



ANNUAL REPORT 2022 - 2023



NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH

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TECHNICAL TEACHERS TRAINING AND RESEARCH**

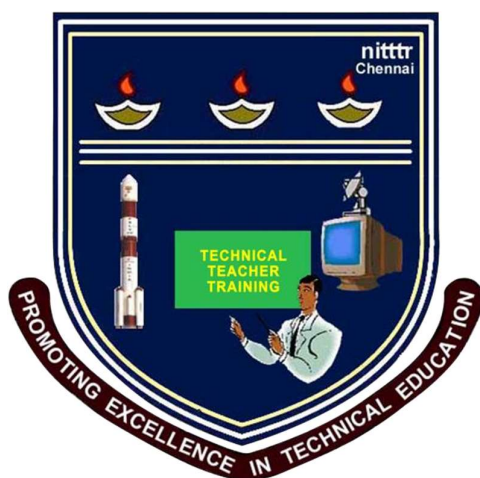
Ministry of Education, Govt. of India
Taramani, Chennai - 600 113

PROMOTING EXCELLENCE IN TECHNICAL EDUCATION

ANNUAL REPORT

2022-2023

(ENGLISH VERSION)



**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH
CHENNAI – 600 113**

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1.0 PREAMBLE

The National Institute of Technical Teachers Training and Research (NITTTR) Chennai was established as an autonomous institute by the Ministry of Education (MoE), Government of India in the year 1964 to improve the quality of technical education system in India and in the southern region in particular. Within this mandate, the institute takes initiatives to offer need based human resource development programmes through appropriate modes and develop curricula and instructional resources. It also fosters research in core engineering areas and also in the inter-disciplinary areas of engineering education and offers consultancy services for the total development of engineering colleges, polytechnics, vocational institutions, industry, service sector and the community at large.

In carrying out the above mandate, the institute collaborates with national and international institutes, universities and other agencies interested in and / or deriving benefits from the technical education and training.

VISION

To serve as a “One-Stop Institute of Excellence” and create an indelible mark in the fields of Multidisciplinary Education, Training, Research and Innovation at the Global Level

MISSION

The NITTTR, Chennai is a resource institution established by the Government of India for quality improvement of technical education in the southern region of the country in particular.

- ✳ To address the current challenges in the field of Technical Education and fulfill the evolving needs and expectations of the changing world by renewing the principles of the Teaching Learning process.
- ✳ To anchor teaching in the quality culture of the Technical Institutions and articulate pedagogical competence to satisfy the demand for “Lifelong Learning”.
- ✳ To transform the traditional “One Size Fits All” Model to “Skills over Degrees” Model.

CORE VALUES

The following are the core values for our service to technical teachers and in turn to students.

- ◆ Quality
- ◆ Innovation
- ◆ Collaboration
- ◆ Ethics
- ◆ Excellence

MOTTO

“Innovate to Educate and Educate to Innovate”

2.0 OBJECTIVES

The objectives of the institute are:

- ✓ To act as a centre for offering quality training programmes for technical teachers as per needs of the client system, covering the entire gamut of technical education including engineering colleges, polytechnics and management education, at regional and national levels.
- ✓ To arrange for training of technical personnel in industries on a collaborative education plan.
- ✓ To undertake systemic research to provide inputs for the development of technical education training systems and their management.
- ✓ To undertake and guide research for development of innovative methods, processes and practices for improvement of teaching-learning environment in technical institutions.
- ✓ To design new instructional systems and strategies for production of multimedia learning materials.
- ✓ To develop and disseminate learning resources like textbooks, laboratory manuals, video programmes, computer assisted instructional multimedia packages to technical institutions and other organisations.
- ✓ To offer programmes for technical teachers in distance learning mode using state-of-the-art technologies.
- ✓ To offer courses / programmes for technical and vocational teachers to suit overseas demand especially from SAARC & ASEAN countries.

- ✓ To institute awards, fellowships, scholarships, prizes and medals.
- ✓ To collaborate with the community and industries in organizing continuing and non-formal vocational education programmes and providing extension and consultancy services.
- ✓ To undertake consultancy project for industry and technical institutions/organisations.
- ✓ To strengthen extension centres of the institute in different States for serving the specific needs of each State.
- ✓ To provide support services to Government of India schemes related to technical and vocational education system and as entrusted by the MoE, Government of India, from time to time.
- ✓ To cooperate with educational or other institutions in any part of the world having similar 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 objects.
- ✓ To develop e-content and MOOCs on Teacher Education under the SWAYAM project of the Ministry. The NITTTR, Chennai is the National Coordinator for this project.
- ✓ To coordinate National Initiative for Technical Teachers Training policy of AICTE.

3.0 FOCUS OF ACTIVITIES DURING 2022-2023

The institute periodically reorients its programmes and activities to proactively respond to the changing needs of the clientele system. During 2022-23, the institute undertook programmes, projects and activities under four major areas namely: (i) Professional Development Programme; (ii) Curriculum Development; (iii) Instructional Resources Development; and (iv) Research and Consultancy Projects.

The institute focused on the following activities during 2022-2023:

1. Training of teachers of engineering colleges, polytechnics and personnel from industrial experts and professionals through short-term courses in areas like engineering and technology, instructional design and delivery, technology enabled teaching-learning, blended and flipped mode of teaching, e-content development for online teaching, educational tools for teaching, accreditation, outcome based education, curriculum development and entrepreneurship development.
2. Conducting webinars/workshops for professional development of teachers.
3. Developing research capabilities in teachers of engineering colleges, polytechnics and personnel from industries through inter-disciplinary research leading to Ph.D.
4. Offering doctoral degree programme in civil engineering, affiliated to Anna University, by developing research capabilities in teachers of engineering colleges, polytechnics and personnel from industries through civil engineering research leading to Ph.D.

5. Offering post graduate degree programme in Infrastructure Engineering and Management and Electronics and Communication Engineering (Industry Integrated) affiliated to Anna University.
6. Providing expertise to overseas participants through specially designed training programmes.
7. Developing curricula for new technical programmes and revising the curricula of existing programmes.
8. Developing/revising instructional resources (materials and media) needed for effective implementation of polytechnic and engineering college curricula.
9. Undertaking research and development projects relevant to technical education system.
10. Developing e-content on teacher education under SWAYAM platform.
11. Coordinating agency for National Initiatives for Technical Teachers Training (NITTT).
12. Providing consultancy services for the effective implementation and monitoring of the following schemes / projects:
 - a. Scheme of community development through polytechnics
 - b. Project for Persons with Disabilities (PwDs)
 - c. Unnat Bharat Abhiyan (UBA)
 - d. Expert committee visit to facilitate accreditation
 - e. Technical and consultancy service in the area of engineering / technology
 - f. Need based human resource development programmes and projects for Industries, Govt. Departments and Service Organizations

4.0 PROFESSIONAL DEVELOPMENT PROGRAMMES

The institute has identified professional development programs for teachers in engineering colleges and polytechnics as a top priority. As a result, the Institute has designed and implemented a diverse range of short-term and long-term training initiatives, along with organizing webinars and workshops. These programmes aim to empower educators and staff in polytechnics and engineering colleges, as well as teachers from overseas, to enhance their skills and knowledge in areas directly related to their respective roles and responsibilities.

4.1 LONG-TERM TRAINING PROGRAMMES

4.1.1 Doctoral Research Programme

The Institute continued vigorously to promote educational research programmes and encourage technical teachers, working personnel from industries and other education sectors to undertake research work in the areas of Engineering Education (Inter-disciplinary). The institute is a recognized Doctoral research centre by the University of Madras and Anna University, Chennai.

So far a total number of 99 scholars have been awarded Ph.D. degree in Engineering Education under the University of Madras. As on date, 10 candidates are registered under University of Madras and 11 candidates are registered under Anna University. During this period, three scholars were awarded Ph.D. in Engineering Education by the University of Madras and One scholar were awarded Ph.D. in Civil Engineering by the Anna University (Table 1).

Table 1 Ph.D. Degree awarded to Research Scholars during 2022-2023

S. No.	Name of the candidate & Full-Time/Part-Time	Title of the Thesis	Supervisor from NITTTR, Chennai	Date of Viva Voce
1	Shri. Venugopalan Nair Part- Time Scholar	A Study on Adequacy of English Language Teaching in Engineering Colleges in Tamil Nadu	Dr. S. Renukadevi Professor & Head Dept. of Education	20.04.2022
2	Mr. Muthuramalingam Part- Time Scholar	Effect of Skill Development Training Imparted to Slum dwellers in Chennai City on Their Economic Status	Dr. S. Mohan Former Director NITTTR, Chennai	25.04.2022
3	Ms. Kamatchi K.S. Part- Time Scholar	Evaluation Of OBE Framework for Instructor Effectiveness on Java Programming Concepts	Dr. T. Gnana Sambanthan (Supervisor-Convener) Professor & Head (Retd.), Dept. of Computer Science & Engineering	07.06.2022
4	Ms. J. Anne Mary Full – Time Scholar	Experimental Investigation on the Strength and Durability Characteristics on Concrete with Manufactured Synthetic Coarse Aggregates	Dr. G. Janardhanan Professor of Civil and Environmental Engineering & Head, CASR	18.01.2023

4.1.2 Post Graduate Programme

The M.E. (Infrastructure Engineering and Management) program focuses on Construction/Infrastructure Engineering, encompassing the areas of designing, planning, and environmental management for large buildings, townships, roads, bridges, transportation engineering, and infrastructure projects. Graduates of this program have promising employment prospects in various sectors, including Real Estate, Private and Public Sector Undertakings, Transportation, Consultancy Firms, Industrial Plants, and Housing & Urban Development Authorities.

However, above all these opportunities, NITTTR Chennai offers an excellent job opportunity for successful students to become exceptional teachers in Engineering and Polytechnic Colleges. Currently, there are 14 students are enrolled in the M.E programme in Infrastructure Engineering and Management, and 27 students have successfully graduated from the Programme. These graduates are well-equipped to make significant contributions in both industry and academia, with teaching positions being a notable avenue for them to pursue.

The M.E. in Electronics and Communication Engineering (Industry Integrated) is a distinctive course designed to align closely with industrial requirements. The program incorporates cutting-edge technologies such as the Internet of Things, Industry 4.0, Cyber Physical Systems, Industrial Automation, Embedded System on Chip design, Machine learning, Deep Learning, Advanced Communication Systems, E-vehicle Technologies, and Telemedicine.

A significant aspect of this program is its practical approach, with a focus on industry-relevant case studies and real-world applications. Students will have ample opportunities to engage with industry experts who will be actively involved in teaching, providing valuable insights and expertise.

One of the program's key strengths is its emphasis on Industrial problem-based projects, encouraging students to tackle real challenges faced by industries. Through these projects, students will develop problem analysis and design skills, equipping them to address practical issues in the domain.

By undergoing this program, students will not only gain knowledge in emerging areas but also enhance their research and development capabilities to meet societal needs. As of now, there are Two students have successfully graduated from M.E. Electronics and Communication Engineering (Industry Integrated)

M.E. Multimedia Technology the Masters in Multimedia Technology prepares postgraduates to excel in the diverse and pervasive field of Multimedia Information Technology to emerge as a skilled exponent of their field. Recent advances in computer graphics, sensors and screen technology give us unprecedented

possibilities to completely immerse humans in virtual environment or augment real environments. Virtual Reality (VR) and Augmented Reality (AR) constitute a completely new computing paradigm finding its way into applications for industry, health care, education, entertainment, content development, advertising, marketing, etc. This program approaches technology with a critical eye, understanding the ever-present impact that computational technologies have on our lives. This program is designed for students to become professionals who can design, develop and evaluate animation movies, new media, apply media security for multimedia applications, innovate ideas and smart solutions for game development, AR and VR applications and video production. This degree is versatile and opens up a plethora of professional opportunities in the media rich-digital world. A total of one student are pursuing their M.E. in Multimedia Technology.

M.E. in Energy Engineering is a comprehensive program designed to address the pressing issue of depleting fossil fuels and the urgent need for sustainable renewable energy sources on a global scale. This interdisciplinary curriculum encompasses essential engineering expertise spanning energy generation, conversion, electrical power systems, and efficient energy utilization. It also includes modules covering diverse energy sources, energy policy, economic aspects, and the environmental implications they entail. This course equips students with the essential capabilities to evolve into adept engineers specializing in the intricate realm of energy systems, encompassing their generation, conversion, transmission, and effective administration.

4.1.3 Overseas Training Courses (OTC)

In the year 2022-23, the e-ITEC is a component of the ITEC program, where training is provided to partner countries by Indian Institutes through real-time online sessions. These programs are tailored to meet the specific needs of the participants.

For the e-ITEC programs, the necessary facilities include a stable internet connection, telecommunication links, and a focal person to coordinate the activities.

The training is fully funded by the Ministry of External Affairs, Government of India, benefiting civilians from various countries across Asia, East Europe, Central Asia, Africa, Latin America, the Caribbean, as well as Pacific and Small Island nations.



NITTTR Chennai has been actively involved in conducting specialized training programs under ITEC schemes for 40 years, contributing to the institute's visibility and reputation internationally. The technical and economic assistance provided by the Ministry of External Affairs has fostered goodwill and meaningful cooperation among developing countries worldwide. The Centre for International Affairs oversees the overall management of these programs, while the institute's respective coordinators handle the academic aspects, ensuring the success and effectiveness of the training initiatives.

Table 2 Overseas Training Courses during 2022-2023

Sl. No.	Title of the Course	Duration	No. of Participants	Course Coordinator
1.	Redefining Engineering Education through Innovative Curriculum for Industry 4.0	17.08.2022 to 30.08.2022	11	Er. V. Sivakumar
2.	Design of Educational Applications using Web Technologies	16.11.2022 to 13.12.2022	18	Dr. V. Shanmuganeethi
3.	Digital Learning and Teaching Technologies	21.11.2022 to 16.12.2022	02	Dr. P. Malliga
4.	Strengthening Technical and Vocational Education & Training (TVET) Systems to meet the Sustainable Development Goals (SDGs) of United Nations	25.01.2023 to 21.02.2023	22	Dr. G. Kulanthaivel
5.	Skill Development in Electronics for TVET Trainers and Planners	22.02.2023 to 21.03.2023	08	Dr. G. A. Rathy
6.	Learning Visit Program of the Nepal Officials and Stakeholders of NSTB to India	27.03.2023 to 31.03.2023	16	Dr. G. Kulanthaivel

Glimpses of Overseas Training Courses during 2022 – 2023



Redefining Engineering Education through Innovative Curriculum for Industry 4.0



Design of Educational Applications using Web Technologies



Digital Learning and Teaching Technologies



Strengthening Technical and Vocational Education & Training (TVET) Systems to meet the Sustainable Development Goals (SDGs) of United Nations



Skill Development in Electronics for TVET Trainers and Planners



Learning Visit Program of the Nepal Officials and Stakeholders of NSTB to India

4.2 SHORT-TERM TRAINING PROGRAMMES

4.2.1 Online Mode Programmes

The ongoing pandemic has led to significant transformations in the higher education system, particularly in technical education. In response to the challenges posed, NITTTR Chennai's teaching fraternity demonstrated resilience by swiftly transitioning to online education, thus contributing to the establishment of a knowledge society. As a prominent institution, NITTTR Chennai has taken on the crucial responsibility of empowering technical teachers across the country, with a special focus on those in South India.

To ensure uninterrupted knowledge sharing and adapt to the new normal, NITTTR Chennai initiated online training programs for faculty members of technical institutions. The specific training needs of polytechnic teachers in each Southern State were identified through comprehensive need analysis conducted by the institute's extension centers and the State Directorates of Technical Education. Based on the findings, course details, duration, and venues were finalized during program development committee meetings, where representatives from the Southern State Directorates of Technical Education participated. This collaborative approach ensured that the planned courses would effectively address the training needs of technical teachers in the region.

Through these proactive efforts and impactful training programs, NITTTR Chennai is making a substantial contribution to the advancement of technical education in the country, especially in the Southern region.



Glimpses of PDP (Online Mode) Training Programmes

Table 3 List of PDP (Online Mode) Programmes conducted during 2022-2023

S. No	Topic	Duration	No. of Weeks	No. of Participants
1	Refresher course on Design of RCC & Steel Structures	April 04-08, 2022	One	40
2	Implementation of OBE and NEP-2020	April 18-22, 2022	One	28
3	Energy and Environmental Management	April 18-22, 2022	One	36
4	Data Analytics	April 18-22, 2022	One	36
5	Reflective Teaching for Effective Teachers	April 25-29, 2022	One	38
6	Non-Traditional Machining	April 25-29, 2022	One	26
7	Data Communication and Networking	May 09-13, 2022	One	58
8	Communication Skills for Technical Teachers and Entrepreneurs	May 09-13, 2022	One	26
9	Advanced Pedagogy	May 09-13, 2022	One	59
10	Outcome Based Curriculum in Engineering Education	May 23-25, 2022	One	73
11	Research Methodology and IPR	May 23-27, 2022	One	99
12	Thermal Power and Energy Engineering	May 23-27, 2022	One	40
13	Linux System Administration	May 23-27, 2022	One	47
14	Academic and Research Writing Workshop	May 30- June 3, 2022	One	41
15	Critical Pedagogy	June 13-17, 2022	One	18
16	Learning Technologies	June 13-17, 2022	One	79
17	Verilog Programming	June 13-17, 2022	One	53
18	Academic Leadership & Motivation	June 13-17, 2022	One	104
19	MATLAB and LabVIEW Programming for Engineering Applications	June 20-24, 2022	One	210
20	Yoga and Healing Techniques for Well Being	June 20-24, 2022	One	88
21	Advances in Heat Treatment & Material Processing	June 20-24, 2022	One	41
22	Analysis of Multistoried buildings for Vertical and lateral loads	June 20-24, 2022	One	10
23	Embedded Systems using 8051 Micro Controller	June 27-July 01, 2022	One	22
24	Managing Stress for Effective Living	June 27-July 01, 2022	One	51
25	Renewable Energy Sources	June 27-July 01, 2022	One	47
26	Developing Instructional Material	June 27-July 01, 2022	One	20
27	Biomedical Electronics and Telemedicine	July 11-15, 2022	One	72

S. No	Topic	Duration	No. of Weeks	No. of Participants
28	Counselling for Student Development	July 11-15, 2022	One	26
29	Animation and Presentation Techniques	July 11-15, 2022	One	22
30	Advanced Pedagogy	July 18-22, 2022	One	42
31	Trends in CNC Machining and Metrology	July 18-22, 2022	One	14
32	NBA Process	July 25-27, 2022	Three days	43
33	Empowering Research & Statistical Analysis	July 25-29, 2022	One	25
34	Internet of Things (IoT)	July 25-29, 2022	One	15
35	Innovative Use of Educational Media and Technology	August 01-05, 2022	One	13
36	Teaching using Effective Educational Principles	August 22-26, 2022	One	20
37	LaTeX and Desktop publishing	August 22-26, 2022	One	15
38	Nanotechnology & Applications	August 22-26, 2022	One	21
39	Entrepreneurship Development and Start-ups	August 22-26, 2022	One	29
40	Advanced Pedagogy	August 29-September 03, 2022	One	81
41	Application in power Electronics Engineering	September 05-09, 2022	One	16
42	Geographical Information System Applications in Disaster Management	September 12-16, 2022	One	12
43	OER and Open Education Practices	September 12-16, 2022	One	14
44	Statistics for Data Analytics	September 19-23, 2022	One	12
45	Capacity Building for Teachers	September 19-23, 2022	One	26
46	Electrical & Electronic Systems for Wind & Solar	September 19-23, 2022	One	31
47	Industry 4.0 and Internet of Things (IoT) Applications	September 26-30, 2022	One	22
48	Machine Learning	October 17-21, 2022	One	13
49	Soft Skills for Teachers	October 17-21, 2022	One	15
50	Solar, Wind and Bio Energy Applications	October 17-21, 2022	One	38
51	E-Learning Authoring Tools	October 17-21, 2022	One	25
52	Behavioral Assessment of Students	October 17-21, 2022	One	25
53	Wireless Communication	October 17-21, 2022	One	17
54	Redefining HR for Academic Brilliance	October 31-November 04, 2022	One	15
55	Advances in Materials & Manufacturing	October 31-November 04, 2022	One	29

S. No	Topic	Duration	No. of Weeks	No. of Participants
56	Creating Interactive Video Lessons	October 31-November 04, 2022	One	19
57	Arduino Programming using Tinkercad	October 31-November 04, 2022	One	69
58	NBA Accreditation	November 09-11, 2022	Three Days	59
59	IPR for Teachers	November 14-18, 2022	One	24
60	Advanced Pedagogy	November 14-18, 2022	One	23
61	Guidance and Counselling	November 14-18, 2022	One	24
62	Trends in Mechatronics & Manufacturing	November 14-18, 2022	One	31
63	NAAC Accreditation	November 21-23, 2022	Three Days	24
64	Information security	November 21-25, 2022	One	13
65	Internet Literacy and Multimedia Technologies	November 21-25, 2022	One	11
66	GIS Applications in Urban Infrastructure Management	November 21-25, 2022	One	14
67	Engineering Application using MATLAB Programming	November 21-25, 2022	One	25
68	Refresher course on Energy, Thermal & Automobile Technology	November 28-December 02, 2022	One	29
69	Emotional Intelligence	November 28-December 02, 2022	One	19
70	Biomedical Engineering and IoT in Healthcare	December 05-09, 2022	One	59
71	NBA Accreditation Process	December 05-09, 2022	One	15
72	Smart Manufacturing	December 12-16, 2022	One	21
73	Contemporary Marketing Management	December 12-16, 2022	One	11
74	Immersive Media Technologies- AR/VR	December 19-23, 2022	One	15
75	Implementation of OBE and NEP 2020	December 19-23, 2022	One	39
76	Advanced Software Engineering	January 02-06, 2023	One	22
77	Lifelong Learning and Innovation Skills	January 02-06, 2023	One	37
78	Clean and Green Energy Technology	January 02-06, 2023	One	37
79	ICT for Teaching and Learning	January 09-13, 2023	One	54
80	Research Writing and Reference Management	January 09-13, 2023	One	23
81	Computer Integrated Manufacturing	January 09-13, 2023	One	35
82	Graphical System Design using LabVIEW	January 23-28, 2023	One	69
83	E-Content Development and Learning Management System	January 23-28, 2023	One	14

S. No	Topic	Duration	No. of Weeks	No. of Participants
84	Electric Vehicle Engineering	January 30-February 03, 2023	One	30
85	Trends in 3D Printing & Manufacturing Techniques	January 30-February 03, 2023	One	46
86	Entrepreneurship Development	January 30-February 03, 2023	One	20
87	Advanced Stabilization Techniques in Construction Activities	January 30-February 03, 2023	One	30
88	Employability Skills for Youth	January 30-February 03, 2023	One	9
89	Soft Skills	February 06-10, 2023	One	10
90	Construction Techniques for Earthquake Resistant Structures	February 06-10, 2023	One	64
91	Machine learning for Electrical and Electronics applications	February 06-10, 2023	One	15
92	NBA Accreditation Process	February 06-10, 2023	One	31
93	Work Life Balance	February 13-17, 2023	One	19
94	Refresher course on Refrigeration and Air Conditioning	February 13-17, 2023	One	19
95	Mobile Computing	February 13-17, 2023	One	25
96	Educational Tools for Teaching	February 13-17, 2023	One	29
97	Special Electrical Machines	February 13-17, 2023	One	16
98	E Business Management	February 20-24, 2023	One	15
99	Sensor Applications using my RIO	February 20-24, 2023	One	9
100	Advanced Communication Systems	February 27-March 03, 2023	One	53
101	Leadership for Academicians of Higher Educational Institutions	February 27-March 03, 2023	One	12
102	Marketing Automation	February 27-March 03, 2023	One	10
103	Advances in Welding & Manufacturing	February 27-March 03, 2023	One	45
104	Managing Emotions at Work	March 06-10, 2023	One	6
105	Active and Collaborative Learning	March 06-10, 2023	One	24
106	NBA Process for UG Tier II Programs	March 20-22, 2023	Three Days	18
107	PLC and SCADA	March 27-31, 2023	One	31
			Total	3559

4.2.2 Contact Mode Programmes

The institute has been well-versed in conducting in-person contact mode training programs since its establishment. During the reported period, the institute successfully organized and executed 71 training programs (Table 4) specifically designed for faculty members of polytechnic colleges. These programs attracted a total of 2382 participants who actively participated in the training sessions.

The participants came from various states across the country, and the distribution of participants from each state is illustrated in Fig 2. This shows the wide reach and impact of the training programs, with faculty members from different states benefiting from the institute's expertise and knowledge.

In summary, the institute's proficiency in conducting contact mode training programs has resulted in valuable training opportunities for faculty members from polytechnic colleges, enabling them to enhance their skills and knowledge in their respective fields of expertise.



Glimpses of PDP (Contact mode) Training Programmes

Table 4 List of PDP (Contact Mode) Programmes conducted during 2022- 2023

S. No	Topic	Duration	No. of Weeks	No. of Participants
1	Course File Preparation	April 04-08, 2022	One	26
2	Refresher Course in EEE	April 04-15, 2022	Two	42
3	Environmental Science	April 11-13, 2022	Three Days	21
4	Green Campus Initiative	April 18-20, 2022	One	30
5	Induction of Newly Recruited Teachers	April 18-29, 2022	Two	42
6	MATLAB and Verilog Programming	April 18-29, 2022	Two	45
7	Curriculum Revision Workshop	April 19-29, 2022	Two	29
8	Emerging Pedagogical and Heutagogical Practices	April 25-May 06, 2022	Two	54
9	Industrial Automation	May 09-13, 2022	One	32
10	Fashion Designing and Garment Manufacturing	May 09-13, 2022	One	23
11	Induction of Newly Recruited Teachers	May 09-20, 2022	Two	52
12	Advances in Manufacturing	May 09-20, 2022	Two	50
13	Orientation Course on Modern Trends in Sports	May 09-29, 2022	Three	18
14	Design of RCC and Steel Structures	May 16-27, 2022	Two	41
15	Curriculum Revision Workshop	May 17-27, 2022	Two	37
16	Simulation using ORCAD-PSPICE	May 30-June 03, 2022	One	44
17	Emerging Pedagogical and Heutagogical Practices	May 30-June 10, 2022	Two	60
18	Induction of Newly Recruited Teachers	May 30-June 10, 2022	Two	49
19	Circuit Simulation and PCB Design using Multisim	June 06-10, 2022	One	24
20	Curriculum Revision Workshop	June 06-17, 2022	Two	35
21	Industrial Training Programme for the faculty of EEE/ECE	June 06-24, 2022	Three	32
22	Course File Preparation	June 13-17, 2022	One	32
23	FOSS in Civil Engineering	June 13-24, 2022	Two	45
24	Industrial Automation	June 20-24, 2022	One	32
25	Energy Management and Audit	June 20-24, 2022	One	25
26	Induction of Newly Recruited Teachers-iv	June 20-July 01, 2022	Two	49

S. No	Topic	Duration	No. of Weeks	No. of Participants
27	Refresher Course in Physical Education and Sports Science	June 20-July 01, 2022	Two	40
28	Question Paper Authoring & Student Evaluation	June 27- July 01, 2022	One	46
29	Python Programming with Application to Machine Learning	June 27- July 08, 2022	Two	26
30	Industrial Automation	July 04-08, 2022	One	34
31	Industrial Automation using PLC Pneumatics and Robotics	July 04-08, 2022	One	39
32	Induction Training Programme	July 04-15, 2022	Two	32
33	Digital Content Creation	July 04-22, 2022	One	38
34	E- Mobility	July 11-15, 2022	One	26
35	Competency Based Instruction & Evaluation in Microwave Communication & Antennas Lab	July 11-22, 2022	Two	39
36	Induction of Newly Recruited Teachers	July 11-22, 2022	Two	43
37	Site Management	July 18-22, 2022	One	33
38	CAD and Solid Works	July 18-22, 2022	One	21
39	Python Programming with Application to Machine Learning	July 18-29, 2022	Two	25
40	Course File Preparation	July 25-29, 2022	One	34
41	Induction of Newly Recruited Teachers	August 01-12, 2022	Two	48
42	Open Book Examination	September 05-09, 2022	One	36
43	Open Book Examination	September 12-16, 2022	One	35
44	Induction Training	September 12-23, 2022	Two	17
45	Open Book Examination	September 26-30, 2022	One	24
46	Enabling Entrepreneurship and Start-Up Mindset	October 10-14, 2022	One	31
47	Cloud Computing	October 10-14, 2022	One	13
48	Sophisticated Non-destructive testing in Civil Engineering Practice	October 10-14, 2022	One	14
49	Integrated Library Management Software using KOHA	October 17-21, 2022	One	27
50	Enabling Entrepreneurship and Startup	October 17-21, 2022	One	24
51	Cloud Computing	October 17-21, 2022	One	30
52	Transportation Engineering	October 17-21, 2022	One	33

S. No	Topic	Duration	No. of Weeks	No. of Participants
53	NBA Accreditation	October 26-28, 2022	Three Days	49
54	Industry Training on Automation and Robotics	November 07-12, 2022	One	35
55	Induction Training Programme	November 11-24, 2022	Two	133
56	NBA Accreditation	November 14-18, 2022	One	37
57	Industry Training on Automation and Robotics	November 21-25, 2022	One	29
58	Counselling for Student Development	November 21-25, 2022	One	22
59	Outcome Based Education and Accreditation	November 28 - December 02, 2022	One	16
60	Industrial Internet of Things	December 12-16, 2022	One	27
61	Sustainable Development	December 19-23, 2022	One	11
62	Orientation Programmes on Administrative Financial matters for the Principals of Government Polytechnics in the state of Andhra Pradesh	January 02-04, 2023	Three Days	38
63	Orientation Programmes on Administrative Financial matters for the Principals of Government Polytechnics in the state of Andhra Pradesh	January 05-07, 2023	One	42
64	Induction Training	January 09-20, 2023	Two	33
65	Management & Administrative Procedures for Polytechnics	January 09-13, 2023	One	22
66	Management & Administrative Procedures for Polytechnics	January 17-21, 2023	One	33
67	Neuro Linguistic Programming	February 06-10, 2023	One	8
68	Raspberry Pi and Arduino Interfacing, Electronic Tinkering Workshop	February 06-10, 2023	One	23
69	Structural Analysis using STAAD/Pro	March 06-10, 2023	One	18
70	Project Management using Microsoft Project	March 20-24, 2023	One	9
71	Behavioral Assessment of Students	March 27-31, 2023	One	20
			Total	2382

4.2.3 Engineering College Programmes

The institute has actively focused on enhancing the quality of education in engineering colleges by providing training opportunities for teachers under the sponsored category. Several customized training programs were conducted to cater to the specific needs of different institutions.

Overall, the institute's efforts have resulted in the training of 30,797 technical teachers from engineering colleges through a total of 750 courses till 2022-23. The training programs covered various areas and were designed to address the specific needs of different institutions, ensuring that the faculty members are equipped with the necessary skills and knowledge to excel in their teaching endeavors.

Table 5 List of Engineering College Programmes conducted during 2022- 2023

S. No	Topic	Venue	Duration	No. of Participants
1	Digital Pedagogy	JSSUT, Mysore	April 04-08, 2022	55
2	Student Assessment and Evaluation	The Indian Maritime University, Chennai	April 04-08, 2022	32
3	NBA Accreditation Procedures	DTU, New Delhi	May 09-11, 2022	38
4	NBA Accreditation Procedures	NSUT, New Delhi	May 09-11, 2022	44
5	NBA Accreditation Procedures	DTU, New Delhi	June 06-08, 2022	42
6	NBA Accreditation Procedures	NSUT, New Delhi	June 06-08, 2022	51
7	Student Assessment and Evaluation	The Indian Maritime University, Chennai	June 28 - July 07, 2022	40
8	E-Content Development for Online teaching	The Krishna Institute of Medical Science, Satara, Maharashtra	July 11-16 2022	55
9	Instructional Design and Delivery Systems	RMK Engineering College, Kavaraipettai	July 18-23, 2022	49
10	Instructional Design and Delivery Systems	RMK Engineering College, Kavaraipettai	July 18-23, 2022	43
11	Instructional Design and Delivery Systems	RMK Engineering College, Kavaraipettai	July 18-23, 2022	48
12	Accreditation and Outcome Based Education	Raghu Engineering College, Visakhapatnam	July 19-23, 2022	29
13	Instructional Design and Delivery Systems	Sree Sakthi Engineering College, Coimbatore	August 01-06, 2022	40

14	Resilient Pedagogy and Assessment Reforms	Sri Eshwar College of Engineering, Coimbatore	August 02-06, 2022	48
15	Instructional Design and Delivery Systems	Madanapalle Institute of Technology, Chittoor	September 12-16, 2022	41
16	Instructional Design and Delivery Systems	Sai Rajeswari Institute of Technology, Proddatur	October 10-14, 2022	49
17	Mapping of Course Outcomes with Programme Outcomes	Sri Jayachamarajendra College of Engineering, Mysore	October 10-14, 2022	67
18	Workshop on Mentoring Skills, Tools and Techniques	Kumaraguru College of Technology, Coimbatore	October 27-28, 2022	48
19	Mentoring	Vinayaka Mission's Research Foundation, Salem	November 18, 2022	40
20	Pedagogical Strategies for 21 st Century Learners	Er. Perumal Manimekalai College of Engineering, Hosur	December 05-10, 2022	40
21	Instructional Design and Delivery Systems	Vasireddy Venkatadri Inst. Of Tech., Hosur	December 05-10, 2022	49
22	Pedagogical Strategies for 21 st Century Learners	Er. Perumal Manimekalai College of Engineering, Hosur	January 09-13, 2023	37
23	Pedagogical Strategies for 21 st Century Learners	RVS College of Engineering and Technology, Dindigul	January 18-22, 2023	40
24	Sensor Facing using Arduino and Raspberry PI	St Josephs College of Engineering	January 18-23, 2023	40
25	Pedagogical Strategies for 21 st Century Learners	Er. Perumal Manimekalai College of Engineering, Hosur	January 23-28, 2023	38
26	Data Analytics and Visualization	Madanapalle Institute of Technology, AP	January 23-28, 2023	40
27	Instructional Design and Delivery Systems	RGM College of Engineering & Technology, Nandyal	January 30 – February 22, 2023	41
28	Mentoring	Vinayaka Mission's Research Foundation, Salem	February 16-17, 2023	40
29	New Pedagogical Approaches of HEI in the 21 st Century Assessment	Vignan's Institute of Information Technology, Visakhapatnam	February 20-24, 2023	40
30	Quality Assurance through NAAC Accreditation Process	Veermata Jijabai Technological Institute, Mumbai	February 21-25, 2023	35
31	E-Content Development for Blended learning	Jaypee Institute of Information Technology, Noida	February 22-24, 2023	28
32	Learner Centric Instruction and Assessment	C.V. Raman Global University, Bhubaneswar	March 06-11, 2023	40
33	Instructional Design and Delivery Systems	VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad	March 20-25, 2023	40
Total				1407

4.2.4 Special Training Programmes

During the year 2022-2023, the institute conducted customized programme on “Training Methodologies” from 18-07-2022 to 19-07-2022 and “Upskilling of Officers” from 30-01-2023 to 31-01-2023 for Income Tax Officers. Around 80 participants were benefited through this training programme.

The institute conducted customized programme on “Sensor Facing Using Arduino Raspberry PI” from 18-07-2022 to 19-07-2022 and “Upskilling of Officers” from 18-01-2023 to 23-01-2023 for the students of the St. Joseph College of Engineering. Around 40 students were benefited through this training programme.

4.2.5 High End Workshop Karyashala on “Balance of system of Solar PV

During the year 2022-2023, the institute conducted High End Workshop (Karyashala) Under Accelerate Vigyan In “BALANCE OF SYSTEM OF SOLAR PV” from 30-11-2022 to 07-12-2022 to the PG students, Research scholars and teachers pursuing Ph.D attended the workshop. Around 25 participants were benefited through this Workshop.

4.2.6 NITTT Mentor Orientation Workshops

Mentors are expected to know about inductee teachers' context of learning, teaching practicum requirements and teacher learning aspects such as: contextual knowledge of inductee teacher's online learning of modules, pedagogy of teacher education and of mentoring, knowledge of the teaching profession, the technical education system and teachers effectiveness performance criteria, collection and interpretation of evidence of learning, analyze and reflect on evidence of learning, use effective observation skills and strategies, demonstrate professional leadership and understanding of the potentiality of effective teaching. For this purpose, the institute conducted four mentor orientation workshops. During this year, the institute conducted three workshops (Table 6) and 161 participants were benefited.

Table 6 List of NITTT Mentor Orientation Programmes during 2022-2023

S. No	TOPIC	Duration	No. of Participants
1.	NITTT Mentor Orientation Programme	August 22-26, 2022	161
Total			161

4.2.7 Train the Trainer Programme

A customised ToT programme for Airforce Station Jalahalli, Bengaluru was conducted by NITTTR Chennai during 2nd to 6th August 2022. A 30 participants attended and the focus areas namely Attributes of a Trainer, Training Outcome, Adult Learning, Training Need Analysis, Developing Rubrics, Training Performance and Gap, Design of Training Plan and Learning Material were covered in the programme.

Table 7 List of Training Programmes for Industries

S. No	Title of the Programme	Name of the Government Organization	Duration	No. of Participants
1	Train the Trainer Programme	IAF, Bengaluru	August 2 – 6, 2022	30
Total				30

4.2.8 Skill Development Programme

NITTTR Chennai along with Nachimuthu Polytechnic College, Pollachi conducted 2 days Training of Trainers programme (ToT) programme for Automobile Technician, Electrical and Aari Embroidery during April 2022 for the Master Trainers of Community Skills Schools of Tamil Nadu Rural Transformation Project (TNRTP) / Vaazhnthu Kaattuvom Project (VKP), an innovative Project that aims at rural transformation through strategies that look beyond poverty alleviation by building sustainability and prosperity of rural communities through rural enterprise promotion access to finance and employment opportunities in the selected blocks of Tamil Nadu.



Glimpses of Skill Development Programme

4.2.9 In-Country Programme

National Institute for Technical Training and Research (NITTTR), Chennai conducted an online In-country program on “Automotive Technology Using Virtual TVET” in collaboration with the Colombo Plan Staff College (CPSC), Manila Philippines and Labtech International Ltd., USA from March 21-24, 2022 and totally 22 Participants attended.

4.3 Re-imagining Higher Education under the New Education Policy 2020- Role of Industries and Institutes – Industry Meet

The National Institute of Technical Teachers Training and Research (NITTTR), Chennai, organized an industry meet on “Re-imagining Higher Education under the New Education Policy 2020- Role of Industries and Institutes” at Hosur during the March 2023.

The meet organized jointly with the Hosur Industries Association (HIA), Hosur Industries Skill Development Association, All India Manufacturing Organization (TNSB) delved into the Industry – education partnership to create an employable, skilled workforce. The importance of skill impart and training, and upgradation of skills was underlined.

The event featured panel discussions on topics of higher education curriculum design, industrial training for faculty members, skill development, research and innovation. The discussions highlighted the importance of industry involvement in curriculum design, continues teacher training and development of relevant skills and the role of R&D in driving the growth of a country.



Glimpses of Industry Meet

4.3.1 Industry Meet

The Industry meet initiative by NITTTR Chennai emerges as a beacon of innovation and evolution in a world where the boundaries between academia and industry are becoming increasingly fluid. Organized by the National Institute of Technical Teachers Training and Research (NITTTR) in Chennai on 18.11.2022, this event welcomed esteemed Industry experts for a profound exchange of ideas that could reshape the landscape of technical education.



This event's exchange of ideas and commitment to bridging the gap between education and industry lays the foundation for a transformative partnership. With the potential to shape the future of education and workforce readiness, this collaboration promises to empower the next generation of professionals to excel in an ever-changing world.

4.4 MEMORANDUM OF UNDERSTANDING

NITTTR Chennai actively engages in establishing collaborative relationships with various educational institutions and organizations through Memorandums of Understanding (MoUs). These MoUs facilitate joint efforts in research, consultancy, continuing education, and the implementation of innovative teaching-learning practices. The ultimate goal is to contribute to the development of a knowledge society.

Strategic partnerships forged through these MoUs can lead to enhanced synergies and mutual benefits for all involved parties. Such collaborations contribute to the overall growth and capacity-building of the institutions. By excelling in addressing training needs and sharing best practices, NITTTR Chennai can foster innovation in the field of education.

Moreover, these partnerships offer the opportunity to work closely with governments, academic institutions, and industries, thus expanding NITTTR Chennai's capacity to provide a global platform for knowledge transfer. Through these collaborative efforts, the institute can consolidate its expertise and extend its reach in facilitating knowledge exchange on an international scale.

During the year 2022-2023, NITTTR Chennai signed an MoU with a State University, further solidifying its

commitment to building collaborative relationships and promoting advancements in education and knowledge dissemination.



Signing of MoU with Organizations

Table 8 MoU Signed during 2022-2023

S. No	Name of the Organization / Institute	Date of Signing
1	IES University, Kalkheda, Bhopal, MP	07.04.2022
2	SRM Institute of Science and Technology, Chennai	07.04.2022
3	Radiant Institute of Technology, Hyderabad	06.05.2022
4	Construction Management Training Institute Private Limited - Bangalore	19.05.2022
5	Chennai Institute of Technology (CIT), Chennai	01.06.2022
6	JSSPDA, Mysuru	03.06.2022
7	Hindustan Group of Institutions (HGI), Chennai	15.06.2022
8	Anna University, Chennai	15.06.2022
9	Kamaraj College of Engineering and Technology, Virudhunagar	22.06.2022
10	National Assessment and Accreditation Council (NAAC), Bangalore	01.07.2022
11	Rajalakshmi Institute of Technology (RIT), Chennai	06.07.2022
12	Kingston Engineering College, Katpadi, Vellore	11.07.2022
13	Kalaigarnar Karunanidhi Institute of Technology(KIT), Coimbatore	20.07.2022
14	SRM University, Vijawada, AP	22.07.2022
15	KL Deemed to be University, Vijayawada AP	29.07.2022
16	Infosys Limited, Bangalore	22.08.2022
17	RamaKrishna Mission Students Home – RKMSH, Chennai	07.09.2022
18	Vinayaka Missions Research Foundation Deemed to be University, Salem	15.09.2022
19	Nehru Institute of Technology – NIT, Coimbatore	15.09.2022
20	Seacom Skills University – Kolkatta, West Bengal	07.10.2022
21	Velalar College of Engineering and Technology – VCET, Erode	12.10.2022

S. No	Name of the Organization / Institute	Date of Signing
22	Prince Shri Venkateshwara Padmavathy Engineering College – Chennai.	14.10.2022
23	Nadiampalli Satyanarayana Raju Institute of Technology – Vizag, AP	17.10.2022
24	Seshadri Rao Gudlavaluru Engg College, Gudlavaluru, AP	19.10.2022
25	Sai Rajeswari Institute of Technology – SRIT, AP	20.10.2022
26	Arulmigu Palaniandavar Polytechnic College – APPC, Palani	28.10.2022
27	A Plus Associates LLP, Mumbai	11.11.2022
28	M. Kumarasamy College of Engineering – MKCE, Karur	28.11.2022
29	Indian Institute of Information Technology - Senapati, Manipur	29.11.2022
30	Madurai Kamaraj University – Madurai.	05.12.2022
31	Madanapallae Institute of Technology & Science, Madanapalle	11.01.2023
32	Brakes India Private Limited, Chennai	18.01.2023
33	National Engineering College, Kovilpatti	20.01.2023
34	P.S.R Collge of Engineering, Sivakasi	03.02.2023
35	Kumaraguru College of Technology (KCT), Coimbatore	06.02.2023
36	PSNA College of Engineering and Technology (PSNACET), Dindigul	16.02.2023
37	Indian Society for Technical Education, New Delhi	20.02.2023
38	St. Joseph's College of Engineering, Chennai	23.02.2023
39	Drogo Drones Private Limited, Hyderabad.	03.03.2023
40	Er. Perumal Manimekalai College of Engg & Er. Perumal Manimekalai Polytechnic College, Hosur.	09.03.2023
41	Jaya Group of Institutions, Thiruninravur	21.03.2023
42	Centre of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam, Andhra Pradesh.	23.03.2023

4.5 WEBINARS / WORKSHOPS CONDUCTED

During this year, a total of 17 webinars/workshops on the topic of national, societal and technical importance were conducted (Table 9). A total of 2852 participants from government, government aided, and private institutions, Industries and professionals attended these webinars/workshops.

Table 9 List of Webinars / workshops during 2022-2023

Sl. No.	Title of the Webinar	Resource Person	Date	No. of Participants
1.	Robotic in Healthcare	Dr. M.K.A. Ahamed Khan	29.04.2022	186
2.	Energy Management - Application and Research Opportunities	Shri P. Kandasamy	27.04.2022	94
3.	Energy Healing and Well Being	Dr. S. Renukadevi	21.06.2022	93
4.	Challenges and Opportunities in Hybrid Vehicles	Dr. P. Tamilselvan	22.06.2022	130
5.	Artificial Intelligence for Engineering Applications	Dr. S. Parasuraman	05.07.2022	206
6.	Upcoming Trends in Wearable Electronics and Internet of Things (IoT)	Dr. Loganathan Veeramuthu	15.10.2022	600
7.	Constitution of India - Fundamental Rights of Citizens	Shri M Balasubramanian	26.11.2022	35
8.	Augmented Reality with Unreal Engine	Shri Ashok Kumar	04.01.2023	306
9.	Infusion of Standards and Codes in Engineering Education	Dr. Raju Dandu	10.01.2023	30
10.	Unreal Engine in Architecture, Engineering & Construction	Shri Kishore Seran	25.01.2023	168
11.	Blueprints Overview: Visual Scripting in Unreal Engine	Shri Prakash Ramadass	13.02.2023	138
12.	Building Game Environment in Unreal Engine 5.0	Shri Abhisek Makay	27.02.2023	122
13.	Role of Incubators in Fostering startup	Dr. P. Uma Maheswari	02.03.2023	55
14.	Well-Being and Empowerment – A Mind perspective	Shri K. Vipinendran	08.03.2023	92
15.	Dynamics of Machinery	Shri N Gopinath	09.03.2023	244
16.	An insight into Virtual Production with Unreal Engine	Shri Pradeep	09.03.2023	160
17.	Artificial Intelligence and Industry 4.0.	Er. CH Ravindar Reddy	10.03.2023	193
Total				2852

4.6 SEMINARS CONDUCTED

During this year, a total of 5 Seminar on the topic of national, societal and technical importance were conducted (Table 10). A total of 428 participants attended these Seminars.

Table 10 List of Seminars during 2022-2023

Sl. No.	Title of the Seminars	Coordinator	Date	No. of Participants
1.	Yoga and Wellness	Dr. P. Malliga	21.06.2022	70
2.	Quality Assurance through Accreditation	Dr. G. Kulanthaivel	24.11.2022	22
3.	Breakthrough Technologies for Engineering Education and Research	Dr. G. Kulanthaivel	20.01.2023	191
4.	Sustainable Education and Management	Dr. G. Kulanthaivel	16.02.2023	42
5.	Sustainable Development Goals and Quality Education	Dr. G. Kulanthaivel	17.02.2023	103
Total				428

5.0 CELEBRATION OF NATIONAL DAYS

The institute has celebrated the following National days (Table 11).

Table 11 List of Celebrations during 2022-2023

Sl. No.	Description	Date	Events	Chief Guest
1.	POSH – Prevention of Sexual Harassment	11.04.2022	Webinar on POSH – Prevention of Sexual Harassment	Smt. A.L. Ganthimathi, Advocate, Madras High Court
2.	International Day of Yoga	21.06.2022	1.Mass Demonstration of Yoga 2.Inauguration of Yoga Hall 3.Seminar/ Webinar on “Energy Healing for Well-Being” 4.Lecture cum demonstration on Yoga and Wellness	Presided by Prof. Dr. Usha Natesan Director, NITTTR, Chennai 1. Shri. S. Krishnamurthy, Professor, W.C.S.C, Chennai 2. Prof. Chandra Charu Tripathi, Director, NITTTR, Bhopal 3. Prof. S. Renukadevi, NITTTR, Chennai 4.Dr. K. Jothi Dayanandan, YMCA, Chennai
3.	International year of Millets (IYOM)	29.07.2022	Talk 1 : Nutritional and Health Benefits of Millets	Smt. R. Nisha Devi, Nutritionist

Sl. No.	Description	Date	Events	Chief Guest
4.	Har Ghar Tiranga	13.08.2022 to 15.08.2022	Campaign	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
5.	Independence Day	15.08.2022 (08.08.2022 to 15.08.2022)	08.08.2022 – Essay writing 10.08.2022 – Elocution 11.08.2022 – Quiz 12.08.2022 – Digital Poster making 15.08.2022 – Craft Project	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
6.	International year of Millets (IYOM)	24.08.2022	Talk 2 : Potential of Millets – Lecture series on “Food is Medicine, Medicine is Food”	Dr. N. Kabilan, MD(S), Ph.D, Professor & Head, Department of Sidha, Dr. MGR Medical University, Chennai
7.	Teachers Day	05.09.2022	Felicitation and Address	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
8.	International year of Millets (IYOM)	29.09.2022	Competition - Traditional recipes from Millets	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
9.	International year of Millets (IYOM)	28.10.2022	Quiz	Prof. Dr. Usha Natesan Director, NITTTR, Chennai & Dr.P. Malliga, Prof. & Head, DEMT
10.	Vigilance Awareness Week	31.10.2022 to 06.10.2022	Pledge, Essay writing & Elocution	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
11.	Rashtriya Ekta Diwas (Unity Day)	25.10.2022 to 31.10.2022	Exhibition, Pledge and Unity run	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
12.	National Education Day	11.11.2022	National Level - Article writing Competition on Best Educational Practice	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
13.	Janajatiya Gourav Diwas	15.11.2022	Short film of Shri.Bhagwan Bisra Munda	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
14.	Communal Harmony Campaign week	19.11.2022 to 25.11.2022	Observes Communal Harmony Campaign Week	Prof. Dr. Usha Natesan Director, NITTTR, Chennai
15.	Flag Day	25.11.2022	Contribution of Donation	Prof. Dr. Usha Natesan Director, NITTTR, Chennai

Sl. No.	Description	Date	Events	Chief Guest
16.	Constitution day	26.11.2022	Webinar on Constitution of India - Fundamental rights of Citizen	Shri. M. Balasubramaniam, IPR Attorney & Advocate
17.	Institution Day	21.12.2022	Chief Guest Address	Prof. Dr. Sultan Ahmed Ismail, Soil Biologist & Ecologist
18.	International Year of Millets - Industrial Visit	21.12.2022	Coordinated by Dr. P. Malliga, Prof. & Head, DENT & Dr. Jakuiline Divya Mary, Asst. Prof, CRED	
19.	National Youth Day	14.12.2022	Health camp for the employees of NITTTR, Chennai	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
20.	Republic Day	26.01.2023	Address	Prof. Dr. Usha Natesan Director, NITTTR, Chennai.
21.	International Women's Day	08.03.2023	Chief Guest Address on Women empowerment in Science and Technology, Work life Balance	Ms. P. Bineesha, Executive Director, IIWM
22.	International Year of Millets	29.03.2023	Training program on millet based novel processed food products	Prof. Dr. Usha Natesan Director, NITTTR, Chenna
23.	13 th Inter NITTTR Sports Meet	13.03.2023 to 16.03.2023	NITTTR, Chennai conducted sports events like Carom, Badminton, Carom, Chess, Table Tennis and Volley ball	Dr. R. Natarajan IRS, International athlete

Celebrations of National Days during 2022 – 2023



Independence Day



Teachers Day



Vigilance Awareness Week



World Environment Day



International Year of Millets

Celebrations of National Days during 2022 – 2023



Institution Day



Republic Day



NITTTR Sports Meet



International Women's Day

6.0 CURRICULUM DEVELOPMENT

The Department of Curriculum Development, Planning, and Coordination was established in 1970 at the institute. Its primary objective is to continually revise existing curricula and develop new ones for polytechnic programs, aligning them with the dynamic technical human resource demands of India's growing economy. To achieve this, the institute has devised a comprehensive curriculum development model.

The institute prioritizes the relevance and appropriateness of the curricula, and this is achieved through the active involvement of various stakeholders. Polytechnic teachers, industrial representatives, faculty from higher learning institutions, and officials from the Directorates of Technical Education participate in all stages of curriculum development.

In the year 2022-2023, the department made significant progress in curriculum development and revision. In the neighboring state of Telangana, seven courses were also revised for the polytechnics.

Through these dedicated efforts, the institute is committed to ensuring that the curricula of polytechnic programs remain relevant, comprehensive, and well-suited to meet the needs of the evolving technical landscape and the Indian economy.

7.0 INSTRUCTIONAL MATERIALS DEVELOPMENT

During the academic year 2022-2023, the institute undertook a significant initiative to update course materials in various engineering subjects. The updated materials encompassed a wide range of engineering subjects, ensuring that the content remains relevant, current, and aligned with the latest developments in the respective fields.

Moreover, the institute also focused on improving the pedagogy within these course materials. The teaching methods and instructional strategies were carefully reviewed and updated to enhance the effectiveness of the content delivery by teachers in technical institutions. By doing so, the institute aimed to support and equip teachers with the necessary tools and resources to impart quality education to their students.

The initiative reflects the institute's commitment to continuous improvement and innovation in technical education. By updating and refining course materials and pedagogy, the institute ensures that the knowledge and skills imparted to students align with industry demands and contribute to the overall growth and development of the technical workforce.

8.0 INSTRUCTIONAL MEDIA DEVELOPMENT

The institute has developed, over the years excellent facilities for the production of educational video programmes in the technical education and teacher training. During the year, 70 videos (>5 minutes) and 80 videos (Minimum 30 minutes) were produced for short-course, SWAYAM, ARPIT and MOOC Based courses.

Over the years, the institute has made remarkable strides in establishing excellent facilities for the production of educational video programs in the field of technical education and teacher training. These facilities enable the creation of high-quality and impactful video content that enhances the learning experience for students and educators alike.

During the reported year, the institute displayed its commitment to leveraging technology for education by producing a significant number of educational videos. learning resources, enriching the educational content provided to learners through different online platforms.

In addition to the various educational videos produced for technical education and teacher training, the institute also took a significant step towards inclusivity and accessibility by developing three sign language videos. These videos were created to promote and facilitate the participation of individuals with hearing impairments.

The first sign language video was for "Tamil thaa Vaazhthu," which is the state song of Tamil Nadu, India. The video aimed to enable individuals with hearing challenges to express their reverence and love for their motherland using sign language.

The second sign language video was for "Vande Mataram," the national song of India. By creating this video, the institute sought to foster a sense of national pride and unity among the deaf and hard of hearing community.

The third sign language video was for the "National Anthem" of India, "Jana Gana Mana." This video aimed to provide individuals with hearing impairments the opportunity to participate and pay respect to their country through sign language.

By developing these sign language videos, the institute demonstrated its commitment to inclusivity and making education accessible to all. These videos not only promote a sense of belonging and cultural participation but also contribute to creating a more inclusive and diverse learning environment.

Through these endeavors, the institute demonstrates its dedication to modernizing and enhancing the learning landscape in technical education and teacher training. The educational videos produced contribute to creating engaging and effective learning experiences for learners, thus fostering a culture of continuous learning and professional development.

9.0 RESEARCH AND CONSULTANCY PROJECTS

The following one research (Table 12) and eight consultancy projects (Table 13) sponsored by various funding agencies were undertaken by the faculty members of the Institute.

Table 12 Particulars of Research Projects during 2022-2023

S. No	Title of the Project	Sponsoring agency	Duration	Name of PI	Status	Sanctioned amount (Rs. in lakhs)
1.	Teacher Education under SWAYAM	MoE, New Delhi	From Oct. 2016 to Till date	Director NITTTR, Chennai	Ongoing	495.00
TOTAL						495.00

Table 13 Particulars of Consultancy Projects during 2022-2023

S. No	Title of the Project	Sponsoring Agency	Duration	Name of PI/ Co PI	Status	Sanctioned amount (Rs. in lakhs)
1.	NITTT – Web Portal Development and Maintenance	AICTE, New Delhi	From Oct. 2019 to Till date	Director NITTTR, Chennai	Ongoing	400.00
2.	Eco – Restoration of environmentally degraded tank in Krishnagiri	TNPWD, Chennai	From Mar. 2020 to Till date	Dr. G. Janardhanan Dr. K.S.A.Dinesh Kumar	Ongoing	1.00
3.	Eco – restoration of environmentally degraded tank in Thiruvallur	TNPWD, Chennai	From Mar. 2020 to Till date	Dr. G. Janardhanan Dr. K. S. A. Dinesh kumar	Ongoing	1.00
4.	Testing of Water Quality in various Tanks of Tamil Nadu	TNPWD, Chennai	From Mar. 2020 to Till date	Dr. G. Janardhanan Dr. K.S.A.Dinesh kumar	Ongoing	7.00
5.	Study on Land Use/ Land Cover & Hydro – Geomorphology for NLC	NLC, Neyveli	2022 to Till date	Dr. G. Janardhanan Dr. K.S.A.Dinesh kumar	Ongoing	7.49
6.	ToT Programme for CSS Trainers	TNRTP, Chennai / VKP	From Mar 2022 to April 2022	Prof. Dr. Usha Natesan Dr. K. S. Giridharan	Completed	4.20
7.	Final level Checking – TNUHDB (TNSCB)	TNUHDB, Chennai	2022 to Till date	Dr. G. Janardhanan Dr. K.S.A.Dinesh kumar	Ongoing	0.88
8.	Training on Open Book Examination	NSRIT, VIZAG	From Feb 2023 to Till date	Prof. Dr. Usha Natesan Dr. K.S.Giridharan	Ongoing	1.50
TOTAL						423.07

10.0 NATIONAL PROJECTS

10.1. SWAYAM

SWAYAM is an initiative introduced by the Ministry of Education, Government of India, with the aim of achieving three fundamental principles of Education Policy: access, equity, and quality. The primary objective of this program is to provide the best teaching and learning resources to all, including those who are underserved and disadvantaged.

The essence of SWAYAM lies in bridging the digital divide for students who have not yet been able to benefit from the digital revolution and have been unable to participate fully in the knowledge economy. By offering a diverse range of educational resources online, SWAYAM seeks to empower learners and provide them with equal opportunities for growth and learning.

In this context, **NITTTR Chennai** has been appointed as a National Coordinating Institute for Teacher Training programs and the development of 37 SWAYAM courses, in collaboration with three other NITTTRs located in Chandigarh, Bhopal, and Kolkata.

During the specified period, a total of 14 courses (Table 14) were offered as New or Re-run through SWAYAM, attracting an impressive enrollment of Totally 54,482 participants. Through this initiative, NITTTR Chennai and other participating institutions are playing a crucial role in widening access to quality education and empowering learners across the nation. The project is being coordinated by Dr. P. Malliga, Dr. G. Janardhanan and Dr. V. Shanmuganeethi.

Table 14 List of SWAYAM Courses (Teachers Training) offered by NITTTR's

Sl. No	Name of the Courses	Coordinators Name	No of Enrollments
1	Learning Management System _ MOODLE	Dr. V. Shanmuganeethi	1348
2	Guidance and Counselling	Dr.R.Rajendran	8407
3	Technology Enabled learning	Dr.G.Janardhanan	603
4	Student Assessment	Dr.K.S.A. Dinesh Kumar	1259
5	Student Psychology	Dr. S. Renukadevi	7587
6	Quality Assurance through NAAC Accreditation Process	Dr.E.S.M.Suresh	1276
7	E-content Development	Dr. P. Malliga	1659
8	Learning Management System _ MOODLE	Dr. V. Shanmuganeethi	2667
9	Guidance and Counselling	Dr. R. Rajendran	12276

10	Technology Enabled learning	Dr. G. Janardhanan	1128
11	Student Assessment	Dr. K. S. A. Dinesh Kumar	1918
12	Student Psychology	Dr. S. Renukadevi	10836
13	Quality Assurance through NAAC Accreditation Process	Prof. Dr. E.S.M. Suresh	1331
14	E-content Development	Dr. P. Malliga	2187
Total			54482

10.2. National Initiatives for Technical Teachers Training (NITTT)

In the rapidly changing global landscape, the role of technical education in economic development has become crucial yet challenging. The increasing globalization and competitiveness call for well-qualified engineers and professionals who can address complex problems related to sustainability, environmental degradation, resource depletion, and inclusive growth.

Recognizing the significance of making educational curricula and teacher training relevant to global needs, AICTE (All India Council for Technical Education) has introduced the "National Initiative for Technical Teachers Training (NITTT)." NITTTR Chennai has been designated as the coordinating agency for this policy.

Under NITTT, eight modules have been developed and deployed as stage-I courses on the online platform SWAYAM. These modules cover diverse aspects, including curriculum aspects, professional ethics, communication skills, instructional planning, technology-enabled learning, student assessment, problem-solving, and institutional management.

The initiative was inaugurated by the Hon'ble Minister of Education, Government of India, on 11th January 2020. The first phase focuses on inductee faculty members and teachers with less than five years of teaching experience. Participants register on the NITTT portal, designed and maintained by NITTTR Chennai, and access the online courses on SWAYAM.

An essential feature of this policy is the incorporation of mentor-based training and industrial training alongside the eight modules. The National Testing Agency (NTA) is the nodal testing agency responsible for conducting the proctored final examination, and the certification process is managed through NITTT.

Completing all three phases (MOOCs, Mentor Training & Industrial Training) leads to the final professional certification provided by NITTT. This certification supports faculty members in enhancing their professional skills and is aligned with the 7th Pay Commission Gazette Notification.

During the reporting year, a significant number of participants, 29,064 in total, enrolled in the NITTT portal and commenced their learning journey through the MOOCs available on the SWAYAM platform. This initiative is a significant step towards empowering teachers with updated skills and knowledge to meet the evolving challenges of technical education and contribute effectively to the nation's progress. The project is being coordinated by Dr. G. Janardhanan and Dr. V. Shanmuganeethi.

11.0 SCHEME OF COMMUNITY DEVELOPMENT THROUGH POLYTECHNICS

As a Direct Central Assistance Scheme, the scheme of Community Development Through Polytechnics (CDTP) was implemented during 2009 in 189 polytechnics in the Southern Region. The scheme was sponsored by the Ministry of Education, Govt. of India, New Delhi. During FY 2017-18 the scheme has been transferred from the Ministry of Education (MoE) to Ministry for Skill Development & Entrepreneurship (MSDE). The Scheme aims to uplift the rural youth, the school dropouts, the poor, the downtrodden etc., The number of polytechnics in each State implementing the Scheme of CDTP is presented in the following:

Andhra Pradesh	Telangana	Karnataka	Kerala	Tamil Nadu	Puducherry	Total
29	18	55	31	55	1	189

During this year, a total of 335 participants from Andhra Pradesh state and 168 participants from Telangana state were trained through this scheme.

The major areas of activities under the scheme by the polytechnics are:

- Need Assessment Survey
- Skill Development Training Programmes
- Dissemination and Application of Appropriate Technologies
- Technical and Support Services
- Awareness Programmes

To enable the project personnel associated with the implementation of CDTP scheme in their respective polytechnics, the Centre for Rural and Entrepreneurship Development (CRED) of the institute serves as a resource centre. The Polytechnics carryout the activities based on the Annual Operation Plan (AOP) approved by NITTTTR. It conducts orientation training programmes, workshops and annual review of the scheme to verify Physical Achievement Report (PAR). Besides, the CRED assists the MSDE in preparation of various progress reports and the expenditure related matters.

11.1 Visit to the Tribal Village in Western Ghats

The Director, NITTTR Chennai, Prof. Dr. Usha Natesan visited the Thamaraikulam extension centre of Community Development Through Polytechnic (CDTP) scheme and had an interaction with the tribal beneficiaries of the programme and understood the impact of the scheme that has had on their lives. The Director encouraged them to become job creators and assured that NITTTR Chennai will extend support and guidance in their future entrepreneurial journey.



11.2 Visit to the CDTP Extension Centre

The Director NITTTR Chennai Prof. Dr. Usha Natesan and the Principal Arulmigu Palaniandavar Polytechnic College Palani visited keeranur extension center of Community Development Through Polytechnic (CDTP) scheme and had an interaction with the women beneficiaries of the scheme. The Director told the trainees that steps are being taken by NITTTR Chennai to promote entrepreneurial spirit at the grassroots level which is a must to make the rural economy self-sustaining and vibrant.



12.0 INTEGRATING PERSONS WITH DISABILITIES INTO THE MAIN STREAM OF TECHNICAL AND VOCATIONAL EDUCATION

In accordance with the Persons with Disabilities Act – 1995 and the National Policy of Education (1986), the Ministry of Education, Govt. of India has launched a Centrally Sponsored Scheme for upgrading selected polytechnics in the country to integrate Persons with Disabilities (PWDs) into the main stream of technical and vocational education. (Table 15).

Objectives of the Scheme

- Promote education and training of PWDs in the main stream of technical and vocational education and skill development programmes through formal and non-formal Programme.
- Identify PWDs in the suitable geographic catchments of the polytechnics.
- Identify suitable education and training programmes for PWDs with special emphasis on formal skill development programmes for illiterate youth with disabilities, for promoting wage or self employment as far as possible at their place or residence.
- Design need and competence based curricula for PWDs
- Preparing/ procuring/ developing suitable resources, including physical, human and informational for effective implementation of the programme.
- Develop norms and standards for different phases of the scheme, wherever needed.

- Network and collaborate with resource institutions and other organizations and take their assistance for manpower training, guidance and effective implementation of the scheme.
- Sensitize administrators, planners, faculty, staff and students and community at large about the problems and capabilities of the students with disabilities and to create suitable environment in the polytechnics.
- Develop innovative educational technologies and approaches for education, training and rehabilitation of youth with disabilities.
- Strengthen the existing placement cells of polytechnics to help for providing guidance and counseling and placement of youth with disabilities for wage and self-employment opportunities.
- Evolve suitable methods and practices for monitoring the scheme.

Table 15 List of Polytechnics in the southern region implementing the PWD Scheme

State	Name of Polytechnic
Tamil Nadu	Dr. Dharmambal Govt. Polytechnic College for Women, Chennai
	Government Polytechnic College for Women, Coimbatore
	Arasan Ganesan Polytechnic College, Sivakasi
Puducherry	Women's Polytechnic , Lawspet
Kerala	Government Polytechnic, Kottayam
	Sree Rama Government Polytechnic, Thiriprayar
Karnataka	Smt. L.V. Government Polytechnic, Hassan
	Government Polytechnic for Women, Mangalore
	Government Polytechnic, Belgaum

The Non-Formal courses were conducted in the following areas:

- | | |
|------------------------------------|-------------------------------|
| • Art and Handicraft | • Data Entry Operator |
| • Artificial Jewellery Making | • Desk Top Publishing |
| • Basic Computer Skills | • Knitting & Door Mats Making |
| • Book Binding | • Paper Envelop & Bag Making |
| • Candle Making | • Phenyl Making |
| • Carpentry | • Tailoring and Embroidery |
| • Costume Designing & Dress Making | • Type Writing |

The implementation of the scheme was monitored through constant interaction with the officials of the concerned Polytechnics Project Champions.

13.0 IMPLEMENTATION OF THE USE OF HINDI LANGUAGE

To promote the use of Hindi in the Institute as envisaged by the Official Language Implementation Committee, a number of activities are being implemented during the year by the Hindi Cell of the Institute (Table 16).



Hindi Day Celebrations

Table 16 Details of Hindi Pakhwada & Hindi Day Celebration

Sl. No.	Workshop Title	Date	Venue	No. of Participants	Resource Person/Chief Guest
1.	Hindi Pakhwada & Hindi Day Celebration	01.09.2022 – 14.09.2022 & 14.09.2022	NITTTR Chennai	63	Prof. Dr. Usha Natesan, Director, NITTTR, Chennai
2.	Hindi Workshop	11.07.2022		29	Smt. R. Rekha
3.	Hindi Workshop	19.10.2022		27	Smt. Y. Uma
4.	Hindi Workshop	12.01.2023		20	Shri. S. Thirumalai

14.0 FACULTY ACHIEVEMENTS

The faculty of the Institute served as experts in the curriculum development programme of various autonomous Polytechnics and Engineering Colleges in the southern states in addition to their professional assistance to AICTE, ISTE, MoE, MEA, DOTEs, Deemed Universities and Autonomous Engineering Colleges and Polytechnics either as members of Expert Committees or as Resource Persons.

14.1 Book/Edited Book/Chapters published

S. No	Author's (s) Name	Name of the Chapter	Title of the Book	Publisher and Page No.(ISBN)
1	Hisaindee Muhammad Nadiim., Abdel Isker Mudhawo., Prof. Dr. E.S.M Suresh	Vulnerability Mapping of Residential Buildings with Respect to Cyclonic Wind in Mauritius Using Remote Sensing and QGIS	Multi-hazard Vulnerability, Climate Change and Resilience Building., Lecture Notes in Civil Engineering, (LNCE, Volume 283), Springer Nature	Proceedings of the 2nd International Symposium on Disaster Resilience and Sustainable Development - Volume Springer Book Series &Print ISBN - 978-981-19-4714-8, Online ISBN – 978-981-19-4715-5.
2	Mr.V.Madhumohan, Dr.E.S.M.Suresh	Geo-Factor Inference Modelling with Empirical Susceptibility Weights Approach for GIS-Based Seismic Hazard Mapping of Thiruvananthapuram City"	Civil Engineering book series, Springer Nature	978-981-99-1458-6, 535748_1_En, (Chapter 35), Lecture Notes in Civil Engineering, Vol. 332, Manish Shrikhande et al. (Eds): Proceedings of 17th Symposium on Earthquake Engineering (Vol. 4)
3	Sivasankar. P Rathy .G.A John Deva Prasanna .K Karthikeyan Perumal Gunasekaran .K & Sivapragash .C	Chapter Blockchain based secured IoT enabled smart grid system	Book "Block chain Technology for Smart Grids: Implementation, management and security	IETJuly 2022, p. 115 – 144. Book DOI: 10.1049/PBPO211E ISBN:9781839535352
4	Dr. R. Rajendran & Prassana Prabhu	Study on Identification for Areas on Students' Counselling in Technical Institutions'	Emerging Issues in Business and Social Sciences, Bloomsberg, New Delhi	ISBN: 978-93-56403-02-4, PP:162-171 Jan.2023

14.2 Papers published in Journals

S. No	Author's (s) Name	Title	Name of Journal	Vol. (Issue) No.	Year
1	Arul Kumaravelu, E.S.M.Suresh	Industry Expectations in Competencies of Fashion Design Graduates – A Comparative Study	<i>International Journal of Mechanical Engineering</i>	Vol No.: 7 Issue No.: 1 PP: 90-96	2022

2	Beena, B. R., & Suresh. E. S. M	Analysis of learning outcomes of Civil Engineering students of Kerala State using dimension reduction Techniques	<i>Journal of Engineering Education Transformations</i>	Vol No.: 35 Issue No.: 1 PP: 120-128	2022
3	Hemabala J, E.S.M.Suesh	Effectiveness of Video Lessons using Mobile Learning Technology	<i>Journal of Engineering Education Transformations</i>	Vol No.: 36 Issue No.: 2 PP: 156-166	
4	Beena B R, E.S.M.Suesh	Competency Evaluation using Graduate Attributes – A Comparative Study	<i>Journal of Engineering Education Transformations</i>	Vol No.: 36 Issue No.: 2 PP: 202-206	2023
5	Ulagamuthalvi, V., Kulanthaivel, G., Balasundaram, A., Sivaraman, A.K.	<i>Breast Mammogram Analysis and Classification Using Deep Convolution Neural Network</i>	<i>Computer Systems Science and Engineering</i>	43(1), pp. 275–289	2023
6	Swagata Das and Malliga P	Using LMS to Digitally Empower the Teaching and Learning Processes in Indian Education	<i>Special Issue on 'NPE 2020' of 'Journal of Engineering & Technology Education,</i>	Vol. 16, No. 1 & 2, (January–June 2022 & July–December, 2022) (ISSN 2229 – 631X)	2022
7	Sivasankar. P Rathy .G.A John Deva Prasanna K. John Aravindhar .D	An efficient Q Learning approach for the prediction and analysis of COVID-19 and its prevention	<i>Gradiva Review-Journal</i>	Volume 8 Issue 11 2022 ISSN No: 0363-8057 DOI:10.37897.GRJ.2022.V8I8.22.50408 Nov 2022, p. :25 to 45	2022
8	Senthil Kumar Marudaipillai, Balasubramanian Karupudayar Ramaraj, Ravi Kumar Kottala & Maheswari lakshmanan	Experimental study on thermal management and performance improvement of solar PV panel cooling using form-stable phase change material	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Vol No.: 45 Issue No.: 1 PP: 160-177	Nov 2022
9	Senthil Kumar, M. and Boopathi, K	Review on Water Pumping using Wind Energy.	International Journal of Science & Research (ISSN: 2319-7064)	Vol No.: 11 Issue No.: 11 PP: 327-330	2023
10	Senthil Kumar, M.	Energy Conservation Study on Internal Combustion Engines.	International Journal of Science & Research (ISSN: 2319-7064),	Vol No.: 11 Issue No.: 8 PP: 1248-1250	2022
11	Arivalagan S, Dinesh Kumar K S A	Experimental Study on Light Weight Concrete by Using Light Expanded Clay Aggregate (LECA)	International Journal for Research in Applied Science & Engineering Technology	Vol No.: 10 Issue No.: XII PP: 1091-1094	2022

12	Arivalagan S, Dinesh Kumar K S A, Paul Makesh A	Experimental Study on Steel Fiber Reinforced Concrete	International Journal for Research in Applied Science & Engineering Technology	Vol No.: 10 Issue No.: XII PP: 1472-1476	2022
13	M. Jothilingam, V. Preethi, P. Sri Chandana, G. Janardhanan	Fabrication of sustainable green bricks by the effective utilization of tannery sludge as main additive	Structures	Volume 48, 2023, Pages 182-194, ISSN 2352-0124	2022
14	Pauline T., Sangeetha P., Janardhanan G., Ashok V. (2022)	Experimental & analytical behaviour and performance of structural joints retrofitted with woven wire mesh concreting under reversed cyclic loading	European Journal of Environmental and Civil Engineering,	Volume 26, 2022 - Issue 16 DOI: 10.1080/1964818 9.2022.2112623.	

14.3 Research Publications in National / International Conference (Presented)

S. No.	Author's (s) Name	Title	Name of the Conference
1	E.S.M.Suresh, B.R.Beena	"Analyzing the Employability skills of Engineering graduates using AHP Techniques - A case study of Kerala state in India", Transforming learners to Transform Our World	Conference 2022, Canadian Engineering Education Association, Lassonde School of Engineering, York University, Toronto, Ontario
2	G. Kulanthaivel and V. Ulagamuthalvi*	Wearable Electronics and Internet of Medical Things (IoMT) in Industrial Revolution 4.0 era	18 th International Conference of Telemedicine Society of India (TELEMEDICON 2022) at Kochi
3	Malliga P, Janardhanan G , & Dinesh Kumar K S A	Experiential Learning using Virtual Reality in Infrastructure and Construction Engineering Education	2nd International Conference on Best Innovative Teaching Strategies, ICON-BITS 2023
4	P.Jakulin Divya Mary	Challenges Faced by Healthcare HR Post-Covid	20th AIMS International Conference on Management
5	Bogireddy Chandra*, Vinod Kumar Adigopula, Ankit Garg, G.V. Ramana, Yanning Wang, Chandresh. H. Solanki	Relevance of finite element analysis to simulate oedometer test for estimating the compressibility of soil	Advances in Construction Materials & Management (ACMM)

14.4 Patents Awarded

S. No.	Description	Author's (s) Name	Date of Issue
1	Design of Self-Navigated AI Based Smart Umbrella	Dr. Vinod Kumar Adigopula and others	25.01.2023

15.0 ACHIEVEMENTS AND CONTRIBUTIONS OF THE DIRECTOR

15.1 Honours and Awards

International Recognitions

- Attended the **International Seminar on Leadership & Strategy for Sustainable TVET**, Colombo Plan Staff College (CPSC) in collaboration with the Office of the Vocational Education Commission (OVEC), Ministry of Education, Government of Thailand, **Thailand**, 2022
- Participated in the collaborative Regional Program on **Leadership for Sustainable TVET and Senior Executives' Conference (SEC) for CPSC Strategic Plan 2023-2028** conducted by the Colombo Plan Staff College (CPSC) in collaboration with the Office of the Vocational Education Commission (OVEC), Ministry of Education, Government of Thailand, **Thailand**, 2022

Member of the National Initiatives

- **NITTTR Chennai** is nominated by Central Information Commission, New Delhi for conducting for Institute Transparency Audit of all the public authorities of Ministry of Education, New Delhi from 2021 to till date

Member of the Esteemed Policy Making Committees

- **Member of the State Board of Technical Education and Training (SBTET), Tamil Nadu**, 2021-2024
- **Member** in the meeting to discuss the report of the **Committee of Experts constituted for restructuring/ revamping** of the technical teacher training sector and four National NITTTRs under the Chairmanship of Honorable Education Minister, New Delhi 2022
- **Member of the Governing Board, DELNET**, New Delhi, 2022-2024
- **Special Invitee for the Committee** to prepare the **Guidelines for Induction, Structured Training and Mentoring of Faculty for their emerging and multidimensional role in HEIs**, All India Council for Technical Education (AICTE), New Delhi, 2022
- **Member of the Skill Council, Shri Vishwakarma Skill University**, Haryana, 2022 - 2024
- **Member of the Programme Advisory Committee (PAC)** for peer review of the proposals received under Consolidation of University Research for Innovation and Excellence (CURIE) Programme, **Ministry of Science and Technology**, Government of India, 2022 - 2025
- **Member of the Technical Advisory Committee** for the evaluation of the Central Sector Schemes of the Department of Science and Technology, **NITI Aayog**, Government of India, 2022
- **Member of the State Level Committee** on Affiliation for Diploma Level Institution, **Government of Tamil Nadu**, Chennai, 2021-2024

- **Member of the All India Board of Technician Education of All India Council for Technical Education (AICTE)**, New Delhi, 2021- 2023
- **Member of the Governing Council** of the **National Instructional Media Institute (NIMI)**, Chennai under the Ministry of Skill Development and Entrepreneurship, New Delhi, 2021 - to till date
- **Member of the General Body** of the **National Instructional Media Institute (NIMI)**, Chennai under the Ministry of Skill Development and Entrepreneurship, New Delhi, 2021 - to till date
- **Member of the Executive Committee** of the **All India Council for Technical Education (AICTE)**, New Delhi, 2021 - 2024
- **Member of the Research Board** of the Centre for Research, **Anna University**, Chennai, 2021-2024
- **Member of the Executive Committee** of the Centre for Research, **Anna University**, Chennai, 2021- 2024

Member of the National Committees

- **Expert Committee Member** to review the Anomalies in Granting approval to State Private Universities and Institution Deemed to be Universities, **AICTE**, New Delhi, 2023
- **Expert Committee Member** for shortlisting the Applications received for the recruitment of Group A (Advisor-II and Director) Officers, **AICTE**, New Delhi, 2023
- **Expert Committee Member** to suggest ways to strengthen the Government/ Government aided Engineering Colleges started before 1980, **AICTE**, New Delhi, 2023
- **Search Committee Member** to recommend the Governing Council members, **NBA**, New Delhi, 2023
- **Expert Committee Member** to assess the application for National Technical Teachers Award 2022, **AICTE**, New Delhi, 2022
- **Visitor Nominee in the Selection Committee** to appoint the Faculty Members and Statutory Posts, **Central University of Tamil Nadu**, Thiruvavur, 2022-2025
- **Member of the Selection Committee** to appoint the Group A Officers (Advisor II and Director), **AICTE**, New Delhi, 2022
- **Member of the Expert member** to finalize the proposals for new redesigned ATAL FDPs/CPDPs for the A/Y 2022-23, **AICTE**, New Delhi, 2022
- **Member of the Expert Committee** to evaluate the proposal from Indo Universal Collaboration for Engineering Education (IUCEE) to grant recognition of IUCEE International Engineering Education Certification Program, **AICTE**, New Delhi, 2022

- **Member of the Technical Advisory Committee** for Outcome-Based Evaluation and Assessment, **Shri Vishwakarma Skill University**, Haryana, 2022
- **Expert Committee Member** to rationalize the nomenclatures of Diploma Courses recommended by the All India Board of Technician Education (AIB-TE), **AICTE**, New Delhi, 2022-2023

PUBLICATIONS/ PATENTS

National and International Journals	:	136
h-index	:	23
i10-index	:	51
Citations	:	2709
Books	:	17
National Conferences	:	43

Patent Granted

Malathi Kanagasabai, **Usha Natesan**, P.Sandeep Kumar, S.Padmathilagam, S.Shanmathi, M.Gulam Nabi Alsath, N.Rajesh, R.Shini and P.Udaya Prasanth, **Multiband Pattern Reconfigurable Antenna: A Method and Device Thereof**, India, Patent No.400846 dt. 05.07.2022

Chapter in Books

1. K.Manikanda Bharath, R.Ruthra, Judith D.Silva, Sathya Velusamy, **Usha Natesan** and Muhammad Zaffar Hashmi, Green Treatment Technologies for Microplastic Pollution in **Microplastic Pollution Environmental Occurrence and Treatment Technologies - Emerging Contaminants and Associated Treatment Technologies**, Springer Nature Switzerland AG, 2022, 467-481, ISBN 978-3-030-89219-7.

International and National Journals

1. K.Manikanda Bharath, **U.Natesan**, S.Chandrasekaran, S.Srinivasalu, K.Abdelrahman, T.Abu-Alam and M.Abioui, Geochemometrics of Primordial Radionuclides and their Potential Radiological Risk in Coastal Sediments of Southeast Coast of India, Journal of Radiation Research and Applied Sciences, (Elsevier), 2023 (Accepted) (IF: 1.77)
2. K.Manikanda Bharath, A.L.Muthulakshmi and **Natesan Usha**, Microplastic Contamination Around the Landfills: Distribution, Characterization and Threats - A Review, Current Opinion in Environmental Science & Health (Elsevier), 2022, 1-27. (IF: 8.40)

3. Manikanda Bharath Karuppasamy, **Usha Natesan**, Shankar Karuppannan, Lakshmi Narasimhan Chandrasekaran, Sajjad Hussain, Hussein Almohamad, Ahmed Abdullah Al Dughairi, Motrih Al-Mutiry, Ibrahim Alkayyadi and Hazem Ghassan Abdo, Multivariate Urban Air Quality Assessment of Indoor and Outdoor Environments at Chennai Metropolis in South India, Atmosphere (MDPI) 2022, 13, 1627. (IF: 3.11)
4. Manikanda Bharath Karuppasamy, **Usha Natesan**, Karthik Ramasamy, Hariharan Govindasamy and Srinivasalu Seshachalam, Seasonal Variation of Atmospheric Total Gaseous Mercury and Urban Air Quality in South India, Global NEST Journal, 2022, 24, 3, 370-381.
5. K.Manikanda Bharath, **Usha Natesan**, V.Nithya, V.Thangam, P.Balamadeswaran, S.Chandrasekaran, S.Srinivasalu, Determination of Natural Radionuclides and Radioactive Minerals in Urban Beaches Of Northeast Coast of Tamil Nadu, India with Geospatial approach, Journal of Radioanalytical and Nuclear Chemistry (Springer), 2022, 331, 2005-2018. (IF:1.371)

MEMBER OF THE ADVISORY/ ORGANIZING COMMITTEES OF INTERNATIONAL AND NATIONAL CONFERENCES/ EVENTS

Member of the Advisory Committees

- International Conference on “**Emerging Trends in Online Teaching, Assessment and Learning (ETOTAL)**”, State Project Directorate Rashtriya Uchchatar Shiksha Abhiyan, Tamil Nadu, February 2023
- **Tech Know 2022** - Empowering Engineers, All India Manufacturers’ Organisation (AIMO) and Anna University, Chennai, April 2022
- **International Conference on Recent Advances in Water Resources, Environment and Geomatics Engineering (ICRAWEG 2022)**, National Institute of Technology Raipur, Raipur, March 2022

INVITED LECTURES

S. No.	Title	Details
1.	India's Experience on Digital and Virtual TVET	Regional Program on Leadership for Sustainable TVET and Senior Executives'- Conference (SEC) for CPSC Strategic Plan 2023-2028 , Colombo Plan Staff College (CPSC) in collaboration with the Office of the Vocational Education Commission (OVEC), Ministry of Education Thailand, Bangkok, Thailand, 2022
2.	New Age Education	Kumaraguru College of Technology, Coimbatore, 2022

16.0 VISIT OF Eminent / Distinguished Experts

Prof. Anil. D. Sahasrabudhe, Chairman, AICTE visited NITTTR Chennai and interacted with the faculty members of NITTTR Chennai on April 2022



Ms. J. Innocent Divya I.A.S. Managing Director, Tamil Nadu Skill Development Corporation, Government of Tamil Nadu visited NITTTR, Chennai.



In its pursuit to achieve excellence in imparting technical education training of global standards and to bridge the gap between academics and the industry NITTTR Chennai has recently signed MoU with Brakes India Limited Chennai. The President Mr. Vasudevan, Sr. VP Mr. Mathusoothan and VP Mr. Krishnamurthy visited NITTTR Chennai and interacted with Director Prof. Dr. Usha Natesan and team on 08.02.2023 to strengthen the ties.



17.0 ACKNOWLEDGEMENT

The institute would like to place on record its deep sense of appreciation and gratitude to:

- I. The Government of India, Ministry of Education (Department of Higher Education) for its continued support to all its programmes and activities;
- II. The Government of India, Ministry of External Affairs for supporting our Overseas Training Courses (OTC); and ITEC programmes;
- III. The Board of Governors and its sub-committees for their contribution to the Governance of the Institute;
- IV. The State Governments of Andhra Pradesh, Telangana, Karnataka, Kerala and Tamil Nadu and Union Territory of Puducherry for their continued cooperation by deputing teachers for various programmes and activities of the institute;
- V. Industries and their managements for their cooperation and assistance in conducting various programmes effectively;
- VI. The faculty and staff members of the institute for their hard work and dedication in making the reporting year an eventful one;
- VII. The Press, All India Radio, Doordarshan for publicity and support for the institute's programmes and activities.

18.0 BOARD AND SUB-COMMITTEES

The composition of the Board of Governors, Finance Committee, Academic Council and other various committees of the Board are given below

18.1.1 NITTTR CHENNAI SOCIETY AND BOARD OF GOVERNORS (As on 31.03.2022)

Chairman

Prof. Dr. V.S.S. Kumar

Chairman, BOG of NITTTR, Chennai

Member-Secretary

Dr. Usha Natesan

Director, NITTTR, Taramani, Chennai.

Members

**Nominee of the
Department of Education and
Finance, Government of India**

Joint Secretary (NIT)

Department of Higher Education
Ministry of Education, Government of India
Shastri Bhavan, New Delhi - 110 001.

Joint Secretary and Financial Advisor

Integrated Finance Division
Department of Higher Education,
Ministry of Education, Government of India
Shastri Bhavan, New Delhi – 110 001.

Representative of the AICTE

Dr. Neeraj Saxena

Advisor-I
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi - 110 001

NITTTR Faculty Representative

Dr. G. Kulanthaivel (Till 17.02.2022)

Professor
Department of Electrical, Electronics &
Communication Engineering
NITTTR, Chennai – 600 113.

Dr. R. Rajendran (From 18.02.2022)

Professor
Centre for Educational Management and Applied
Science
NITTTR, Chennai – 600 113.

Five Director of Technical Education

Vacant

Two Industrialists / Technical Professionals

1. Vacant

2. Vacant

FINANCE COMMITTEE

Chairman

Prof. Dr. V.S.S. Kumar

Chairman, BOG of NITTTR, Chennai

Member-Secretary

Dr. Usha Natesan

Director, NITTTR, Taramani, Chennai.

**Members Nominee
of the
Department of Education and Finance,
Government of India**

Joint Secretary (NIT)

Department of Higher Education
Ministry of Education, Government of India
Shastri Bhavan, New Delhi - 110 001.

Joint Secretary and Financial Advisor

Integrated Finance Division
Department of Higher
Education,
Ministry of Education, Government of India
Shastri Bhavan, New Delhi – 110 001.

C. SUB COMMITTEES OF THE BOARD AND OTHER COMMITTEES

1. FACULTY AND GROUP 'A' SELECTION COMMITTEE [As per AICTE Norms]

Members

- Chairperson, BoG of NITTTR, Chennai
- Director, NITTTR, Chennai
- Head of the Department / Centres /Extension Centres / (in case where the HoD / HoC / Extension Centres is not in a Professor range, then the Senior most Professor of the concerned subject in NITTTR, Chennai)
- One nominee of the AICTE
- One nominee from the Ministry of Education
- Two external subject experts
- An academician representing SC / ST / OBC / Minority / Women / Differently abled categories

2. BUILDING COMMITTEE

Chairman

Director

Directorate of Technical Education (DoTE),
53, Sardar Patel Road,
Guindy, Chennai – 600025.

Members

Chief Engineer,

Southern Zone-1, Central PWD,
Chennai – 600 006.

Chief Engineer,

(Technical Education Division)
Public Works Department
Government of Tamil Nadu
Sardar Patel Road,
Chennai-600 025.

Member / Secretary

Director,

NITTTR, Chennai – 600 113.

3. DEPARTMENTAL PROMOTION COMMITTEE

Chairman	Professor nominated by the Director – Chairperson
Members	One Faculty Member nominated by the Director Two external Experts not below the pay level of 7 nominated by the Director
Member Convener	One member from SC /ST not below the pay level of 12 Sr. Administrative Officer, NITTTR Chennai

4. ACADEMIC COUNCIL

Chairman	Director NITTTR, Chennai-600 113.
Members	HoDS/HoCS Two Eminent Persons from the Field of Technical Education One Senior Professor to be nominated by Director will be Secretary of the Academic Council

5. BOARD OF STUDIES FOR ALL ACADEMIC PROGRAMMES

1. Director, NITTTR Chennai	-	Chairman
2. All Professors	-	Member
3. All Overseas Training Course Coordinators	-	Member
4. Special Invitees (Faculty members on need)	-	Member

6. GRIEVANCE REDRESSAL COMMITTEE

Dr. S. Renukadevi Professor & Head Dept. of Education	Chairperson
Dr. G. Kulanthaivel Professor & Head, Dept. of Electrical, Electronics & Communication Engineering	Member (till 04.07.2022)
Dr. M. Senthilkumar Professor Dept. of Mechanical Engineering	Member (till from 04.07.2022)
Dr. V. Shanmuganeethi Professor & Head	Member

Dept. of Computer Science & Engineering
[Liaison Officer for SC/ST]

Shri A.P. Felix Arokiyaraj,
Assistant Professor
Dept. of Educational Media & Technology

Member

Dr. S. Rajasekar
Research Assistant
Department of Curriculum Development
Planning & Coordination

Member

Sr. Administrative Officer

Member

Accounts Officer

Member

Shri L.P. Elbin, Editor (ETV)

Member

Shri S. Nagappan, Technician Gr.II

Member

7. INTERNAL COMPLAINT COMMITTEE (ICC) FOR PREVENTION OF SEXUAL HARASSMENT OF WOMAN AT WORK PLACE

Dr. P. Malliga
Professor & Head
Department of Educational Media & Technology,
NITTTR Chennai

Chairman

Smt. A.L.Ganthimathi
Advocate
No.24/1, Perumal Koil Lane,
Karpagataru Villa,
Kotturpuram,
Chennai – 600 085.

Member

Dr. R. Santhakumar
Professor
Department of Civil & Environmental Engineering
NITTTR Chennai

Member

Smt. K. Satyapriya
Section Officer Gr.II
Administration, NITTTR Chennai

Member

8. CHIEF VIGILANCE OFFICER

Dr. R. Santhakumar
Professor,
Department of Civil & Environmental Engineering
NITTTR, Chennai

9. PUBLIC INFORMATION OFFICER

Dr. R. Ravichandran
Sr. Librarian
Resource Centre, NITTTR Chennai

10. RESOURCE CENTRE

Dr. R. Ravichandran
Sr. Librarian

11. WARDEN

(Trainees Guest House – I & II and International Guest House)

Dr. S. Rajasekar
Research Assistant

12. PARTICULARS OF COMMITTEE MEETINGS

	No.	Date	Venue
Board of Governors	48 th	19.05.2022	NITTTR, Chennai
	49 th	23.09.2022	NITTTR, Chennai
	50 th	23.01.2023	NITTTR, Chennai
Finance Committee	46 th	19.05.2022	NITTTR, Chennai
	47 th	23.09.2022	NITTTR, Chennai
	48 th	23.01.2023	NITTTR, Chennai
Annual General Meeting of NITTTR Chennai Society	17 th	23.01.2023	NITTTR, Chennai

LIST OF FACULTY

SI No	Name of the Faculty	Designation / Department / Centre/ Extension Centre
01	Dr. Usha Natesan	DIRECTOR
02	Dr. C.R. Nagendra Rao	Professor & Head, Department of Civil & Environmental Engineering
03	Dr. E.S.M. Suresh	Professor, Department of Civil & Environmental Engineering Head, Department of Curriculum Development, Planning and Coordination
04	Dr. S. Renukadevi	Professor & Head, Department of Education
05	Dr. G. Kulanthaivel	Professor, Department of Electrical, Electronics & Communication Engineering Head, Centre for International Affairs
06	Dr. R. Santhakumar	Professor, Department of Civil & Environmental Engineering
07	Dr. R. Rajendran	Professor & Head, Centre for Educational Management & Applied Science
08	Dr. P. Malliga	Professor, Department of Computer Science & Engineering Head, Department of Educational Media & Technology
09	Dr. G.A. Rathy	Professor & Head, Department of Electrical, Electronics & Communication Engineering
10	Dr. K.S. Giridharan	Professor, Department of Education Head, Centre for Rural & Entrepreneurship Development
11	Dr. S. Somasundaram	Professor & Head, Department of Mechanical Engineering
12	Dr. Umasanker Sahu	Professor, Department of Electrical, Electronics & Communication Engineering (Posted as Head i/c, Extension Centre Hyderabad)
13	Dr. V. Shanmuganeethi	Professor & Head, Department of Computer Science & Engineering
14	Dr. G. Janardhanan	Professor, Department of Civil & Environmental Engineering Head, Centre for Academic Studies & Research
15	Dr. M. Senthilkumar	Professor, Department of Mechanical Engineering
16	Dr. K.S.A. Dinesh Kumar	Professor, Department of Civil & Environmental Engineering Estate Officer
17	Dr. P. Sivasankar	Professor, Department of Electrical, Electronics & Communication Engineering
18	Er. V. Sivakumar	Associate Professor, Department of Mechanical Engineering
19	Shri A.P. Felix Arokiyaraj	Assistant Professor, Department of Educational Media and Technology
20	Dr. Vinod Kumar Adigopula	Assistant Professor, Department of Civil & Environmental Engineering
21	Dr. P. Jakulin Divya Mary	Assistant Professor, Centre for Rural & Entrepreneurship Development
22	Dr. Seshu Babu Pulagara	Assistant Professor, Department of Computer Science & Engineering (Posted as Head i/c, Extension Centre Kalamassery)
23	Er. M. Sutaarson	Assistant Professor, Centre for Educational Management & Applied Science (Posted as Head i/c, Extension Centre Bengaluru)

REPORT ON ACCOUNTS 2022-23

**As Audited by the
PRINCIPAL DIRECTOR OF AUDIT (CENTRAL), CHENNAI**

**Separate Audit Report of the Comptroller & Auditor General of India on the Accounts
of National Institute of Technical Teachers Training and Research, Chennai for the
year ended 31 March 2023**

We have audited the attached Balance Sheet of National Institute of Technical Teachers Training and Research, Chennai as at 31 March 2023, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. The audit has been entrusted for the period up to 2022-23. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2 This Separate 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 and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any are reported through Inspection Report/CAG's Audit Reports separately.

3 We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4 Based on our audit, we report that:

- i. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the format approved by Ministry of Education (erstwhile Ministry of Human Resource Development).
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by National Institute of Technical Teachers Training and Research, Chennai as required in the rules and regulations of the Institute in so far as it appears from our examination of such books.

iv. We further report that:

A. Effect of Revision in Accounts

Accounts of the Institute were revised based on audit observations. As a result of revision, Assets and Liabilities decreased by ₹15.82 lakh and deficit increased by of ₹48.89 lakh

B. Grants-in-aid

Out of the Grants-in-aid of ₹38.00 crore received for the year and ₹14.51 crore being unspent balance of the previous year, the Institute could utilize ₹30.41 crore leaving a balance of ₹22.10 crore as unutilized grant as on 31 March 2023.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.
- vi In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.
- a. In so far as it relates to the Balance Sheet, of the state of affairs of National Institute of Technical Teachers Training and Research, Chennai as at 31 March 2023; and
- b. In so far as it relates to Income & Expenditure Account, of the deficit for the year ended on that date.

for and on behalf of the C&AG of India

Place: Chennai - 18

Date. 06.07.2023



6.7.23

Principal Director of Audit (Central), Chennai

Annexure

1. Adequacy of Internal Audit System:

Internal audit was conducted by a Chartered Accountant Firm for the year 2022-23

2. Adequacy of Internal Control System:

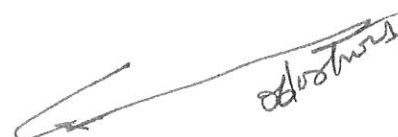
Internal control needs to be strengthened as Consolidated Fixed Assets Register was not maintained and Physical verification of Fixed Assets and Inventories was not carried out for 2022-23

3. System of Physical verification of Fixed Assets and Inventories:

Physical verification of Fixed Assets and Inventories was not carried out for 2022-23

4. Regularity in payment of statutory dues:

The Institute was regular in payment of statutory dues.



Director/ CE

**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH
TARAMANI, CHENNAI – 600 113**

**ANNUAL ACCOUNTS
2022-23**

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, TARAMANI, CHENNAI - 600113
BALANCE SHEET AS AT 31.03.2023

SOURCES OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2022-23	Previous Year 2021-22
CORPUS/CAPITAL FUND			
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	1	(46,24,21,176.15)	(47,88,87,691.21)
CURRENT LIABILITIES & PROVISIONS	2	23,11,38,831.63	21,85,40,309.85
	3	1,49,43,49,558.58	1,41,13,05,137.08
TOTAL		1,26,30,67,214.06	1,15,09,57,755.72

APPLICATION OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2022-23	Previous Year 2021-22
FIXED ASSETS			
Tangible Assets		37,49,71,027.69	35,50,00,343.69
Intangible Assets	4	34,97,475.80	12,20,287.80
Capital Works-In-Progress		18,84,95,065.00	29,60,18,972.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS			
Long Term	5	17,32,42,084.00	
Short Term			
INVESTMENTS- OTHERS			
CURRENT ASSETS	6	42,87,13,868.85	49,16,54,711.49
LOANS, ADVANCES & DEPOSITS	7	9,41,47,692.72	70,63,440.74
	8		
TOTAL		1,26,30,67,214.06	1,15,09,57,755.72

SIGNIFICANT ACCOUNTING POLICIES

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CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31.03.2023

Particulars		Schedule	Current Year 2022-23	Previous Year 2021-22
INCOME:				
Academic Receipts		9	8,16,401.00	5,14,917.00
Grants / Subsidies		10	27,40,99,995.04	31,26,05,387.67
Reserves & Surplus utilized for Revenue Expenditure				6,20,57,592.45
Income from investments		11	-	7,83,557.00
Interest earned		12	608.00	28,08,298.93
Other Income		13	52,81,339.20	39,53,265.02
Prior Period Income		14	15,79,890.86	(8,57,10,807.45)
TOTAL (A)			28,17,78,234.10	29,70,12,210.62
EXPENDITURE				
Staff Payments & Benefits (Establishment expenses)		15	19,27,63,964.00	1,38,23,42,086.00
Academic Expenses		16	15,87,764.00	14,95,022.00
Administrative and General Expenses		17	7,03,78,046.04	3,18,14,080.19
Transportation Expenses		18	9,63,544.00	7,47,313.30
Repairs & Maintenance		19	43,45,540.00	25,22,992.10
Finance costs		20	-	-
Depreciation		4	2,36,70,509.00	2,04,54,426.05
Other Expenses		21	-	-
Prior Period Expenses		22	16,19,013.00	2,46,558.78
General Expenses				
TOTAL (B)			29,53,28,380.04	1,45,38,15,880.02
Balance being excess of Income over Expenditure (A-B)				
Transfer to / from Designated Fund				
Building fund				
Others (specify)				
Balance Being Surplus / (Deficit) Carried to Capital Fund			(1,35,50,145.94)	(1,15,68,03,669.40)

Significant Accounting Policies

Contingent Liabilities and Notes to Accounts

23

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SCHEDULE -1 CORPUS/CAPITAL FUND

		Amount in Rs.	
Particulars		Current Year 2022-23	Previous Year 2021-22
Balance at the beginning of the year		(47,88,87,691.21)	92,03,22,844.21
Add:	Contributions towards Corpus/Capital Fund		(14,13,44,475.68)
Add:	Contributions towards Corpus/Capital Fund - OTC		(2,97,20,347.00)
Add:	Grants from UGC, Government of India and State Government to the utilized for capital expenditure	3,00,16,661.00	(5,41,95,843.22)
Add:	Contributions towards Corpus/Capital Fund - SWAYAM		(1,54,16,081.00)
Add:	Assets Purchased out of Earmarked Funds		
Add:	Assets Purchased out of Sponsored Projects, where ownership vests in the institution		10,62,449.00
Add:	Assets Donated/Gifts Received		
Add:	Adjustment of Depreciation (Swayam Fund) twice taken last year		
Total		(44,88,71,030.21)	68,07,08,546.31
Less:	Over statement of accrued interest		
Add:	Project Account - Capital Fund		
Less:	EB Deposit added in Electricity charges for the past years		(27,92,568.12)
Less:	OTC Liability inadvertently credited to Capital		
Plan Grant Revenue Expenditure			
Add:	Excess of Income over expenditure transferred from the Income & Expenditure Account	(1,35,50,145.94)	(1,15,68,03,669.40)
Total		(46,24,21,176.15)	(47,88,87,691.21)
(Deduct) Deficit transferred from the Income & expenditure Account			
Balance at the year end			

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Amount in Rupees			
Particulars	Total		
	Current Year 2022-23	Previous Year 2021-22	
SCHEDULE 2A			
ENDOWMENT FUNDS			
SCHEDULE 2B			
DESIGNATED	23,11,38,831.63	21,85,40,309.85	
SCHEDULE 2C			
EARMARKED	-	-	
Total	23,11,38,831.63	21,85,40,309.85	
Represented by			
Cash And Bank Balances	5,74,89,394.93	1,68,45,069.85	
Investments (Fixed Deposit)	17,32,42,084.00	20,00,00,000.00	
Interest accrued but not due	4,07,352.70	16,95,240.00	
Total	23,11,38,831.63	21,85,40,309.85	

SCHEDULE 2A
ENDOWMENT FUNDS

Specimen format of Sub Schedule to support the figures in the column "Endowment Funds" in the Schedule "Earmarked / Endowment Funds", forming part of the Balance Sheet.

1. Sl.No	2. Name of the Endowment	Amount in Rupees									
		Opening Balance on 01.4.2022		Additions during the Year		Total		Expenditure on the object during the year	Closing Balance on 31.03.2023		Total (10+11)
		3	4	5	6	7	8		9	10	
		Endowment	Accumulated Interest	Endowment	Interest	Endowment (3+5)	Accumulated Interest (4+6)		Endowment	Accumulated Interest	
						Nil					
	Total										

Notes

1. The total of Columns 3 & 4 will appear as the Opening Balance in the Column "Endowment Funds" in Schedule 2, of Earmarked Funds forming part of the Balance Sheet.
2. The total of Col. 9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments, (except Endowments for Chairs)
3. There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule - 8 Loans, Advances & Deposits.

SCHEDULE 2B
DESIGNATED FUNDS

S. No.	Particulars	Opening Balance	Add	Less	Less	Closing Balance
		01-04-2022	Generation during the Year	Utilised for Capital Account	Utilised for Revenue Account	31-03-2023
1	NITTTR Chennai Corpus Fund	15,00,00,000.00		-	-	15,00,00,000.00
2	NITTTR Chennai Reserves	6,85,40,309.85	1,33,23,879.78	-	7,25,358.00	8,11,38,831.63
3	Total	21,85,40,309.85	1,33,23,879.78	0.00	7,25,358.00	23,11,38,831.63

Amount in Rupees

SCHEDULE 3- CURRENT LIABILITIES & PROVISIONS

		Amount in Rupees	
		Current Year 2022-23	Previous Year 2021-22
A. CURRENT LIABILITIES			
1. Deposits from Staff			
Caution Deposit for staff Quarters		1,36,860.00	75,000.00
Staff Quarters			1,21,860.00
Yoga Hall Deposit		10,000.00	
2. Deposits from Students			
Caution Deposit for Ph.D		25,000.00	25,000.00
Scholarship for M.Tech - HRD Deposit			-
Boarding Charges - Hostel		31,500.00	-
Research Scholar - FIP			-
M.E.(IEM) - Caution Deposit		1,34,000.00	80,000.00
Emerging Area Course Fees Refundable			-
3. Sundry Creditors			
a) For Goods & Service		82,250.00	
Cofmow Equipments			-
Tamil Nadu Book House			-
Misc Deposits - M/s Akins		25,677.00	-
4. Deposit- Others (including EMD, Security Deposit)			
AICTE UKIERI Work shop			15,000.00
Earnest Money Deposit			-
Community Hall Deposit			-
Caution Deposit for Canteen			-
Security Deposit			-
GSLIS			
5. Statutory liabilities (GPF, TDS WC TAX, CPF, GIS, NPS):			
a) Overdue			
b) Others		2,66,878.00	
Property Tax Payable			1,82,943.00
Duties and Taxes			87,084.00
Duties and Taxes - Project			

6. Other Current Liabilities			
a) Salaries		1,36,66,775.00	1,17,05,571.00
b) OTC Liability Complied Project Sch 3 B (2)		1,03,32,256.00	44,90,838.00
INTEREST TO BE REFUNDED TO GOVERNMENT		1,65,42,985.00	1,30,20,132.00
Project Account Liabilities- Sch 3 B (1)			
c) Receipts against sponsored fellowships & Scholarships		22,09,76,250.04	14,50,92,906.08
d) Unutilised Grants		6,06,993.00	
e) Grants in advance			
f) Other funds : TGH Mess Expenditure/Income		57,11,532.54	81,64,753.00
g) SWAYAM Sponsored Projects			
h) Other Liabilities :		3,74,746.00	3,74,746.00
Deposit on account of Seminars and Symposia (Sch. 3A)			
Swayam CB Workshop		26,89,23,702.58	18,34,35,833.08
B. PROVISIONS			
1. For Taxation			
2. Gratuity		4,94,54,812.00	4,83,04,612.00
3. Superannuation Pension		1,08,47,90,390.00	1,09,24,27,594.00
4. Accumulated Leave Encashment		6,72,44,372.00	6,46,04,317.00
5. Trade Warranties /Claims			
6. Outstanding Expenses:			
OH Outstanding Expenses		2,35,35,666.00	2,20,53,900.00
Outstanding expenditure OTC		1,32,000.00	
Outstanding expenditure Mess		2,58,581.00	
Contractual Employment			
Maintenance expenses like Security & House keeping charges, Water charges, etc.			
Outstanding to Fellowship Scholars			
Building & Electrical Maint., Reimbursement of Medical Bills & Others			
Withheld - Dr. GA Rathy (ISTE)		10,035.00	8,000.00
WithHeld - V. Senthamizhselvan			10,035.00
Audit Fees Payable			2,000.00
Total (B)		1,22,54,25,856.00	1,22,74,10,458.00
Total (A+B)		1,49,43,49,558.58	1,41,08,46,291.08

SCHEDULE - 3 (a) SPONSORED PROJECTS

1. Sl. No.	2. Name of the Project	Opening Balance on 01.04.2022		5. Receipts/ Recoveries during the year	6. Total	7. Expenditure during the year	Amount in Rupees Closing Balance on 31.03.2023	
		3. Credit	4. Debit				8. Credit	9. Debit
1	AICTE - ISTE Refresher Course	(9,000.00)		9,000.00	-		-	
2	E- Content Development & LMS - EFDP 02	80,000.00			80,000.00		80,000.00	
3	EFDP-03 OT&E Jaypee IoT Noida	80,000.00			80,000.00		80,000.00	
4	Hands on Trg Prog - WQA YR	9,000.00			9,000.00		9,000.00	
5	SA&E Course_IMU	80,000.00			80,000.00		80,000.00	
6	ToT for CSS Trainers (TNRTP)	2,10,000.00		2,10,000.00	4,20,000.00	2,25,457.00	1,94,543.00	
7	Training of Trainers_2022 (ECB)	95,930.00			95,930.00		95,930.00	
8	AOC Air Force Station (TTP)			77,297.00	77,297.00	11,550.00	65,747.00	
9	ARPIT 2022			1,20,000.00	1,20,000.00		1,20,000.00	
10	Breakthrough Technologies for Engg Edu & Research			42,373.00	42,373.00	847.46	41,525.54	
11	Creation to Curation of AV Content for Mdi Casting			20,000.00	20,000.00	3,430.00	16,570.00	
12	C V Raman Global University			80,000.00	80,000.00		80,000.00	
13	Data Analytics and Visualization (SSPDP-28)			80,000.00	80,000.00		80,000.00	
14	E - Content Development (SSPDP - 08)			98,305.00	98,305.00		98,305.00	
15	ETP - SSPDP - 16			67,796.00	67,796.00		67,796.00	
16	Instructional Design and Delivery System			1,68,000.00	1,68,000.00		1,68,000.00	
17	Jaypee Institute of Information Technology			80,000.00	80,000.00		80,000.00	
18	Joshephs College of Engineering			67,796.00	67,796.00		67,796.00	
19	JSSTU - MYSURU			80,000.00	80,000.00		80,000.00	
20	LVP Nepal 2022-23			19,74,125.00	19,74,125.00	10,40,830.00	9,33,295.00	
21	Mentoring for Faculty (KCT)			38,400.00	38,400.00		38,400.00	
22	Mentoring (VMRF)			48,000.00	48,000.00		48,000.00	
23	NBA Training and Hand Holding the SAR Prep Process			1,37,288.00	1,37,288.00		1,37,288.00	
24	National Academy of Direct Taxes			20,000.00	20,000.00		20,000.00	
25	New Pdgl Apprs of HEI for 21st Century Learner's			80,000.00	80,000.00		80,000.00	
26	Open Book Examination (SSPDP - 23)			1,50,000.00	1,50,000.00		1,50,000.00	
27	Outcome Based Edu with COPO Mapping and Attainment			80,000.00	80,000.00		80,000.00	
28	Pedagogical Strategies for 21st Century Learners			3,20,000.00	3,20,000.00		3,20,000.00	
29	SA&E_II Batch_IMU B'lore			80,000.00	80,000.00		80,000.00	
30	SERB - Karyashala - BOSPV			6,10,000.00	6,10,000.00	6,06,460.00	3,540.00	
31	SERC - Conference			3,00,000.00	3,00,000.00		3,00,000.00	
32	SSPDP-03_OBE and NBA Accdn_DTU			80,000.00	80,000.00		80,000.00	
33	SSPDP-04_OBE and NBA Accdn_NSUT			80,000.00	80,000.00		80,000.00	
34	SSPDP-06_NBA Accdn Procedures_DTU			80,000.00	80,000.00		80,000.00	
35	SSPDP-07_NBA Accdn Procedures_NSUT			1,02,000.00	1,02,000.00		1,02,000.00	
36	SSPDP - 09			67,797.00	67,797.00		67,797.00	
37	SSPDP - 10			88,000.00	88,000.00		88,000.00	
38	SSPDP - 11			80,000.00	80,000.00		80,000.00	
39	SSPDP - 12			80,000.00	80,000.00		80,000.00	
40	SSPDP - 15			80,000.00	80,000.00		80,000.00	
41	SSPDP - 17			80,000.00	80,000.00		80,000.00	
42	SSPDP - 18			98,000.00	98,000.00		98,000.00	
43	SSPDP-30_NAAC Accdn_VJTI			80,000.00	80,000.00		80,000.00	
44	Transparency Third Party Audit Services			9,40,000.00	9,40,000.00		9,40,000.00	
45	VNR VJIE&T - SSPDP - 33			80,000.00	80,000.00		80,000.00	
					-		-	
	Total	5,45,930.00	-	70,54,177.00	76,00,107.00	18,88,574.46	57,11,532.54	-

1. The Projects may be listed agency-wise, with sub-totals for each agency.

2. The total of Col. 8 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).

3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

SCHEDULE 3 B(1) Deposit on Account of Externally Funded Projects

SI No	Name of Sponsor	Opening Balance As On 01.04.2022		Transactions During the year		Closing Balance As On 31.03.2023	
		3	4	5	6	7	8
1	2	Cr.	Dr.	Cr.	Dr.	Cr.	Dr.
1	67DST-JSPS/CEM\		27500.00	27500.00			
2	79 Swayam Mooc Project	1,17,17,533.00		47,53,757.00	18,51,384.00	1,46,19,906.00	
3	90A - DPR for ER of Pdrvdu Tank	95,440.00			5,858.00	89,582.00	
4	90B - DPR for ER of MG Tank	95,556.00				95,556.00	
5	90C - DPR for ER of Npti Tank	98,925.00				98,925.00	
6	NITTT/2017-18/WRD/CEM/69/SNP			3,91,500.00	3,91,500.00	-	
7	NITTT/2020-21/WRD/CEM/69A/SNP	2,47,500.00			2,47,500.00	-	
8	NITTT/2020-21/WRD/CEM/69B/SNP	60,000.00			60,000.00	-	
9	NITTT/2020-21/WRD/CEM/69C/SNP	24,000.00			24,000.00	-	
10	NITTT/2020-21/WRD/CEM/69D/SNP	30,000.00			30,000.00	-	
11	NITTT/2020-21/WRD/CEM/69E/SNP	30,000.00			30,000.00	-	
12	NITTT/20-22/88/L&T Edutech/UN		90,322.00			-	
13	NITTT/CIVIL/TNSCB/PERUNGALATHUR/87/SNP/2020-21	25,000.00				25,000.00	
14	Project No. 89 Water Testing	7,14,000.00		9,24,000.00	23,984.00	16,14,016.00	
	Total	1,31,37,954.00	1,17,822.00	60,96,757.00	26,64,226.00	1,65,42,985.00	-

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

SCHEDULE 3 B (2) OTC Liabilities

Sl No	Name of the Programme	Opening Balance As On 01.04.2022		Transactions During the year		Closing Balance As On 31.03.2023	
		3	4	5	6	7	8
1	2						
		Cr.	Dr.	Cr.	Dr.	Cr.	Dr.
	OPENING BALANCE OF OTC LIABILITIES	11705571.00			57,390.00	1,16,48,181.00	
1	OTC - DEAWT - 2022-23			28,93,782.00	19,75,234.00	9,18,548.00	
2	OTC - REETICI 4.0 2022-23			4,80,000.00		4,80,000.00	
3	OTC - STVETS 2022 - 23			31,15,250.00	25,28,187.00	5,87,063.00	
4	TVET for Skill Development in Electronic 2022-23			11,27,275.00	10,94,292.00	32,983.00	
	Total	1,17,05,571.00	-	76,16,307.00	56,55,103.00	1,36,66,775.00	-

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

SCHEDULE 3(C) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

Amount in Rupees		
	Current Year 2022-23	Previous Year 2021-22
A. Plan grants: Government of India		
Balance B/F	14,50,92,906.08	14,85,02,450.53
Add: Receipts during the year	38,00,00,000.00	25,50,00,000.00
Total (a)	52,50,92,906.08	40,35,02,450.53
Less Refunds		
Less: Utilized for Revenue Expenditure	27,40,99,995.04	31,26,05,387.67
Less: Utilized for Capital expenditure	3,00,16,661.00	(5,41,95,843.22)
Total(b)	30,41,16,656.04	25,84,09,544.45
Unutilized carried forward (a-b)	22,09,76,250.04	14,50,92,906.08
B. UGC grants: Plan		
Balance B/F		
Receipts during the year		
Total (c)	NIL	
Less Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for capital expenditure		
Total (d)	NIL	
Unutilized carried forward (c-d)		

C. UGC Grants Non Plan			
Balance B/F			
Receipts during the year			
	Total (e)	NIL	
Less Refunds			
Less: Utilized for Revenue Expenditure			
Less: Utilized for capital expenditure			
	Total (f)	NIL	
Unutilized carried forward (e - f)			
D. Grants from State Govt.			
Balance B/F			
Receipts during the year			
	Total (g)	NIL	
Less: Utilized for Revenue Expenditure			
Less: Utilized for capital expenditure			
	Total (h)	NIL	
Unutilized carried forward (g - h)			
*Grand Total (A+B+C+D)		22,09,76,250.04	14,50,92,906.08

Notes:-

- Unutilized grants includes advances on Capital Account
- Unutilized grants include grants received in advance for the next year
- Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account

SCHEDULE 4 FIXED ASSETS

Plan:

Assets Heads			GROSS BLOCK				Depreciation			Net Block		
Sl. No.	RATE	Op Balance 01.04.2022	Additions	Deductions	Closing Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total	31.03.23	31.03.22	
1	Land -Free Hold	2,68,500.00			2,68,500.00	-			Depreciation			
2	Site Development	-			-	-			-	2,68,500.00	2,68,500.00	
3	Buildings	36,48,91,748.50	3,03,10,219.00		39,52,01,967.50	9,94,49,127.47	86,61,874.00		10,81,11,001.47	28,70,90,966.03	26,54,42,621.03	
4	Roads & Bridges	-			-	-			-	-	-	
5	Tubewells & Water Supply	-			-	-			-	-	-	
6	Sewerage & Drainage	-			-	-			-	-	-	
7	Electrical Installation and equipment	45,64,891.00			45,64,891.00	45,01,488.65	9,835.00		45,11,323.65	53,567.35	63,402.35	
8	Plant & Machinery	2,23,40,069.00			2,23,40,069.00	1,45,12,280.60	10,03,449.00		1,55,15,729.60	68,24,339.40	78,27,788.40	
9	Scientific & Laboratory Equipment				-	-			-	-	-	
10	Office Equipment	4,96,06,314.45	32099.00		4,96,38,413.45	1,78,51,039.95	36,17,444.00		2,14,68,483.95	2,81,69,929.50	3,17,55,274.50	
11	Audio Visual Equipment	6,06,414.00	1727660.00		23,34,074.00	2,78,126.05	2,48,569.00		5,26,695.05	18,07,378.95	3,28,287.95	
12	Computers & Peripherals	4,69,56,229.38	4605342.00		5,15,61,571.38	3,79,55,211.98	33,68,530.00		4,13,23,741.98	1,02,37,829.40	90,01,017.40	
13	Furniture, Fixtures & Fittings	1,35,81,621.88	160771.00		1,37,42,392.88	99,51,094.46	3,42,808.00		1,02,93,902.46	34,48,490.42	36,30,527.42	
14	Vehicles	45,96,152.22			45,96,152.22	27,91,553.42	2,06,250.00		29,97,803.42	15,98,348.80	18,04,598.80	
15	Lib. Books & Scientific Journals	1,20,66,776.13	88254.00		1,21,55,030.13	74,94,866.33	4,86,768.00		79,81,634.33	41,73,395.80	45,71,909.80	
16	Smart Classroom	-			-	-			-	-	-	
17	Small Value Assets	23,89,277.83	726467.00		31,15,744.83	35,106.28	2,70,609.00		3,05,715.28	28,10,029.55	23,54,171.55	
18	Other Assets	47,94,439.00			47,94,439.00	33,98,000.30	2,60,829.00		36,58,829.30	11,35,609.70	13,96,438.70	
19	Equipments	16,31,29,444.35	3664183.00		16,66,93,627.35	13,65,73,638.56	27,67,346.00		13,93,40,984.56	2,73,52,642.79	2,65,55,805.79	
Total (A)			68,97,91,877.74	4,12,14,995.00	-	73,10,06,872.74	33,47,91,534.05	2,12,44,311.00	-	35,60,35,845.04	37,49,71,027.69	35,50,00,343.69
20	Capital Work in Progress	29,60,18,972.00	22034832.00	129558739.00	18,84,95,065.00				-	18,84,95,065.00	29,60,18,972.00	
	Class Room Construction WIP				-				-	-	-	
	Building Renovation WIP				-				-	-	-	
	Computers-WIP				-				-	-	-	
Total (B)			29,60,18,972.00	2,20,34,832.00	12,95,58,739.00	18,84,95,065.00			-	-	-	-
21	Computer Software	69,84,979.00	5998394.00		1,29,83,373.00	57,64,691.20	39,06,789.00		96,71,480.20	33,11,892.80	12,20,287.80	
22	E-Journals		309305.00		3,09,305.00		1,23,722.00		1,23,722.00	1,85,583.00	-	
23	Patents				-	-			-	-	-	
Total (C)			69,84,979.00	63,07,699.00		1,32,92,678.00	40,30,511.00		97,95,202.20	34,97,475.80	12,20,287.80	
Grand Total (A+B+C)			99,27,95,828.74	6,95,57,526.00	12,95,58,739.00	93,27,94,615.74	34,05,56,225.25	2,52,74,822.00	-	36,58,31,047.24	56,69,63,568.49	65,22,39,603.49
Swayam			99,27,95,828.74	6,95,57,526.00	12,95,58,739.00	93,27,94,615.74	34,05,56,225.25	2,52,74,822.00	-	36,58,31,047.24	56,69,63,568.49	65,22,39,603.49
1	Audio Visual Equipment				-	-			36,58,31,047.24	56,69,63,568.49	-	
2	Other Equipment				-	-			36,58,31,047.24	56,69,63,568.49	-	
Corpus Fund Account									-	-	-	
1	Laptop to Faculties				-	-			-	-	-	
			99,27,95,828.74	6,95,57,526.00	12,95,58,739.00	93,27,94,615.74	34,05,56,225.25	2,52,74,822.00	-	36,58,31,047.24	56,69,63,568.49	65,22,39,603.49

Note: The figure in Column "Deductions" under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.

The figures in column "Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

Note : Assets procured out of Swayam and Corpus Funds transferred to Main Account in the respective category of Assets and Depreciation accumulated has also been transferred as Addition in the Main Account and shown in Deduction in Swayam and Corpus.

Accumulated Depreciation (Total Depreciation) out of Assets of Swayame and Corpus Funds also included in the Depreciation for the year in the respective assets

Note: The figure in Column "Deductions" under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year; The figures in column "Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year; Note : Assets procured out of Swayam and Corpus Funds transferred to Main Account in the respective category of Assets and Depreciation accumulated has also been transferred as Addition in the Main Account and shown in Deduction in Swayam and Corpus. Accumulated Depreciation (Total Depreciation) out of Assets of Swayam and Corpus Funds also included in the depreciation for the year in the respective assets

SCHEDULE 4A PLAN

Sl. No.	Assets Heads	Gross Block				Depreciation for the Year 2022-23				Amount in Rupees	
		Op Balance 01.04.2022	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.2023	Net Block 31.03.2022
1	Land										
2	Site Development										
3	Buildings										
4	Roads & Bridges										
5	Tubewells & Water Supply										
6	Sewerage & Drainage										
7	Electrical Installation and equipment										
8	Plant & Machinery										
9	Scientific & Laboratory Equipment				Nil						
10	Office Equipment										
11	Audio Visual Equipment										
12	Computers & Peripherals										
13	Furniture, Fixtures & Fittings										
14	Vehicles										
15	Lib. Books & Scientific Journals										
16	Small Value Assets										
Total (A)											
17	Capital Work in Progress (B)										
S.No	Intangible Assets	Op Balance 01.04.2022	Additions	Deductions	CI Balance	Dep Opening Balance	Amortization for the Year	Deductions / Adjustments	Total Amortization / Adjustments	31.03.2023	31.03.2022
18	Computer Software										
19	E-Journals				Nil						
20	Patents										
Total (C)											
Grand Total (A+B+C)											

SCHEDULE 4B NON - PLAN

Sl. No.		Assets Heads	Gross Block		Depreciation for the Year 2022-23			Net Block			Amount in Rupees	
			Op Balance 01.04.2022	Additions	Deductions	CI Balance	Dep Opening Balance	Deprecia tion for the Year	Deductions / Adjustment	Total Depreciation	31.03. 2023	31.03. 2022
1		Land										
2		Site Development										
3		Buildings										
4		Roads & Bridges										
5		Tubewells & Water Supply										
6		Sewerage & Drainage										
7		Electrical Installation & equipment										
8		Plant & Machinery										
9		Scientific & Laboratory Equipment										
10		Office Equipment				Nil						
11		Audio Visual Equipment										
12		Computers & Peripherals										
13		Furniture, Fixtures & Fittings										
14		Vehicles										
15		Lib. Books & Scientific Journals										
16		Small Value Assets										
Total (A)												
17	Capital Work in Progress (B)											
Sl. No.	Intangible Assets		Op Balance 01.04.2022	Additions	Deductions	CI Balance	Dep Opening Balance	Amortiza tion for the Year	Deductions / Adjustments	Total Amortization/ Adjustments	31.03. 2023	31.03. 2022
18	Computer Software											
19	E-Journals											
20	Patents					Nil						
Total (C)												
Grand Total (A+B+C)												

SCHEDULE 4 C- INTANGIBLE ASSETS

Sl. No.	Asset Heads	Gross Block			Depreciation Block				Amount in Rupees	
		Op. Balance 01.4.2022	Additions	Deductions	Cl. Balance	Depreciation/ Amortizations Opening Balance	Depreciation/ Amortization for the year	Deductions/ Adjustment	Total Depreciation/ Amortization	Net Block
1	Patents & Copyrights					Nil				31.03. 2023
2	Computer Software									31.03. 2022
3	E - Journals									

SCHEDULE 4(C) (i) PATENTS AND COPYRIGHTS

Amounts in Rupees.						
Particulars	Op. Balance	Addition	Gross	Amortization	Net Block 2022-23	Net Block 2021-22
A. Patents Granted						
1 Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs..../-) 2 Balance as on 31.03.14 of Patents obtained in 2010-11 (Original Value-Rs..../-) 3 Balance as on 31.03.14 of Patents obtained in 2012-13 (Original Value - Rs..../-) 4 Patents granted during the Current Year			Nil			
Total						

Particulars	Op. Balance	Addition	Gross	Patents Granted/ Rejected	Net Block 2022-23	Net Block 2021-22
B. Patents Pending in respect of Patents applied for 1 Expenditure incurred during 2009-10 to 2011-12 2 Expenditure incurred during 2012-13 3 Expenditure incurred during 2013-14			Nil			
Total						

C. Grand Total (A+B)						
-----------------------------	--	--	--	--	--	--

Note: The addition in Part A (patents granted), will be the figure of patents granted during the year, transferred from Part B (column - Patents granted/rejected). The amount against grants rejected during the year is written off in the Income and Expenditure Account.

SCHEDULE 4D OTHERS

Sl. No.	Assets Heads	Gross Block			Depreciation for the Year 2022-23			Net Block	
		Op Balance 01.04.2022	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation
1	Land								
2	Site Development								
3	Buildings								
4	Roads & Bridges								
5	Tubewells & Water Supply								
6	Sewerage & Drainage				Nil				
7	Electrical Installation and								
8	Plant & Machinery								
9	Scientific & Laboratory Equipment								
10	Office Equipment								
11	Audio Visual Equipment								
12	Computers & Peripherals								
13	Furniture, Fixtures & Fittings								
14	Vehicles								
15	Lib. Books & Scientific Journals								
16	Small Value Assets								
Total:									
17	Capital Work in Progress								
Grand Total									

Note: The additions during the Year include additions from:

Gifted	..
Earmarked Funds	..
Sponsored Projects	..
Own Funds	..
Total	

SCHEDULE 5 : INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS

Amount in Rupees

	Current Year 2022-23	Previous Year 2021-22
1 In Central Government Securities		
2 In State Government Securities		
3 Other approved Securities		
4 Shares		
5 Debentures and Bonds		
6 Term Deposits with Banks	17,32,42,084.00	
7 Others (to be specified)		
Total	17,32,42,084.00	

SCHEDULE 5 (A) INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS (FUND WISE)

Sl. No.	Funds	Amount in Rupees	
		Current Year (2022-23)	Previous Year (2021-22)
1	NITTTR CHENNAI RESERVES	5,07,42,084.00	-
2	NITTTR CHENNAI CORPUS FUND	12,25,00,000.00	-
3			
4			
5	Endowment Fund Investments		
	Total	17,32,42,084.00	-

Note: The Total in this sub schedule will agree with the total in Schedule 5.

SCHEDULE 6 - INVESTMENTS - OTHERS

Amount in Rupees		
	Current Year 2022-23	Previous Year 2021-22
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		

SCHEDULE 7 - CURRENT ASSETS

Amount in Rupees

	Current Year 2022-23	Previous Year 2021-22
1. Stock:		
a) Stores and Spares		
b) Loose Tools		
c) Publications		
d) Laboratory chemicals, consumables and glass ware		
e) Building Material		
f) Electrical Material	5,000.00	5,800.00
g) Stationery	2,00,288.00	
h) Water supply material		
i) Postage	11,919.00	11,919.00
2. Sundry Debtors:		
a) Debts Outstanding for a period exceeding six months		
b) Others : ME Examination fee receivable	1,27,522.00	31,500.00
3. Closing Cash and Bank Balances :		
a) With Scheduled Banks:		
In Current Accounts		
In term deposit Accounts		
In Savings Accounts		
In Cash Balance (Misc)	-	-
In Bank Balance	42,83,69,139.85	49,16,05,492.49
In Bank Balance - Statutory payment (CD A/c 3001)		
In Bank Balance Rajiv Gandhi National Fellowship		
In Bank Balance Athletic		
Fund Transfer		
AXIS Bank OTC Transfer	-	-
CANARA Bank OTC Transfer	-	-
b) With non-Scheduled Banks:		
- In term deposit Accounts		
- In Savings Accounts		
4. Post Office- Savings Accounts		
TOTAL	42,87,13,868.85	49,16,54,711.49

Note: Annexure A shows the details of Bank Accounts

Bank balances of OTC, Project, Corpus and Swayam Funds are included in the Bank Balance

Details of Bank Accounts - Main and Other Accounts

S. No.	Name of the Bank	Bank Account Number	Schedule No	Closing balance as on 31.03.2023 (Rs.)
	MAIN ACCOUNT			
1	Canara Bank	2649201000193		12,46,367.41
2	Canara Bank	2649101010260		2,12,32,507.00
3	State Bank of India	0039917422888		21,19,20,815.23
4	SBI FD -SDR Account			5,73,87,812.00
				29,17,87,501.64
	NON-GRANT ACCOUNTS			
5	Indian Overseas Bank	041801000000101		59,62,977.15
6	Indian Overseas Bank - SDR			1,00,50,000.00
7	Canara Bank	2649101010094		7,32,547.12
8	SBI - SDR- OTC			1,95,00,000.00
9	SBI SB	0040626852130		3,55,45,326.24
10	FD Corpus Fund (IOB)			12,25,00,000.00
11	Indian Overseas Bank	041802000000001		55,476.34
12	Indian Overseas Bank	041801000000099		4,45,11,163.36
13	IOB FD - SDR Account			5,07,42,084.00
14	Bank of India - SDR			1,99,00,000.00
15	Canara Bank	2649101010177		3,24,148.00
				30,98,23,722.21
Grand Total				60,16,11,223.85

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

Amount in Rupees

	Current Year 2022-23	Previous Year 2021-22
1. Advances to employees: (Non-interest bearing)		
a) Medical Advance		-
b) Other (to be specified)		-
Computer Advance	2,09,000.00	-
Conveyance Advance		-
LTC Advance		-
Other Employee Loans & Advances		-
2. Long Term Advances to employees: (Interest bearing)		
a) Vehicle loan		
b) Home loan : House building advance	72,450.00	1,20,750.00
c) Others (to be specified) Other staff		-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account		
b) Permanent advance		-
c) Temporary Advance - Main Account, OTC, Project and Swayam		-
4. Prepaid Expenses		
a) Insurance	3,836.00	99,985.00
b) E Journal Subscription		
c) AMC Lab and Office Equipment		1,32,750.00
5. Deposits		
a) Telephone	90,629.00	90,629.00
b) Lease Rent		
c) Electricity	4,36,508.00	2,80,331.00
d) AICTE, if applicable		
e) Security Deposit NLC	23,000.00	
Community Hall Deposit		-
Security Deposit with Industry		275.00
Security Deposit with MES	4,14,520.00	4,11,969.00
EC Security Deposit		2,551.00
ECH Deposit	1,000.00	1,000.00
Deposit with SE PWD		152.00
Deposit Vehicle Maintenance	5,000.00	5,000.00
Deposit with CPWD	9,00,17,874.00	
Deposit with Indian Oil Corporation	10,700.00	10,700.00
Deposit with Post Office	100.00	100.00
Deposit with Fuel Firm	15,000.00	15,000.00
Deposit with Court	3,46,078.00	-
Deposit - Stationery		5,000.00
Deposit - ECV		2,500.00
MLNN Deposit	10,000.00	10,000.00
6. Income Accrued:		
a) On Investments from Earmarked/ Endowment Funds		
b) On Investments-Others	19,55,838.18	32,73,947.74
c) On Loans and Advances		
d) Others (includes income due unrealized)		
7. Other - Current assets receivable from UGC/sponsored projects		
a) Debit balances in Sponsored Projects		-
b) Debit balances in Sponsored Fellowships & Scholarships		
c) Grants Receivable		-
d) Other :		
e) Income receivable	97,900.00	1,51,300.00
f) Refund due from IT towards TDS	4,38,259.54	49,501.00
8. Claims Receivable		
OTC DUE FROM THE MINISTRY FOR THE COMPLETED COURSE		24,00,000.00
TOTAL	9,41,47,692.72	70,63,440.74

SCHEDULE 9 - ACADEMIC RECEIPTS

	Amount in Rupees	
	Current Year 2022-23	Previous Year 2021-22
FEES FROM STUDENTS		
Academic		
1. Tuition fee Ph D	1,60,000.00	2,00,000.00
Tuition fee M.E/M.Tech	1,87,401.00	(44,583.00)
Staff Development Programmes		-
2. Admission fee Ph D		2,000.00
Admission fee M.E/M.Tech		2,70,000.00
3. Enrolment fee/Course Fees		
4. Library Admission fee		
5. Laboratory fee		
6. Art& Craft fee		
7. Registration fee		
8. Syllabus fee		
Total (A)	3,47,401.00	4,27,417.00
Examinations		
1. Admission test fee		
2. Annual Examination fee		
3. Mark sheet, certificate fee	2,500.00	
4. Entrance examination fee		
Total (B)	2,500.00	-
Other Fees		
1. Identity card fee		
2. Fine/ Miscellaneous fees	-	-
3. Medical fee		
4. Transportation fee		
5. Hostel fee		
Total (C)	-	-
Sale of Publications		
1. Sale of Admission/Application forms	4,66,500.00	87,500.00
2. Sale of syllabus and Question Paper, etc.		
3. Sale of prospectus including admission forms		
Total (D)	4,66,500.00	87,500.00
Other Academic Receipts		
1. Registration fee for workshops, programmes		
2. Registration fees (Academic Staff College)		
3. IDDS Revenue Receipts	-	-
Total (E)	-	-
GRAND TOTAL (A+B+C+D+E)	8,16,401.00	5,14,917.00

Note:

In case fees like entrance fee, subscriptions etc are material and are in the nature of capital receipts, such amount should be recognized to the Capital Fund. Otherwise such fees will be appropriately incorporated in this schedule

SCHEDULE 10 - GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in Rupees

Particulars	PLAN GOI			Total Plan	NON PLAN GOI			Total Non Plan	Current Year Total 2022-23	Previous Year Total 2021-22
	UGC	Plan Capital	Plan General		UGC	Non Plan Salary	Non Plan General			
Balance B/F		2,60,10,847.22	4,28,40,785.23	6,88,51,632.45		7,60,11,698.63	2,29,575.00	7,62,41,273.63	14,50,92,906.08	14,85,02,450.53
Add: Receipts during the year		9,00,00,000.00	15,00,00,000.00	24,00,00,000.00		14,00,00,000.00		14,00,00,000.00	38,00,00,000.00	25,50,00,000.00
Total		11,60,10,847.22	19,28,40,785.23	30,88,51,632.45		21,60,11,698.63	2,29,575.00	21,62,41,273.63	52,50,92,906.08	40,35,02,450.53
Less: Refund to UGC										
Balance		11,60,10,847.22	19,28,40,785.23	30,88,51,632.45		21,60,11,698.63	2,29,575.00	21,62,41,273.63	52,50,92,906.08	40,35,02,450.53
Less: Utilised for Capital expenditure (A)		3,00,16,661.00		3,00,16,661.00				-	3,00,16,661.00	(5,41,95,843.22)
Balance		8,59,94,186.22	19,28,40,785.23	27,88,34,971.45		21,60,11,698.63	2,29,575.00	21,62,41,273.63	49,50,76,245.08	45,76,98,293.75
Less: utilized for Revenue Expenditure (B)			15,01,98,573.04	15,01,98,573.04		12,39,01,422.00		12,39,01,422.00	27,40,99,995.04	31,26,05,387.67
Balance C/F (C)		8,59,94,186.22	4,26,42,212.19	12,86,36,398.41		9,21,10,276.63	2,29,575.00	9,23,39,851.63	22,09,76,250.04	14,50,92,906.08

A- Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B- Appears as income in the Income & Expenditure Account.

C- Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.

SCHEDULE 11 - INCOME FROM INVESTMENTS

Particulars	Amount in Rupees			
	Earmarked / Endowment Funds	Other Investments		
	Current Year 2022-23	Previous Year 2021-22	Current Year 2022-23	Previous Year 2021-22
1. Interest				
a. On Government Securities				
b. Other Bonds/Debentures				
2. Interest on Term Deposits/SFD			-	-
Less: Accrued Interest of last year			-	-
3. Income accrued but not due on Term Deposits/ Interest bearing advances to employees			-	-
4. Interest on Savings Bank Accounts including FFD Interest	-			7,83,557.00
Total			-	7,83,557.00
Transferred to Earmarked/Endowment Funds				
Balance	Nil	Nil		

SCHEDULE 12:- INTEREST EARNED

Amount in Rupees		
Particulars	Current Year 2022-23	Previous Year 2021-22
1. On Savings Accounts with scheduled banks	-	27,74,638.93
2 On Loans		
a. Employees/Staff		-
b. Others : i) Interest on Conveyance Advance		4,700.00
ii) Interest on Computer Advance		28,960.00
3. Others - Penal Interest Collected From Staff	608.00	
Total	608.00	28,08,298.93

Note:

1. The amount against item 1, in respect of Bank Accounts of Earmarked/Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 2.
2. item 2(a) is applicable only if Revolving funds have not been constituted for such advances.

SCHEDULE 13- OTHER INCOME

- Items of material amounts included in Miscellaneous Income should be separately disclosed.

Amount in Rupees

A. Income from Land & Buildings	Current Year 2022-23	Previous Year 2021-22
1. Hostel Room Rent	60,000.00	
2. License fee	1,99,921.00	1,99,745.00
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc	1,77,700.00	
4. Electricity charges recovered	120.00	260.00
5. Water charges recovered	5,452.00	6,119.00
6. Tender Fees		-
7. Staff Quarters Rent	8,33,974.00	8,33,468.00
8. Guest House Room Rent	14,40,535.00	8,96,790.00
9. Rent for Institute Premises		-
10. Community Hall Rent		5,000.00
Total - A	27,17,702.00	19,41,382.00
B. Sale of institute's publications		
1. Sale of Books and CD's		
Total - B	-	-
C. Income from holding events		
1. Gross Receipts from annual function/ sports carnival		
Less: Direct expenditure incurred on the annual function/ sports carnival		
2. Gross Receipts from fetes (Workshops, Seminars, etc.)	-	-
Less: Direct expenditure incurred on the fetes (Workshops, Seminars, etc.)	-	-
Net	-	-
3. Gross Receipts for educational tours		
Less: Direct expenditure incurred on the tours		
4. Others : Remn to instiuite Faculty staff		
Institute Overhead Project & Trg Programmes	-	-
Faculty Development Prog		
IDDS	-	-
Misc Revenue Receipts	1,50,594.04	2,70,554.27
Total - C	1,50,594.04	2,70,554.27
D. Others		
1. Income from consultancy		
2. RTI fees	10.00	50.00
3. Income from Royalty		-
4. Sale of application form (recruitment)		
5. Misc. receipts (Sale of tender form, waste paper, etc.)		
Machinery scrap items		11,90,030.00
6. Profit on Sale/disposal of Assets		
a) Owned assets		2,52,507.75
b) Assets received free of cost		
7. Grants/Donations from Institutions, Welfare Bodies and International		
8 Others (specify)		-
Testing Services		27,300.00
Interest Receipts		-
Training Cordination Fees	24,13,033.16	2,350.00
Usage of Staff Car		700.00
Rental Income		2,68,391.00
6th PCP Pay Recovery Salary		
Total - D	24,13,043.16	17,41,328.75
Grand Total (A+B+C+D)	52,81,339.20	39,53,265.02

SCHEDULE 14 - PRIOR PERIOD INCOME

Particulars	Amount in Rupees	
	Current Year 2022-23	Previous Year 2021-22
1. Academic Receipts		
2. Income from Investments		
3. Interest earned (EB Meter Caution Deposit)		
Staff Quarters Rent		20,040.00
Guest House Room Rent		
Hostel Room Rent		
4. Other Income	15,79,890.86	(8,57,30,847.45)
Total	15,79,890.86	(8,57,10,807.45)

NOTE: Excess Provision Written back
Income Tax Refund

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

		Amount in Rupees				
		Current Year 2022-23			Previous Year 2021-22	
		Plan	Non Plan	Total	Plan	Total
a) Salaries and Wages		-	11,64,75,134.00	11,64,75,134.00	9,83,71,616.00	9,83,71,616.00
b) Allowances and Bonus(Adhoc Bonus)				-		-
c) Contribution to Provident Fund				-		-
d) Contribution to Other Fund (specify)				-		-
e) Staff Welfare Expenses				-		-
f) Retirement and Terminal Benefits				-		-
g) LTC facility			5,16,523.00	5,16,523.00	1,43,855.00	1,43,855.00
h) Medical facility/Reimbursement			9,20,681.00	9,20,681.00	10,08,431.00	10,08,431.00
i) Children Education Allowance			8,73,000.00	8,73,000.00	8,10,000.00	8,10,000.00
j) Others				-		-
1) Others: Professional Development Allowance			5,84,009.00	5,84,009.00	5,11,611.00	5,11,611.00
2) Uniform Allowance			1,30,000.00	1,30,000.00	65,000.00	65,000.00
3) Transport Allowance Recovery			-	-	-	-
TOTAL			11,94,99,347.00	11,94,99,347.00	10,09,10,513.00	9,85,80,915.00

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

Amount in Rupees				
	Opening Balance as on 01.04.2022	Pension	Gratuity	Leave Encashment
	Addition: Capitalized value of Contributions Received from other Organizations			
Total (a)		1,09,24,27,594.00	4,83,04,612.00	1,20,53,36,523.00
Less: Actual Payment during the Year (b)		6,83,20,616.00	15,03,480.00	7,14,13,112.00
Balance Available on 31.03 c (a-b)		1,02,41,06,978.00	4,68,01,132.00	1,13,39,23,411.00
Provision required on 31.03 as per Actuarial Valuation (d)		1,08,47,90,390.00	4,94,54,812.00	1,20,14,89,574.00
A. Provision to be made in the Current year (d - c)		6,06,83,412.00	26,53,680.00	6,75,66,163.00
B. Contribution to New Pension Scheme		40,91,044.00		40,91,044.00
C. Medical Reimbursement to Retired Employees				-
D. Travel to Hometown on Retirement				-
E. Deposit Linked Insurance Payment				-
F. Commutation of Pension		14,07,927.00		14,07,927.00
G. Leave salary and pension contribution		1,99,483.00		1,99,483.00
Total (A+B+C+D+E)		6,63,81,866.00	26,53,680.00	42,29,071.00
				7,32,64,617.00

Note:

1. The total (A+B+C+D+E) in this sub Schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. Items B, C, D & E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31/3.

SCHEDULE 16 - ACADEMIC EXPENSES

Amount in Rupees

	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Laboratory expenses			-			
b) Field work/Participation in Conferences			-			
c) Expenses on Seminars/Workshops			-			
d) Payment to visiting faculty		5,92,258.00	5,92,258.00		13,68,180.00	13,68,180.00
e) Examination			-			
f) Student Welfare expenses			-			
g) Admission expenses			-			
h) Convocation expenses			-			
i) Publications			-			
j) Stipend/means-cum-merit scholarship			-			
k) Subscription Expenses		6,590.00	6,590.00			
l) Others (specify)		9,88,916.00	9,88,916.00		1,26,842.00	1,26,842.00
TOTAL		15,87,764.00	15,87,764.00		14,95,022.00	14,95,022.00
			NOTE: National Education Day Cash Award Rs.4000/-, AFFILIATION EXPENSES Rs.830000/-, Advertisement PG Admission Rs.154916/-			
			NOTE : AFFILIATION EXPENSES : Rs. 5,10,000/- Expr on ME Programme : Rs.3874/-			

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

Amount in Rupees

	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure			-			-
a) Electricity and power		51,56,739.00	51,56,739.00		30,67,947.22	30,67,947.22
b) Water charges		7,23,817.00	7,23,817.00		7,54,083.00	7,54,083.00
c) Insurance		1,97,389.00	1,97,389.00		22,818.00	22,818.00
d) Rent, Rates and Taxes (including property tax)		77,100.00	77,100.00			-
Property Tax			-			-
Service Tax			-			-
Water Tax		52,223.00	52,223.00		33,292.00	33,292.00
B Communication			-			-
e) Postage		41,976.00	41,976.00		40,428.29	40,428.29
f) Telephone, Fax and Internet Charges		2,02,781.00	2,02,781.00		2,29,197.00	2,29,197.00
C Others			-			-
g) Printing and Stationery			-			-
h) Travelling and Conveyance Expenses			-			-
i) Expenditure on FC/BOG		24,000.00	24,000.00			-
j) Audit Fees		3,32,260.00	3,32,260.00		-	-
k) Professional Charges : Legal Charges		5,24,800.00	5,24,800.00		7,23,500.00	7,23,500.00
l) Advertisement and Publicity		3,27,075.00	3,27,075.00		2,33,593.00	2,33,593.00
m) Magazines & Journals			-			-
n) Others : Repairs		4,08,056.00	4,08,056.00		1,95,086.00	1,95,086.00
o) Fellowship to Research Scholars		2,25,000.00	2,25,000.00		3,00,000.00	3,00,000.00
Contingencies		1,89,05,871.64	1,89,05,871.64		1,49,14,689.71	1,49,14,689.71
Security Charges		1,12,62,462.00	1,12,62,462.00		96,23,788.00	96,23,788.00
Bank Charges		2,316.40	2,316.40		1,145.70	1,145.70
Celebrations		8,29,559.00	8,29,559.00		10,74,606.00	10,74,606.00
Internet Charges		13,145.00	13,145.00		2,427.00	2,427.00
Visit of Parliament Committee			-		89,551.27	89,551.27
Travelling & Conveyance		29,12,113.00	29,12,113.00		5,07,928.00	5,07,928.00
Medicines for Dispensary		14,232.00	14,232.00			-
Golden Jubilee Celebration		-	-		-	-
Staff Development Programme		89,42,320.00	89,42,320.00		18,34,323.00	18,34,323.00
Stipend to Apprenticeship Trainees		2,94,293.00	2,94,293.00		1,54,933.00	1,54,933.00
Development Expenses		29,000.00	29,000.00		6,78,264.00	6,78,264.00
Periodicals		34,474.00	34,474.00		3,33,785.00	3,33,785.00
Printing & Stationery		5,18,363.00	5,18,363.00		4,45,133.00	4,45,133.00
Maintenance of Lab / Office Equipments		12,78,425.00	12,78,425.00		10,68,187.00	10,68,187.00
Remuneration to Guest Lecturers		19,35,002.00	19,35,002.00		6,88,750.00	6,88,750.00
Consumables for Lab		1,99,110.00	1,99,110.00		3,218.00	3,218.00
Sports Fit India Activities		58,384.00	58,384.00		24,963.00	24,963.00
Inter Sports Meet		22,56,276.00	22,56,276.00		-	-
Housekeeping Services		1,25,99,484.00	1,25,99,484.00		78,46,607.00	78,46,607.00
			-			-
TOTAL		7,03,78,046.04	7,03,78,046.04		4,48,92,243.19	4,48,92,243.19

SCHEDULE 18- TRANSPORTATION EXPENSES

Particulars	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)			-			-
a) Running expenses		1,49,541.00	1,49,541.00		2,21,736.30	2,21,736.30
b) Repairs & maintenance		1,09,443.00	1,09,443.00		3,16,925.00	3,16,925.00
c) Insurance expenses		27,432.00	27,432.00		19,034.00	19,034.00
2 Vehicles taken on rent/lease			-			-
a) Rent/lease expenses			-			-
3 Vehicle (Taxi) hiring expenses		6,77,128.00	6,77,128.00		1,89,618.00	1,89,618.00
Total		9,63,544.00	9,63,544.00		7,47,313.30	7,47,313.30

SCHEDULE 19 - REPAIRS & MAINTENANCE

Particulars	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings		14,01,922.00	14,01,922.00		11,15,238.60	11,15,238.60
b) Furniture & Fixtures		13,088.00	13,088.00		-	-
c) Plant & Machinery			-			-
d) Office Equipment : A C			-			-
e) Computers		1,23,164.00	1,23,164.00		1,30,384.00	1,30,384.00
f) Laboratory & Scientific equipment			-			-
g) Audio Visual equipment			-			-
h) Cleaning Material & Services		5,39,091.00	5,39,091.00		2,77,593.00	2,77,593.00
i) Book binding charges			-			-
j) Gardening (Landscape)		2,57,240.00	2,57,240.00			-
k) Estate Maintenance : Trainees Guest House			-			-
l) Others : Guest House Expenditure		54,050.00	54,050.00		1,35,462.00	1,35,462.00
m) Electrical Maintenance		13,29,793.00	13,29,793.00		17,93,108.10	17,93,108.10
n) Trainees Guest House		6,27,192.00	6,27,192.00		1,86,445.00	1,86,445.00
TOTAL		43,45,540.00	43,45,540.00		36,38,230.70	36,38,230.70

SCHEDULE 20 - FINANCE COSTS

Amount in Rupees

Particulars	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Bank charges						
b) Others: Interest on Service Tax			-			-
Total					-	-

Note:-

If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

SCHEDULE 21 - OTHER EXPENSES

Amount in Rupees

Particulars	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision for Bad and Doubtful Debts/Advances						
b) Irrecoverable Balances Written - off						
c) Grants/Subsidies to other institutions/organizations						
d) Others (specify)						
Total	-	-	-	-	-	-

Note:-

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assets and loss on sale of fixed assets etc and disclosed accordingly.

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in Rupees

Particulars	Current Year 2022-23			Previous Year 2021-22		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses			-			-
2 Academic expenses						
3 Administrative expenses			-		12,797.00	12,797.00
4 Transportation expenses			-		23,748.00	23,748.00
5 Repairs & Maintenance			-			-
6. Depreciation		16,04,313.00	16,04,313.00		1,43,063.00	1,43,063.00
7 Other expenses		14,700.00	14,700.00		66,950.78	66,950.78
Total	-	16,19,013.00	16,19,013.00	-	2,46,558.78	2,46,558.78

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SCHEDULE - 23: SIGNIFICANT ACCOUNTING POLICIES

- The Accounts have been maintained in the format as prescribed by the Government of India, Ministry of Human Resource Development
- The Accounts have been prepared on accrual basis.
- Depreciation on fixed Assets has been provided on Straight Line value method, at the following rates:

Sl. No.	Name of the Asset	Depreciation rate
1	Land	0.00%
2	Building	2.00%
3	Electrical Installation and Equipment	5.00%
4	Plant and Machinery	5.00%
5	Office Equipment	7.50%
6	Computer and Peripherals	20.00%
7	Furniture, Fixtures and Fittings	7.50%
8	Vehicles	10.00%
9	Library Books and Scientific Journals	10.00%
10	Small Value Assets	7.50%
11	Other Assets	5.00%
12	Equipments	8.00%

- The Fixed Assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.

The fixed assets (which are not returnable to the Grantee) purchased out of Externally funded Projects and Programmes are booked by Credit to Capital fund and merged with Fixed assets of the Institution.

- 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. The same treatment is carried out for the balance available in the Franking machine (Postage),

- The Institute receives grants-in-aid from Government of India under,
 - OH 31 - Pension to retirees, travelling expenses for training of technical teachers, purchase of stores and maintenance, etc.
 - OH-35 - Creation of Capital Assets, and
 - OH 36 - to meet the expenditure on salaries of employees, respectively against Institute's annual budget.
 The funds, if remained unutilized at the end of the financial year, are carried over to the following financial year with the approval of the Government of India.
- For specific projects, where terms and conditions so specified by the grantee, unspent balance/funds, if any, are refunded to the concerned sponsoring agencies/departments after the completion of the respective Project.
- Institute receives funds against Sponsored Programme which are shown as deposits in Schedule 3a. The Institute recognizes the unspent balance of these sponsored programme as its income on completion of Programme and taken to the Reserves and Surplus.
- Institute makes provision of Pay and Allowances, Leave Encashment, cost of stores and consumables, Cost of security, man power, house Keeping etc. Gratuity on actual Basis as outstanding Expenses on the Liability side of the Balance Sheet while accrued Income like interest etc. are shown in the Asset side.
- Corpus Fund and Reserve and Surplus have been created based on the approval of the Finance Committee and BOG.

The following receipts shall be credited to the NITTTR Chennai Reserves and Surplus

- a) Donation
- b) Tuition fee collected from the students/scholars.
- c) Overhead charges of Projects, OTC, SWAYAM and any other events/workshops/Training Programmes / funds etc.
- d) Surplus of conference, workshop and other events conducted by the institute.
- e) The unspent balance of completed Projects, OTC, SWAYAM and any other events/ workshops / Training Programmes / funds if not required to be refunded to the funding agency.
- f) Testing and Analytical Charges.
- g) Job Work Charges.
- h) Other technical services rendered using the institute infrastructure / manpower.
- i) Interest on investment of Corpus fund, NITTTR Chennai Reserve Funds, Project Funds, OTC Funds, SWAYAM Funds and other funds other than Government Grant and Government Grant in aid Projects.
- j) Any other receipt other than Government grant / loan and interest from deposit of Government grant / loan.

2. Utilization of NITTTR Chennai Reserves and Surplus: The NITTTR Chennai Reserve and Surplus Funds shall be permitted to be utilized for the following expenditure.

I. Capital Expenditure

- a. Scientific and lab equipment
- b. Computer & Peripherals and Software
- c. Office equipment
- d. Library books
- e. Workshop machinery
- f. Furniture
- g. Capital works (Civil and Electrical)

II. Revenue Expenditure

- a. Laboratory consumable
- b. Computer consumable
- c. Pay and Allowances
- d. Conference/Seminar/Human Resource Development expenditure
- e. Repair and Maintenance.
- f. Travelling Allowances for travel pertaining to institute activity
- g. Contingency for the institute activity
- h. Advertisement expenditure pertaining to institute activity
- i. Any other expenditure required for development of the institute as decided by the Director.

- The Financial Statement does not include Accounts of NITTTR Web Portal Account, NITTT Swayam and GPF account as the Institute do not possess the complete ownership of these Accounts and hence separate Annual Accounts are prepared.
- As this Institute is exempted from the Income Tax under Section 10(23C)(iiiab), provision is not made for Income Tax.

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SCHEDULE - 24: NOTES ON ACCOUNTS

Financial Year 2022-23

1. In respect of
 - 1.1 Bank guarantees / LC given by / on behalf of the Institute - NIL
2. Contingent Liability – Land lease due of Rs. 1,22,79,756/- is payable by the Institute to the Government of Kerala for the space occupied by Extension Centre, Kalamassery, Kochi. However, the Institute had taken up the issue of waiver of the above Lease rent with the appropriate authorities. Since it is not yet waived, the liability should be disclosed in Schedule 24.
3. Taxation

In view of there being no taxable Income under Income Tax Act 1961 no provision for Income Tax has been considered necessary.

The Institute is exempted from TDS against income of this Institute including Fees / Charges received from the parties. In this connection, relevant Section 10(23c)(iiiab) of IT Act 1961 is quoted below:

“Any University or other educational institution solely for educational purposes and not for purposes of profit and which is wholly or substantially financed by the Government is exempted from Income Tax”.
4. Corresponding figures for the previous year have been regrouped / rearranged whenever necessary.
5. Schedules 1 to 24 are annexed to and form as Integral part of the Balance Sheet as at 31.03.2023 and Income and Expenditure.
6. NPS amount with interest has been uploaded and remitted in NSDL account. There are 20 Staff members under NPS. 19 staff members are having PRAN and PRAN of 1 staff member is under process.
7. Financial statements of Main Account are prepared on accrual basis.
8. Accounts of OTC, Project and SWAYAM and Corpus have now been merged with the Main Account as per the approval of Director and ratified by the Finance Committee. Therefore, there will be no separate Balance Sheets for the above account from 2022-23 onwards.
9. The interest on deposits are accounted on accrual basis.

10. Reconciliation of CPWD Accounts has been done and tallied with the Utilization Certificate furnished by CPWD.
11. According to MHRD format Schedule 23 is not available. However, the Annual Accounts of this Institute have been preparing schedule 23 in which General Expenses were depicted. Based on the Audit comments Schedule 23 has now been removed and all the current year and previous year expenditures have been transferred to Schedule 17 and Schedule 19 in the respective expenditure heads.
12. In view of the above change, Schedule containing Significant Accounting Policies and Notes on Accounts have been renumbered as 23 and 24 respectively.
13. It is stated that the Grants and subsidies depicted as Income in the Income and Expenditure account exactly matches the total expenditure minus Depreciation before making the Provision for Actuarial Value of Pension and Retirement Benefits and the depiction of Closing Stock. The total Provision for Actuarial Value of Pension and Retirement Benefits projected as on 31/03/2023 is less than last year Provision by Rs.3846949.00 and increase in Closing stock compared to last year amounting Rs.199488.00 have the effect of reducing the actual Expenditure by Rs.4046437.00. As these two items are Non Grant Items like Depreciation, Grants utilized for Revenue Expenditure cannot be reduced to the extent of Rs.4046437.00. Hence there is a difference between Grant and Subsidies in the Income side and the Total Expenditure minus depreciation Expenditure in the Income and Expenditure to the tune of Rs.4046437.00.

UTILIZATION CERTIFICATE

UTILIZATION CERTIFICATE FOR THE YEAR 2022-23
in respect of recurring / non-recurring
GRANTS-IN-AID / SALARIES / CREATION OF CAPITAL ASSETS

1. Name of the Scheme _____
2. Whether recurring or non-recurring grants- Both Recurring and Non-recurring
3. Grants position at the beginning of the Financial year
 - (i) Cash in Hand / Bank - Rs.2687.10 lakh
 - (ii) Unadjusted Advances - NIL
 - (iii) Total - Rs.2687.10 lakh
(Grants receivable – NIL)
4. Details of grants received, expenditure incurred and closing balances:

[Rupees in lakh]

Unspent Balances of Grants received years [figures as at Sl. No. 3(iii)]	Interest Earned thereon	Interest deposited back to the Government	Grant received during the year			Total available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
1	2	3	4			5	6	7
			Sanction No. (i)	Date (ii)	Amount (iii)			
2,687.10	103.32	NIL	Enclosed in the Annexure			3,800.00	6,590.42	3,011.65
								3,578.77

Component wise utilization of grants:

[Rupees in lakh]

Grant-in-aid General (OH-31)	Grant-in-aid Creation of Capital Assets (OH-35)	Grant-in-aid Salaries (OH-36)	Total
1,484.53	299.34 (CPWD Refund of Rs.92.31 lakh adjusted)	1,227.78	3,011.65

Details of grants position at the end of the year

- (i) Cash in Hand / Bank - Rs.3,578.77 lakh
- (ii) Unadjusted Advances - NIL
- (iii) Total - Rs.3,578.77 lakh
(Grants receivable – NIL)

Certified that I have satisfied myself that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under..... (name of the scheme) has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure – I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: July 7, 2023

Place: Chennai - 600113

[Prof. Dr. USHA NATESAN]
DIRECTOR

Details of Grant-in-aid received during the year 2022-23

[Rupees in Lakh]

GiA released	OH 31 General	OH 35 Capital Assets	OH 36 Salaries	Total
April 2022 to March 2023	1,500.00	900.00	1,400.00	3,800.00

OH-31 (GENERAL)

Sanction No.	Sanction Date	Amount (Rs.)	OH	Sub Head	Received Date
F. No. 5-3/2022-TS.IV	12-09-2022	4,67,00,000.00	31	Gen	01-10-2022
F. No. 5-3/2022-TS.IV	12-09-2022	87,00,000.00	31	Gen	01-10-2022
F. No. 5-3/2022-TS.IV	12-09-2022	46,00,000.00	31	Gen	20-09-2022
F. No. 5-3/2022-TS.IV	22-12-2022	9,00,00,000.00	31	Gen	02-01-2023

15,00,00,000.00**OH-35 (CAPITAL ASSETS)**

Sanction No.	Sanction Date	Amount (Rs.)	OH	Sub Head	Received Date
F. No. 5-3/2022-TS.IV	09-06-2022	2,00,00,000.00	35	Gen	18-06-2022
F. No. 5-3/2022-TS.IV	22-12-2022	5,27,00,000.00	35	Gen	02-01-2023
F. No. 5-3/2022-TS.IV	22-12-2022	1,13,00,000.00	35	Gen	02-01-2023
F. No. 5-3/2022-TS.IV	22-12-2022	60,00,000.00	35	Gen	02-01-2023

9,00,00,000.00**OH-36 (SALARIES)**

Sanction No.	Sanction Date	Amount (Rs.)	OH	Sub Head	Received Date
F. No. 5-3/2022-TS.IV	09-06-2022	2,00,00,000.00	36	Gen	01-07-2022
F. No. 5-3/2022-TS.IV	12-09-2022	2,98,00,000.00	36	Gen	01-10-2022
F. No. 5-3/2022-TS.IV	12-09-2022	67,00,000.00	36	Gen	01-10-2022
F. No. 5-3/2022-TS.IV	12-09-2022	35,00,000.00	36	Gen	29-09-2022
F. No. 5-3/2022-TS.IV	22-12-2022	7,00,00,000.00	36	Gen	02-01-2023
F. No. 5-3/2022-TS.IV	20-03-2023	1,00,00,000.00	36	Gen	23-03-2023

14,00,00,000.00

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RECEIPTS AND PAYMENTS ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2022-23

RECEIPTS		Current Year 2022-23	Previous Year 2021-22	PAYMENTS		Current Year 2022-23	Previous Year 2021-22
I. Opening Balances				I. Expenses			
a) Cash Balances		-		a) Establishment Expenses		19,13,30,631.00	17,30,13,960.00
b) Bank Balance				b) Academic Expenses		9,95,506.00	50,000.00
i) In Current Amounts		1,11,616.85		c) Administrative Expenses		6,47,23,991.34	4,11,94,646.52
ii) In Deposit Accounts		33,98,23,119.00		d) Transportation Expenses		9,52,946.00	4,58,767.30
iii) Savings Accounts		15,16,70,756.64	25,32,23,634.65	e) Repairs & Maintenance		35,74,982.00	33,96,029.10
				f) Prior period expenses		9,273.00	66,950.78
				g) General Expenditure			
II. Grants Received							
a) From Central Government				II. Expenditure on Fixed Assets and Capital Works-in-Progress			
for Revenue Expenditure		29,00,00,000.00	23,50,00,000.00	a) Fixed Assets : Capital Expenditure		2,98,30,411.00	
for Capital Expenditure		9,00,00,000.00	2,00,00,000.00				
b) From State Government							
c) From other sources - Grants Recivable			-				
(Grants for capital & revenue exp/ to be shown separately, if available)							
III. Academic Receipts			4,84,967.00	III. Other Payments including statutory payments			1,28,17,339.00
IV. Receipts against Earmarked/Endowment Funds/Corpus fund		-237626.00	19,02,16,651.11	IV. Deposits and Advances			
V. Receipts against Sponsored Projects/ Schemes		4483019.54		Deposit Others			3,05,92,074.00
Direct Incomes				Other Advances		48,65,439.64	37,01,949.00
IGH Room Rent (International Guest House)		813160.00	-	Deposits - Electricity			
PENAL INTEREST ON ADVANCES TO STAFF		608.00	-	Security Deposit - NLC			
Prior Period Income		1085588.00		1. ADVANCE TO EMPLOYEES			
Seminar Hall Rent		114300.00		3. ADVANCE & OTHER AMOUNTS REC'ABLE IN CASH/KIND			
SERB - Karyashala (BSPV) Registration Fee		25000.00		4. PREPAID EXPENSES			
TGH Room Rent (Trainees Guest House)		599650.00		5. DEPOSITS			
Training Coordination Fee		2228743.16		Income Receivable			
Yoga Hall		20000.00	-	2. LONG TERM ADVANCES TO EMPLOYEES			
Fees & Subscriptions(14)		816401.00	-	6. Interest Accrued			
Income From Sales & Service (12)		919389.00	-	Loans & Advances (ME Examination fee Receivable)		5700.00	
Other Income		330843.04	-				

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2022-23 (Contd.)

RECEIPTS	Current Year 2022-23	Previous Year 2021-22	PAYMENTS		Current Year 2022-23	Previous Year 2021-22
			V. Closing balances			
VI. Deposit on account of externally funded projects			a) Cash in hand			
VII. Income on SDR Interest	8,60,357.00	1,33,94,878.00	b) Bank balances			
Interest on Loans and Advances		4,23,119.00	In Current Accounts			
Interest on Savings Bank Accounts		2,12,39,661.73	In Savings Accounts			
IX. Sundry Debtors	17382254.60	72,97,416.93	In Deposit Accounts		60,16,11,223.85	49,16,05,492.49
Sundry Creditors		4,525.50	Inoperative SB Accounts(*2)			
XI. Other income (including Prior Period Income)	-1124.00	23,985.00	Inoperative SB Accounts(*2)			
i) Duties and Taxes TDS, Service Tax etc		5,75,305.00				
ii) sale of Books and CDs		14,07,919.00				
XII. Deposits and Advances						
i) Loans and Advances						
ii) Other Deposits	29836.00	90,000.00				
iii) Other Receipts:						
OTC	4550594.00	93,05,571.00				
GPF Special Deposit Interest						
Guest House Room Rent Etc. Incl. Prior Period Income		18,67,009.00				
Royalty						
XIII. Misc Receipts including Statutory Receipts						
Misc Deposit - Atkins	85,248.00					
TGH Mess Exp / Income	7,31,618.00					
OTC LIABILITIES	(57,390.00)					
SWAYAM LIABILITIES	(44,64,000.00)					
STATUTORY RECOVERIES	(40,21,858.00)					
XIV. Any Other Receipts		23,42,565.27				
TOTAL	89,79,00,103.83	75,68,97,208.19	TOTAL		89,79,00,103.83	75,68,97,208.19

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GPF ACCOUNT

National Institute of Technical Teachers Training and Research
Taramani, Chennai - 600 113

PROVIDENT FUND ACCOUNT
BALANCE SHEET AS AT MARCH 31, 2023

Liabilities		2022-23	2021-22	Assets	2022-23	2021-22
GPF						
Opening Balance		3,97,34,058.00	3,60,92,001.00			
Add: Subscriptions in the year		99,10,735.00	1,10,82,524.00	GPF		
Add: Interest Credited		29,16,419.00	25,82,246.00			
		5,25,61,212.00	4,97,56,771.00			
Less: Advance/withdrawal/Part Final		70,56,351.00	1,00,22,713.00			
Closing Balance <u>GPF</u>		4,55,04,861.00	3,97,34,058.00	Temporary Advance	-	-
Unclaimed Balance		-	-			
Employers Contribution		-	-			
Opening Balance		-	-	Cash at Bank : IOB	83,98,265.11	98,94,468.71
Add: Subscriptions in the year				Fixed Deposit Iob	4,02,39,171.00	1,49,207.00
Add: Interest Credited				Fixed Deposit		3,54,25,125.00
Less: Advance/withdrawal/Part Final				Special Deposit IOB	28,04,732.00	
NPS Contra		-		Special Deposit SBI	26,20,393.00	
				Accrued Interest	1,64,119.00	
Closing Balance						
<u>Interest Reserve</u>						
Opening Balance		91,66,559.51	93,76,799.71			
Add: Opening Balance Adjustments						
Less: Excess of expenditure over Income		(4,44,740.40)	(2,10,240.20)			
Closing Balance						
Total		5,42,26,680.11	4,89,00,617.51	Total	5,42,26,680.11	4,54,68,800.71

National Institute of Technical Teachers Training and Research
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PROVIDENT FUND ACCOUNT
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2023

Expenditure	2022-23	2021-22	Income	Amount in Rupees	
				2022-23	2021-22
Interest Credited to:			Interest earned on Investment		
			SDR Interest - Special Deposits	2,88,506.00	4,81,049.00
			Interest on FD	20,51,403.00	16,40,030.00
			SB Interest	1,31,982.00	2,51,269.00
GPF Account					
Interest on subscription	29,16,419.00	25,82,246.00			
Bank charges	212.40	342.20			
Excess of Income over Expenditure	(4,44,740.40)	(2,10,240.20)	Excess of Expenditure over Income		
Total	24,71,891.00	23,72,348.00	Total	24,71,891.00	23,72,348.00

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PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2022-23

Receipts	2022-23	2021-22	Payments	Amount in Rupees	
				2022-23	2021-22
Opening Balance IOB	31,33,742.51	98,94,468.71	GPF Adv./Withdrawal/Part Final	62,16,700.00	89,53,900.00
FIXED DEPOSIT:	4,54,25,125.00	3,54,25,125.00	GPF Final Settlement	8,39,651.00	10,68,813.00
IOB SPECIAL DEPOSIT			Bank charges	212.40	342.20
SBI SPECIAL DEPOSIT			P/F Advance		
IOB FIXED DEPOSIT					
DLI		41,227.00	DLI		41,227.00
Interest Receivable	3,41,750.00	1,49,207.00			
GPF Subscription	99,10,735.00	1,10,82,524.00	Investment during the year		
			<u>Closing Balance:-</u>		
PF FD INTEREST	18,87,284.00	15,43,352.00	FD	4,56,64,296.00	4,54,25,125.00
SPECIAL DEPOSIT INTEREST	2,88,506.00	2,35,977.00	IOB	83,98,265.11	31,33,742.51
SB NORMAL INTEREST	1,31,982.00	2,51,269.00			
Total	6,11,19,124.51	5,86,23,149.71	Total	6,11,19,124.51	5,86,23,149.71

**NATIONAL INSTITUTE OF
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NITTT WEB PORTAL ACCOUNT

National Institute of Technical Teachers Training and Research
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NITTT WEB PORTAL ACCOUNT
Balance Sheet as at 31.03.2023

LIABILITIES	Amount in Rupees				
	2022-23	2021-22	ASSETS	2022-23	2021-22
Capital Fund	6,55,98,799.61	6,47,46,575.99	Bank Accounts	8,19,53,977.37	4,79,52,399.61
OUTSTANDING EXPENSES		77,06,920.00	Fixed Deposits	2,50,00,000.00	2,50,00,000.00
Add: Excess of Income over Expenditure	4,17,08,497.76	8,52,223.62	Refund of TDS overdue		
			Accrued Interest	3,53,320.00	3,53,320.00
Total	10,73,07,297.37	7,33,05,719.61	Total	10,73,07,297.37	7,33,05,719.61

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NITTT WEB PORTAL ACCOUNT

Income & Expenditure Account for the year ended 31.03.2023

	EXPENDITURE	2022-23	2021-22	INCOME	2022-23	2021-22
Bank Charges		59.00	230.00	Course Fees		
General Expenses		6933200.00	3,16,95,718.00	Module/Registration	4,63,32,128.76	3,10,88,943.62
Remuneration		702500.00	5,64,000.00	FDR Interest	16,21,859.00	3,53,320.00
Contingencies		7097.00	23617.00	Bank Interest	13,97,366.00	19,13,080.00
Remuneration for Guest Lecture			5000.00			
Professional Charges			47200.00			
Travel Expenses			99910.00			
Vehicle Hire Charges			19945.00			
Equipment Hire Charges			47500.00			
Excess of Income over expenditure		41708497.76	852223.62			
Total		4,93,51,353.76	3,33,55,343.62	Total	4,93,51,353.76	3,33,55,343.62

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NITT WEB PORTAL ACCOUNT
Receipts & Payments Account for the Financial Year 2022-23

Amount in Rupees					
RECEIPTS	2022-23	2021-22	PAYMENTS	2022-23	2021-22
OPENING BALANCE:					
Cash at Bank	4,79,52,399.61	6,47,33,878.99	Bank Charges	59.00	525.00
FIXED DEPOSITS	2,50,00,000.00	2,50,00,000.00	TDS		
LOCAL PURCHASE ADVANCE		7,583.00	Remuneration	7,02,500.00	
Accrued Income	3,53,320.00	12,697.00	General Expenses	69,33,200.00	2,39,36,381.00
Refund of TDS Due		3,35,23,094.62	Contingencies	7,097.00	23,617.00
Miscellaneous Revenue Receipts	2,10,62,214.00	295.00	Fixed Deposits		2,50,00,000.00
Bank Interest	13,97,366.00	20,33,866.00	Equipment Hire Charges		47,500.00
Duties & Taxes	21,34,497.00		Duties & Taxes	21,34,497.00	20,33,866.00
FDR Interest	12,68,539.00		Professional Charges		47,200.00
Module / Registration fee	4,63,32,128.76		Remuneration for Guest Lecturer		5,000.00
			Remuneration		6,14,000.00
			Travel Expenses		99,910.00
			Outstanding Expenditure NPTEL	16,87,420.00	
			Outstanding Expenditure NTA	60,19,500.00	
			Vehicle Hire Charges		19,945.00
Normal Interest		19,13,080.00	Local Purchase Adv		10,000.00
			Miscellaneous Revenue Receipts	2,10,62,214.00	24,34,151.00
			Cash at Bank	8,19,53,977.37	4,79,52,399.61
			Fixed Deposits	2,50,00,000.00	2,50,00,000.00
Total	14,55,00,464.37	12,72,24,494.61	Total	14,55,00,464.37	12,72,24,494.61

**NATIONAL INSTITUTE OF
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NITTT SWAYAM ACCOUNT

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
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NITTT SWAYAM ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2023

Liabilities	Amount in Rupees		
	2022-23	2021-22	Assets
Opening Balance	1,32,286.68	128394.78	
Add: Excess of Income over Expenditure	3648.80	3,891.90	Balance at Bank
Total	1,35,935.48	1,32,286.68	Total
			1,32,286.68

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2023

Expenditure	Amount in Rupees		
	2022-23	2021-22	Income
Professional Charges			Course Fees
Bank Charges	47.20	53.10	SB Interest
Excess of Income over Expenditure	3,648.80	3,891.90	
Total	3,696.00	3,945.00	Total
			3,945.00

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2022-23

Receipts	Amount in Rupees		
	2022-23	2021-22	Payments
Cash in Hand			Professional Charges
Cash at Bank	1,32,286.68	1,28,394.78	Bank Charges
Course Fees			
SB Interest	3,696.00	3,945.00	Cash in Hand
TOTAL	1,35,982.68	1,32,339.78	TOTAL
			1,35,982.68
			1,32,339.78



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