Key Technologies for making Villages Smart by Prof. Jagdish Godihal
68	Watershed Management for Rural Areas by Dr. Pravesh Kr. Sharma
69	CO-PO Attainment Part I by Dr. Balwinder Singh Dhaliwal
70	Decoding POs by Prof. SS Pattnaik
71	Agricultural Demand Management and Solar Pumps by Neeraj Sharma
72	CO PO Attainment Part II by Balwinder Singh Dhaliwal
73	PCR Mindset by Dr. Hitesh Kumar Gulati
74	Interpersonal Relations and Conflict Reductions By Ms. Manjula Sularia
75	Stress Management : Tabla Approach Part 1 by Dr. Hitesh Kumar Gulati
76	Stress Management : Tabla Approach Part 2 by Dr. Hitesh Kumar Gulati
77	Managing Communication by Dr Archana R Singh
78.	Changing Contours of Professional education and Role of Teachers by Dr. JS Saini
79	Effective Presentation skills for Professional Excellence
80	Professionalism in Teaching and Learning by Dr .Hitesh Kumar Gulati
81	AWS Identity & Access Management (IAM) by Dr. Mala Kalra
82	Creating an account in AWS and using EC2 by Dr. Mala Kalra
83	Characteristics of effective teacher by Dr. Shilpa Suri
84	AWS Storage services by Dr. Vipin Gupta

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
85	Amazon Relational Database Services by Dr. Vipin Gupta
86	Innovative pedagogy and Assessment for Effective NEP 2020 Implementation by Dr. Manu K. Vora
87	Academia Industry Linkage for curriculum design Dr. Harshvardhan
88	Techniques of Assessment Dr. Sunil Dutt
89	Outcome based Education Dr. Meenakshi Sood
90	Online Evaluation Tools for Assessment Dr. Gaurav Kumar
91	Instructional Strategies for OBE Dr. Sunil Dutt
92	Curriculum Development & Implementation Dr. Sanjeev Sofat
93	Blooms Taxonomy for CO Formulation Er. P K Singla
94	Curriculum Design Process Dr. Meenakshi Sood
95	Curriculum design in consonance with NEP 2020 Dr. Meenakshi Sood
96	Concepts & Strategy of curriculum Design Prof. Y K Anand
97	AI tools for Teaching Learning strategies Dr. Gaurav Kumar
98	Articulation, mapping of Learning Outcomes for OBE Dr. Meenakshi Sood
99	Research Problem Identification by Dr. PK Tulsi
100	Research Concepts: types and Significance by Dr. AB Gupta
101	Experiment Research Design by Dr. AB Gupta
102	Descriptive Research by Dr. PK Tulsi
103	Literature Review by Dr. Anil Kumar
104	Disaster Management by Dr. Suniti and Dr. Kamaldeep
105	Data Collection Dr. AB Gupta
106	Descriptive Statistics Dr. Anil Kumar
107	Inferential Statistics Dr. Anil Kumar
108	Research Ethics and Academic Integrity Dr. Pankaj Sharma
109	Research Report Writing Dr. Rupinder Singh
110	Sampling Techniques, Scales & Scaling Dr. AB Gupta
111	Use of Medley Software by Dr. Gaurav Kumar

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
112	Use of PSPP Software by Dr. Gaurav Kumar
113	Disaster Risk Reduction and Management
114	Curriculum and credit framework for Undergraduate Programme by Dr. J Preetha
115	Curriculum based on Outcome based Education
116	Curriculum Design by Dr. Meenakshi Sood
117	Curriculum design process and Blooms taxonomy by Prof. P S Grover
118	Curriculum Development & Implementation by Dr. Sanjeev Sofat
119	Educational Implications of NEP & Fostering Employability skills by Prof. P S Grover
120	History of Education Policies of India by Dr. Meenakshi Sood
121	Implementation of NCRF & Integration of Skill Based Courses in HEIS by Dr. Meenakshi Sood
122	Key insights of NEP by Prof. B S Pabla
123	Optimal Learning Environment and Support for Holistic development of students by Anuradha Chawla
124	Restructuring Curriculum Framework for Higher Education in NEP 2020 by Dr. Meenakshi Sood
125	Academic Industry Institute Interface By Dr. Sanjeev Gupta
126	Aspects Of Effective Curriculum Implementation By Dr. SS Gupta
127	Bloom's Taxonomy & Its Relevance To Curriculum By Dr. P S Grover
128	Curriculum Design For Education By Dr. Sanjeev Sofat
129	Curriculum Development Processan Overviews By Dr. SK Gupta
130	Group Task On Curriculum Design Implementation By Dr. S K Gupta
131	Nep 2020 And Relevance For Curriculum Design By Dr. B S Pabla
132	Networking With Industry By Dr. S K Gupta
133	Online Assessment Tools And Methods By Mr. Gaurav Kumar
134	Outcome Based Education By Dr. B S Pabla
135	Project Based Learning By Dr. Sanjeev Gupta
136	Student Evaluation And Examination Dr. Meenakshi Sood
137	Intro Video on Wireless and Mobile Communication
138	Intro Video on 3D Auxetic Structures

List of Videos Edited and Uploaded on NCTEL: 165

S. No.	Title of the Video
139	Intro Video on Digital Electronics: Theory and Practice
140	Intro Video on Digital Circuit Design by Dr. Kanika Sharma
141	Evolution and Future Prospects of Industry 4.0 by Dr. Niraj Bala
142	Entrepreneurial Skills and Attributes by Dr. Harsh Vardhan Samalia
143	Sustainable Practices in Industry 4.0 by Dr. Pawan Kumar
144	Role of Machine Learning in Industry 4.0 by Dr. Amit Kumar Bharadwaj
145	Industry 4.0 New Frontier in Financing
146	Importance of IPR and Patenting for 4.0 by Dr. Niraj Bala
147	Harnessing the Power of IoT in Industries by Dr. Sarabpreet Kaur
148	Enhancing Employability and Growing Leadership Mindset by Dr. Uma Batra
149	Enhancement of Employability Skills through various Government Schemes by Dr. S K Dhameja
150	Computational Thinking Approach for Industry 4.0 by Dr. K G Srinivasa
151	AR and Block chain Technologies of 4.0 by Dr. Gaurav Kumar
152	Applications of Additive Manufacturing for Industry 4.0 by Dr. Niraj Bala
153	Adoption of 4.0 Technology by Er Amardev Singh
154	Role Of Industry, Institute And Students In Project Work
155	Project Based Learning & Higher Thinking Skills
156	Organizing Project Oriented Professional Training
157.	Networking With World Of Work For Project Work
158.	Identification And Planning Of Project Work
159.	Group Task ~1
160.	Evaluation Of Project Work
161.	Developing Employability Skills Through Project Work
162.	Concept And Significance Of Project Work
163.	Competence Expected By Industry From Technical Students
164.	Aspects Of Report Writing For A Project Work
165.	Academic Industry Interface For Project Work





Rural Development Department



Dr. Upendra Nath Roy

Professor & Head

Research Areas – Watershed Management, Rural Sanitation, Climate Change & Disaster Management, Organic Farming

Dr. Hemant Kumar Vinayak

**Associate Professor (on lien to NIT Hamirpur),
Faculty Incharge (Estate)**

Research Areas - Entrepreneurship Development including Technical, Rural, Women Entrepreneurship, MSME Start up



Dr. Amit Goyal

Assistant Professor

Research Areas - Structure Dynamics, Masonry Structure, Low Cost Housing

Rural Development Department

During the year 2024-25, the department has conducted online 20 short term training programs in ICT and Contact Mode, which were attended by 1296 teachers from polytechnics and engineering colleges. The Department has conducted 08 workshops with 399 participations. The department also published 03 papers in proceedings of International Conferences & Seminar's. 02 patent was also filed during the year to a faculty member of department.

Sr. No.	Short Term Programmes Conducted
1.	Technologies for Sustainable Development
2.	Organic Farming and Marketing of Organic Food Products
3.	IKS Health Care Promotion of Cultivation of Herbal and Medicinal Plants and Herbal Products
4.	Climate Change and Disaster Management
5.	Research Methodologies for Science, Management and Engineering
6.	Rural Architecture and Rural Tourism
7.	Role of Teachers in Unnat Bharat Abhiyan
8.	AI for SDGs under Unnat Bharat Abhiyan
9.	Institutional Management, Quality Training and Industrial Networking
10.	Induction Programme for Newly Recruited Teachers
11.	Corporate Social Responsibility for Sustainable Development
12.	Earthquake Risk management
13.	Affordable housing in disaster prone Area
14.	Skill Development and employment generation in India
15.	Energy Efficient and innovative construction
16.	Innovative Technologies for Village Development
17.	Outcome based Education and Teaching Pedagogy
18.	Role of Indian Knowledge System and Skill Development in Tech. Education
19.	Induction Training to Improve Teaching and Research in Technical Education
20.	Design Thinking and Innovation in Fashion & Textile

Curriculum Designed

Sr No	No. of Curriculum Designed	State/Origin	Title of Curriculum Designed
1.	1	Chandigarh	Curriculum on Traditional Healers

Research Project Granted

Sr No	Project Title	Faculty Name	Sanction Date	Amount (in Rs)
1.	Structural Safety Audit of Hospital and School Buildings of Himachal Pradesh, sponsored by Himachal Pradesh State Disaster Management Authority (HPSDMA), Shimla, Himachal Pradesh	U N Roy, Sanjay Sharma and Amit Goyal		2. 35, 75 Crore (2021 – 25)
2.	Unnat Bharat Abhiayn	U N Roy		5.00 Lakh (2024-25)
3.	Promotion of Herbal and Medicinal Plants	U N Roy		3.00 lakh in 2024 - 25
4.	Structural Safety Audit of Hospital and School Buildings of Himachal Pradesh, sponsored by Himachal Pradesh State Disaster Management Authority (HPSDMA), Shimla, Himachal Pradesh	U N Roy, Sanjay Sharma and Amit Goyal		2. 35, 75 Crore (2021 – 25)

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Participants
1.	SP-63	Gram Sabha Under Unnat Bharat Abhiyaan	01-05-2024		43
2.	SP-63	World Environment Day	05-06-2024		
3.	W-4	Collaborative Projects between NITTTR Chandigarh and Rajeevika Mission Rajasthan	09-07-2024		06

Workshops

Sr No.	TAC No.	Name of the Workshop	Start Date	End Date	Total Students
4.	SP-82	Preparation of Curriculum on Traditional Healers with RCFC North NR-1 Ayush, Joginder Nagar, Himachal Pradesh	12-11-2024		10
5.	SP-82	Regional Stakeholders consultation on Quality Planting Material/nurseries of medicinal plants	13.11.2024	14.11.2024	70
6.	SP-82	Training on Conservation and Cultivation of Medical Plants	10.12.2024	11.12.2024	120
7.	W-19	O Plan Workshops for the year 2025-26 (Uttar Pradesh)	18-01-2025		55
8.	SP-82	Regional Workshop on Marketing of Herbal and Organic Products: Buyers and Sellers Meet	18.03.2025	19.03.2025	98

Consultancy & Sponsored Programs

Sr No.	TAC No.	Program Type	Title	Funding Agency
1.	SP - 63	Sponsored	Unnat Bharat Abhiyan	IIT Delhi
2.	SP - 82	Sponsored	Promotion of Herbal and Medicinal Plants	RCFC, Joginder Nagar National Medicinal Plants Board
3.	SP - 35	Sponsored	Structural Safety Audit of Hospital and School Buildings of Himachal Pradesh,	Himachal Pradesh State Disaster Management Authority (HPSDMA), Shimla, Himachal Pradesh

Papers published / presented by the Rural Development Department Faculty in International Conferences/Seminars

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Published By & Venue	Author (s) Name
1.	"Shake Table Analysis of Masonry Structure with Interlinked Block Masonry System",	18 th International World Conference on Earthquake Engineering (WCEE, 2024) from 30 th June to 05 July, 2025 at Milan, Italy.	A. Goyal, P. Agarwal, 2024
2.	"Performance of Beam Column Joint with Passive Energy Dissipation System",	18 th International World Conference on Earthquake Engineering (WCEE, 2024) from 30 th June to 05 July, 2025 at Milan, Italy.	A. Goyal, R. S. Chidambaram, N. Dhooper, Bharati, K. Chauhan, 2024
3.	"Passive type of Friction damper for seismic Energy dissipation: A Review"	International Conference on Recent Trends in Engineering and Sciences(RTES – 2025), on 14-15 Feb 2025 at NIT Surat	Nagendra Dhooper and Amit Goyal, 2024
4.	An overview of Organic and Herbal Markets at Global and National Level	Regional Seminar on Stakeholders consultation on Quality Planting Material/nurseries of medicinal plants Organised by RCFC, Jogindernagar and NITTTR Chandigarh 13.11.2024 at NITTTR Chandigarh	U N Roy, 2024
5.	"Innovative Waste Management by Converting Waste into Valuable for Sustainable Development"	2 nd National ENO's Conference on "Indian Knowledge System for Environmental Sustainability, Climate Action and Eco-Human Health from 20-21 September, 2024 at Panjab University, Chandigarh.	A.Goyal, Rahul, M. Godara, 2024
6.	Prospects of Organic and Herbal Plants Cultivation in India	Regional Seminar on Conservation and Cultivation of Medical Plants 10 – 11 December 2024, Organised by RCFC, Joginder Nagar and NITTTR, Chandigarh	U N Roy, 2024
7.	"भवन संरचना के लिए निष्क्रिय भूकंपीय ऊर्जा अपव्यय प्रणाली: एक व्यापक समीक्षा"	राष्ट्रीय विज्ञान हिंदी सम्मलेन – 2024, भोपाल, 30-31 जुलाई 2024	नागेंद्र धूपर और डॉ अमित गोयल, 2024
8.	Cultivation and Marketing of Organic and Herbal Produce and Products in India	Regional Seminar on Marketing of Herbal and Organic Products: Buyers and Sellers Meet Organised by RCFC, Jogindernagar and NITTTR Chandigarh on 18-19 March 2025	U N Roy, 2025

Patents/Copyright

Sr. No.	Name of Patents/Copyright	Author (s) Name
1.	"Friction Damper for Beam-Column Joints of Buildings", Application No. 202311051848 A, examination report filled on 17.06.2024	Goyal, Amit., Kushal Chauhan, Bharati, Nagendra Dhooper
2.	"Construction Material with Pond Ash" in the Application no. 202411018668, Published on 20.06.2024.	Goyal, Amit., Godara Mohit.,

Instructional Material Development

Sr No	Faculty Name	No./Lab Manual Details/ Video Films	Lab Manual Publish. Mnth	No./Readers Details	Readers Publish. Mnth
1.	U N Roy	Integrated Dairy and Organic Farming			
2.	U N Roy	Organic Dairy Farming: Case of Hetha Organics			
3.	U N Roy	Organic Dairy Farming and Integrated Farming			
4.	U N Roy	Green Tourism in Uttarakhand Himalaya			

हिंदी प्रकोष्ठ

हिंदी द्वारा सारे भारत को एक सूत्र में पिरोया जा सकता है।

- स्वामी दयानन्द सरस्वती

2024-25 में हिंदी प्रकोष्ठ द्वारा कार्यान्वित कार्यों की सूची:

संस्थान के काम-काज में राजभाषा हिंदी के उत्तरोत्तर विकास के लिए एवं हिंदी को जन-मानस की भाषा बनाने के उद्देश्य से संस्थान में एक हिंदी प्रकोष्ठ बनाया गया, जिसमें इस विषय क्षेत्र में सुशिक्षित एवं निपुण कर्मचारी कार्यरत हैं। हिंदी प्रकोष्ठ में एक पद वरिष्ठ अनुवाद अधिकारी एवं कनिष्ठ अनुवाद अधिकारी तथा एक हिंदी टंकक का पद है। हिंदी प्रकोष्ठ की गतिविधियां निम्नलिखित हैं :

1.	भारत सरकार, गृह मंत्रालय द्वारा जारी वार्षिक कार्यक्रम के निर्धारित लक्ष्यों की पूर्ति हेतु संस्थान में समय-समय पर परिपत्र जारी किए जाते हैं।
2.	शिक्षा मंत्रालय एवं नगर राजभाषा कार्यान्वयन समिति-कार्यालय-2, चण्डीगढ़ के साथ पत्राचार करना उचित कार्यवाही कर संप्रेषण स्थापित किया जाता है।
3.	संस्थान की वार्षिक रिपोर्ट 2024-25, तुलन-पत्र, लेखा-परीक्षा एवं अन्य दस्तावेज इत्यादि का अनुवाद कार्य एवं टंकण कार्य किया गया।
4.	संस्थान के विभिन्न विभागों से प्राप्त विभिन्न दस्तावेज का हिंदी अनुवाद किया जाता है।
5.	संस्थान के विभिन्न विभागों के लिए द्विभाषी प्रारूप पत्र तैयार किया जाता है।
6.	संस्थान में हिंदी माह का आयोजन किया जाता है। 01 सितम्बर से 30 सितम्बर, 2024 तक हिंदी माह के रूप में मनाते हुए हिंदी सुलेख, हिंदी शब्द ज्ञान, हिंदी श्रुतलेख, हिंदी टंकण, हिंदी मसौदा लेखन, हिंदी उच्चारण, हिंदी कविता पाठ एवं चित्र दर्शन हिंदी कहानी लेखन, नामतः आठ प्रतियोगिताएं आयोजित की गईं। राजभाषा पुरस्कार वितरण समारोह आयोजित करना एवं इस अवसर पर एक प्रश्न-मंच का आयोजन कार्य किया गया।
7.	राजभाषा पुरस्कार वितरण समारोह की सूचना तैयार करके प्रकाशन हेतु संबंधित अधिकारी को प्रेषित की जाती है।
8.	संस्थान में हर तिमाही में हिंदी कार्यशाला आयोजित करना। कार्यशालाओं के लिए विषय विशेषज्ञों की पहचान कर उन्हें आमंत्रित किया जाता है।
9.	सेवारत कर्मचारियों के हिंदी प्रशिक्षण के संदर्भ में हिंदी रॉस्टर का रख-रखाव एवं उनके हिंदी ज्ञान के स्तर के आधार पर प्रशिक्षण दिलवाना सुनिश्चित की जाती है।
10.	संस्थान में राजभाषा कार्यान्वयन समिति की तिमाही बैठक का आयोजन 28.03.2024, 05.07.2024 एवं 28.11.2024 को किया गया।

हिंदी प्रकोष्ठ

हिंदी द्वारा सारे भारत को एक सूत्र में पिरोया जा सकता है -
स्वामी दयानन्द सरस्वती

2024-25 में हिंदी प्रकोष्ठ द्वारा कार्यान्वित कार्यों की सूची:

11.	संस्थान में हिंदी के प्रगामी प्रयोग से संबंधित तिमाही/छमाही एवं वार्षिक प्रतिवेदन शिक्षा मंत्रालय को प्रेषित करना एवं इन प्रतिवेदनों को ऑनलाइन प्रेषित किया गया। तिमाही प्रतिवेदन: 01.01.2024 से 31.03.2024 01.04.2024 से 30.06.2024 01.07.2024 से 30.09.2024 01.10.2024 से 31.12.2024
12.	संस्थान के दैनिक कामकाज में प्रयुक्त होने वाले दस्तावेज़/रबड़ की मोहरें इत्यादि द्विभाषी रूप में जारी की गईं।
13.	नगर राजभाषा कार्यान्वयन समिति कार्यालय-2, चण्डीगढ़ को यथासमय छमाही प्रतिवेदन प्रेषित की जाती है।
14.	नगर राजभाषा कार्यान्वयन समिति, चण्डीगढ़ कार्यालय-2 की छमाही बैठकों में सक्रिय रूप से संस्थान का हिंदी कार्य प्रतिनिधित्व करना सुनिश्चित किया जाता है।
15.	नगर राजभाषा कार्यान्वयन समिति, चण्डीगढ़ कार्यालय-2 द्वारा आयोजित नगर स्तरीय प्रतियोगिताओं में इच्छुक कर्मचारियों को नामित किया जाता है।
16.	हिंदी पर्यायों का संस्थान के सभी अधिकारियों/कर्मचारियों एवं आगतुकों को सहज ज्ञान हो, इस उद्देश्य से संस्थान की मुख्य इमारत में लगाए गए एल. ई. डी. डिस्प्ले बोर्ड पर प्रतिकार्य दिवस पर' आज का शब्द' लिखा जाता है।
17.	संस्थान के सभी नाम पट्टों को त्रिभाषी रूप में अर्थात् सर्वप्रथम प्रादेशिक भाषा, इसके उपरांत हिंदी भाषा व अंत में अंग्रेजी भाषा में अनुवाद किया गया जिसका निर्माण कार्य प्रक्रियाधीन है।
18.	संस्थान के पुस्तकालय में हिंदी पुस्तक क्रय की अनुपालना हेतु पुस्तकों की सूची उपलब्ध कराई गई। निदेशक महोदय द्वारा सुझावित राष्ट्रीय एकता पर विडियो फिल्मों का क्रय सुनिश्चित किया गया।
19.	संस्थान की समाचार पत्रिका का हिंदी अनूदित रूप प्रदान किया गया।
20.	संसदीय राजभाषा समिति के निरीक्षण हेतु प्रश्नावली तैयार करना व निरीक्षण 07.03.2024 में दिए गए आश्वासनों की अनुपालना पूर्णतः सुनिश्चित की जा रही है।

हिंदी प्रकोष्ठ

हिंदी द्वारा सारे भारत को एक सूत्र में पिरोया जा सकता है -
स्वामी दयानन्द सरस्वती

2024-25 में हिंदी प्रकोष्ठ द्वारा कार्यान्वित कार्यों की सूची:

21.	संस्थान द्वारा निरंतर रूप से कार्यशालाएं आयोजित की जाती हैं। कार्यशाला 2024-2025		
	क्रम सं.	दिनांक	विषय
	1.	22.03.2024	हिंदी का स्वरूप
	2.	27.06.2024	तिमाही रिपोर्ट लेखन, क्षेत्रीय वर्गीकरण
	3.	24.10.2024	हिंदी का विस्तृत स्वरूप व आत्मविकास
	4.	12.12.2024	हिंदी के उत्थान व हिंदी में सहज कार्य
22.	राजभाषा विभाग गृह मंत्रालय के नियमानुसार संस्थान के सभी कर्मचारियों का हिंदी में कार्यसाधक ज्ञान टंकण व आशुलिपि प्रशिक्षण हेतु जानकारी केंद्रीय हिंदी प्रशिक्षण संस्थान व गृह मंत्रालय, राजभाषा विभाग को समय-सीमा में प्रेषित की गई।		
23.	संस्थान के वार्षिक पंचांग का हिंदी अनुवाद व टंकण किया गया।		
24.	संस्थान द्वारा जारी विज्ञापनों का हिंदी अनुवाद किया गया।		
25.	21.2.2025 को मातृभाषा दिवस के उपलक्ष्य में संगीतमय छंद अनुवाद प्रश्नोत्तरी प्रतियोगिता आयोजित की गई।		
26.	संस्थान के वेब पटल पर हिंदी जारी सभी द्विभाषी नामांकन, पुष्टिकरण व प्रमाण पत्र प्रदान करने सुनिश्चित किए गए।		
27.	हिंदी भाषा से संबंधित सूचना का अधिकार अधिनियम के तहत यथासमय जानकारी प्रदान की गई।		
28.	संस्थान की वार्षिक प्रगति प्रतिवेदन का अनुवाद कार्य किया गया।		
29.	सेवा-पुस्तिका में दर्ज प्रविष्टियां व मोहरों का द्विभाषी प्रयोग करना सुनिश्चित किया गया।		
30.	सेवा-पुस्तिका में दर्ज कर्मचारी का नाम/पदनाम द्विभाषी किया गया।		
31.	संपदा कार्यालय से संबंधित सुरक्षा नियमावली का अनुवाद प्रदान किया गया।		
32.	एनसीटेल पोर्टल पर उपलब्ध तकनीकी प्रश्नावली व वीडियो व्याख्यानों का अनुवाद प्रदान किया गया।		
33.	24.09.2024 को राजभाषा विभाग द्वारा संस्थान में किए जा रहे हिंदी कार्यों के निरीक्षण हेतु आवश्यक कार्रवाई की गई: <ul style="list-style-type: none"> संस्थान में वर्ष में किए हिंदी कार्यों की विवरणिका तैयार की। हिंदी माह की स्टैंडी व माननीय श्री अमित शाह जी का संदेश प्रस्तुत किया गया। संस्थान में हिंदी की गतिविधियों की 4 विवरणिका प्रकाशित करना सुनिश्चित किया। 		
34.	संस्थान को गृह मंत्रालय, राजभाषा विभाग द्वारा नराकास-2 चंडीगढ़ के अधीनस्थ 56 कार्यालयों की अध्यक्षता का उत्तदायित्व प्राप्त हुआ जिसका पत्राचार व कार्य निरंतर प्रक्रियाधीन है।		

3.0 Institutional Infrastructure

3.1 Land and Constructed Space

The Institute's main campus is located in the educational complex in Sector 26 on a plot of about **16.94 acres (6.85 hectares)** of land. The main campus includes:

- **Homi Bhabha Academic Block** housing the departments of Applied Science, Civil Engineering, Electrical Engineering, Electronics Service Centre, Electronics and Communication Engineering, Mechanical Engineering and Rural Development.
- **Ramanujan Centre for Computer Science and Educational Television** housing the departments of Computer Science and Engineering, Educational Television Centre, Media Centre and Information Management and Coordination Department.
- **Sir J C Bose Academic and Administrative Block** housing the Director's Office, Administrative and Accounts Section, Institute's Library and the departments of Curriculum Development, Education and Educational Management and Entrepreneurship Development and Industrial Coordination.
- **Visvesvaraya Lecture Hall Complex** includes **08** numbers of Hi-tech Lecture Halls.
- **Chandrasekhar Hall, Mother Teresa Hall, Amartya Hall and Tagore Hall** (hostel for men and women), and **Student Centre**.
- **Har Gobind Khorana Guest House** with 11 A/C and fully furnished rooms, a Dining Hall, Conference Hall and Exercise Room.
- **Raman Hall** – Guest House No. 2 with 51 A.C. and fully furnished room with dining room.
- **Faculty and Staff Residences.**
 - Besides the main campus in Sector 26, there are additional residential campuses in Sectors 29 and 42 with eighty houses for residential accommodation for staff and faculty. The total built up area is **39325 sqm**. The institute also has a children park in Sector-29 campus and a gym-cum-meditation centre in Sector – 42 Campus.

During 2024-25, the following renovation work was completed:

- Completed laying of PNG lines and installation of meters at Setor-26 and Sector-42B Compuses.
- Completed the renovation works of Hindi Cell.

During 2024-25, the following renovation work was completed (contd.):

- Completed The renovation works for Cop-Connect Wellness Clinic.
- Completed the renovation works of 40 ground floor rooms Amartya and Tagore Halls (Boys Hostel).
- Completed providing and fixing work of Mural at outside wall of SS Bhatnagar Auditorium.
- Renovated surrounding area of water cooler installed at ground floor of Sir JC Bose Academic and Administration Block.
- Completed, providing and fixing work of false ceiling at entrance of Homi Bhabha Academic Block, reception Area, Accounts section and Directors Office
- Completed, renovation of tandoor shed area at backside of Guest house – 1, with raised platform.
- Completed, replacing of old, damaged and faded roof shed of all-weather footpath connected through guest house-II canteen, Mess and Guest House-1 with 2 mm thick polycarbonate sheet has been done and is now in use.
- Completed, replacing of the display board of Security Check, Estate Office in trilingual.
- Completed, replacing of old, damaged and faded roof shed of all-weather footpath connected through guest house-II, canteen, Mess and Guest House-1 with 2mm thick polycarbonated sheet has been done and is now in use.

3.2 Equipment

Equipment worth **₹367.96 lakh** was purchased during the year **2024-25**. The total value of equipment increased to **₹5899.46 lakh** as on **31.03.2025**. After providing necessary depreciation on the assets, the net value of the equipment remained at **₹1192.92 lakh** as on **31.03.2025**.

3.3 Furniture

Furniture worth **₹35.13 lakh** was purchased during the year **2024.25**. The total value of furniture increased to **₹451.29 lakh** as on **31.03.2025**. After providing necessary depreciation under rules, the net value of furniture remained at **₹104.63 lakh** as on **31.3.2025**.

3.4 Expenditure

An expenditure amounting to **₹5534.31 lakh** has been incurred during the financial year **2024-25** under various schemes as indicated below:

Sr. No.	Name of the Scheme	(Rupees in Lakh)
		Expenditure incurred
1.	OH-35 (Capital)	1426.35
2.	OH-31 (General)	1686.82
3.	OH-36 (Salary)	2421.14
	Total Expenditure	5534.51

3.5 Library Resources

Library Resources:

S.No.	Resources	Numbers
1.	Print Books	50275
2.	E-books	578
3.	Theses	756
4.	Indian standards	10043
5.	CD-ROM/DVDs	355
6.	Bound Journals	23173

Periodical Resources:

S.No.	Resources	Numbers
1.	Print Journals	21
2.	E-Resources	11
3.	Magazines /Newspapers /Other resources	15

E Resources available in our Institute Library:

- IEEE Xplore Resources:
 - *IEEE All-Society Periodicals Package - 190 Titles*
 - *IEEE Proceedings Order Plans - 5,30,000+ articles*
- ASCE Journals Online
- ASME Journals Online
- Economic & Political Weekly
- Institute for Studies in Industrial Development (ISID) Database
- JGate Plus (JCCC)
- JSTOR
- Springer Link
- Web of Science Lease Access
- South Asia Archive (SAA)
- Open Access Journals
- Registered for National Digital Library of India: NDL Club Registration ID is: INCHNC4VRUNZUQC
- DELNET-Institutional Membership DELNET 2021(Developing Library Network)

Open Access Resources

- NITTTR, Chandigarh Technology Enabled Learning(NCTEL)
- MIT Open CourseWare
- Open Access Journals
- Open Access Books
- Open Access Theses and Dissertations
- MOOCs: Coursera/ SWAYAM/ edX

Open Access Resources (contd..)

- NPTEL Resources
- AICTE Online Courses
- INFLIBNET Resources
- Vidya-Mitra
- InforPort
- e-PG Pathshala
- Shodhgangotri
- Shodhganga

Recruitments

Appointment of Non-Teaching Staff

- Section Officer -2
- Asstt. Section Officer – 4
- Sr. Sectr.Asstt – 7
- Jr. Sectr. Asstt – 01 (waiting list)
- MTS – 08 (waiting list)
- Estate Assistant – 01
- PA – 03

Total – 22 (including 09 wait list candidates)

4.0 Audited Accounts

Audited Accounts

The accounts of the Institute for the year 2024-25 duly certified by Principal Director of Audit (Central), Chandigarh are enclosed.

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
BALANCE SHEET AS AT 31st March, 2025

(Rs. In Lakhs)

SOURCES OF FUNDS	Schedule	Current Year 2024-2025	Previous Year 2023-2024
CAPITAL/CORPUS FUND (UNRESTRICTED FUNDS)	1	7,340.46	6,752.92
DESIGNATED EARMARKED / ENDOWMENT FUNDS	2	3,159.34	2,918.35
CURRENT LIABILITIES & PROVISIONS	3	6,159.25	5,713.04
TOTAL		16,659.05	15,384.31
APPLICATION OF FUNDS	Schedule	Current Year 2024-2025	Previous Year 2023-2024
FIXED ASSETS	4		
Tangible Assets		4,416.83	4,459.68
Intangible Assets		71.39	92.05
Capital Work in progress		739.25	-
INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS	5		
Long term		2,634.79	2,407.61
Short term		29.93	42.57
INVESTMENTS-OTHERS	6	-	-
CURRENT ASSETS	7	7,996.08	7,552.41
LOANS, ADVANCES & DEPOSITS	8	770.78	829.99
TOTAL		16,659.05	15,384.31

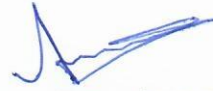
SIGNIFICANT ACCOUNTING POLICIES

23

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

24


Accounts Officer
NITTTR, Chandigarh


Dean (A&F)
NITTTR, Chandigarh


Director
NITTTR, Chandigarh

Dated:

Place: Chandigarh

Compiled by MKJ Associates, Chartered Accountants
(On the basis of Books of Accounts/Tally data provided to us)

CA Manoj Kumar Jain
Chartered Accountant
M.No.091261

UDIN: 25091261BMTJZ2489

Dated - 12-06-2025



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2025

(Rs. In Lakhs)

Particulars	Schedule	Current Year 2024-2025	Previous Year 2023-2024
INCOME			
Academic Receipts	9	139.17	126.21
Grants / Subsidies	10	3,511.85	4,140.64
Income from Investments	11	-	-
Interest Earned	12	416.33	341.88
Other Incomes	13	300.55	567.16
Prior Period Income	14	64.58	-
TOTAL (A)		4,432.48	5,175.89
EXPENDITURE			
Staff Payments & Benefits (Establishment Expenses)	15	3,872.89	4,045.44
Academic Expenses	16	202.77	168.10
Administrative & General Expenses	17	164.08	138.11
Transportation Expenses	18	6.62	5.95
Repairs & maintenance	19	127.16	88.21
Finance Costs	20	-	-
Depreciation	4	755.00	695.94
Other Expenses	21	-	-
Prior Period Expenses	22	-	-
TOTAL (B)		5,128.52	5,141.75
Balance being excess of income over expenditure (A-B)		(696.04)	34.14
Transfer To / From Designated Fund		-	-
Building Fund		-	-
Others (specify)		-	-
Balance Being Surplus / (Deficit) Carried to General Fund		(696.04)	34.14


SIGNIFICANT ACCOUNTING POLICIES

23

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

24


Accounts Officer
NITTTR, Chandigarh


Dean (A&F)
NITTTR, Chandigarh


Director
NITTTR, Chandigarh

Dated:

Place: Chandigarh

Compiled by MKJ Associates, Chartered Accountants
(On the basis of Books of Accounts/Tally data provided to us)

CA Manoj Kumar Jain
Chartered Accountant
M.No.091261

UDIN: 250912618MIJT2481

Dated: 12-06-2025



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
FUNDS DETAIL AS AT 31ST MARCH, 2025

(Rs. In Lakhs)

SCHEDULE 1 - CORPUS FUND/CAPITAL FUND			
	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	Balance at the beginning of the year	9,944.21	9,231.79
2	Add : Contributions towards Corpus	20.54	20.75
3	Add : Fixed Assets under Sponsored Projects/Grants From UGC GOI/State Govt. to the extent utilization for Capital Exp.	1,437.02	691.68
4	Add: Assets Purchased out of Earmarked Funds	-	-
5	Add: Assets Purchased out of Sponsored Projects,Where Ownership vests in the Institution	0.63	-
6	Add:- Assets Donated /Gifts Received	-	-
7	Add : Prior Fixed Assets under Sponsored Projects	-	-
8	Add: Prior period adjustments	1.13	-
9	Add: Other Addition	-	-
10	Less : Assets W/off	-	-
11	Less: Contribution to Ablympics	-	-
12	Less: Excess Depreciation charged on Fixed Assets in earlier years	60.52	-
13	Less: Other Deduction	33.08	-
	Balance the the year end	11,309.94	9,944.21
	<u>GENERAL FUND</u>		
1	Balance at the beginning of the year	(3,191.28)	(3,225.13)
3	Less: Appropriation	(82.15)	(0.30)
4	Less :Balance of Net Expenditure account	(696.04)	34.14
	Balance the the year end	(3,969.48)	(3,191.28)
	NET BALANCE IN CORPUS FUND	7,340.46	6,752.92


Accounts Officer
NITTTR, Chandigarh


Dean (A&F)
NITTTR, Chandigarh


Director
NITTTR, Chandigarh



SCHEDULE 2 : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

(Rs. In Lakhs)

Fund wise Breakup											
S.No.	Particulars	New Pension		GPF/CPF	Earmarked Funds			Current Year 2024-2025	Previous Year 2023-2024		
		Fund - AAA	Fund - BBB	Equipment Replacement Fund	Faculty Development Fund	Maintenance Fund					
c)	A.										
	a) Opening Balance of the Funds	3.53	2,559.26	121.63	116.65	117.28	2,918.35	3,125.01			
	b) Additions to the Funds :-										
	Donations/grants/ Subscription	262.76	253.03	20.54	20.54	20.54	577.40	550.87			
	Income from Investments made on										
	account of Funds		193.54				193.54	123.21			
	Accrued Interest on Investments of										
	the Funds										
	Other Additions (Specify nature)										
	Total (A)	266.29	3,005.83	142.16	137.19	137.82	3,689.30	3,799.09			
B.											
Utilization/Expenditure Towards											
Objectives of Funds											
i) Capital Expenditure	262.75	267.21									
ii) Revenue Expenditure											
Total (B)	262.75	267.21	-	-	-	529.96	880.74				
Closing Balance at the Year End (A-B)											
		3.55	2,738.62	142.16	137.19	137.82	3,159.34	2,918.35			
Represented By											
a)	Cash and Bank Balance	3.39	29.93	-	-	-	33.32	45.96			
b)	Investment	-	2,634.80	-	-	-	2,634.80	2,407.61			
c)	Interest Accrued but not due	-	73.89	-	-	-	73.89	109.08			
d)	Amount Recoverable	0.14	-	-	-	-	0.14	0.14			
e)	Fund Value		-	142.16	137.19	137.82	417.17	355.56			
f)	NPS Contribution payable	0.01	-	-	-	-	0.01	-			
Total		3.55	2,738.62	142.16	137.19	137.82	3,159.34	2,918.35			



[Signature]
Accounts Officer
NITTTR, Chandigarh

[Signature]
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[Signature]
Director
NITTTR, Chandigarh


NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS

(Rs. In Lakhs)

S.No.	Particulars	Annexure	Current Year 2024-2025	Previous Year 2024	2023-
A	CURRENT LIABILITIES				
1	Deposits from Staff :- - Staff Welfare fund		4.75		4.49
2	Deposits from Students :- - Alumni Association - Examination Fee		14.05 -		13.25 0.02
3	Sundry Creditors				
a	For goods & services		44.21		7.04
b	For Fixed Assets		-		0.34
c	Others	Annexure-1	159.46		143.16
4	Deposit-Others (including EMD, Security Deposit)		-		1.32
5	Statutory Liabilities (GPF,TDS.WC TAX,CPF, GIS, NPS)		1.55		-
a	Others	Annexure-2	25.75		9.44
6	Others current liabilities				
a	Receipts against sponsored projects	Sch 3(a)	554.17		290.44
b	Receipts against sponsored fellowship & scholarships	Sch 3(b)	-		-
c	Unutilised Grants (including OH 31,OH 36 & OH 35)	Sch 3(c)			
	Unutilised GRANTS OH 36		1,060.89		561.03
	Unutilised GRANTS OH 31		-		157.71
	Unutilised GRANTS OH 35		716.60		888.63
d	Add:- Advance to CPWD,,BSNL and Roads		135.57		102.50
e	Grants in advance		-		-
f	Others funds	Annexure-3	1,039.45		1,141.33
g	Sponsored Project	Annexure-14	63.50		59.37
	TOTAL (A)		3,819.95		3,380.06
B	PROVISIONS				
1	For taxation		-		-
2	Gratuity		865.09		846.72
3	Superannuation/pension		81.76		79.32
4	Accumulated leave encashment		1,162.94		1,186.61
5	Others (specify) - ADVANCE C01 (ME Fees) - GOI- Restricted Fund - Salary - Expenses payable	Annexure-4	5.45 0.11 223.95		2.05 0.11 218.16
	TOTAL (B)		2,339.30		2,332.97
	TOTAL (A+B)		6,159.25		5,713.04




Accounts Officer
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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH

SECTOR 26, CHANDIGARH

SCHEDULE - 3 (a) SPONSORED PROJECTS FY 2024-25

Sr. No.	Name of the Project	Opening		Expenditure during the year	Receipts / Recoveries during the year	Closing	
		Credit	Debit			Credit	Debit
1	AICTE QIP POLY	6.75	-	-	-	6.75	-
2	CP 24-239	-	-	0.19	1.00	0.81	-
3	CP 24-240	-	-	0.13	5.25	5.12	-
4	CP 24-242	-	-	-	1.50	1.50	-
5	GOI FUND	24.24	-	-	-	24.24	-
6	GST SP-39	0.25	-	-	-	0.25	-
7	GST Tds SP-42	0.10	-	-	-	0.10	-
8	GST TDS Sp-70	0.05	-	-	-	0.05	-
9	IC22-2	0.00	-	-	-	0.00	-
10	ICTO PDA-2	0.32	-	-	-	0.32	-
11	ICTO SP-10	0.74	-	-	-	0.74	-
12	ICTO SP-11	0.84	-	-	-	0.84	-
13	ICTO SP-20	1.92	-	-	-	1.92	-
14	ICTO SP-25	1.83	-	-	-	1.83	-
15	It Bionery Rd Project	1.27	-	-	-	1.27	-
16	Operational Plan	19.66	-	-	-	19.66	-
17	OTHER MISC PROJECT	4.57	-	-	-	4.57	-
18	PDA-08	10.20	-	-	-	10.20	-
19	PDA-1	0.03	-	-	-	0.03	-
20	PDA-13 CSE	0.07	-	-	-	0.07	-
21	PDA-21(Solar PV System)	2.97	-	-	-	2.97	-
22	PDA-22	-	1.39	-	-	-	1.39
23	PDA-2(Electrical)AICTE	2.17	-	2.17	-	-	-
24	PSCB 13 MECH	4.61	-	-	-	4.61	-
25	RPS - AICTE	0.86	-	-	-	0.86	-
26	SP-04	0.00	-	-	-	0.00	-
27	SP-05	2.94	-	-	0.01	2.95	-
28	SP-06(ETV)	19.67	-	-	-	19.67	-
29	SP-09	-	3.63	-	3.63	-	-
30	SP-10	-	0.12	-	0.12	-	-
31	SP-11(EDIC)	-	0.06	-	0.06	-	-
32	SP-12	-	0.14	-	0.14	-	-
33	SP-13	1.63	-	-	-	1.63	-
34	SP-14 MECHANICAL	0.29	-	-	-	0.29	-
35	SP-15	1.94	-	-	-	1.94	-
36	SP-17 Civil	-	5.74	-	-	-	5.74
37	SP-19Unat Bharat Abhyian	1.09	-	-	-	1.09	-
38	SP-20(Computer)	0.40	-	-	-	0.40	-
39	SP-23(ETV)	-	2.72	-	2.72	-	-
40	SP-27	3.73	-	-	-	3.73	-



41	SP-33	0.98	-	-	-	0.98	-
42	SP-34	0.04	-	-	-	0.04	-
43	SP-35	129.66	-	29.22	-	100.44	-
44	SP-39	0.38	-	-	-	0.38	-
45	SP-40	0.00	-	-	-	0.00	-
46	SP-43	0.06	-	-	-	0.06	-
47	SP-49	0.37	-	-	-	0.37	-
48	SP-49(A)	0.14	-	-	-	0.14	-
49	SP-51	0.01	-	-	-	0.01	-
50	SP-53	0.52	-	-	-	0.52	-
51	Sp 54 Mangolian Teachers	0.24	-	-	-	0.24	-
52	SP-55	0.00	-	-	-	0.00	-
53	SP-56	0.00	-	-	-	0.00	-
54	SP-57	0.30	-	-	-	0.30	-
55	SP-59	0.26	-	-	-	0.26	-
56	SP-6	18.00	-	26.41	94.31	85.90	-
57	SP-60	0.69	-	-	-	0.69	-
58	SP-63	0.89	-	-	0.82	1.71	-
59	SP-64	0.90	-	-	-	0.90	-
60	SP-68	0.17	-	-	-	0.17	-
61	SP-71	0.33	-	5.16	4.83	-	-
62	SP-74	2.10	-	2.10	-	-	-
63	SP-75	0.36	-	-	-	0.36	-
64	SP-76	2.03	-	2.03	-	-	-
65	SP-7(EDIC())	2.00	-	2.00	-	-	-
66	SP-82 (SP-W-33)	2.58	-	4.67	3.02	0.94	-
67	SP-83	-	-	-	0.50	0.50	-
68	SP-84	2.04	-	0.59	-	1.45	-
69	SP-85	-	-	-	227.69	227.69	-
70	SP-86	-	-	2.25	1.99	-	0.26
71	SP 88	-	-	1.17	1.50	0.33	-
72	SP CO-11	8.94	-	0.90	-	8.04	-
73	SP-CO8(Academic Cell)	0.22	-	-	-	0.22	-
74	SP-ICT-50(EDIC) DST	-	0.80	-	0.80	-	-
75	SP-RS 51	0.19	-	-	-	0.19	-
76	TDS GST IC-1	-	-	-	0.01	0.01	-
77	TDS GST LC-1	-	-	-	0.00	0.00	-
78	TDS SP 18	-	0.24	-	0.24	-	-
79	TDS SP-39	0.25	-	-	-	0.25	-
80	TDS SP-45	0.22	-	-	-	0.22	-
81	TDS SP-50	0.23	-	-	-	0.23	-
82	TDS SP-70	0.23	-	-	-	0.23	-
83	TDS SP-86	-	-	-	0.01	0.01	-
	Grand Total	290.44	14.84	78.98	350.14	554.17	7.40




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NITTTR, Chandigarh

SCHEDULE - 3 (b) SPONSORED FELLOWSHIP AND SCHOLARSHIPS

(Rs. In Lakhs)

Sr.No.	Name of Project	Opening Balance		Receipts/ Recoveries during the	Expenditure during the year	Closing Balance	
		Credit	Debit			Credit	Debit
1	University Grants Commission	-	-			-	-
2	Ministry	-	-			-	-
3	Others (Specify Individually)	-	-			-	-
		0.00	0.00			0.00	0.00



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NITTTR, Chandigarh



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
SCHEDULE 3C UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE
GOVERNMENT

(Rs. In Lakhs)

S.No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
A	Plan Grants Government of India Balance B/F GRANT OH 36 Add :- Grant Received During the Year Add :- Other Receipt during the year	561.03 2,921.00 -	708.58 2,660.00 -
	Total (a)	3,482.03	3,368.58
	Less :- Refunds Less :- Utilised for Revenue Expenditure Less:-Expenditure under OH 36 for March 2025 (March 2024) Paid in April 2025 (April 2024) Add:- Provision of 2023-24 (2022-23)adjusted in April 2024 (April 2023)	- 2,421.14 - -	- 2,751.80 254.67 310.41
	Total (b)	2,421.14	2,807.55
	Unutilised Carried Forwards (a-b)	1,060.89	561.03
B	Plan Grants Government of India Balance B/F GRANT OH 31 Add :-Grant Receipt During the Year Add:- Other Receipt During the year	157.71 933.00 -	1,150.81 350.00 -
	Total (c)	1,090.71	1,500.81
	Less :- Last Year wrong entry, now rectify Less :- Utilised for Revenue Expenditure (Total) Less:- Expenditure under OH 31 for March 2024 Paid in April 2024 Add:- Provision of 2022-23 adjusted in April 2023	- 1,686.82 - -	- 1,361.30 106.24 88.03
	Total (d)	1,686.82	1,343.09
	Met by NITTTR out of IRG	596.10	-
	Unutilised Carried Forwards (c-d)	-	157.71
C	GRANT FROM GOVT OF INDIA OH 35 Balance B/F* Add :- Interest on OH 35 advances received Add :- Unutilised amount of Advance CREST Add :- Receipt During the Year	888.63 15.42 38.90 1,200.00	1,552.60 - - -
	Total (e)	2,142.94	1,552.60
	Less :- Refund Less :- Utilised for Capital Expenditure	- 1,426.35	- 663.97
	Total (f)	1,426.35	663.97
	Unutilised Carried Forwards (e-f)	716.60	888.63
	UNUTILISED GRANT OF (OH 36+OH 31+OH 35)	1,777.49	1,607.37



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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
FIXED ASSETS AS AT 31.3.2025
FIXED ASSETS- NET BLOCK - SCHEDULE -4

S. N o	PARTICULARS	Rate %	GROSS BLOCK				DEPRECIATION				(Rs. In Lakhs)			
			As at the beginning of the year	Additions during the year	Deductions during the year	Adjustment	Total at the year end	As at the beginning of the year	On Additions of the year	On Deduction during the year	Adjustment	Total at the year end	As at the current year end	As at the previous year end
A Fixed Assets														
1	Institute Account													
i	Land - Free hold	0	15.68	-	-	-	15.68	-	-	-	-	-	15.68	15.68
ii	Land - Lease hold	0	18.90	-	-	5.90	24.80	4.62	0.25	-	4.76	9.63	15.17	14.28
iii	Buildings- Residential	2%	1,442.16	-	-	-	1,442.16	538.78	28.84	-	-	567.62	874.53	903.37
iv	Buildings- Office Block	2%	1,874.12	26.22	-	-	1,900.33	709.13	38.01	-	-	747.14	1,153.19	1,164.98
v	Buildings- Hostel	2%	1,440.16	-	-	-	1,440.16	636.17	28.80	-	-	664.97	775.19	803.99
vi	Equipments	7.50%	5,518.90	202.42	-	-	5,721.31	4,247.79	432.16	-	-	4,679.95	1,041.36	1,271.10
vii	Computer	20%	812.05	186.16	-	-	998.22	645.47	81.91	-	-	727.38	270.84	166.58
viii	Books	10%	129.30	1.57	-	-	130.87	126.38	0.54	-	-	126.92	3.95	2.92
ix	Technical Journals	100%	-	-	-	-	-	-	-	-	-	-	-	-
x	Furniture Fixture & Fittings	7.50%	416.16	35.13	-	-	451.29	312.81	33.85	-	-	346.66	104.63	103.35
xi	Electrical Installation	5%	1.80	0.85	-	-	2.65	0.18	0.13	-	-	0.31	2.34	1.62
xii	Vehicle	10%	31.96	-	-	-	31.96	31.96	-	-	-	31.96	-	-
xiii	Intangible Assets	40%	460.16	71.98	-	-	532.14	368.18	93.02	-	-	461.20	70.94	91.99
xiv	Library E Journal	40%	40.51	-	-	-	40.51	40.45	0.06	-	-	40.51	-	0.06
xv	Scientific & Laboratory Equipment	8%	-	121.37	-	-	121.37	-	9.71	-	-	9.71	111.66	-
xvi	Patent and Copyrights	11.11%	-	0.51	-	-	0.51	-	0.06	-	-	0.06	0.45	-
2 Continuation Education														
i	Equipments	7.50%	4.40	-	-	-	4.40	4.40	-	-	-	4.40	-	-
3 Sponsored Projects														
i	Equipments	7.50%	12.63	44.17	-	-	56.80	12.63	4.26	-	-	16.89	39.90	-
ii	Vehicle	10.00%	6.76	-	-	-	6.76	6.76	-	-	-	6.76	-	-
4 Assets under OBC-OSC														
i	Equipments	7.50%	3.96	-	-	-	3.96	3.96	-	-	-	3.96	-	-
ii	Furniture	7.50%	1.45	-	-	-	1.45	1.36	0.09	-	-	1.45	-	0.09
iii	Books	10.00%	1.27	-	-	-	1.27	1.27	-	-	-	1.27	-	-
5 RPS AICTE														
i	Equipments	7.50%	12.94	-	-	-	12.94	10.99	0.97	-	-	11.96	0.98	1.95
6 Assets under 5.16 Comp. Sc.														
i	Equipments	7.50%	17.64	-	-	-	17.64	14.98	1.32	-	-	16.30	1.34	2.66
ii	Furniture	7.50%	-	-	-	-	-	-	-	-	-	-	-	-
iii	Computer	20.00%	2.99	-	-	-	2.99	2.99	-	-	-	2.99	-	-
7 Customised AICTE														
i	Equipments	7.50%	1.86	-	-	-	1.86	0.56	0.14	-	-	0.70	1.16	1.30
8 Pt State Co-op bank-13 -Mech														
i	Equipments	7.50%	5.85	-	-	-	5.85	1.76	0.14	-	-	2.20	3.65	4.09
ii	Computer	20.00%	3.72	-	-	-	3.72	3.72	-	-	-	3.72	-	-



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
FIXED ASSETS AS AT 31.3.2025
FIXED ASSETS- NET BLOCK - SCHEDULE -4


S. No	PARTICULARS	Rate %	GROSS BLOCK				DEPRECIATION			NET BLOCK			
			As at the beginning of the year	Additions during the year	Deductions during the year	Adjustment	Total at the year end	As at the beginning of the year	On Additions of the year	On Deduction during the year	Adjustment	As at the current year end	As at the previous year end
9	IFD-14												
i	Equipments	7.50%	2.02	-	-	-	-	0.15	-	-	1.27	1.42	
ii	Computer	20.00%	2.99	-	-	-	2.99	0.29	-	-	-	0.29	
10	Capital Work in Progress	0.00%	-	739.25	-	-	739.25	-	-	-	739.25	-	
Total - A			12,282.33	1,429.61	-	5.90	13,717.83	755.00	-	4.76	8,490.36	5,227.47	4,551.73

Note:

1. Leasehold Land is amortized over its lease period of 99 years. The same is charged as depreciation in this schedule.


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NITTTR, Chandigarh


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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
FIXED ASSETS UNDER GOI PROJECTS AS AT 31.03.2025

FIXED ASSETS- NET BLOCK AS PER SCHEDULE -4-A

(Rs. IN LAKHS)									
PARTICULARS	Rate %	GROSS BLOCK			DEPRECIATION			NET BLOCK	
		As at the beginning of the year	Additions during the year	Deductions during the year	Total at the year end	As at the beginning of the year	On Additions of the year	Total at the year end	As at the current year end
Fixed Assets									
i Equipments	7.50%	164.49	-	-	164.49	164.49	-	164.49	-
ii Furniture	7.50%	0.99	-	-	0.99	0.99	-	0.99	-
iii Books	10%	0.21	-	-	0.21	0.21	-	0.21	-
iv Gifted equipment (E-journal)	7.50%	0.07	-	-	0.07	0.07	-	0.07	-
Grand Total		165.76	-	-		165.76	-	165.76	-



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[Signature]

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
FIXED ASSETS AS AT 31.3.2025

S.No.	PARTICULARS	Rate %	GROSS BLOCK				DEPRECIATION				(Rs. In Lakhs)			
			As at the beginning of the year	Additions during the year	Deductions during the year	Adjustment	Total at the year end	As at the beginning of the year	On Additions during the year	On Deduction during the year	Adjustment	Total at the year end	As at the current year end	As at the previous year end
A	Fixed Assets													
i	Land - Free hold	0%	15.68	-	-	-	15.68	-	-	-	-	15.68	15.68	
ii	Land - Lease hold	0%	18.90	-	-	5.90	24.80	4.62	0.25	-	9.63	15.17	14.28	
iii	Buildings- Residential	2%	1,442.16	-	-	-	1,442.16	538.78	28.84	-	567.62	874.53	903.37	
iv	Buildings- Office Block	2%	1,874.12	26.22	-	-	1,900.33	709.13	38.01	-	747.14	1,153.19	1,164.98	
v	Buildings- Hostel	2%	1,440.16	-	-	-	1,440.16	636.17	28.80	-	664.97	775.19	803.99	
vi	Equipments	7.50%	5,744.69	246.58	-	-	5,991.27	4,462.17	439.44	-	4,901.61	1,089.66	1,282.52	
vii	Computer	20%	821.75	186.16	-	-	1,007.92	654.88	82.20	-	737.08	270.84	166.87	
viii	Books	10%	130.78	1.57	-	-	132.35	127.86	0.54	-	128.40	3.95	2.92	
ix	Technical journal	7.50%	-	-	-	-	-	-	-	-	-	-	-	
x	Furniture Fixture & Fittings	7%	418.60	35.13	-	-	453.73	315.16	33.94	-	349.10	104.63	103.44	
xi	Electrical Installation	7.50%	1.80	0.85	-	-	2.65	0.18	0.13	-	0.31	2.34	1.62	
xii	Vehicle	10%	38.72	-	-	-	38.72	38.72	-	-	38.72	-	-	
xiii	Intangible Assets	40%	460.16	71.98	-	-	532.14	368.18	93.02	-	461.20	70.94	91.99	
xiv	Library E- Journal	40%	40.58	-	-	-	40.58	40.52	0.06	-	40.58	-	0.06	
xv	Scientific & Laboratory Equipment	8%	-	121.37	-	-	121.37	-	9.71	-	9.71	111.66	-	
xvi	Patent and Copyrights	11.11%	-	0.51	-	-	0.51	-	0.06	-	0.06	0.45	-	
xvii	Capital Work in Progress	0%	-	739.25	-	-	739.25	-	-	-	-	739.25	-	
Total - A			12,448.09	1,429.61	-	5.90	13,883.59	7,896.36	755.00	-	4.76	8,656.12	5,227.47	4,551.73

Note: Leasehold Land is amortized over its lease period of 99 years. The same is charged as depreciation in this schedule.



[Signature]
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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

SCHEDULE 5 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS

(Rs. In Lakhs)


S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
	<u>Long Term</u>		
1	Other approved Securities- GILT Fund	761.60	761.60
2	Shares	-	-
3	Debentures and Bonds	-	-
4	<u>Term Deposits with Banks</u>		
	-FDR's GPF/CPF- with Scheduled Bank - Restricted Fund	1,873.20	1,646.01
	<u>Short Term</u>		
	-GPF/CPF- with Scheduled Bank S/A - Earmarked fund	29.93	42.57
	Total	2,664.73	2,450.18

SCHEDULE 6 INVESTMENTS-OTHERS

(Rs. In Lakhs)

S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	In Central Government Securities	-	-
2	In state Government Securities	-	-
3	Other approved Securities	-	-
4	Shares	-	-
5	Debentures and Bonds	-	-
6	Others (to be specified)	-	-
	Total	-	-


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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

SCHEDULE 7 - CURRENT ASSETS

(Rs. In Lakhs)

S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	(a) Stores & Spares	9.13	11.68
	(c) Publications	5.16	5.16
2	Sundry debtors		
a	Debts o/s for a period exceeding six months	-	-
b	Others		
	-CPF/GPF - Earmarked Fund	-	-
3	Cash and Bank balances		
	Cash balances in hand (including cheques/ drafts and earmarked fund or otherwise)	1.26	2.39
	Bank Balance of Sponsored Project Annexure-14	93.48	59.37
a	With Scheduled Banks		
	* in current accounts	-	-
	* in term deposit accounts	5,426.49	6,369.79
	* in savings accounts	2,460.55	1,104.02
	Total	7,996.08	7,552.41

Note: Annexure 7A shows the details of Bank Accounts & Term Deposits

SCHEDULE 8 - LOANS ,ADVANCES & DEPOSITS

(Rs. In Lakhs)

S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	Advances to employees (non-interest bearing)		
a	Festival	0.01	0.01
2	Long term advances to employees (interest bearing)		
a	Vehicle loan	0.49	0.74
b	Others	0.04	0.09
3	Advances & other amounts recoverable in cash or in kind or for value to be received.	0.35	-
a	Others Annexure - 5	414.42	398.22
4	Deposits		
a	Telephone	0.15	0.15
b	Electricity	0.03	0.03
c	Others	0.53	0.53
5	Interest Accrued		
a	On investments from earmarked/endowment funds GPF/CPF	73.89	109.08
b	FDR's	273.46	306.29
6	Other - Current aasets receivable from UGC/sponsored Project		
a	Debit balances in Sponsered projects Schedule (3a)	7.40	14.84
	Total	770.78	829.99



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Annexure 7A (Schedule 7)

		Amount In Rs. Lacs
I.	Saving Bank Accounts	
1	Grants A/c	1,281.63
2	University Receipts A/c	-
3	Scholarship A/c	-
4	Academic Fee Receipt A/c	802.39
5	Development (Plan) A/c	-
6	Combined Entrance Exams (CBT) A/c	-
7	UGC Plan Fellowship A/c	-
8	Corpus Fund A/c (EMF)	-
9	Consultancy Project Fund A/c	376.54
10	Sponsored Fellowship A/c	-
11	Endowment & Chair A/c (EMF)	-
12	UGC JRF Fellowship A/c (EMF)	-
13	HBA Fund A/c (EMF)	-
14	Conveyance A/c (EMF)	-
15	UGC Rajiv Gandhi National Fellowship A/c (EMF)	-
16	Academic Development Fund A/c (EMF)	-
17	Deposit A/c	-
18	Student Fund A/c	-
19	Student Aid Fund A/c	-
20	Plan Grants for Specific Schemes	-
	Total	2,460.55
II.	Current Account	-
III.	Term Deposits with Schedule Banks	5,426.49
Total		7,887.05

DETAILS OF SAVINGS BANK ACCOUNT AS ON 31.03.2025

S.No.	BANK	ACCOUNT NO	Amount In Rs. Lacs
1	Axis Bank	913010043916496	401.51
2	Canara Bank	2452101001654	1,281.63
3	HDFC Bank	50100676037969	155.28
4	Indus bank	151811200301	286.24
5	Punjab National bank	06182191012841	221.26
6	State Bank of India	55105008209	114.64
	TOTAL		2,460.55

DETAILS OF TERM DEPOSITS WITH SCHEDULED BANK AS ON 31.03.2025

S.No.	BANK	Amount In Rs. Lacs
1	Axis Bank	1,713.57
2	Canara Bank	2,235.98
3	Indus bank	1,145.93
4	Punjab National bank	89.66
5	State Bank of India	241.36
	TOTAL	5,426.49



[Signature]
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[Signature]
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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

Schedule 9 - Academic Receipts

		(Rs. In Lakhs)	
S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
A	FEE FROM STUDENTS		
	Academic		
1	Tuition Fee		
2	Admission Fee - ME & Phd (C01 ME)	139.17	126.21
3	Enrolment Fee	-	-
4	Library Admission fee	-	-
5	Library Fee	-	-
6	Art & Craft fee	-	-
7	Registration fee - under various courses	-	-
8	Syllabus fee	-	-
9	STC Course Fee	-	-
	Total (A)	139.17	126.21
B	Examinations		
1	Admission test fee	-	-
2	Annual Examination fee	-	-
3	Mark sheet, certificate fees	-	-
4	Entrance examination fee	-	-
	Total (B)	-	-
C	Other fees		
1	Identity card fee	-	-
2	Fine/ Miscellaneous fee	-	-
3	Medical Fee	-	-
4	Transportation fee	-	-
5	Hostel fee	-	-
	Total (C)	-	-
D	Sale of publications		
1	Sale of Admission forms	-	-
2	Sale of syllabus and question paper, etc	-	-
3	Sale of prospectus including admission forms	-	-
	Total(D)	-	-
E	Other Academic Receipts		
1	Registration fee for workshops, programmes	-	-
2	Registration fees(Academic Staff College)	-	-
	Total(E)	-	-
	Grand Total	139.17	126.21



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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

SCHEDULE - 10 GRANTS & DONATIONS

(Rs. In Lakhs)


S.No.	Particulars		Current Year 2024-2025		Previous Year 2023-2024
1	Central Government				
a	Grant in Aid Capital (OH 35)				-
b	Grant in Aid General(OH31)		1,090.71		1,333.09
	Opening Balance	157.71		1,150.81	
	Add:-Grant During the Year	933.00		350.00	
	Add:-Receipt under OH 31	-			
	Less:-Last Year Adjustment	-		10.00	
	Less:-Unutilised Grant at the end of Year	-		157.71	
c	Grant Salary OH-36		2,421.14		2,807.55
	Opening Balance	561.03		708.58	
	Add:-Grant During the Year	2,921.00		2,660.00	
	Less:-Unutilised Grant at the end of Year	1,060.89		561.03	
2	State Government(s)	-		-	
3	Government Agencies	-		-	
4	Institutions/Welfare Bodies	-		-	
5	International Organisations	-		-	
6	Others (Specify)	-		-	
	Total		3,511.85		4,140.64

SCHEDULE 11- INCOME FROM INVESTMENTS

(Rs. In Lakhs)

S.No.			Current Year 2024-2025		Previous Year 2023-2024
1	Interest		-		-
a	On Government Securities	-		-	
b	Other Bonds/Debentures	-		-	
2	Interest on Term Deposits		228.73		44.28
	Income accrued but not due on Term Deposits /				
3	Interest bearing advances to employees		-		-
4	Interest on Savings Bank Accounts		-		-
5	Others (Specify)		-		-
	Total		228.73		44.28
	Transferred To Earmarked / Endowment Funds		228.73		44.28
	Balance				


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SCHEDULE 12: INTEREST EARNED

(Rs. In Lakhs)

S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
A	On Savings Accounts with scheduled banks		
	a) On Saving Account	29.96	43.71
B	On Loans		
	Employees/ Staff	1.26	2.09
C	On Fixed Deposits	383.95	296.08
D	On Income Tax Refund	1.15	-
	Total	416.33	341.88

SCHEDULE 13 - OTHER INCOME

(Rs. In Lakhs)

S.No.	Particulars	Current Year 2024-2025	Previous Year 2023-2024
A	Income from land & building		
1	Hostel room rent/Ground Rent/Dining Hall Rent/Guest House Rent/Canteen Rent	129.96	81.10
2	Hire Charges of Auditorium/ Board Room/Conference Hall/Examination Hall Sydicate Room/IT Hall	5.72	6.66
B	Sale of Institute`s publications	-	-
C	Income from holding events	-	-
D	Others		
1	Income from Consultancy (Receipt of Institute Share)	80.90	183.50
2	RTI fees	0.00	0.00
3	Misc. Receipts (Sale of tender form, waste paper etc.)		
	Annexure-6	86.51	291.66
5	Net Increase/Decrease In Store	(2.55)	4.24
	GRAND TOTAL (A+B+C+D)	300.55	567.16


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SCHEDULE 14 - PRIOR PERIOD INCOME

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	Academic Receipts	-	-
2	Income from Investments	-	-
3	Interest Earned	-	-
4	Other Income	64.58	-
Total		64.58	-

SCHEDULE 15 - STAFF PAYMENTS AND BENEFITS (ESTABLISHMENT EXPENSES)

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
a	Salaries & wages Annexure-7	3,561.00	3,414.07
b	Contribution to Other fund Annexure-8	215.87	451.77
c	Contribution to CPF	-	2.54
d	Retirement and Terminal Benefits to Retirees	2.12	3.22
e	LTC facility	19.57	12.91
f	Medical facility	44.32	29.19
g	Children Education Allowance	13.79	10.50
h	Leave Salary Contribution	-	0.25
i	Honorarium	3.33	1.45
j	Training Non Faculty	3.24	1.49
k	Others (Cont. to Reserve Fund Out of IRG)	-	83.00
l	TA/DA expenses Annexure-9	9.67	35.06
Total		3,872.89	4,045.44

SCHEDULE 16 - ACADEMIC EXPENSES

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
a	Expenses on Seminar/Workshop Annexure-10	4.13	20.46
b	Expenditure on STC Annexure-11	198.64	147.64
Total		202.77	168.10


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SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
	A. Infrastructure		
a	Electricity and power	54.22	53.30
b	Property Taxes	19.85	1.60
	B. Communication		
a	Postage & stationary	0.75	0.76
b	Telephone, Fax and internet charges	2.39	2.48
	C. Others		
a	Printing & stationary (consumption)	9.23	8.54
b	Hospitality (Medicine)	0.15	0.24
c	Audit & Legal Fees	1.83	2.28
d	Professional charges	3.34	4.75
e	Advertisement and publicity	2.02	-
f	Newspaper and Periodicals	1.05	0.39
g	Others (specify) Annexure-12	69.25	63.76
	Total	164.08	138.11

SCHEDULE 18 - TRANSPORTATION EXPENSES

(Rs. In Lakhs)


S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	Vehicles (owned by educational institution)		
a)	Repairs & maintenance	6.62	5.95
	Total	6.62	5.95

SCHEDULE 19 - REPAIRS & MAINTENANCE

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
a	Building	71.63	46.02
b	Furniture & fixture	0.34	0.89
c	Plant & Machinery	1.58	10.32
d	Office Equipments	11.30	11.05
e	Others (specify) Annexure-13	42.30	19.93
	Total	127.16	88.21


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SCHEDULE 20 - FINANCE COSTS

(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
a	Bank charges	-	-
b	Others (specify) Income tax penalty, Late payment TDS etc.	-	-
	Total	-	-

SCHEDULE 21 - OTHER EXPENSES


(Rs. In Lakhs)


S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
a	Provision for Bad & doubtful debts/ advances	-	-
b	Irrecoverable balances written- off	-	-
c	Grants/ subsidies to other institutions/ organizations	-	-
d	Others (consumption of stores and spares)	-	-
	Total	-	-


SCHEDULE 22 - PRIOR PERIOD EXPENSES

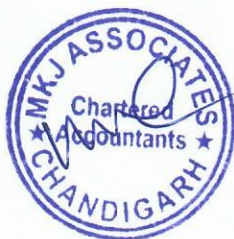
(Rs. In Lakhs)

S No	Particulars	Current Year 2024-2025	Previous Year 2023-2024
1	Establishment expenses	-	-
2	Academic expenses	-	-
3	Administrative expenses	-	-
4	Fixed Assets W/off & Obsolete	-	-
5	Transportation expenses	-	-
6	Repairs & Maintenance	-	-
7	Other expenses	-	-
	Total	-	-


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Annexure 1 (Schedule 3)
Sundry Creditors-Others

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
SUNDRY CREDITORS - OTHERS		
DEPOSIT OF QIP POLY	2.11	2.11
SEC-Advance Tech	0.02	0.02
Sec-Alleron	0.17	0.17
Sec-Aimco Solutions	0.07	0.07
Sec-Aimil	0.06	0.06
Sec-Akadmika Lab Solutions	0.10	0.10
Sec- Amigo Optima	0.31	0.31
Sec- ARK	0.42	0.42
Sec- Arup India	0.25	0.25
Sec-Benchmark Electronic	0.02	0.02
Sec-Bharat Electronics	1.46	1.57
Sec- Binder	0.06	0.06
Sec- Blue Star	0.20	0.20
Sec- Broadways Mkt	0.15	0.15
Sec- BSNL	0.03	0.03
Sec- Cadre Design System	0.57	0.57
Sec- Daksh & Detective	2.83	2.83
Sec- Engineer Group	0.12	0.12
Sec- Ensonic Computech	0.05	0.05
Sec-Fore Solutions	-	0.43
Sec- Golden Eagle	0.41	0.41
Sec- Innovative Systel	0.31	0.31
Sec-Invas Tech	0.09	0.09
Sec- Kalra Enterprises	1.17	1.17
Sec- Kamal Kumar Builders	0.42	0.42
Sec- Krishna Stationer	0.05	0.05
Sec- Krishna Washerman	0.04	0.04
Sec- Lakshya Enterprises	0.09	0.09
Sec- Mann Elect	0.10	0.10
Sec-Mapple Outright	0.07	0.07
Sec- ME Students	71.36	69.88
Sec- Metagear Infra	0.03	0.03
Sec- MI Interiors	0.04	0.04
Sec- Mohindra Documentation Centre (Lib)	0.01	0.01
Sec- M.O India Ltd	0.02	0.02
Sec- Nand Kishore	0.07	0.07
Sec- National Small Industries	0.15	0.15
Sec- New Generation Technology	0.06	0.06
Sec-Phadke Instruments	0.06	0.06
Sec-PINNACLE ENTERPRISES 2024-25	28.07	-
Sec-Pixaarnext	0.04	0.04
Sec- Project Associates	0.15	0.15
Sec- Punj	0.25	0.25
Sec- Retention of Vijay Garg	0.96	0.96
Sec- Rohan Educational Solutions	0.47	0.47
Sec- Saini Enterprises	0.21	0.21
Sec- Sanchi	0.03	0.03
Sec- Sanjay Goyal	0.54	0.54
Sec- Satish Aggarwal	0.14	0.14
Sec-Secure Guard	-	10.00
Sec- Sehajta A.C & Elect Engg	0.23	0.23
Sec-Sharda Info Solutions	0.12	0.12
Sec-Shivalik Gas Agency	0.38	0.38
Sec- SISL Infotech Pvt Ltd	-	(0.00)
SEC- SPL INFO PATHWAY	-	0.47
Sec-Sponsored Project	0.03	0.03
Sec- Tech Info Ltd	0.16	0.16
Sec-Techser Power	0.08	0.08
Sec- Vijay Garg	36.36	36.36
Sec-V Instruments	4.19	4.19
Sec- V.R Suppliers & Exporters	0.13	0.13
Sec-VVDN Tech	0.29	0.29
Sec-Zen Exim	-	(0.00)
SERVICE TAX EXAMINATION FEES	0.04	0.04
Sundry Creditors Other -BS	2.25	2.25
END-Design Tech System	-	(0.00)
Amount withheld DAV Associates	0.10	-
Security Refundable	0.68	-
Sundry Creditors	-	3.92
Total	159.46	143.16



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Annexure 2 (Schedule 3)**Current Liabilities - Statutory Liabilities- others****(Rs. In Lakhs)**

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Income tax firms (tds)	0.92	2.63
Income tax firms (tds) from experts	0.86	1.21
Income tax Staff	8.33	-
CGST	1.08	0.96
IGST	5.74	2.94
UTGST	1.08	0.96
Interest IGST	-	0.00
TDS -CGST	1.90	0.36
TDS-IGST	3.93	-
TDS-UTGST	1.90	0.36
Total	25.75	9.44

Annexure 3 (Schedule 3)**Current liabilities - Other current liabilities****- Other funds****(Rs. In Lakhs)**

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Distribution fund	21.29	23.83
CREST Chd- Solar Plant	-	47.16
Earnest Money	39.47	34.00
Royalty to Authors	0.61	0.57
Consultancy Projects	906.59	896.22
Welfare fund ME students	3.18	6.20
Tequip Grant	-	0.10
Interest on Grant 31 Payable	66.21	132.71
Advances & other amounts recoverable in cash or in kind or for value to be received.	-	0.53
O&M CHARGES Payable (35KWp Solar plant)	2.11	-
Total	1,039.45	1,141.33

Annexure 4 (Schedule 3)**Provisions :-****(Rs. In Lakhs)**

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Maintenance Student Centre/ Electrical/Building/ Elect & Water Charges	2.01	2.12
Salaries	205.88	200.99
CPF- Employer Share	2.27	2.27
Children Education Allowance	13.79	10.50
Audit Fee & Legal & Professional Charges	-	2.26
Total	223.95	218.16

Annexure 5 (Schedule 8)**Loans, Advances & Deposits****(Rs. In Lakhs)**

Particulars	Current Year 2024-2025	Previous Year 2023-2024
A. On Capital Account		
Adv ETV Media Building	0.39	0.39
Staff Qtrs 1995-96	-	2.23
Staff Qtrs 1996-97	-	7.78
Advance to BSNL	-	1.01
Advance to CPWD	135.18	85.18
Advance OH-35 Capital	-	5.91
Sub Total (A)	135.57	102.50
B. Others		
TDS	266.59	279.25
Income tax Staff	-	-
TDS -CGST	0.08	-
TDS-IGST	4.91	5.01
TDS-UTGST	0.08	-
Recoverable from Bank - Earmarked fund NPS	3.39	3.39
Debit Balance of Consultancy Projects	3.80	10.07
Sub Total (B)	278.85	295.72
Total	414.42	398.22



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Annexure 6 (Schedule 13)
Other income - Misc. Receipts

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Misc. Receipt	5.59	34.61
Overhead Charges	39.38	222.59
Recruitment Fee	-	-
Sale of Old Material	0.92	0.15
STC Regd Fee	39.60	33.47
IFD 1 / PDA-1	-	0.02
Misc Deduction From Salary	1.02	0.82
Total	86.51	291.66

Annexure 7 (Schedule 15)
Staff Payments & benefits - Salaries & Wages

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Commutations	23.07	167.40
Pension	980.21	904.70
PDA	55.57	12.22
Faculty	635.00	657.06
Faculty (NPS)	812.68	749.49
Non Faculty	449.18	438.92
Non Faculty (NPS)	296.10	185.70
Uniform Allowance	1.16	-
Tuition Fees	0.29	-
Outsource Salary	307.75	298.59
Total	3,561.00	3,414.07

Annexure 8 (Schedule 15)
Contribution to Other fund - NPS, Gratuity, Leave Enc.

(Rs. In Lakhs)


Particulars	Current Year 2024-2025	Previous Year 2023-2024
GRATUITY	52.40	111.19
LEAVE ENCASHMENT	14.23	11.32
LEAVE ENCASHMENT TO RETIREES	-	205.01
NPS INSTITUTE SHARE	149.24	124.25
Total	215.87	451.77

Annexure 9 (Schedule 15)
Staff Payments & benefits - TA/DA

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
DA	8.50	31.39
TA	1.17	3.67
Total	9.67	35.06


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Annexure 10 (Schedule 16)
Academic Expenses - Seminar/Workshop

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Annual day/ cultural prog.	3.22	3.40
Annual sports	0.73	15.04
PDA	-	1.05
Republic Day	-	0.08
Hindi day	0.18	0.90
Total	4.13	20.46

Annexure- 11 (Schedule 16)
Expenditure on STC/ICT

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
CO1 ME FEES	48.06	-
TA- Training	43.43	73.58
Honourium -Academic	34.27	63.04
Academic Contengencies	19.64	6.52
Fellowship and Scholarship	3.76	2.97
IC-1 (International Confr. (EDIC))	49.48	0.30
SP-79	-	1.23
Total	198.64	147.64

Annexure 12 (Schedule 17)
ADMINISTRATIVE & GENERAL EXPENSES
OTHERS (SPECIFY)

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
BOG MEETING	4.41	4.54
Office Contg.	17.97	17.31
Ground Rent	1.06	-
Service Charges NPS	0.05	0.08
Working expense	2.07	-
Consumable Material	10.52	-
Disposal charges	5.90	-
Recruitment Fee	27.26	41.83
Total	69.25	63.76


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Annexure 13 (Schedule 19)

REPAIRS & MAINTENANCE - OTHERS (SPECIFY)

(Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Mtc Academic Cell	-	0.02
Mtc. Applied Science	0.72	0.48
Mtc. CDC	0.13	0.16
Mtc. Civil	3.97	2.16
Mtc. Computer	5.85	1.36
Mtc ECE	4.51	1.59
Mtc. EDIC	0.02	0.54
Mtc. Electrical	23.30	7.08
Mtc Electrical Lab	0.30	0.55
Mtc EMGT	0.14	0.09
Mtc. IMCO	-	0.75
Mtc. IMEE	0.21	-
Mtc ISO	-	0.25
Mtc Library	0.03	0.86
Mtc. Media	2.65	3.88
Mtc. R/D	0.49	0.14
Total	42.30	19.93



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Annexure 14
Sponsored Project Balance Details as on 31.03.2025

S.No	Plan No.	Bank Name	Accounts No.	Opening Balance 01.04.2024	Receipt. Amount 2024-25		Total Amount	Expenditure for the year 2024-25	Balance as on 31.03.25	Name of Coordinator and Remarks
					During the Year	Interest				
1	(SP-71)	PNB-26	3249000103070130	1,69,498.00	8,08,833.00	2,863.00	9,81,194.00	8,42,586.00	1,38,608.00	Dr. Ashok Kumar
2	(SP-65)	PNB-26	3249000103071330	1,66,633.00	1,35,000.00	5,469.00	3,07,102.00	1,58,720.00	1,48,382.00	Dr. Rupinder Singh
3	(SP-66)	PNB-26	3249000103071300	1,78,445.00	-	4,470.00	1,82,915.00	29,135.00	1,53,780.00	Dr. Rupinder Singh
4	(SP-73)	PNB-26	3249000103072450	1,33,093.00	2,85,000.00	6,017.00	4,24,110.00	60,000.00	3,64,110.00	Dr. SS Dhani
5	(SP-72)	PNB-26	3249000103071340	1,61,578.00	-	4,407.00	1,65,985.00	-	1,65,985.00	Dr. Balwinder Raj
6	(SP-44)	Axis Bank-26	916010009475431	47,13,003.00	-	1,28,331.00	48,41,334.00	-	48,41,334.00	Dr. B S Pabla
7	(IC-02)	Axis Bank-26	921010019909870	3,99,905.00	29,97,860.00	36,295.00	34,34,060.00	-	34,34,060.00	Dr. Sanjay Sharma
8	(SP-87)	PNB	3249000103076210	-	1,25,000.00	811.00	1,25,811.00	24,227.00	1,01,584.00	Dr. Rupinder Singh
TOTAL				59,22,155.00	43,51,693.00	1,88,663.00	1,04,62,511.00	11,14,668.00	93,47,843.00	
				BANK BALANCE (in Lakhs)					93.48	

* Note (Sr. No. 7) : Amount of Rs. 29,97,860/- included in the receipts is on account of Income tax refund and does not pertain to this sponsored project and is to be transferred to Main account of the institute.



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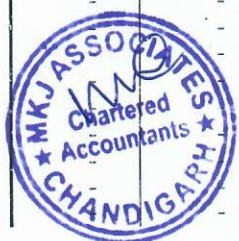


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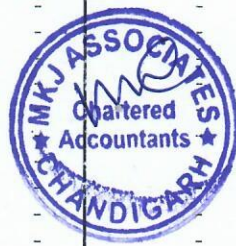


**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
CONSULTANCY PROJECTS 2024-25**

Particulars	Opening		Expenditure during the year	Receipts / Recoveries during the	Closing Balance	
	Credit	Debit			Credit	Debit
Consultancy TDS	120.01	-	-	1.19	121.20	-
CP-1	1.49	-	-	-	1.49	-
CP-104(Elect)	0.65	-	-	-	0.65	-
CP-108(ETV)	0.18	-	0.18	-	-	-
CP-10 CP-5 (E)	0.20	-	-	-	0.20	-
CP-11	-	0.00	-	-	-	0.00
CP-110	0.39	-	-	-	0.39	-
CP-112	-	0.07	-	-	-	0.07
CP-124	4.20	-	-	-	4.20	-
CP-128	0.74	-	-	-	0.74	-
CP-12(ETV)	-	0.01	-	-	-	0.01
CP-133	-	-	-	1.69	1.69	-
CP-136	122.62	-	0.02	15.28	137.88	-
CP-136(B) TDS	0.15	-	-	-	0.15	-
CP-13 Mech	0.12	-	-	-	0.12	-
CP-14 (5.16 Cyber Computer)	0.01	-	-	-	0.01	-
CP-15 Civil	1.30	-	-	-	1.30	-
CP-17	1.27	-	1.27	-	-	-
CP-177-22	2.56	-	2.56	-	-	-
CP-18	0.12	-	-	-	0.12	-
CP-19(Computer)	0.23	-	-	-	0.23	-
CP-2	0.95	-	-	-	0.95	-
CP-201/23	1.30	-	1.30	-	-	-
CP-202/23(PMKY ECS)	-	-	0.61	2.40	1.78	-
CP-203/23	6.00	-	-	-	6.00	-
CP-204/23	1.45	-	-	1.93	3.38	-
CP-205/23	0.03	-	-	-	0.03	-
CP-206/23	-	0.03	-	-	-	0.03
CP-207/23	4.77	-	4.77	-	-	-
CP-209/23	2.22	-	2.19	-	0.03	-
CP-210/23	0.56	-	-	-	0.56	-
CP-211/23	1.85	-	0.24	-	1.61	-
CP-21-143	45.87	-	59.31	14.00	0.56	-
CP-21/147	0.24	-	-	-	0.24	-
CP-21-154	28.41	-	28.41	-	-	-
CP-21/155	4.38	-	-	-	4.38	-
CP-21/161	1.97	-	1.97	-	-	-
CP-21/162	2.22	-	2.22	-	-	-
CP-21/166	-	0.44	-	-	-	0.44
CP-212/23	3.09	-	3.09	-	-	-
CP-215/23	0.80	-	0.80	-	-	-
CP-217/23	0.67	-	0.51	-	0.16	-
CP-22/166	2.34	-	1.45	1.45	2.34	-
CP-22/168	2.00	-	-	-	2.00	-
CP-22/170	0.00	-	-	-	0.00	-
CP-22/176	0.92	-	-	-	0.92	-
CP-22/180	3.17	-	1.78	-	1.39	-
CP-22/181	1.36	-	0.85	-	0.51	-
CP-22/182	0.63	-	2.07	1.50	0.06	-
CP-22/187	0.78	-	2.22	1.50	0.06	-
CP-22/189	0.50	-	-	-	0.50	-
CP22/190	-	6.49	-	6.49	-	-
CP-22-192	1.35	-	1.35	-	-	-
CP22-193	6.49	-	6.49	-	-	-
CP 22-194	0.24	-	-	-	0.24	-
CP22/195	-	1.45	-	1.45	-	-
CP22/196	1.45	-	1.45	-	-	-
CP22/198	0.87	-	0.78	-	0.09	-
CP-23	0.64	-	0.98	1.20	0.86	-
CP-23/208	9.25	-	4.38	0.85	5.72	-
CP-23/213-214	5.38	-	3.37	-	2.00	-
CP-23/219	-	-	0.23	0.48	0.25	-
CP-23/220	-	-	1.62	3.07	1.45	-
CP-24/225	-	-	0.88	0.88	-	-
CP-24/226	-	-	3.18	3.18	-	-
CP-24/227	-	-	0.09	0.07	-	0.02
CP-24/228	-	-	0.03	0.03	-	-
CP-24/230	-	-	1.61	3.17	1.56	-
CP-24/231	-	-	1.28	1.28	-	-
CP-24/232	-	-	0.30	0.60	0.30	-
CP-24/234	-	-	1.08	10.50	9.42	-



CP 24/236	-	-	0.13	1.19	1.07	-
CP-24/238	-	-	-	2.80	2.80	-
CP-24/241	-	-	0.21	1.06	0.85	-
CP-24-243	-	-	-	1.08	1.08	-
CP - 24/245	-	-	1.13	5.25	4.12	-
CP-3	0.09	-	-	-	0.09	-
CP-33, 34	0.57	-	-	-	0.57	-
CP-35	0.81	-	-	-	0.81	-
CP-4	0.61	-	0.50	0.74	0.85	-
CP-47	-	0.00	-	-	-	0.00
CP-49	-	1.28	-	-	-	1.28
CP-5	0.72	-	-	-	0.72	-
CP-50	0.91	-	-	-	0.91	-
CP-51	-	0.03	-	-	-	0.03
CP-58	0.22	-	-	-	0.22	-
CP-6	0.13	-	-	-	0.13	-
CP-64	4.16	-	-	-	4.16	-
CP-69	0.02	-	-	-	0.02	-
CP-74	0.10	-	-	-	0.10	-
CP-78	0.76	-	-	-	0.76	-
CP-8	1.86	-	0.97	5.92	6.81	-
CP-81	-	0.12	-	0.12	-	-
CP-83(ETV)	1.15	-	1.15	-	-	-
CP-84	4.00	-	-	-	4.00	-
CP-87((Civil)	132.98	-	14.92	98.06	216.12	-
CP-8 A COMP	1.76	-	1.77	0.14	0.12	-
CP-8 B COMP	1.54	-	0.80	-	0.74	-
CP-8 C COMP	2.58	-	2.86	0.76	0.48	-
CP-8 COMP CP 5(C)	1.01	-	-	-	1.01	-
CP-8 D COMP	0.72	-	0.72	-	-	-
CP-9	1.34	-	0.09	1.55	2.81	-
CP-90(ETV)	0.20	-	0.20	-	-	-
CP-94 TDS	0.10	-	-	-	0.10	-
CP-98 (ECE Depott)	0.78	-	-	-	0.78	-
CP-9 ECE CP 5(D)	0.47	-	-	-	0.47	-
CP-LC-4 (B)	1.77	-	1.77	-	-	-
CP TDS 142	17.91	-	-	-	17.91	-
CP Tds-87	3.36	-	-	3.12	6.47	-
GDST TDS-163	0.04	-	-	-	0.04	-
GST CP-136	23.86	-	-	0.35	24.21	-
GST CP-14	0.05	-	-	-	0.05	-
GST CP-154	0.91	-	-	-	0.91	-
GST CP-164	0.13	-	-	-	0.13	-
GST CP-165	0.19	-	-	-	0.19	-
Gst Cp-167	0.08	-	-	-	0.08	-
GST CP-170	0.09	-	-	-	0.09	-
GST CP-23/220	-	-	-	0.06	0.06	-
GST CP-24/230	-	-	-	0.07	0.07	-
GST ICTO CP13	0.04	-	-	-	0.04	-
GST KC-3(A)	0.20	-	-	-	0.20	-
GST LC-4	0.00	-	-	-	0.00	-
GST TDS 142	3.58	-	-	-	3.58	-
GST TDS 150	0.03	-	-	-	0.03	-
GST TDS-151	0.05	-	-	-	0.05	-
GST TDS 152	0.06	-	-	-	0.06	-
GST TDS 23/204	-	-	-	0.01	0.01	-
GST TDS CP-130	0.91	-	-	-	0.91	-
GST TDS CP-135	0.33	-	-	-	0.33	-
GST TDS CP-140	2.39	-	-	-	2.39	-
GST TDS CP-141	5.95	-	-	-	5.95	-
GST TDS CP-16	0.06	-	-	-	0.06	-
GST TDS CP-21-144	0.08	-	-	-	0.08	-
GST TDS CP-8	-	-	-	0.01	0.01	-
GST TDS ICTO 9	0.04	-	-	-	0.04	-
GST TDS LC-1	-	-	-	0.02	0.02	-
IC-01 COMP SC.	0.52	-	-	-	0.52	-
IC-1	22.12	-	32.46	17.17	6.82	-
IC-1 (IMEF)	-	-	0.84	-	-	0.84
IC-2(A)	1.05	-	-	-	1.05	-
IC-2(B)	0.20	-	-	-	0.20	-
IC-2(C)	0.45	-	-	-	0.45	-
IC-2(D)	0.20	-	-	-	0.20	-
IC-3	24.86	-	24.69	37.93	38.10	-
IC TDS-3	0.09	-	-	-	0.09	-
ICTO CP-11	0.11	-	-	-	0.11	-
ICTO CP-12	0.52	-	-	-	0.52	-
ICTO CP-14	-	0.00	-	0.00	-	-
ICTO CP-3	0.19	-	-	-	0.19	-



LC-1	14.97	-	26.91	17.57	5.63	-
LC-1(V)	-	0.09	-	-	-	0.09
LC-2-21	2.71	-	2.85	2.31	2.17	-
LC-3	6.49	-	6.39	9.03	9.14	-
LC-4	-	-	2.37	3.73	1.36	-
LC-4/21-22/10	-	0.01	-	-	-	0.01
P-122	-	0.04	-	-	-	0.04
SERVICE CHARGES OF DINNING HA	0.19	-	-	-	0.19	-
ST 1	-	-	-	0.04	0.04	-
TDS-101	0.10	-	-	-	0.10	-
TDS 85	0.25	-	-	-	0.25	-
TDS-87(Civil)	1.21	-	-	0.48	1.69	-
TDS CP-103	6.58	-	-	-	6.58	-
TDS Cp-106	0.18	-	-	-	0.18	-
TDS Cp-107	0.18	-	-	-	0.18	-
TDS-CP-130	4.55	-	-	-	4.55	-
TDS CP-135	1.65	-	-	-	1.65	-
TDS CP-136	119.30	-	-	1.74	121.04	-
TDS CP-140	11.93	-	-	-	11.93	-
TDS CP-141	29.74	-	-	-	29.74	-
TDS CP-148	0.17	-	-	-	0.17	-
TDS CP-149	1.75	-	-	-	1.75	-
TDS CP-151	0.23	-	-	-	0.23	-
TDS CP-152	0.32	-	-	-	0.32	-
TDS CP-154	4.55	-	-	-	4.55	-
TDS Cp-160	0.20	-	-	-	0.20	-
TDS CP-161	1.28	-	-	-	1.28	-
TDS CP-163	0.18	-	-	-	0.18	-
TDS CP-164	0.66	-	-	-	0.66	-
TDS CP-165	0.95	-	-	-	0.95	-
TDS Cp-167	0.38	-	-	-	0.38	-
TDS-CP 170	0.97	-	-	-	0.97	-
TDS CP-172	0.04	-	-	-	0.04	-
TDS CP-21-144	0.18	-	-	-	0.18	-
TDS-CP 21/150	0.13	-	-	-	0.13	-
TDS CP-21/156	0.12	-	-	-	0.12	-
TDS CP-23/220	-	-	-	0.06	0.06	-
TDS CP-24/230	-	-	-	0.07	0.07	-
TDS CP-24-243	-	-	-	0.12	0.12	-
TDS CP 8	-	-	-	0.04	0.04	-
TDS CP-IC-3	3.11	-	-	0.76	3.88	-
TDS CP Icto 17	0.28	-	-	-	0.28	-
TDSqstCP-102	0.49	-	-	-	0.49	-
Tds Gst CP-103	0.69	-	-	-	0.69	-
TDS GST CP-23/202	-	-	-	0.02	0.02	-
Tds Gst Cp-97	1.64	-	-	-	1.64	-
TDS GST Icto Cp-17	0.06	-	-	-	0.06	-
TDS GST ICTO CP-19	0.06	-	-	-	0.06	-
TDS IC-1	-	-	-	0.21	0.21	-
TDS ICTO CP-13	0.19	-	-	-	0.19	-
TDS ICTO CP-14	0.26	-	-	-	0.26	-
TDS ICTO CP-16	0.28	-	-	-	0.28	-
TDS ICTO CP-19	0.29	-	-	-	0.29	-
TDS ICTO CP-9	0.20	-	-	-	0.20	-
TDS LC-1	-	-	-	0.30	0.30	-
TDS LC-3	0.99	-	-	0.10	1.09	-
TDS LC-3-22/23	0.01	-	-	-	0.01	-
TDS LC-4	-	-	-	0.07	0.07	-
TEQIP-II 1.3.7	-	0.00	-	0.00	-	-
W-11	-	-	0.22	-	-	0.22
W-12	-	-	0.07	-	-	0.07
W-26 NBA	1.56	-	-	-	1.56	-
W-41 (SLBSNS UNI.)	-	-	0.80	0.80	-	-
W-5	-	-	0.27	-	-	0.27
W-6	-	-	0.19	-	-	0.19
W-7	-	-	0.08	-	-	0.08
W-I	-	-	0.11	-	-	0.11
XYZ	1.62	-	-	-	1.62	-
	896.22	10.07	272.39	289.04	906.59	3.80



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NITTTR, Chandigarh

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Dean (A&F)
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[Signature]
Director
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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
Receipt and Payment Account for the Period Ended 31.03.2025

A. RECEIPTS

S.No.	Particulars	Annexure	Current Year 2024-2025	Previous Year 2023-2024
I	Opening Balance			
	A) Cash Balance		2.39	2.48
	B) Bank Balance			
	In Current Account			
	In Deposit Account		6,369.79	7,102.48
	In Savings Account		1,104.02	1,833.25
	In Sponsorship Account		59.22	-
II	Grant Received			
	A) From Government of India	1	5,054.00	3,010.00
	B) From State Government			
	C) Other Sources			
III	Academic Receipts	2	137.12	159.27
IV	Receipts against Earmarked/ Endowment Funds	3	-	83.00
V	Receipts against Sponsored Fellowships & Scholarships		45.40	-
VI	Receipts against Sponsored Projects/Schemes	4	342.44	66.02
VII	Income from Investment from			
	A) Earmarked/Endowment Funds		-	-
	B) Other Investments		-	-
VIII	Interest Received from			
	A) Bank Deposits	5	448.00	257.05
	B) Loan & Advances			
	C) Savings bank Accountants			
IX	Investment Encashed		-	-
X	Term Deposit with Scheduled Bank Encashed		-	-
XI	Other Income	6	298.24	562.00
XII	Deposits & Advances	7	304.38	544.40
XIII	Miscellaneous Receipts	8	806.15	913.39
XIV	Any other Receipts	9	125.77	230.65
	TOTAL		15,096.93	14,763.98




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Dated:
Place: Chandigarh


NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH
Receipt and Payment Account for the Period Ended 31.03.2025


B. PAYMENTS

S.No.	Particulars	Annexure	Current Year 2024-2025	Previous Year 2023-2024
I	Expenses			
	Establishment expenses	10	3,988.53	4,150.64
	Academic Expenses	11	48.06	33.06
	Administrative Expense	12	96.87	152.88
	Transport Expenses			
	Repair & Maintenance	13	183.72	149.49
	Prior Period Expenses			
II	Payment against Earmarked/ Endowment Funds	14	-	0.30
III	Payment against Sponsored Projects/ Scheme	15	74.15	132.68
IV	Payment against Sponsored Fellowship /Scholarship		11.15	-
V	Investments and deposits made			
	a) Out of Earmarked/Endowment Funds		-	-
	b) Out of Own Funds		-	-
	(Investments-Others)			
VI	Term Deposits with Scheduled Bank		-	-
VII	<u>Expenditure on Fixed Assets &</u> Capital work in Progress			
	A) Fixed Assets	16	1,417.44	663.97
	B) Capital Work In Progress			
VIII	Other Payments Including Statutory Payments	17	807.24	1,018.89
IX	Refund of Grants			
X	Deposits and Advances	18	291.22	847.04
XI	Other Payments	19	196.76	138.84
XII	Closing Balances			
	a) Cash in Hand		1.26	2.39
	b) Bank Balance:			
	In Current Account			
	In Deposit Account		5,426.49	6,369.79
	In Savings Account		2,460.55	1,104.02
	In Sponsorship Account		93.48	-
	TOTAL		15,096.93	14,763.98




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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

1. Grant Received (Rs. In Lakhs)

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Grant in Aid Capital OH-35	1,200.00	-
Grant in Aid General OH-31	933.00	350.00
Grant Salary OH-36	2,921.00	2,660.00
	5,054.00	3,010.00

2. Academic Receipts

Particulars	Current Year 2024-2025	Previous Year 2023-2024
CO1 ME	137.12	159.27
	137.12	159.27

3. Receipts against earmarked Endowment Funds


Particulars	Current Year 2024-2025	Previous Year 2023-2024
Corpus Fund	-	20.75
Equipment Replacement Fund	-	20.75
Faculty Development Fund	-	20.75
Maintenance Fund	-	20.75
	-	83.00


4. Receipts against Sponsored Projects/Schemes

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Sponsored Projects	342.44	66.02
	342.44	66.02




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5. Interest Received

Particulars	Current Year 2024-2025	Previous Year 2023-2024
A. Bank Deposit		
Interest from banks	446.74	254.96
B. Loan & Advances		
Interest on Advances	1.26	2.09
C. Loan & Advances- Others		
Grant Interest PFMS	-	-
Interest on Refunds	-	-
	448.00	257.05

6. Other Income

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Booking of Auditorium	3.34	3.62
Booking of Committee Room	0.36	0.04
Booking of Conference Hall	1.28	0.42
Rent from Dinning Hall	0.71	2.58
Booking of Syndicate Hall	0.04	-
Booking of Examination Hall	-	0.04
HRR	13.65	23.24
Receipt of Institute Share	80.02	183.50
Misc. Receipt	16.36	34.61
Overhead Charges	39.38	222.59
Rent from Guest House	59.82	22.37
Rent from Hostel Room	38.79	32.95
Rent from Mess/Canteen	-	0.16
RTI	0.00	-
Sale of Old Material	0.92	0.15
STC Regd Fee	39.60	33.47
PNB Rent	3.96	2.25
	298.24	562.00

7. Deposits & Advances

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Consultancy project	276.49	526.03
Temporary Advance	18.38	15.43
Loan for Car	0.26	0.84
Loan for Computer	0.05	0.05
Loan for HBA	-	-
Income Tax Receivable	-	-
TDS GST Credit Utilised	3.76	-
Cash and Bank GOI Restricted Funds	-	-
Advance CO1 (ME FEES)	5.45	2.05
	304.38	544.40



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8. Miscellaneous Receipts including Statutory Receipts

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Duties and Taxes		
CGST	7.86	13.11
IGST	48.13	78.74
UTGST	7.86	13.11
Income Tax experts	10.42	9.61
Income Tax Firms	9.94	10.86
Income Tax Retirees	25.21	25.13
Income Tax Staff	400.26	401.65
TDS-CGST	5.72	6.28
TDS-UTGST	6.57	6.28
TDS-IGST	4.09	28.59
GIS	13.74	22.38
GPF	251.63	273.72
LIC	3.79	3.90
R&FW	0.05	0.05
Staff Welfare Fund	10.77	19.87
Ground Rent	0.13	0.08
IFD-1/PDA-1	-	0.02
Prior Period	0.00	-
	806.15	913.39

9. Any Other Receipts

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Interest on Grant 31 Payable	66.21	169.59
Alumini Association	0.80	1.16
Distribution fund	21.29	41.82
Earnest Money	6.45	2.20
Royalty to Authors	0.04	0.08
Security of Firms	30.89	6.23
Sundry Creditors	0.10	0.84
CREST CHD SOLAR PLANT	-	8.74
	125.77	230.65




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10. Establishment Expenses

Particulars	Current Year 2024-2025	Previous Year 2023-2024
REVENUE (NON SALARY)		
OH-31 (TRAINING & PENSION)		
Academic Cont	19.70	6.52
Honorarium (Training)	83.29	63.04
TA (Training)	28.57	73.58
TA Domestic (Non-Teaching)	3.18	0.37
Regular Pension	977.77	891.53
Outsource Salary	307.33	293.55
Fellowship and Scholarship	3.76	2.97
IC-1 (International Confr. (EDIC)	-0.02	0.30
SP-79	-	1.23
OH-31 Grant	-	10.00
Working expense	1.95	-
OH-36 (SALARY)		
Commutation	23.07	167.40
Gratuity	34.03	207.91
TA to Retirees	1.76	3.22
NPS Service Charges	0.05	0.08
Leave Encashment to Retirees	17.77	168.09
SALARY PART-A		
Salary Faculty	1,447.28	1,406.85
Salary Non Faculty	740.18	618.35
DA	8.50	31.39
SALARY PART-B		
Children Education Allowance	10.50	11.59
Leave Encashment	20.13	11.32
LTC	15.38	12.91
Medical	44.32	29.19
NPS Institute share	149.24	-
NPS	-0.01	124.25
CPF Institute share	-	2.54
PDA	49.01	12.22
Leave Salary Contributiion	-	0.25
Uniform Allowance	1.16	-
Tuition Fee	0.29	-
Other Retirement Benefits	0.36	-
	3,988.53	4,150.64

11. Academic Expenses

Particulars	Current Year 2024-2025	Previous Year 2023-2024
CO1 ME FEES	48.06	33.06
	48.06	33.06




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12. Administrative Expenses

Particulars	Current Year 2024-2025	Previous Year 2023-2024
REVENUE (NON SALARY)		
Contribution to reserve Fund	-	83.00
NON SALARY		
Advertisement	2.02	-
Annual Day	3.22	3.40
Annual Sports	0.73	15.04
BOG MEETING	3.81	4.54
Covid-19	-	-
Golden Jubilee(RD)	-	-
Ground Rent	1.19	-
Hindi Day	0.18	0.90
IFD1/PDA-1	-	-
Independence Day	-	-
Library Journal	0.59	0.39
Medicine	0.15	0.24
Office Contingency	16.49	17.31
Postage	0.75	0.76
Property Tax	19.85	1.60
Printing & Stationary	9.23	8.54
TT Charges	2.39	2.48
Professional & Audit Fees	5.62	7.31
Republic Day	-	0.08
Student welfare	3.02	1.05
Honorarium	3.33	1.45
TA -Non Salary	9.07	3.67
Training Non Faculty	2.87	1.12
Consumable Material	10.52	-
Audit Fees	1.83	-
	96.87	152.88


Accounts Officer
NITTTR, Chandigarh


Dean (A&F)
NITTTR, Chandigarh


Director
NITTTR, Chandigarh



13. Repair & Maintenance

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Mtc Academic Cell	-	0.02
Mtc Applied Sc	0.68	0.48
Mtc Building	27.82	29.53
Mtc Campus	35.57	7.44
Mtc Cdc	0.13	0.16
Mtc Civil	3.97	2.16
Mtc Computer	5.85	1.36
Mtc ECE	4.51	1.59
Mtc EDIC	0.02	0.54
Mtc Electrical	21.80	7.08
Mtc Electrical Lab	0.24	0.55
Mtc EMGT	0.14	0.09
Mtc ETV	-	-
Mtc Furniture	0.34	0.89
Mtc Guest House	1.27	2.34
Mtc Hostel	6.08	6.71
Mtc IMCO	-	0.75
Mtc IMEE	0.21	-
Mtc ISO	-	0.25
Mtc Lib	0.03	0.86
Mtc Mechanical	1.58	10.32
Mtc Media	2.65	3.88
Mtc Offcie	0.01	-
Etc R/D	0.49	0.14
Mtc Refrigeration & A.C	10.08	9.22
Mtc Telephone	1.21	1.83
Mtc Vehicle	4.86	5.95
Mtc Water & Electricity Charges	54.19	55.32
	183.72	149.49

14. Payment against Earmarked/Endowment Funds

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Corpus Funds	-	-
Equipment Replacement Fund	-	-
Faculty Dev Fund	-	-
Maintenance Funds	-	-
General Fund-Adjustment	-	0.30
	-	0.30

15. Payment against Sponsored Project/Scheme

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Sponsored Projects	74.15	132.68
	74.15	132.68



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16. Expenditure on Fixed Assets and Capital WIP

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Equipments (OH-35 Capital)		
Centre of Excellence Various Deptt	763.14	129.82
Equipment-Academic Cell	5.67	-
Equipment-Sports	-	0.44
Equipment-Applied Sc	0.25	-
Equipment-Building	-	0.38
Equipment-Campus	0.17	0.23
Equipment-CDC	-	0.03
Equipment-Civil	7.19	0.90
Equipment-Computer	45.00	162.74
Equipment- ECE	10.18	14.25
Equipment-EDIC	2.22	-
Equipment-Elect Mtc	0.13	0.98
Equipment Electrical Deptt	2.76	100.08
Equipment EMGT	1.17	-
Equipment Estate Office	0.36	0.35
Equipment-Guest House	1.13	2.11
Equipment- Lib	2.84	1.22
Equipment Hostel	3.25	4.93
Equipment-IMCO	-	9.24
Equipment-Mechanical	59.58	37.58
Equipment- Media	12.77	28.30
Equipment-Office	11.32	0.38
Equipment-RD	-	0.02
Equipment-Ref & Aircondining	1.29	3.80
Equipments	-	1.68
Equipment Telephone	0.26	0.22
Advance Renovation (BSNL)	-	-34.72
Advance to CPWD	60.58	7.02
Renovation- Institute Building	8.63	49.56
Furniture Fixture and Fittings	35.13	3.06
Intangible Assets - Applied Science	12.15	-
Civil-Intangible Assets	-	36.74
Comp-Intangible Assets	6.11	8.71
Intangible Assets - Computer	24.90	-
ECE- INTANGIBLE ASSEST	-	37.44
Electrical Intangible Assets	-	11.60
Mech-Intangible Assets	28.82	33.41
Intangible Assets - Patent and Copyrights	0.51	-
Library-Intangible	-	10.88
Library Books	1.57	0.59
Scientific and Lab Equipment	121.37	-
Computer and Peripherals	186.16	-
Plant and Machinery	0.85	-
	1,417.44	663.97



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17. Other Payments including Statutory Payments


Particulars	Current Year 2024-2025	Previous Year 2023-2024
CGST	6.68	19.34
IGST	42.23	152.03
UTGST	6.68	19.34
Income Tax Experts	10.77	8.89
Income Tax Firms	11.66	9.91
Income Tax Retirees	25.21	25.13
Income Tax Staff	391.92	401.64
TDS-CGST	5.61	4.24
TDS-UTGST	6.77	4.24
TDS-IGST	5.61	14.11
Income Tax Receivable	10.01	32.18
TDS on FDR	5.91	7.61
GIS	12.18	22.38
GPF	251.63	273.72
LIC	3.79	3.90
R&FW	0.05	0.05
STAFF WELFARE FUND	10.52	20.17
	807.24	1,018.89

18. Deposits and Advances


Particulars	Current Year 2024-2025	Previous Year 2023-2024
Consultancy Project	247.90	830.41
Temporary Advance	43.33	16.63
	291.22	847.04

19. Other Payments

Particulars	Current Year 2024-2025	Previous Year 2023-2024
Interest on Grant 31 Payable	132.71	51.58
Distribution Fund	23.83	37.47
Earnest Money	2.30	1.40
Security of Firms	12.18	6.56
Recruitment Fee	25.74	41.83
	196.76	138.84


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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH

BALANCE SHEET NEW PENSION SCHEME AS AT 31.03.2025

(Rs. In Lakhs)					
LIABILITIES	Current Year 2024-2025	Previous Year 2023-2024	ASSETS	Current Year 2024-2025	Previous Year 2023-2024
NPS Tier-I			(Rupees in lakh)		
Opening Balance	(1.76)	(1.76)	NPS Tier-I		
Less: Sub. For FY 2024-25	-	-	Subscription and Contribution due for 31/03/2025	0.01	-
Add: Sub + U Contribution	262.76	212.36	Investment	-	-
Add: Interest Credited	-	-	Interest accrued but not due	-	-
Less: Transfer to NSDL	(262.75)	(212.36)			
Add: Sub. + UC for FY 2024-25	(1.75)	(1.76)			
Balance with Main Accounts					
Opening Balance	2.34	2.34			
Add: During the year	-	-			
Closing Balance	2.34	2.34	Amount Recoverale from bank	3.39	3.39
Excess of Income over Expenditure					
Opening Balance	2.81	2.81			
Add: During the year	-	-			
Closing Balance	2.81	2.81			
Total	3.40	3.39	Total	3.40	3.39



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Director
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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH

Receipt And Payment Account

For the Financial year 2024-25

(Rs. In Lakhs)

Receipts	Current Year 2024-2025	Previous Year 2023-2024	Payments	Current Year 2024-2025	Previous Year 2023-2024
Opening balance	-	-	Investments Withdrawals	- 262.75	- 212.36
Own Sbscription	109.62	88.54	Closing Balance	0.01	-
Univarsity Contribution	153.14	123.82			
Interest Received on Investment	-	-			
Interest on Savings bank Account	-	-			
Invstment encashed	-	-			
Total	262.76	212.36	Total	262.76	212.36


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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR-26, CHANDIGARH
BALANCE SHEET GPF/CPF AS AT 31.3.2025

(Rs In Lakhs)

LIABILITIES	Current Year 2025	2024- 2025	Previous Year 2023-2024	ASSETS	Current Year 2024-2025	Previous Year 2023-2024
GPF				Investment	2,634.80	2407.61
Opening Balance	2,095.86			Int. accrued as on 31.03.25		
Add: Subscription in the year	250.03			(31.03.2024)	73.89	109.08
Add: Sub for March 2025	-			Subscription due for march		
Add: Interest credited	207.43			GPF		
Add: Reconciliation GPF	-			CPF		
Less: Subscription for	-			UC due to CPF		
Less: Advance/ Withdrawal	267.21					
Closing Balance		2,286.11	2,095.86	NPS-II		
CPF				Tax recovered from interest on		
Opening Balance	199.23			Investments pending refund		
Less: Opening Adjustment	-			Income Tax Department		
Add: Subscription in the year	3.00					
Add: Sub for March 2025	-			Cash at Bank		
Add Interest credited	13.44			Indian Bank	29.93	42.57
Less: Subscription for March	-					
Less: Advance/ Withdrawal	-			Sundry Recoverable	-	0.00
Closing Balance		215.68	199.23			
Institute Contribution(CPF)						
Opening Balance	102.30					
Add: Subscription in the year	-					
Add: Sub for March 2025	-					
Add: Interest credited	7.86					
Add: Reconciliation CPF	-					
Less: Adjustment for Advance	-					
Less: Advance/ Withdrawal	-					
Closing Balance		110.15	102.30			
NPS Tier-II Account						
Opening Balance	-					
Add: Subscription in the year	-					
Add: Sub for March 2025	-					
Add: Interest credited	-					
Less: Subscription	-					
Less: Advance/ Withdrawal	-					
Closing Balance		-	-			
Interest Reserve						
Opening Balance	161.88					
Add: Reconciliation	-					
Add: Excess of Income over						
expenditure	(35.19)					
Closing Balance		126.69	161.88			
Dead Account		-	-			
Total		2,738.62	2559.26	Total	2,738.62	2,559.26


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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR-26, CHANDIGARH**

**Income And Expenditure Account
For the Year ended 31.03.2025**

(Rs In Lakhs)					
Expenditure	Current Year 2024-2025	Previous Year 2023-2024	Income	Current Year 2024-2025	Previous Year 2023-2024
Interest Credited to:					
GPF	207.43	22.05	Interest received on Investment	228.73	44.28
			Interest earned on Loan given	0.00	0.00
CPF	13.44	13.77	Add: Interest accrued on 31.03.25	73.89	109.08
			Add: Interest accrued on Advance		
University Contribution (CPF)	7.86	8.46	Add: Tax received on interest-m		
NPS Tier-II			refund to be obtained		
Bank Charges	0.00	0.00	Add: Interest Accrued from CPF	0.00	0.00
Excess of Income over expenditure	-35.19	78.93	Less: Interest accrued for March	-109.08	-30.15
	193.54	123.21		193.54	123.21



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NITTTR, Chandigarh

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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR-26, CHANDIGARH
Receipt and Payment Account
For the Year ended 31.03.2025

Receipts	Current Year 2024-2025	Previous Year 2023-2024	Payments	Current Year 2024-2025	Previous Year 2023-2024
Opening Balance	2,450.18	2,798.02	GPF Adv./withdrawal	267.21	624.27
GPF Subscription	250.03	270.72	CPF Adv./withdrawal	-	16.30
CPF Subscription	3.00	3.00	University Contribution	-	27.81
CPF University Contribution	-	2.54	Withdrawal	-	-
Interest Received	228.73	44.28	Bank Charges	-	-
			Closing Balance:	2,664.73	2,450.18
	2,931.95	3,118.56		2,931.95	3,118.56



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 NITTTR, Chandigarh

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Dean (A&F)
 NITTTR, Chandigarh

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Director
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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR-26, CHANDIGARH**

CASH BOOK ACCOUNT GPF/CPF AS AT 31.3.2025

Particulars	(Rs. In Lakhs)	
	Current Year 2024-2025	Previous Year 2023-2024
Opening Balance as on 01.04.2024	2,450.18	2,798.02
Subscription during the year		
GPF as per ledger	250.03	
CPF as per ledger	3.00	
CPF Instt. Contribution	-	
Investment	-	276.26
Add: Intt. On S/A & FDR	228.73	44.28
Less:		
GPF Withdrawl	267.21	
CPF - Employer	-	
CPF - Employee	-	
Bank Charges	-	
Institute share	-	
GPF Loan from Main	267.21	668.38
Total	2,664.73	2,450.18



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**SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR
THE YEAR ENDING 31ST MARCH 2025 FORMING PART OF BALANCE
SHEET**

SCHEDULE 23 –SIGNIFICANT ACCOUNTING POLICIES

1. ACCOUNTING CONVENTIONS:

- a) The accounts have been maintained in the format as prescribed by the Government of India, Ministry of Human Resources development; vide their letter No. 29-4/2012-FD dated 17th April 2015, issued by the Under Secretary to Government of India.
- b) The Accounts have been prepared on Accrual basis.
- c) Accounting policies not specifically referred to otherwise are in consonance with the generally accepted accounting principles.

2. REVENUE RECOGNITION/GRANT-IN-AID :

- a) All revenue from student fees, Interest and other receipts are recognized on mercantile basis.
- b) The Institute receives funds on account of various sponsored projects under which it undertakes research activities. As a policy matter, NITTTT Chandigarh follows the guidelines of sponsoring funding agency. No income is generated out of such research activities and all the expenditure in this regard is met out of the said funds and remaining balances after utilisation is returned back to the agency or carried over to other projects of the same agency as per their guidelines.
- c) The Institute receives grants-in-aid from Government of India under Capital & Revenue schemes to meet the expenditure on salaries of employees, pension to retirees, travelling expenses for training of technical teachers and purchase of store/equipment etc. against Institute's annual budget approved by the Board of Governors. The funds, if remained unutilized at the end of the financial year, are carried over to the following financial year.
- d) For specific projects, unspent balance/funds, if any, are refunded to the concerned sponsoring agencies/departments after the completion of the respective Project.



- e) Institute receives funds against Sponsored Projects which are shown as deposits in Schedule 3a. The Institute recognizes its income on completion of project.
- f) Institute receives funds against Consultancy Project which are shown as deposits in Annexure 3. The Institute recognizes its income on completion of consultancy Project as per the guidelines.

3. FIXED ASSETS AND DEPRECIATION

- a) The Fixed Assets, are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses relate to acquisition, installation and commissioning. The Fixed Assets purchased out of Sponsored Projects and restricted projects are booked by credit to Capital fund and merged with Fixed Assets of the Institution.
- b) Depreciation on Fixed Assets have been provided on Straight Line Basis on the Rates specified as per Formats of Financial Statements for Central Higher Educational Institutions of India mentioned below:

Tangible Assets:

1. Land	0%
2. Site Development	0%
3. Buildings	2%
4. Roads & Bridges	2%
5. Tube wells & Water Supply	2%
6. Sewerage & Drainage	2%
7. Electrical Installation and equipment	5%
8. Plant & Machinery	5%
9. Scientific & Laboratory Equipment	8%
10. Office Equipment	7.5%
11. Audio Visual Equipment	7.5%
12. Computers & Peripherals	20%
13. Furniture, Fixtures & Fittings	7.5%
14. Vehicles	10%
15. Lib. Books & Scientific Journals	10%

Intangible Assets (amortization):

1. E-Journals	40%
2. Computer Software	40%
3. Patents and Copyrights	9years

Depreciation is provided for the whole year on additions during the year.

Leasehold land is amortized over the period of lease unless the lease is in perpetuity.



Assets created out of Earmarked Funds and funds of Sponsored Projects, where the ownership of such assets vests in the Institution, are setup by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution are separately disclosed in the Notes on Accounts.

Assets that cost Rs. 2000 or less each (except library books) are considered small value assets. These assets are fully depreciated in the year they are purchased.

Intangible Assets: Patents and copy rights, E Journals and Computer Software are grouped under Intangible Assets.

Patents: The expenditure incurred from time-to-time (application fees, legal expenses etc.) for obtaining Patents is temporarily capitalized and shown as part of Intangible Assets in the Balance Sheet. If applications for patents are rejected, the cumulative expenditure incurred on the particular patent is written off to the Income & Expenditure Account in the year the application is rejected.

The expenditure on Patents granted is written off over a life of 9 years on a conservative basis.

E-Journals/E-Resources: Electronic Journals/Resources (E-Journals/E-Resources) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. E-journals/E-Resources are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the Academic and Research Staff; Depreciation is provided in respect of E-journals/E-Resources at a higher rate of 40% as against depreciation of 10% provided in respect of Library Books.

Computer Software: Expenditure on acquisition of software has been separated from computers and peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high. Depreciation is provided in respect of software at a higher rate of 40% as against depreciation of 20% provided in respect of Computers & Peripherals.



4. INVENTORIES:

Expenditure on purchase of stores is accounted as Revenue Expenditure, except that the value of closing stock held on 31st March is set up as inventories by reducing the corresponding Revenue Expenditure on the basis of information obtained from Departments. They are valued at cost.

5. INVESTMENTS:

Long term investments are carried at cost less provisions, if any, for permanent diminution in the value of such investment. Short term investments are carried at lower of cost or fair value.

Investments comprise of the Term Deposits/FDRs related to GPF fund kept with the scheduled banks.

6. EMPLOYEE BENEFITS EXPENSE:

Institute makes provision of employee benefits such as Leave Encashment and Gratuity on Actuarial basis.

7. CONTINGENT LIABILITIES.

The Institute does not recognize a contingent liability but discloses its existence in the financial statements by way of notes to accounts.

a) Contingent liability is disclosed in case of –

- A present obligation arising from past events, when it is not probable that an outflow of resources will be required to settle the obligation.
- A present obligation arising from past events, when no reliable estimate is possible.
- A possible obligation arising from past events, unless the probability of outflow of resources is remote.

Contingent liabilities are reviewed at each balance sheet date.

Contingent liabilities on account of legal cases against the Board remained unascertained. The estimated liabilities in other legal cases with various parties are not ascertainable during the year and have not been quantified.

8. APPROVAL OF ANNUAL ACCOUNTS

The Board of Governors delegated powers jointly to the Dean (Administration & Finance), Director and the Accounts Officer of the Institute to approve and sign the Annual Accounts of the Institute before submission to Audit Officer vide Item No. B.65.5.6 in their meeting held on 02.08.2024.



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR 26, CHANDIGARH**

SCHEDULE 24 – CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

1. This is a non-commercial organization and Income Tax is not applicable as in the case of Universities or other Educational Institutions existing solely for education purpose and not for the purpose of profit and which are wholly or substantially financed by the Government under Section 10(23C) (iiiab).
2. The details of funds maintained by Institute:

a. Corpus Fund

(Amount in Lakhs)

Particulars	Current Year	Previous Year
Opening Balance	9944.21	9231.79
Add: Additions in the Fund	1459.32	712.42
Less: Utilization of Fund	93.59	-
Closing Balance	11309.94	9944.21
General Fund		
Opening Balance	(3191.28)	(3225.13)
Add: Additions in the Fund	-	-
Less: Appropriations	(82.15)	(0.30)
Add/(Less): Surplus/(Deficit) carried from Income & Expenditure Account	(696.04)	34.14
Closing Balance	(3969.48)	(3191.28)
Net Corpus Fund	7340.46	6752.92

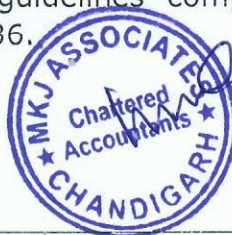
The addition to Corpus fund is on account of Grant received from Ministry for Capital expenditure, assets acquired out of sponsored projects along with contribution credited as per TEQIP-II guidelines computed on the basis of expenditure made under Grant OH-31 & 36.

b. Designated/ Earmarked Fund

(Amount in Lakhs)

Particulars	Current Year	Previous Year
Opening Balance	2918.35	3125.01
Add: Additions in the Fund	770.95	674.08
Less: Utilization of Fund	529.96	880.74
Closing Balance	3159.34	2918.35

The closing balance includes New Pension Fund (Rs. 3.55 Lakhs), GPF Fund (Rs. 2738.62 Lakhs), Equipment Replacement Fund (Rs. 142.16 Lakhs), Faculty Development Fund (Rs. 137.19 Lakhs), Maintenance Fund (Rs. 137.82 Lakhs).



3. As per Schedule 3C (Current Liabilities & Provisions), there is an unspent balance of Rs. 1777.49 Lakhs which includes OH36 - Rs. 1060.89 Lakhs and OH35 Rs. 716.60 Lakhs). Further, there was an excess expenditure incurred under the Grant OH-31 of Rs. 596.10 Lakhs which has been met out of IRG/Corpus funds.
4. According to the guidelines of TEQIP-II Project, the Institute has contributed 2% of total expenditure incurred under the Grants OH-31 & 36 amounting to Rs 82.15 Lakhs towards the four funds namely Corpus Fund, Equipment Replacement Fund, Faculty Development Fund and Maintenance Fund. The same has been contributed from General Fund.
5. Annexure-2 to Schedule 3 (Current Liabilities & Provisions) includes Rs. 5.45 Lacs on account of Advance Academic receipts which have been computed on the basis of information received from the concerned department and pertains to the period April-June 2025.
6. Annexure-3 to Schedule 3 (Current Liabilities & Provisions) includes Interest on Grant OH-31 payable of Rs 66.21 Lakhs. No FDR's out of the said Grant is outstanding as on the Balance Sheet date.
7. Schedule 4 includes Capital Work in Progress of Rs 739.25 Lacs which represents advance and part payments made against Centre of Excellence to be setup in the Institute.
8. During the year, the amounts received from CREST Chandigarh on account of subsidy, refund of O&M Charges and interest lying under the head "Crest Chd Solar Plant" under the Liabilities head have been accounted for as per the Utilisation Certificates received. The Institute sanctioned funds to CREST Chandigarh amounting to Rs 73.50 Lakhs and Rs 28.01 Lakhs for installation of 50kWp and 35kWp capacity solar power plant in its campus in March 2013 and January 2015, respectively. The advances paid were booked as Fixed Assets in the respective years and depreciation was also charged accordingly.

Now as per the UC received from CREST Chandigarh, the total expenditure of Rs 79.93 Lakhs was incurred to set up the 50kWp plant and 35kWp plant as Rs. 44.44 Lakhs and Rs. 35.49 Lakhs respectively which has to be further reduced by the respective subsidy/incentive amount totalling to Rs 28.25 Lakhs in order to arrive at the fixed asset cost in line with the Accounting Standard-12. Accordingly, the fixed assets cost was re-computed as Rs. 51.67 Lakhs and the excess depreciation claimed on this account being Rs. 60.52 Lakhs has been reversed in the Income & Expenditure Account under the head Other Income (Annexure-7) with a corresponding reduction from the Fixed Asset Reserves/Corpus Fund (Schedule-1).

And accordingly, Solar 50kWp and 35kWp plant are restated at Rs. 5.20 Lacs and Rs. 8.79 Lacs respectively as on 01.04.2024 by a credit of Rs. 10.68 Lakhs to the Corpus Fund (Schedule-1).



Further, the O&M Charges in respect of 35 kWp Solar Plant of Rs 2.11 payable have been booked as Current Liability under the head "O&M CHARGES Payable (35kWp Solar plant)" forming part of Annexure-3 to Schedule-3 (Current Liabilities & Provisions).

9. Institute is in possession of land measuring 17.98 acres out of which 15.00 acres is free hold. Amortization of lease premium on the basis of period of lease has been charged under rules. During the year, the gross block of leasehold land is reinstated at Rs. 24.80 lacs and the accumulated amortization till date has been recomputed with net impact of Rs 1.13 Lacs credited to Corpus Fund to reflect the correct balance of unamortized value of leasehold land as on 31.03.2025
10. Assets acquired out of sponsored projects during the current year as under:

(Amount in Lakhs)

Sr.No.	Particulars of Asset	Cost of Asset	Remarks
1	Sony ICDpx470 Voice Recorder	0.0579	Media/ETV (SP-81)
2	Wireless Microphone	0.0636	ETV (SP-81)
3	Samsung Galaxy Smartphone	0.25	ETV (SP-81)
4	Continuous Light 250 WBC, Light Stand, Tripods, Readymade Curtain Cloth, Haver Sack Kit	0.2537	ETV (SP-81)
5	Scientific and Laboratory Equipment	43.54	MechEnggDeptt (SP-44)
	Total	44.1652	

The above assets acquired out of sponsored projects have been accounted for by credit to Capital/Corpus Fund and merged with the Fixed Assets of the Institute. No fixed assets were purchased wherein the ownership is retained by the sponsors.



11. Annexure-5 to Schedule 8 (Loans, Advances & Deposits) includes Advances given out of OH-35 Capital Grant which are detailed as under:

Purpose of Advance	Year	Amount (in Lakhs)
Capital W-I-P with Chd. Admn. (ETV Media Bldg)	2002-03	0.39
Advance for Renovation works (CPWD)	2022-23	74.60
	2024-25	<u>60.58</u>
		135.18
	Total	135.57

12. During the year, the amount of advances of Rs 10.01 Lakhs lying under the head "Staff Quarters 1995-96 & 1996-97" have been capitalised under Fixed Assets of the Institute and depreciation for 20 years being Rs 4 Lakhs has been booked under the head Prior Period Items, based on the memo no. 6524 dated 28.02.2025 received from Executive Engineer, C.P. Division No.1, Chandigarh. However as per memo a total of Rs 11.96 Lacs has been incurred as Expenditure on the said project but other details are not traceable as per their data. The Institute's record have details of Rs. 10.01 Lacs only therefore, the capitalisation has been done to the extent of advances lying with Chd. Administration in the books of NITTTR.
13. Annexure-5 to Schedule 8 (Loans, Advances & Deposits) include NPS recoverable from bank Rs 3.39 Lakhs against which the matter is under correspondence with NSDL for recovery of 1.88 lakh.
14. Schedule 14 Prior Period Income includes various opening balances of ledger heads which were not payable or receivable and being inadvertently carried forward from preceding years and have been rectified in the current year. Also the same includes net depreciation excess charged Rs. 56.52 Lacs on fixed assets in the preceding years. The net impact of such rectification being credit of Rs 64.58 Lacs has been reported as "Other Income" under the Prior Period Items.
15. As per Bank Reconciliation Statement, a total of Rs 82.32 Lakhs being amount received during the year are pending identification/confirmation from various departments with regard to its nature and classification in the books of account. The same will be accounted for in the Institute books of account after such confirmation and approval from the competent authority on case to case basis.



16. Previous year's figures have been re-grouped and re arranged wherever considered necessary.

17. Details of Court Cases of the Institute in which Union of India is respondent till 31.03.2025 are as under:

List of Court Cases of the Institute pending before Punjab and Haryana High Court, Chandigarh as on 31.03.2025



Sr. No.	CWP Nos.	Petitioners	Prayer	Writ Status	Next date of hearing
01	8293 /1996	Raksha Devi VsUol& Other	Up-gradation of Pay scale of Rs.1640-2900 (Pre-revised stenographer pay scales)	-	Disposed of on 05.05.2025
02	17905/ 2000	TTTI Chandigarh Vs TTTI Union	Various demands of Union regarding recognition of union	Admitted	03.07.2025
03	3432/ 2003 & 10383/2003	TTTI VsPrem Kumar	Challenge of Labour Court Award	Admitted	-
04	17537/ 2007	Bakshish Singh VsUol& others	Retirement benefits	Admitted	-
05	11052/ 2011	Dr. (Ms) PK TulsiVs NITTTTR & others	Rotational Headship	Admitted	-
06	22422/ 2014	Dr. PK TulsiVsUol& others	To release seniority list of faculty	-	Disposed of on 14.05.2025
07	17218/2017	Vinod Kumar & others Vs NITTTTR & others	Increment under on CAS promotion	Regular Hearing	29.07.2025
08	27184/2017	Rama Chhabra& others Vs NITTTTR & others	Increment under on CAS promotion	Regular Hearing	29.07.2025
09	LPA 1940/2017	Dr. S. Chatterji& others VsUol& others	LPA * on CWP No. 941/2013	Regular Hearing	21.07.2025
10	LPA 2124/2017	Uol VS BC Choudhary& others	LPA on CWP No. 4391/2000	Regular Hearing	10.09.2025
11	5376/2019	KL SinglaVs UOI & others	Higher Rate of Annual Increment	Admitted	-
12	6705/2019	Balwinder Singh Vs NITTTTR & others	Selection of Professor in Media Centre and Rural Development	Regular Hearing	21.07.2025
13	11337/2019	Dr. KC LachhwaniVs UOI & others	Promotion under CAS	Regular Hearing	29.09.2025
14	23237/2019	Manmohan Singh Vs UOI & others	To extend superannuation age librarian upon 65 years age	Regular Hearing	26.08.2025
15	COCP 1582/2020	Rita Singh Vs Dr. SS Pattnaik	Contempt petition	Regular Hearing	05.08.2025


16	12907/2022	Robin BabitVs UOI & others	Challenge the Advertisement	Regular Hearing	03.09.2025
17	21123/2022	Jaspal Singh Vs UOI & others	To give appointment on the post of Technician Electrical	Regular Hearing	11.08.2025
18	6541/2024	Baljit Singh Vs UOI & ORS	Status quo regarding accommodation for residing	Regular Hearing	15.09.2025
19	<u>3558/2024</u>	Niraj Kumar Vs NITTTR & Ors	Challenge the selection of the selection committee	Regular Hearing	24.09.2025
20	16082/2024	D.S Malik Vs UOI and ORS	Service Matter	Regular Hearing	06.08.2025


List of Court Cases of the Institute pending before CGIT-cum-Labour Court , Chandigarh
as on 31.03.2025

18. Schedule 01-24 are annexed to add form an integral part of the Balance

Sr. No.	ID No.	Name	Next Date of Hearing
1.	12/2024	Dalbir Singh Vs NITTTR, Chd&Ors	11.07.2025
2.	13/2024	ShubhamTanwarVs NITTTR Chd&Ors	11.07.2025
3.	11/2024	AnjuVs NITTTR Chd&Ors	24.07.2025
4.	10/2024	Neetika Sharma Vs NITTTR Chd&Ors	24.07.2025
5.	09/2024	Krishna Kumar Vs NITTTR Chd&Ors	24.07.2025
6.	19/2024	HarpreetKaurVs NITTTR Chd&Ors	24.07.2025
7.	20/2024	Jasbir Singh Vs NITTTR Chd&Ors	24.07.2025
8.	21/2024	Mohan Singh Vs NITTTR Chd&Ors	24.07.2025
9.	22/2024	Mani Vs NITTTR Chd&Ors	24.07.2025
10.	23/2024	Prem Narayan Vs NITTTR Chd&Ors	24.07.2025

Sheet as on 31.3.2025.


Accounts Officer
NITTTR, Chandigarh


Dean (A&F)
NITTTR, Chandigarh


Director
NITTTR, Chandigarh





भारतीय लेखापरीक्षा तथा लेखा विभाग
कार्यालय प्रधान निदेशक लेखापरीक्षा (केन्द्रीय), चण्डीगढ़

Indian Audit & Accounts Department
Office of The Principal Director of Audit (Central),
Chandigarh



सं/No: पी. डी. ए.सी.के. व्यय/NITTTR/2024-25/ 692

दि/Date: 21-11-2025

सेवा मे,

सचिव,
उच्चतर शिक्षा विभाग,
शिक्षा मंत्रालय,
भारत सरकार, नई दिल्ली - 110001

विषय: National Institute of Technical Teachers Training & Research, Chandigarh के
वर्ष 2024-25 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन

महोदय/महोदया,

कृपया National Institute of Technical Teachers Training & Research, Chandigarh के वर्ष 2024-25 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन (Separate Audit Report) संसद के दोनों सदनों के समक्ष प्रस्तुत करने हेतु संलग्न पाएं। संसद में प्रस्तुत होने तक प्रतिवेदन को गोपनीय रखा जाए। संसद में प्रस्तुत करने के उपरांत प्रतिवेदन की पांच प्रतियाँ इस कार्यालय को भी भेज दी जाएं।

कृपया इस पत्र की पावती भेजें।

भवदीया,

संलग्न: उपरोक्त अनुसार

दस्ता -

प्रधान निदेशक

उपरोक्त की प्रतिलिपि वर्ष 2024-25 की पृथक लेखापरीक्षा प्रतिवेदन की प्रति सहित आवश्यक कार्यवाही हेतु Director, National Institute of Technical Teachers Training & Research, Sector-26, Chandigarh-160019 को प्रेषित की जाती है।

भवदीय,
प्रधान
निदेशक

Opinion of the Comptroller & Auditor General of India on the Accounts of the National Institute of Technical Teachers Training and Research, Chandigarh for the year ended 31 March 2025

Opinion

We have audited the financial statements of National Institute of Technical Teachers Training and Research, Chandigarh which comprise the statement of financial position as at 31 March 2025 and the Income & Expenditure Account/Receipts & Payment Account for the year then ended, and notes to the financial statements, including a summary of significant accounting policies under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. The audit has been re-entrusted for a period of five years from 2023-24 to 2027-28.

This Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions regarding compliance with the Law, Rules and Regulations (Propriety & Regularity) and efficiency cum performance aspects, etc., if any, are reported through inspection reports/ CAG's audit reports separately

In our opinion, the accompanying financial statements of the National Institute of Technical Teachers Training and Research, Chandigarh, read together with the accounting policies and Notes thereon and other matters mentioned in the Separate Audit Report, which follows, **give a true and fair view** of the financial position of the autonomous body as at March 31, 2025, and (of) its financial performance and its cash flows for the year then ended in accordance with in the format prescribed by the Ministry of Human Resource Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015/accounting standards generally accepted in India.

Basis for Opinion

We conducted our audit in accordance with CAG's auditing regulations/standards/manuals/guidelines/guidance-notes/orders/circulars etc. Our responsibilities are further **described in the Auditor's Responsibilities for the Audit of the Financial Statements** section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we

have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Emphasis of Matter

Nil

Responsibilities of Management for the financial statements

The Board of Governors of the National Institute of Technical Teachers Training and Research, Chandigarh is responsible for the preparation and fair presentation of the financial statements in accordance with the format prescribed by the Ministry of Human Resource Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015/accounting standards generally accepted in India and for internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations/standards/manuals/guidelines/guidance notes/orders/circulars etc.

For and on behalf of the CAG of India

[Signature]
21/11/25

Principal Director of Audit (Central), Chandigarh

Place: *Chandigarh*

Date: *21-11-2025*

Separate Audit Report on the Accounts of the National Institute of Technical Teachers Training and Research, Chandigarh for the year ended 31 March 2025

A. Balance Sheet

A.1 Current Liabilities and Provisions (Schedule-3): ₹6159.25 lakhs

Provisions: ₹2339.30 lakh

Gratuity: ₹865.09 lakh

Accounting standard 15 provides for the provisions to be made towards retirement benefits viz. Gratuity, Leave Encashment and Pension etc in the accounts on the basis of actuarial valuation.

The Department of Expenditure (DoE), Ministry of Finance (MoF), Government of India advised (December 2021) the Ministry of Education to instruct Autonomous Bodies/ Organizations to adopt Payment of Gratuity Act, 1972 in consultation with Ministry of Labour and Employment (MoL&E). Further, vide O.M. No.R-13011/02/2022-SS.II dated 23.11.2022, the MoL&E has clarified that the Payment of Gratuity Act, 1972 is applicable to all employees of educational institutions, as the said Act does not have provisions for different set/category/class of employees and further that no separate notification is required to be issued by the Ministry of Education for applicability of the said Act (in case of NPS employees).

In contravention to above instructions, the valuation of gratuity was done by the institute in accordance with the CCS (Pension) Rules, 1972, instead of the applicable Payment of Gratuity Act, 1972 as directed by the MoF. Thus, the provision made for payment if gratuity is incorrect to the extent that it has not been made in accordance with Payment of Gratuity Act, 1972.

A.2. Loans, Advances and Deposits (Schedule 8): ₹770.78 lakh

Others (Annexure 5): ₹414.42 lakh

On capital account: ₹135.57 lakh

Above did not include an amount of ₹679.93 lakh given to M/s EDCIL (India) Limited, Noida for setting up a center for professional development in Artificial Intelligence at NITTTR Chandigarh on 26.03.2025. However, the work had not yet started and accordingly, the entire amount should have been shown as capital advances under Loans, Advances and Deposits (Schedule 8).

However, the Institute has shown ₹644.00 lakh under Capital Work in Progress and remaining amount of ₹35.93 lakh was capitalized as 'Scientific and Laboratory

Equipment'. Further, the payment of above advance amounting ₹679.93 lakh was made from grant and should have been shown as unutilized grant under Current Liabilities and Provisions (Schedule 3).

This has resulted in the understatement of Loans, Advances and Deposits as well as unutilised grants by ₹679.93 lakh. Besides, overstatement of each of, Capital/Corpus Fund by ₹677.06 lakh, Capital Work in Progress by ₹644.00 lakh, Scientific and Laboratory Equipment by ₹33.06 lakh (₹35.93 lakh less depreciation @8%), and depreciation by ₹2.87 lakh.

B. General

B.1 Contingent Liabilities and Notes to Accounts (Schedule-24)

As per the prescribed format, capital commitments in respect of the Value of contracts remaining to be executed on Capital Account and not provided for (Net of Advances) shall be shown by way of a note in the Notes to Accounts.

(i) The Institute signed (08.03.2022) a Memorandum of Understanding (MoU) with CPWD for the designing and construction of three numbers of houses of Type-IV, Type-V and Type-VI each for residential accommodation for NITTTR campus at sector-42 B. Against administrative approval of ₹6.43 crore, the Institute advanced ₹64.32 lakh to CPWD on 15.06.2022. Subsequently, the Institute intimated (15.04.2025) to reduce the scope of work to one number of Type-IV, Type-V and Type-VI each for residential accommodation. Thus, the Institute had a capital commitment however, the Institute has not been disclosed the same by way of a note in the Notes on Accounts.

(ii) The Institute paid an amount of ₹6.80 crore (50% of the contract value of ₹13.60 crore) in advance to M/s EdCIL (India) Limited, Noida towards setting up of Artificial Intelligence lab during 2024-25. However, contravening the prescribed format, the Institute has not disclosed its capital commitments amounting to ₹6.80 crore towards the value of contract remaining to be executed as on 31.03.2025 in the Notes on Accounts.

B.2 As per the actuarial valuation report, liability of ₹20270.72 lakh has been worked out towards pension of 59 employees in accordance with the CCS (Pension) Rules, 1972. However, the same has not been provided in the accounts and pension liability amounting to ₹81.76 lakh only has been shown against the actuarial valuation of ₹20270.72 lakh. The Institute should make provisions for retirement

benefits in the books of accounts as per actuarial valuation as required by the approved format, Accounting Standards and the relevant Act and should make disclosures as required by AS15.

C. Management Letter

Deficiencies which have not been included in this Separate Audit Report have been brought to the notice of the Management through a Management Letter issued separately for remedial/corrective action.

D. Assessment of Internal Controls

D.1 Adequacy of Internal Audit System

Internal audit of cash books, purchase vouchers, receipts and purchase files for the year 2024-25 was conducted. Internal Audit of departments are being done on rotational basis and six departments were selected for audit (period up to 31.03.2024) during the year 2024-25, out of which audit of two departments were completed as on 31.03.2025 and remaining four were under progress.

D.2 Adequacy of Internal Control System

Internal Control was found to be inadequate in view of the following:

- (i) Accounting manual was not prepared.
- (ii) Delay in reconciliation of un-identified receipts in the bank accounts.

D.3 System of Physical Verification of Fixed Assets

Physical verification of Fixed Assets (other than library books) for the year 2024-25 was under progress. Physical verification of Library books had been conducted up to 2024-25.

D.4 System of Physical Verification of Inventory/Consumables

Physical Verification of inventory for the year 2024-25 was under progress.

D.5 Regularity in payment of Statutory Dues

The Institute was regular in payment of statutory dues.

E. Grant-in-aid

E.1 The position of the Grant-in-aid as on 31.03.2025 was as follows:

(Figures in ₹crore)

Particulars	General OH-31	Capital OH-35	Salary OH-36	Total
Opening Balance	1.58	9.91	5.61	17.10

Add: Grant received during the year	9.33	12.00	29.21	50.54
Other receipts/adjustments	-	0.54	-	0.54
Total funds available	10.91	22.45	34.82	68.18
Less: Utilization during the year	10.91	7.13 ¹	24.21	42.25
Un-utilized balance as on 31.03.2025	-	15.32	10.61	25.93

¹₹14.26 crore (as per Sch 3C) less capital advances during the year ₹0.33 crore (₹1.35 crore-₹1.02 crore) less capital advances amounting ₹6.80 crore (Comment A.2)

E.2 As per the prescribed format, the advances on capital account from grant funds should be included under unutilized grant in the schedule 3C.

As per the Schedule 3C, the Institute has shown unutilized balance of grant under OH-35 of ₹7.17 crore as on 31.03.2025, instead of correct balance of ₹15.32 crore. Difference of ₹6.80 crore is due to treating of capital advances as Capital Work in Progress (refer OBS-2017528) and remaining difference of ₹1.35 crore is due to treating of capital advances of ₹1.35 crore as utilization of grant.


In accordance with the prescribed format, the Institute needs to correct the accounting treatment of capital advances as part of unutilized grant and accordingly correct the unutilized grant balance under OH-35 to ₹15.32 crore.



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**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
SECTOR – 26, CHANDIGARH –160 019 (INDIA)**

(An ISO 9001 : 2015 Certified Institute)

Phone: 0172 - 2759500

E-mail : director@nitttrchd.ac.in; diroffice@nitttrchd.ac.in