



ANNUAL REPORT

2023 - 2024

**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH**

**Institution Deemed to be University under Distinct Category
A Centrally Funded Technical Institute (CFTI)
Ministry of Education, Government of India
Taramani, Chennai – 600 113**

PROMOTING EXCELLENCE IN TECHNICAL EDUCATION

ANNUAL REPORT

2023-2024
(ENGLISH VERSION)



**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH**
Institution Deemed to be University under Distinct Category,
A Centrally Funded Technical Institute, Ministry of Education,
Government of India, Taramani, Chennai 600 113.

TABLE OF CONTENTS
PART-I
ACTIVITY REPORT

CONTENTS

1. PREAMBLE	1
2. OBJECTIVES	2
3. FOCUS OF ACTIVITIES DURING 2023-2024	3
4. PROFESSIONAL DEVELOPMENTAL PROGRAMMES	4
4.1. LONG – TERM TRAINING PROGRAMMES.....	4
4.1.1. OVERSEAS TRAINING COURSES (OTC).....	4
4.2. SHORT-TERM TRAINING PROGRAMMES.....	7
4.2.1. ONLINE MODE PROGRAMMES.....	7
4.2.2. CONTACT MODE PROGRAMMES.....	13
4.2.3. ENGINEERING COLLEGE PROGRAMMES.....	17
4.2.4. SPECIAL PROGRAMMES.....	19
4.2.4.1. ATAL PROGRAMMES.....	19
4.2.4.2. SKILL DEVELOPMENT PROGRAMMES	20
4.2.4.3. INDUSTRIAL TRAINING PROGRAMMES	20
4.2.4.4. OTHER SPECIAL TRAINING PROGRAMMES	21
5. ACADEMIC AND RESEARCH PROGRAMMES	22
5.1.1. DOCTORAL RESEARCH PROGRAMME.....	22
5.1.2. POST-GRADUATE PROGRAMME	23
6. FACULTY ACHIEVEMENT FUNDS	24
6.1. BOOKS AUTHORED / EDITED BOOKS / CHAPTERS / PAPER PRESENTATION IN CONFERENCE PROCEEDINGS PUBLISHED	24
6.2. PAPER PUBLISHED IN JOURNALS	25
6.3. RESEARCH PUBLICATIONS IN NATIONAL / INTERNATIONAL CONFERENCE (PRESENTED).....	27
6.4. PATENTS AWARDED	29
6.5. INVENTORS OF PATENTS	29
6.6. NABL / NBA / NAAC VISIT BY FACULTY	29

6.7. PARTICIPATION OF FACULTY MEMBERS IN NATIONAL/INTERNATIONAL EVENTS.....	31
7. ACHIEVEMENTS OF STUDENTS	32
7.1. STUDENTS INTERNSHIPS: BRIDGING ACADEMIA AND INDUSTRY	34
8. CURRICULUM DEVELOPMENT	34
9. INSTRUCTIONAL MATERIALS DEVELOPMENT	36
10. INSTRUCTIONAL MEDIA DEVELOPMENT	36
11. RESEARCH AND CONSULTANCY PROJECTS	37
12. NATIONAL PROJECTS	39
12.1. SWAYAM	39
12.2. NATIONAL INITIATIVES FOR TECHNICAL TEACHERS TRAINING (NITTT)	41
13. VISIT OF EMINENT / DISTINGUISHED EXPERTS	42
14. MEMORANDUM OF UNDERSTANDING	46
15. SEMINAR / WEBINARS / WORKSHOPS CONDUCTED	49
16. IMPLEMENTATION OF THE USE OF HINDI LANGUAGE	51
17. CELEBRATION OF NATIONAL DAYS	51
18. RECRUITMENT REFORMS	54
19. ADMINISTRATIVE REFORMS	54
20. ACADEMIC REFORMS	55
21. BOARD AND SUB COMMITTEES	56

REPORT ON ACCOUNTS

PART II

1	AUDIT CERTIFICATE AND AUDIT REPORT	63
	ANNUAL ACCOUNTS	
	BALANCE SHEET AS AT 31.03.2024.....	68
	INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2024.....	69
	SCHEDULE -1 CORPUS/CAPITAL FUND.....	70
	SCHEDULE -2 DESIGNATED/ EARMARKED / ENDOWMENT FUNDS.....	71
	SCHEDULE -2 A ENDOWMENT FUNDS.....	72
	SCHEDULE -2 B DESIGNATED FUNDS.....	73
	SCHEDULE -3 CURRENT LIABILITIES & PROVISIONS.....	74
	SCHEDULE -3 A SPONSORED PROJECTS.....	76
	SCHEDULE -3 B(1) DEPOSIT ON ACCOUNT OF EXTERNALLY FUNDED PROJECTS	78
	SCHEDULE -3 B(2) OTC LIABILITIES.....	79
	SCHEDULE -3 (C) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS.....	80
	SCHEDULE -4 FIXED ASSETS	82
	SCHEDULE -4 A PLAN	83
	SCHEDULE-4 B NON – PLAN	84
	SCHEDULE-4 C-INTANGIBLE ASSETS	85
	SCHEDULE -4 (C) (i) PATENTS AND COPYRIGHTS	86
	SCHEDULE -4 D OTHERS	87
	SCHEDULE-5 : INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	88
	SCHEDULE-5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUND WISE).....	89
	SCHEDULE -6 - INVESTMENTS – OTHERS	90
	SCHEDULE -7 - CURRENT ASSETS	91
	SCHEDULE -8 - LOANS, ADVANCES & DEPOSITS.....	93
	SCHEDULE -9 - ACADEMIC RECEIPTS	94
	SCHEDULE 10 -GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)	95
	SCHEDULE 11- INCOME FROM INVESTMENTS	96

SCHEDULE 12- INTEREST EARNED	97
SCHEDULE 13- OTHER INCOME	98
SCHEDULE 14 - PRIOR PERIOD INCOME	99
SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)	100
SCHEDULE 15-A – EMPLOYEES RETIREMENT AND TERMINAL BENEFITS	101
SCHEDULE 16 - ACADEMIC EXPENSES	102
SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	103
SCHEDULE 18- TRANSPORTATION EXPENSES	104
SCHEDULE 19 - REPAIRS & MAINTENANCE	105
SCHEDULE 20 - FINANCE COSTS	106
SCHEDULE 21 - OTHER EXPENSES	107
SCHEDULE 22 - PRIOR PERIOD EXPENSES	108
SCHEDULE 23 - SIGNIFICANT ACCOUNTING POLICIES	109
SCHEDULE 24 - NOTES ON ACCOUNTS	112
UTILISATION CERTIFICATE	114
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24	118
2 GPF ACCOUNT	
BALANCE SHEET AS AT MARCH 31, 2024	121
INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31.03.2024	122
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24	123
3 NITTT WEB PORTAL ACCOUNT	
BALANCE SHEET AS AT MARCH 31, 2024	125
INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31.03.2024	126
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24	127
4 NITTT SWAYAM ACCOUNT	
BALANCE SHEET AS AT MARCH 31, 2024	129
INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31.03.2024	129
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24	129

1. 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. 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 cliental 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 trainings 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 text books, laboratory manuals, video programmes, computer assisted instructional multimedia packages to technical institutions and other organizations
- 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/organizations
- 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 NITTTTR, Chennai is the National Coordinator for this project.
- To coordinate National Initiative for Technical Teachers Training policy of AICTE

3. FOCUS OF ACTIVITIES DURING 2023-2024

The institute periodically reorients its programmes and activities to proactively respond to the changing needs of the clientele system. During 2023-24, 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 2023-2024:

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, 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 lead in 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. Expert committee visit to facilitate accreditation
 - b. Technical and consultancy service in the area of engineering/technology
 - c. Need based human resource development programmes and projects for Industries, Govt. Departments and Service Organizations

4. PROFESSIONAL DEVELOPMENT PROGRAMMES

Professional development programmes for teachers of engineering colleges and polytechnics is a priority area of the institute. In recognition of this, the institute planned and conducted a variety of short-term and long-term training programmes and webinars and workshops for teachers and staff of the polytechnics, engineering colleges as well as teachers from overseas to enable them to acquire competencies relevant to their respective areas of work.

4.1. LONG-TERM TRAINING PROGRAMMES

4.1.1. OVERSEAS TRAINING COURSES (OTC)

In the year 2023-24, 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.

Table 1 Overseas Training Courses during 2023-2024

Sl. no	Mode	Course Title	Duration	No. of Countries represented	Participants No.	Course Coordinator
1	Contact	Integrating Industry 4.0 Competency and Twenty First (21st) Century Skills in Educational Institutions	July 26-August 22, 2023	17	25	Dr. G. Kulanthaivel
2	Contact	Educational Media Production for E-Learning	August 30-September 26, 2023	29	29	Dr. P. Malliga
3	Contact	Quality Assurance Through Accreditation in Higher Education in Developing Countries	November 15-December 12, 2023	16	28	Dr. G. Janardhanan Dr. K.S.A. Dinesh Kumar
4	Contact	Strengthening Technical and Vocational Education & Training (TVET) systems to meet the Sustainable Development Goals (SDGs) of United Nations	January 24-February 20, 2024	15	30	Dr.G.Kulanthaivel
5	Contact	Sustainable Rural Development through Entrepreneurship and Innovation	January 24-February 20, 2024	4	10	Dr. K.S. Giridharan
6	Contact	Skill Development in Electronics for TVET Trainers and Planners	January 24-February 20, 2024	3	6	Dr. G.A. Rathy Dr. P. Sivasankar
7	Contact	Total Solution for Integrated Library System	February 28-March 12, 2024	18	30	Dr. R. Ravichandran
8	Online	Integrating Information and Communication Technology tools for Teaching and Learning	November 06-17, 2023	6	20	Dr.G.Kulanthaivel

9	Online	Digital Learning and Teaching Technologies	October 30- November 10, 2023	11	23	Dr.G.Kulanthaivel Dr. P. Malliga
Total					201	

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.



Integrating Industry Competency and Twenty



Educational Media Production for E-learning



Quality Assurance Through Accreditation in Higher Education in Developing Countries



Strengthening Technical and Vocational Education & Training (TVET) systems to meet the Sustainable Development Goals (SDGs) of United Nations & Sustainable Rural Development through Entrepreneurship and Innovation



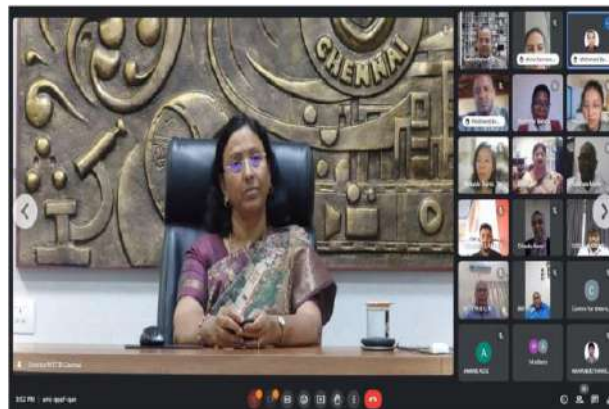
Skill Development in Electronics for TVET Trainers and Planners



Total Solution for Integrated Library System



Integrating Information and Communication Technology tools for Teaching and Learning

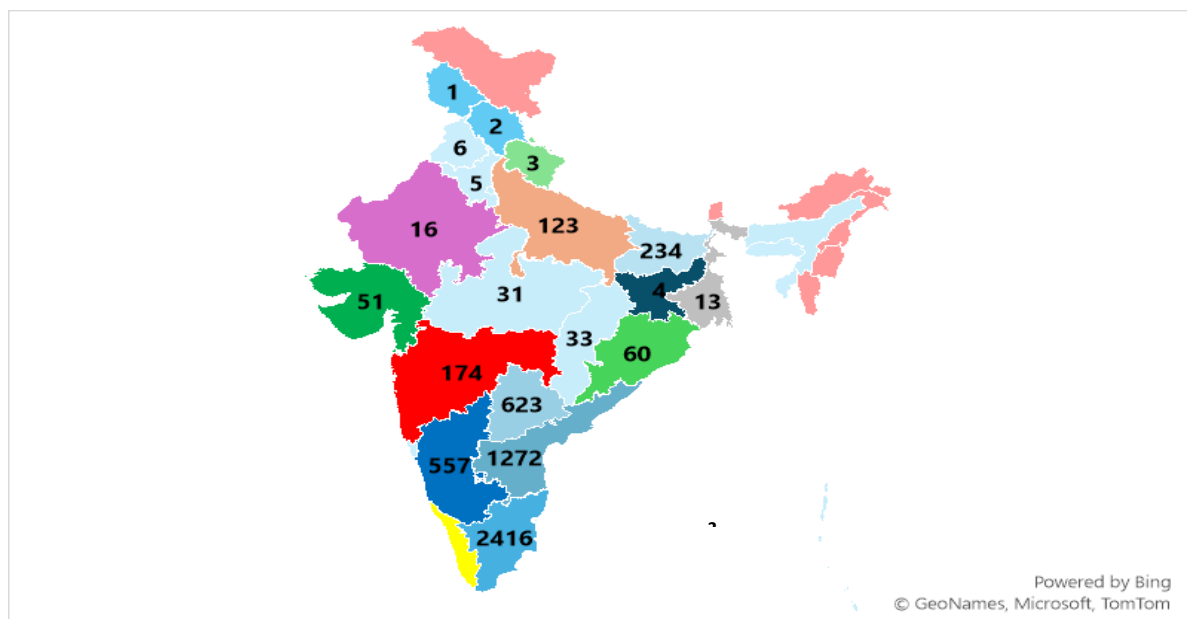


Digital Learning and Teaching Technologies

4.2. SHORT-TERM TRAINING PROGRAMMES

4.2.1. ONLINE MODE PROGRAMMES

Due to the prevailing pandemic, higher education system especially technical education has been transformed to the greater extent. Our teaching fraternity raised to the occasion by offering online education and created a greater impact in the establishment of knowledge society. NITTTR Chennai has a greater responsibility in empowering the technical teachers of our country and especially teachers from south India. To provide uninterrupted knowledge service and embrace new normal life, NITTTR Chennai started to offer online training programmes for the faculty members of technical institutions. The specific training need of the teachers of the polytechnics in each of the Southern States were identified through need analysis carried out by our extension centres and the State Directorates of Technical Education.



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.



Table 2 List of PDP Online Mode Programmes conducted during 2023-2024

Sl. No	Course Title	Duration	No. of Weeks	Participants No
1	Embedded Controllers and IoT Applications	April 10-14, 2023	One week	16
2	PHP and MySQL	April 17-21, 2023	One week	16
3	Geotechnical Engineering for Infrastructure	April 17-21, 2023	One week	21
4	Energy and Environmental Management	April 17-21, 2023	One week	24
5	Nanotechnology and Applications	April 17-21, 2023	One week	28
6	Innovative HR Approaches	April 17-21, 2023	One week	19
7	Modern Marketing Techniques	April 24-28, 2023	One week	15
8	Computer Communication and Networks	April 24-29, 2023	One week	20
9	Immersive Media Technologies-AR, VR and MR	May 08-12, 2023	One week	11
10	Programming in C	May 08-12, 2023	One week	17
11	Thermal Power and Energy Engineering	May 08-12, 2023	One week	23
12	Employability Skills for Youth	May 08-12, 2023	One week	17
13	Foundations of Cryptography	May 15-19, 2023	One week	11
14	Work Life Balance	May 22-26, 2023	One week	26
15	Advanced Computer Architecture	May 29 – June 02,	One week	12
16	MATLAB and LabVIEW Applications	May 29 – June 02,	One week	34
17	Circuit Simulation and PCB Design using Multisim	June 05-09, 2023	One week	36
18	Advances in Casting & Manufacturing	June 05-09, 2023	One week	27

Sl. No	Course Title	Duration	No. of Weeks	Participants No
19	Digital Business Management-An Overview	June 12-16, 2023	One week	12
20	Python for Beginners	June 12-16, 2023	One week	28
21	Behavioural Training for Effective Teaching	June 12-16, 2023	One week	33
22	Student Psychology	June 12-16, 2023	One week	112
23	AR and VR Foundation	June 12-16, 2023	One week	15
24	Advances in Heat Treatment & Material Processing	June 12-16, 2023	One week	33
25	Construction Techniques for Earthquake Resistant Structures	June 19-23, 2023	One week	10
26	Lean Construction Concepts and Management	June 19-23, 2023	One week	9
27	Developing Instructional Material	June 19-23, 2023	One week	22
28	Smart Manufacturing	July 03 –07, 2023	One week	34
29	Realms of Environmental, Social and Governance: Way to Sustainable Entrepreneurship	July 03 -07, 2023	One week	17
30	Applications in Power Electronics	July 10 -14, 2023	One week	26
31	Digital Pedagogy and Online Tools	July 10 -14, 2023	One week	22
32	Nanotechnology & Applications	July 10 -14, 2023	One week	41
33	Academic Leadership and Classroom Management	July 17-21, 2023	One week	25
34	Traffic Engineering applications in road infrastructure projects (Gati Shakti Programme initiative)	July 17-21, 2023	One week	26
35	Data Analytics	July 17-21, 2023	One week	13
36	Industry 4.0 and Internet of Things (IoT) Applications	July 17-21, 2023	One week	37
37	Empowering Research & Statistical Analysis	July 24-28, 2023	One week	18
38	Innovative Use of Educational Media and Technology	July 24-28, 2023	One week	23
39	Refrigeration & Air conditioning	July 24-28, 2023	One week	25
40	Enterprise Risk Assessment	July 31 – August 04, 2023	One week	12
41	Sustainable Construction Materials & Techniques	July 31 – August 04, 2023	One week	13
42	Cyber Security	August 07-09, 2023	One week	12
43	NBA Accreditation	August 07-11, 2023	One week	24
44	Methodology for Effective Teaching	August 07-11, 2023	One week	21
45	Industrial Automation using PLC, Pneumatics and Robotics	August 07-11, 2023	One week	23
46	Recent Trends in Control System Engineering	August 07-11, 2023	One week	21

Sl. No	Course Title	Duration	No. of Weeks	Participants No
47	Advances in Welding & Manufacturing	August 07-11, 2023	One week	9
48	Recent Trends in Unmanned Aerial Vehicle (UAV)	August 07-11, 2023	One week	19
49	Digital Forensics	August 21-25, 2023	One week	16
50	Induction Training	August 21 – September 01, 2023	Two Weeks	23
51	Instructional Design and Delivery System	August 21-25, 2023	One week	10
52	Advanced Pedagogy	August 28 – September 01, 2023	One week	42
53	Advanced Data Base Management System	August 28 – September 01, 2023	One week	6
54	Data Communication & Networking	August 28 – September 01, 2023	One week	17
55	Simulation using ORCAD-PSPICE	September 04-08, 2023	One week	19
56	NBA Accreditation Process	September 11-15, 2023	One week	19
57	Counselling for Student Development	September 11-15, 2023	One week	12
58	Capacity Building for Teachers	September 11-15, 2023	One week	8
59	MATLAB/SIMULINK for Engineering Applications	September 11-15, 2023	One week	29
60	Trends in 3D Printing & Manufacturing Techniques	September 11-15, 2023	One week	41
61	English for Research	September 19-23, 2023	One week	21
62	Smart City Concepts and Mobility Challenges (Under PM Gati Shakti)	September 25-30, 2023	One week	27
63	Advances in Materials & Manufacturing	September 25-30, 2023	One week	32
64	Innovative Applications and Use Cases of UAVs	September 25-30, 2023	One week	24
65	Ecological Entrepreneurship	October 03-07, 2023	One week	13
66	Machine Learning	October 09-13, 2023	One week	23
67	Arduino Programming using Tinkercad	October 09-13, 2023	One week	9
68	Computer Integrated Manufacturing	October 09-13, 2023	One week	37
69	Advanced Data Structure	October 16-20, 2023	One week	25
70	Graphical System Design using LabVIEW	October 16-20, 2023	One week	20
71	Applications of Artificial intelligence in Electrical and Electronics Engineering	October 16-20, 2023	One week	44
72	Capacity Building for promoting Entrepreneurs	October 16-20, 2023	One week	15

Sl. No	Course Title	Duration	No. of Weeks	Participants No
73	Industry 5.0: Concepts and Implementation	October 16-20, 2023	One week	21
74	Social Entrepreneurship	October 30–November 03, 2023	One week	25
75	Work Life Balance	November 06-10, 2023	One week	15
76	Object Oriented System Design	November 13-17, 2023	One week	38
77	Nano technological Interventions in Entrepreneurship	November 13-17, 2023	One week	29
78	Indian Knowledge Systems	November 20-24, 2023	One week	29
79	Principles of Materials Design in English Language Teaching	November 20-24, 2023	One week	19
80	Modern tools usage in Electrical and Electronics Engineering	November 20-24, 2023	One week	23
81	Emerging Trends in Metrology and Inspection	November 20-24, 2023	One week	24
82	Environmental Remediation Tools	November 20-24, 2023	One week	18
83	Outcome Based Assessment	November 29 – December 01, 2023	One week	23
84	Gamification Practices in Language Pedagogy	December 18-22, 2023	One week	46
85	Artificial Intelligence applications in Power Plants	December 18-22, 2023	One week	19
86	Renewable Energy Applications	December 18-22, 2023	One week	27
87	Non-Traditional Machining	December 18-22, 2023	One week	15
88	Question Paper Authoring and Student Evaluation	December 26-30, 2023	One week	24
89	Enterprise Governance	December 26-30, 2023	One week	16
90	Effective teaching of Mathematical Applications in Engineering	December 26-30, 2023	One week	19
91	Gamification Practices in Language Pedagogy	January 1-5, 2024	One week	25
92	Special Electrical Machine	January 1-5, 2024	One week	20
93	Transportation planning and green building	January 8-12, 2024	One week	37
94	C – 24 Curriculum Design and Development	January 10-12, 2024	One week	37
95	Assessment and Developing Teaching Competency	January 8-12, 2024	One week	15
96	Electrical & Electronic Systems for wind & solar	January 8-12, 2024	One week	41
97	Bibliometric Analysis and Reference Management	January 8-12, 2024	One week	8
98	Entrepreneurship in the digital age	January 8-12, 2024	One week	16
99	Counselling for Student Development	January 16-20, 2024	One week	23
100	Artificial Intelligence for Teaching and Learning	January 22-27, 2024	One week	33

Sl. No	Course Title	Duration	No. of Weeks	Participants No
101	Artificial Intelligence	January 29 – February 02, 2024	One week	16
102	Development of Learner Centric Online Courses	January 29 – February 02, 2024	One week	46
103	Clean and Green Energy Technology	January 29 – February 02, 2024	One week	17
104	Faculty Entrepreneurs: Unleashing innovation	January 29 – February 02, 2024	One week	16
105	Environmental Monitoring and Assessment	February 5-9, 2024	One week	15
106	GIS applications in SMART City Development	February 5-9, 2024	One week	19
107	Strategic supply chain management	February 5-9, 2024	One week	16
108	Resilient Women Leadership Development	February 5-9, 2024	One week	10
109	Energy Engineering and Management	February 12-16, 2024	One week	17
110	Internet of Things	February 12-16, 2024	One week	32
111	NBA Process	February 12-14, 2024	One week	33
112	Educational Tools for Teaching	February 12-16, 2024	One week	16
113	Nanotechnology & Applications	February 12-16, 2024	One week	23
114	AI and ML in Drone Applications	February 12-16, 2024	One week	20
115	Data Handling and Visualization	February 12-16, 2024	One week	28
116	Analysis of multistoried buildings for Vertical and lateral loads	February 19-23, 2024	One week	16
117	Geographical Information System Applications in Disaster Management	February 19-23, 2024	One week	53
118	Academic Leadership and Classroom Management	February 19-23, 2024	One week	14
119	Design Thinking in Pedagogy	February 19-23, 2024	One week	33
120	Analytics for Beginners	February 19-23, 2024	One week	23
121	Web Application Frameworks	February 19-23, 2024	One week	18
122	Applied Mathematics with GeoGebra	February 19-23, 2024	One week	20
123	Resilient Pedagogy and Heutagogy	February 26 – March 01, 2024	One week	30
124	Simulations in Electronics	February 26 – March 01, 2024	One week	19
125	Smart Grid Technology	February 26 – March 01, 2024	One week	17
126	Design of RCC and Steel Structures	March 04-08, 2024	One week	25
127	Machine Learning	March 04-08, 2024	One week	21
128	Advanced Pedagogy	March 04-08, 2024	One week	16

Sl. No	Course Title	Duration	No. of Weeks	Participants No
129	Python for Beginners	March 04-08, 2024	One week	26
130	Smart Manufacturing	March 04-08, 2024	One week	23
131	Rural Entrepreneurship Development	March 04-08, 2024	One week	17
132	Data Mining	March 11-15, 2024	One week	47
133	Empower Her Voice A Strategic Communication Masterclass	March 11-15, 2024	One week	16
134	MATLAB and LabVIEW Programming for Engineering Applications	March 11-15, 2024	One week	67
135	Free Software for Collaborative Learning	March 11-15, 2024	One week	21
136	Automobile and Refrigeration and Air conditioning	March 11-15, 2024	One week	19
137	IoT and Image Processing in Robotics / UAV Applications	March 11-15, 2024	One week	28
138	Applications of Transform Techniques in Engineering Mathematics	March 11-15, 2024	One week	26
139	MongoDB	March 11-15, 2024	One week	14
140	Sensors and Instrumentation	March 11-15, 2024	One week	19
141	Realms of Eco-taxation	March 11-15, 2024	One week	20
142	Design of Steel Structures	March 18-22, 2024	One week	20
143	Coding Skills for Women Entrepreneurs	March 18-22, 2024	One week	8
144	Developing Teaching Professionals for Institutional Development	March 18-22, 2024	One week	22
145	Internet of Things (IoT)	March 18-22, 2024	One week	49
146	Machine Learning Using Python	March 18-22, 2024	One week	28
147	Blue economy and Entrepreneurship	March 18-22, 2024	One week	29
148	Energy, Thermal and Refrigeration and Airconditioning	March 25-29, 2024	One week	20
149	Blockchain Technologies	March 25-30, 2024	One week	13
150	Chemo-metric Tools in Product Design	March 25-30, 2024	One week	7
151	Modern Geotechnical Engineering and Ground Improvement Techniques	March 25-29, 2024	One week	49
Total				3542

4.2.2. CONTACT MODE PROGRAMMES

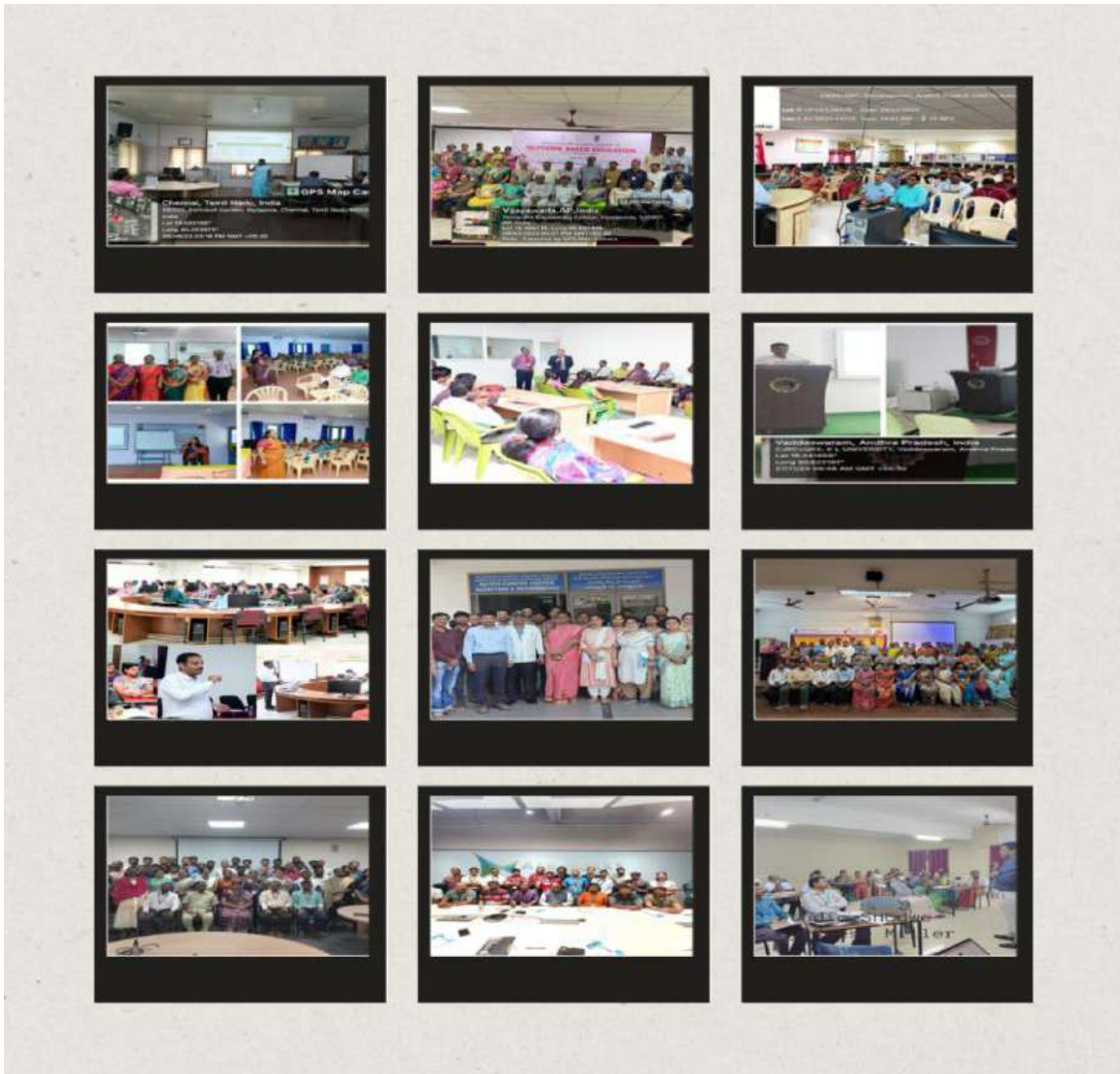
The institute has expertise to conduct contact mode training programme from the inception. The institute had conducted 70 programmes for faculty members of polytechnic colleges/ State Government Engineering Colleges / Private Engineering Colleges. A total of 1690 participants attended these training programmes.

Table 3 List of PDP Contact Mode Programmes conducted during 2023-2024

Sl.	Course Title	Duration	No. of Weeks	Participants No.
1	Course file preparation for Arch, CE and allied branches	April 24-29, 2023	One Week	30
2	Induction Training Programme	April 24 – May 05, 2023	Two Weeks	34
3	Industrial Practices in Civil Engineering	May 15 – June 02, 2023	Three Weeks	7
4	Trends in CNC Machining & Metrology	May 15-19, 2023	One Week	27
5	Advanced Pedagogy	May 29 – June 02,	One Week	41
6	Analysis and Design of structures using ETABS	June 05-09, 2023	One Week	23
7	Course File Preparation for Outcome Based Education	June 05-09, 2023	One Week	36
8	NBA and SAR Preparation	June 05-09, 2023	One Week	51
9	Programming in C	June 12-16, 2023	One Week	29
10	NBA Accreditation	June 19-23, 2023	One Week	28
11	Renewable Energy Sources	June 19-23, 2023	One Week	18
12	Green Campus Initiatives for Higher	June 26-28, 2023	3 days	19
13	Competency Based Lab instruction and Evaluation for CSE and allied branches	June 26 - July 07, 2023	Two Weeks	33
14	Emerging Trends in 3D Printing	July 03-07, 2023	One Week	26
15	Induction Programme	July 10 -21, 2023	Two Weeks	33
16	Competency Based Lab instruction and Evaluation for CE	July 17-22, 2023	One Week	22
17	Competency Based Lab instruction and Evaluation for EEE	July 17-22, 2023	One Week	21
18	Project mode of fostering management skills among Diploma Engineers	July 24 – August 04, 2023	Two Weeks	23
19	Design and Development of a Management Project	July 24-28, 2023	One Week	15
20	Computer Hardware and Networking	July 24-28, 2023	One Week	24
21	Course File Preparation for Outcome Based Education	July 24-28, 2023	One Week	20
22	Recent trends in Power Systems	July 24-28, 2023	One Week	19
23	Industry 4.0 – Concepts & Applications	July 24-28, 2023	One Week	20
24	Capacity Building to guide management project	July 31 – August 04, 2023	One Week	22
25	Pharmaceutical Industrial Management	August 07-11, 2023	One Week	26
26	Robot Modelling & Simulation	August 21-25, 2023	One Week	15

Sl.	Course Title	Duration	No. of Weeks	Participants No.
27	Recent trends in Marketing	August 21-25, 2023	One Week	15
28	Interior Design	August 28 – September 01, 2023	One Week	5
29	Institutional Development and Administration	August 28 – September 01, 2023	One Week	26
30	Professional English for Technical Teachers	August 28 – September 01, 2023	One Week	9
31	Industrial Training in Mechanical Engineering [Combined with RKMSH Vivekananda BPCL Skill Development Centre, Chennai]	August 28 – September 01, 2023	One Week	16
32	Trends in Mechatronics & Manufacturing	August 28 – September 01, 2023	One Week	8
33	Institutional Development and Administration	September 11-15, 2023	One Week	32
34	Course File Preparation for ECE	September 11-15, 2023	One Week	33
35	Industrial and Medical Applications of Robots	September 11-15, 2023	One Week	16
36	Structural Analysis using ETABS	September 19-23, 2023	One Week	15
37	Embedded Systems Design and Development	October 30– November 03, 2023	One Week	25
38	Switch gear Protection, PLC and SCADA	November 06-10, 2023	One Week	25
39	Industrial Applications of UAVs	November 06-10, 2023	One Week	26
40	Open Book Examination System for Industrial Management and Entrepreneurship	November 06-10, 2023	One Week	30
41	Industrial Management and Entrepreneurship under Open Book Examination System	December 04-08, 2023	One Week	18
42	The ABCs of Marketing Automation	December 18-20, 2023	3 days	38
43	Non-Traditional Machining	December 18-22, 2023	One Week	17
44	Greener Technologies	December 18-22, 2023	One Week	17
45	3D Asset Development using Blender and Unreal Engine			9
46	Working with Revit architecture for Civil Engineering designs	January 8-13, 2024	One Week	30
47	Professional Ethics and values in STEM	January 8-12, 2024	One Week	23
48	Working with Electrical CAD	January 8-13, 2024	One Week	31
49	Working on IoT Applications in ECE	January 8-13, 2024	One Week	32
50	Working with Solid Edge	January 8-13, 2024	One Week	31
51	Computer Applications in Project Management	January 29 – February 02, 2024	One Week	22

Sl.	Course Title	Duration	No. of Weeks	Participants No.
52	Art of writing project proposal, research article and thesis	January 29 – February 02, 2024	One Week	11
53	Yoga for Health and Well being	January 29 – February 02, 2024	One Week	12
54	Battery Maintenance in E-Vehicles in Electronics Perspective	January 29 – February 02, 2024	One Week	31
55	Analysis and Design of Structures using ETABS	February 5-9, 2024	One Week	17
56	Institutional Development and Administration	February 5-9, 2024	One Week	28
57	Curriculum Revision (C-24) for Civil Engineering & allied Programmes	February 5-9, 2024	One Week	25
58	Communicative Language Teaching Approach	February 5-9, 2024	One Week	16
59	IoT System Development using Arduino and Raspberry	February 12-16, 2024	One Week	24
60	Smart Factory	February 5-9, 2024	One Week	23
61	Curriculum Revision (C-24) for General Courses and Non-Technical Programs	February 12-16, 2024	One Week	37
62	Developing VR Applications	February 19-23, 2024	One Week	11
63	Pharmacotherapeutics & Hospital and Clinical Pharmacy	February 19-24, 2024	One Week	27
64	Curriculum Revision (C-24) for Electrical and Allied Programs	February 19-23, 2024	One Week	58
65	NBA Accreditation for Diploma Programs	February 26 – March 01, 2024	One Week	32
66	Curriculum Revision (C-24) for computers & allied programs	February 26 – March 01, 2024	One Week	27
67	Solar, Wind & Bio Energy Applications	February 26 – March 01, 2024	One Week	23
68	Induction Training Programme	March 04-15, 2024	Two Weeks	11
69	Induction Training Programme for Polytechnic Colleges	March 04-15, 2024	Two Weeks	30
70	Curriculum Revision (C-24) for Mechanical & Allied Programs	March 18-22, 2024	One Week	36
Total				1690



4.2.3. ENGINEERING COLLEGE PROGRAMMES

The institute has also focused its activities to improve the quality of education in engineering colleges through training of teachers under sponsored category. During this year the courses were conducted in the following areas:

Table 4 List of Engineering College Programmes conducted during 2023-2024

Sl. no	Mode	Course Title	Duration	Venue	Participants No.
1	Contact	Instructional Design and Delivery Systems	May 29 – June 02, 2023	PSNA College of Engineering and Technology, Dindugal	41
2	Online	E-Content Development for Blended Learning	May 22-27, 2023	Krishna Vishwa Vidyapeeth, Karad, Maharashtra	28

Sl. no	Mode	Course Title	Duration	Venue	Participants No.
3	Online	E-Content Development for Blended Learning	May 27-31, 2023	Krishna Vishwa Vidyapeeth, Karad, Maharashtra	35
4	Contact	OBE and NBA Accreditation Process	May 30 – June 03, 2023	Hindustan Institute of Technology & science, Chennai	33
5	Contact	Instructional Design and Delivery Systems	June 05-09, 2023	Hindustan Institute of Technology & science, Chennai	36
6	Contact	Open Book Examination	May 17-19, 2023	Nadimpalli Satyanaryana Raju Institute of Technology (NSRIT), Visakhapatnam, Andhra Pradesh	18
7	Contact	Game Development using unreal Engine	July 17-19, 2023	NITTTR Chennai	8
8	Contact	Outcome based Education (Batch - I)	July 25-27, 2023	Karpaga Vinayaga College of Engineering and Technology	33
9	Contact	Resilient Pedagogy	July 24-26, 2023	Nehru Group of Institutions, Kerala	43
10	Contact	Instructional Design and Delivery Systems	July 03-07, 2023	Lakireddy Balireddy College of Engineering Mylavaram	40
11	Contact	Outcome Based Education and Innovative Teaching (Batch - I)	July 17-21, 2023	Galgotias University, Noida	40
12	Contact	Outcome Based Education and Innovative Teaching (Batch - II)	July 17-21, 2023	Galgotias University, Noida	40
13	Contact	NBA Accreditation Process (Batch - I)	August 22-24, 2023	Biju Patnaik University of Technology, Odisha	40
14	Contact	Curriculum Audit Programme	August 16-18, 2023	Sairam Engineering College, Chennai	31
15	Contact	Outcome Based Education	September 05-09, 2023	V.R. Siddhartha Engineering College, Vijayawada	40
16	Contact	Outcome Based Education	October 04-06, 2023	Nitte Meenakshi Institute of Technology (NMIT), Bengaluru	40
17	Contact	Instructional Design and Delivery Systems	October 30– November 03, 2023	PSR Engineering College, Sivakasi	51
18	Contact	Instructional Design and Delivery Systems	November 20-24, 2023	Swarnandhra College of Engineering and Technology, Narasapur, Andhra Pradesh.	40

Sl. no	Mode	Course Title	Duration	Venue	Participants No.
19	Contact	Art of Writing Research Articles and drafting for grants of Projects	November 27–December 01, 2023	KL deemed to be University, Guntur, Andhra Pradesh	45
20	Contact	Instructional Design and Delivery Systems	November 27–December 01, 2023	Dhanalakshmi Srinivasan University, Tiruchirappalli	40
21	Contact	Workshop for Technical Teachers	November 28–December 02, 2023	TETRA School, Air Force Station, Bidar	40
22	Contact	Outcome Based Education	January 02-06, 2024	Er. Perumal Manimegalai Engineering College, Hosur	41
23	Contact	Python Programming	January 08-12, 2024	Dr. B.R. Ambedkar Institute of technology, Port Blair	15
24	Contact	Outcome Based Education	January 02-06, 2024	Er. Perumal Manimegalai Engineering College, Hosur	37
25	Contact	OBE based Curriculum Design and Implementation	February 19-23, 2024	St. Peter's Institute of Higher Education and Research, Chennai	40
26	Contact	NBA Accreditation	February 12-16, 2024	Madanapalle Institute of Technology & Science, Andhra Pradesh	40
27	Contact	Outcome Based Education	February 19-24, 2024	MNM Jain Engineering college, Chennai	40
28	Contact	Mentoring & Counselling Skills for Teachers	February 19-23, 2024	PSG Institute of Technology and Applied Research, Coimbatore	39
29	Contact	3D Asset Development in Blender and VR Application Building in Unreal Engine	March 25-27, 2024	SSN College of Engineering, Tamil Nadu	25
TOTAL					1039

4.2.4. SPECIAL PROGRAMMES

4.2.4.1. ATAL PROGRAMMES

All India Council of Technical Education (AICTE) was established AICTE Training and Learning (ATAL) Academy from 2018 onwards. The main objective of this academic is to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas. The NITTTR, Chennai faculty members got approval from AICTE for conducting 2 programmes (Table 5) and trained around 43 participants from all over the country.

Table 5 List of ATAL Programmes conducted during 2023-2024

Sl. No	Mode	Course Title	Duration	Venue	Participants No.
1	Contact	Factory of the Future: Robots' Perspectives	Jan 29- Feb 03, 2024	NITTTR Chennai	16
2	Contact	Preparing the Academia for Industry 4.0 and 5.0	Nov 20-25, 2023	NITTTR Chennai	27
Total					43

4.2.4.2. SKILL DEVELOPMENT PROGRAMMES

The Skill Development Program empowers individuals by enhancing their abilities, supporting to build a skilled, adaptable workforce. Through targeted training participants gain essential skills for today's job market. NITTTR focus on continuous learning boosts employability and drives organizational growth.

Table 6 List of Skill Development Programmes conducted during 2023-2024

Sl.No	Title of the Programme	Sponsoring Agency	Duration	Venue	Name of the Co-ordinator	No. Of Participants
1	Bootcamp on game Development using Unreal Engine	NITTTR and A Plus Associates	Jul 17-19, 2023	NITTTR Chennai	Dr. P. Malliga – Coordinator	08
2	Bootcamp on 3D asset development in Blender and VR Application Building in Unreal Engine	NITTTR And A Plus Associates	Mar 25-27, 2024	NITTTR Chennai	Dr. P. Malliga – Coordinator	08 (07 certified)
3	Drone Manufacturing and Assembly Technician	NSDC – Skill Hub Initiative	Jan 3-Apr 24, 2024	NITTTR Chennai	Dr. K.S. Giridharan – Coordinator	64
Total						80

4.2.4.3. INDUSTRIAL TRAINING PROGRAMME

The institute has established good collaboration with the Government organizations and industries. The Government organizations and industries are also availing the experience, expertise and resources of the institute for getting their engineers and staff trained. During 2023-2024, this institute has conducted the two training programmes for Air Works India (Engineering) Pvt Ltd, Hosur and Cochin (Table 7):

Table 7 List of Industry Training Programmes conducted during 2023-2024

Sl.No	Title of the Programme	Name of the Government Organization	Duration	No. Of Participants
1	Train the Trainers Programme	Air Works India (Engg) Pvt.,Ltd., Cochin	January 03-05,2024	19
2	Train the Trainers Programme	Air Works India (Engg) Pvt.,Ltd., Hosur	January 16-18,2024	22
Total				41

Sl. No	Title of the Programme	Sponsoring Agency	Venue	Duration	Name of the Co-ordinator	No.of Hours Handled	Amount of Grant (Rs. In Lakhs)
1	ITP Industrial Practice in Civil Engineering	Self	NITTTR Chennai	May 15 – Jun 02, 2023	Dr. Vinod Kumar Adigopula–Co coordinator	24	0.99
2	Industrial Training In Mechanical Engineering Combined With RKMSH BPCL SDC	Platinum Course students sponsored	NITTTR Chennai	Aug 28 – Sep 01, 2023	Dr. M. Senthil Kumar – Coordinator	14	0.1947
Total						38	1.1847

4.2.4.4. OTHER SPECIAL TRAINING PROGRAMMES

Table 8 List of other special Training Programmes conducted during 2023-2024

Sl. No.	Mode	Name of the Programme	Duration	Venue	Participants No.
1	Contact	High End Workshop on E-Mobility and Electric Vehicle Engineering	June 21-28, 2023	NITTTR Chennai	30
2	Contact	Rules and Procedures of the Tamil Nadu state government to newly recruited Junior Assistants – Tamil Nadu Adi Dravidar Housing and Development Corporation (TAHDCO)	October 11-13, 2023	NITTTR Chennai	30
Total					60



5. ACADEMIC AND RESEARCH PROGRAMMES

5.1.1. 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. During this period four scholars were awarded Ph.D in Engineering Education and Computer Science.

Table 9 Ph.D. Degree awarded to Research Scholars during 2023-2024

S.NO	Name of the candidate	Title of the Thesis	Name of the Supervisor	Status of Completion
1	Mr. Ruth Sara Philip	Impact of Peer Feedback On Writing	Dr. K.N. Shoba	Completed
2	Mr. K Arul	Design and Validation of Quality Assurance Parameters for Fashion Technology Courses in India	Dr. E.S.M. Suresh	Completed
3	Ms. B R Beena	Multi Criteria Evaluation of Professional Competence of Civil Engineering Graduates of selected institutions of Kerala State	Dr. E.S.M. Suresh	Completed

S.NO	Name of the candidate	Title of the Thesis	Name of the Supervisor	Status of Completion
4	Mr. N Sundareswaran	Blockchain Enabled Federated Learning and Novel Cryptography Techniques Based Architecture for Securing IoT Applications	Dr. S. Sasirekha	Completed

5.1.2. 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 seven students are enrolled in the M.E programme in Infrastructure Engineering and Management, and 9 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 Computer Science and Engineering is a specialized course designed to provide advanced knowledge and skills in the field of computer science. It aims to develop professionals who can contribute to the evolving technological landscape by engaging in cutting-edge research, developing innovative software solutions and applying advanced computational techniques to solve complex problems. Through this program, students will not only acquire knowledge in emerging fields but also strengthen their research and development skills to address societal needs. As of now, there are five students pursuing in this course.

The M.E in Industrial Safety Engineering is one the key dimensions of engineering asset management which assures that engineered systems provide acceptable levels of safety. It is strongly related to systems engineering, industrial engineering and the subset system of safety engineering. Safety engineering assures that a life-critical system behaves as needed, even when components fail. The objective of this programme is to impart knowledge on different facets and aspects of engineering systems safety, focusing on tools, techniques and methodologies needed for prevention of occurrences of unsafe operations and accidents under different industrial settings. Upon completion of the programme, the students will be equipped with concepts of engineering systems safety, dimensions of engineering systems safety, safety design and analysis mathematics, design for engineering systems safety and control for safety, and integrating safety with other operational goals such as quality and reliability. A total of three students are enrolled in M.E Industrial Safety Engineering.

The M.Tech. program in VLSI Design and Embedded Systems offers a strong foundation in VLSI, ASIC, SoC, advanced communication systems, and embedded systems. It combines contemporary and traditional technologies like VLSI, embedded controllers, digital signal processing, e-vehicle technologies, and more. The course aims to provide both theoretical knowledge and hands-on experience, with practical projects in the final semesters to ensure industry relevance. The department's state-of-the-art labs, equipped with FPGA trainers, embedded controllers, and advanced software like MATLAB and LabVIEW, prepare students for the growing demand in VLSI and embedded systems, ensuring they are well-equipped to meet industry challenges. The well-equipped laboratory caters to the research needs of postgraduate students, featuring experimental setups including a FPGA Trainer system, Embedded Controllers like 8051, MSP 430, ARM LPC 2148, Cortex M3, M4 and AT mega 328 AVR Arduino, Raspberry Pi, my Rio, My DAQ, computer lab equipped with software such as MATLAB, OrCAD, LabVIEW, Xilinx, Multisim, as well as kits for Artificial and Machine learning, and robot control setups. Currently, three students are studying under this program.

The postgraduate programmes listed are affiliated to Anna University, following its academic guidelines and quality standards. This affiliation ensures that the programmes meet the university's high benchmarks for excellence. Students benefit from recognized qualifications and access to university resources.

6. FACULTY ACHIEVEMENT

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.

6.1. BOOKS AUTHORED/EDITED BOOKS /CHAPTERS/ PAPER PRESENTATION IN CONFERENCE PROCEEDINGS PUBLISHED

Table 10 Books Authored /Edited Books/ Chapters/Paper presentation in conference during 2023-2024

S.No	Author's (s) Name	Title	Publisher and Page No. (ISBN/ISSN)
1	T Ahilan R Suja Mani Malar C Selva Mani G Ramya P Suresh	Wind Power Generation and Wind Turbine Design Principle	COSMOS Scientific Publications ISBN: 978-81-19359-13-4 ,PP 296
2	R Suja Mani Malar Ganesh VasudeoManerkar T Ambikadevi Amma M Baritha Begam	An IOT and Blockchain Perspective	COSMOS Scientific Publications ISBN: 978-81-19359-86-8 ,PP 214

S.No	Author's (s) Name	Title	Publisher and Page No. (ISBN/ISSN)
3	P Sivasankar G A Rathy	General Programming Approaches to the Circuit Branch Graduates	ISBN 978-81-19492-90-9, PP 150
4	P Sivasankar G A Rathy	VHDL and ARDUNIO Board Programming	ISBN 978-81-19492-29-61, PP 180
5	P Sivasankar T Shankar	Meta Heuristics Approaches for Wireless Ad Hoc and Sensor Networks	ISBN 978-81-19492-44-2, PP 200
6	V Madhumohan ESM Suresh	Geo factor Inference Modelling with Empirical Susceptibility Weights Approach for GIS based Seismic Hazard Mapping of Thiruvananthapuram City	ISBN 978-981-99-1458-6 PP 17
7	M Senthil Kumar KR Balasubramanian L Maheswari	Conference Proceedings: Research and Developments in Engineering Research Vol 3: Impact of Temperature on the Effectiveness of Solar Photovoltaic Panels	ISBN 978-81-19217-45-8 (Print) ISBN 978-81-19217-47-2 PP 89-96
8	P Sivasankar GA Rathy	Conference Proceedings: Industry Emerging Technology to transform the Globe	Sci tech Publications ISBN 9789392399176 PP 298

6.2. PAPER PUBLISHED IN JOURNALS

Table 11 Paper published in journals during 2023-2024

S.No	Author's (s) Name	Title	Name of Journal	Vol. (Issue) No.	Year
1	Aravind Goud Gaddam Venkata Ramana Gondu Sudheer Kumar Yamsani & Vinod Kumar Adigopula	Comprehensive utilization of brick waste as a precursor in synthesizing geopolymer for treating black cotton soil	International Journal of Geotechnical Engineering	Vol No.:1 Issue No.: 2.24	2023
2	R Kalai Selvi R Suja Mani Malar	A novel solar photo voltaic powered drive for the SRM for irrigation purposes using a partial resonant AC link DC to a DC boost converter	Automatika Journal for Control Measurement Electronics Computing and Communications	Vol No.: 64 Issue No.: 3	2023
3	Aravind Balaji Rathy G A Sivasankar P Gunasekaran K	RF based wearable metal detection glove for Industrial Based Test Bench	International Journal of Advances in Engineering and Management	Vol No.:5 Issue No.: 12 PP 01-06	2023
4	Hariharasudhan Chandrasekaran Suresh Ellapa Subramani Pachaivannan Partheeban Madhavan Sridhar	IoT and GIS based Environmental Impact Assessment of Construction and Demolition Waste Dump Yards	MDPI Sustainability	Vol No.:15 Issue No.: 17	2023

S.No	Author's (s) Name	Title	Name of Journal	Vol. (Issue) No.	Year
5	Mudhawa A I Suresh E S M Cunden T M Hajee Sheriff Y	Tsunami Vulnerability Assessment of Grand Bay Mauritius using Remote Sensing and Geographical Information System GIS	International Journal of Geoinformatics	Vol No.:19 Issue No.: 8	2023
6	Velappy Madhu Mohan ESM Suresh	Peak ground acceleration study for Thiruvananthapuram city using machine learning for sustainable development	Journal of Environmental Protection and Ecology	Vol No.: 24 Issue No.:8	2023
7	AmitChanchpara Tarini Prasad Sahoo Anil Kumar Madhava Hitesh T.Saravaia	Non Isothermal Kinetic Decomposition Characteristic of Gracilariacorticata Biomass and Its Biochar Utilization for Efficient Heavy Metals Remediation	BioEnergy Research	Vol No.: 1 Issue No.:	2023
8	RishikeshChormare PareshkumarG.Moradeeya Tarini Prasad Sahoo MuthulingamSeenuvasan Gurunathan Baskar Hitesh T.Saravaia Madhave Anil Kumar	Conversion of Solid Wastes and Natural Biomass for Deciphering the Valorization of Biochar in Pollution Abatement: A review on the Thermo-Chemical Processes	Chemosphere	Vol No.: 339 Issue No.: 139760	2023
9	D Rajamani E Balasubramanian Aiman Ziout Mohammed Alkahtan	Synergistic effect of rGO on the mechanical, microstructural and high velocity impact behaviour of synthetic fibre reinforced NiTi intermetallic laminates	Journal of Materials Research and Technology	Vol No.:25 Issue No.:2	2023
10	K Bhuvanewari G Kanimozhi V Shanmuganeethi	Prediction Of Student Learning Difficulties And Performance Using Regression In Machine Learning	The Online Journal of Distance Education and eLearning	Vol No.:11 Issue No.:2	2023
11	A S Arulsamy Indira Singh M Senthil Kumar Dr Jetal J Panchal and Mr K K Bajaj	Employee Training and Development Enhancing Employee Performance –A Study	Samdarshi	Vol No.:16 Issue No.3	2023
12	M Arasumani M Kumaresan BalasubramanianEsakki	Mapping native and non-native vegetation communities in a coastal wetland complex using multi-seasonal Sentinel- 2 time series	Biological Innovations	Vol No.:26 Issue No.:1 PP No.:1105-1124	2024

S.No	Author's (s) Name	Title	Name of Journal	Vol. (Issue) No.	Year
13	V Senthil E Balasubramanian G Sundar Raju N Senthilkumar	Drilling Studies on MWCNT- and Zirconia –Reinforced Aluminium Alloy Hybrid Composite:h A Machine Learning Approach	Arabian Journal for Science and Engineering	Vol No.:1 Issue No.:1	2024
14	Kalaiselvi, T. Sasirekha, S Solomon, M. O. Manikandan , M. V.	Precision Health Monitoring: Exploring the Fusion of Wearable IoT Sensors, Multimodal Data, and ML.	IRO Journal on Sustainable Wireless Systems	Vol No.:5 Issue No.:4 PP No: 340-359	2024
15	Selvi, T S.Sasirekha N.Deepika V. Kanagalakshmi R. Kavya	Customer Segmentation in IT Sector using Datamining Techniques.	Journal of Artificial Intelligence and Capsule Networks,	Vol No.:6 Issue No.:1 PP No: 15-26	2024
16	Ganesh, M.A Saravana Perumaal S Gomathi Sankar, S.M	Automated License Plate Authentication Framework Using Multi-view Vehicle Images	Journal of intelligent and fuzzy systems	PP No.:1-27	2024

6.3. RESEARCH PUBLICATIONS IN NATIONAL / INTERNATIONAL CONFERENCE (PRESENTED)

Table 12 Research publications in national / international conference during 2023-2024

S.No	Author's (s) Name	Title	Name of the Conference	Volume, Page No & Year
1	Shankar Thangavelu Rajesh Anbazhagan Sivasankar Perumal Eeswar Gopikrishna Muppalla Siddartha	Unmanned aerial vehicle localization for device to device communication in fifth generation networks using modified penguin search optimization	ScienceDirect Computers and Electrical Engineering	109,Part A, 2023
2	Aditya Raj Yadav Anant P Jain Shankar T A Rajesh Sivasankar Perumal Geoffrey Eappen	AI based DDOS Attack Detection of SDN Network in Mininet Emulator	International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies	1,2023
3	Bhanu Sankar Ravi ChepuriMadhukanthi Sivasankar P John Deva Prasanna A	Novel Technique to Improve Latency and Response Time of AI Models using Serverless Infrastructure	ICICT IEEE Xplore Proceedings Of The International Conference On Inventive Computation Technologies	979-8-3503-9849-6,1, 2023

S.No	Author's (s) Name	Title	Name of the Conference	Volume, Page No & Year
4	Lavanya G Rajeshwari V S P Sivasankar	Speaky pen	NCIET scitech publications pvt ltd	241, 2023
5	Dinesh Kumar KSA Janardhanan G Shanmuganeethi V	Empowering Faculty Members through Mool in Techno Pedagogical Content	ASEE Annual Conference & Exposition	122, 2023
6	Shanmuganeethi V Janardhanan G Dinesh Kumar KSA Muthuramalingam Sankayya	Design of self regulated learning framework for professional development program through Learning Analytics	ASEE Annual Conference & Exposition	243,2023
7	Janardhanan G Shanmuganeethi V Malliga P Dinesh Kumar KSA	Assessment of the Utilization of Open Educational Resources during and after the Pandemic	ASEE Annual Conference & Exposition	449, 2023
8	Vijayalakshmi S Paramasivam A E Balasubramanian Jaesung Choi Mohamed Thoufeek KS and Pavan Sai Kiran Reddy Pittu	Devising IoT Based Healthcare Medical Container for Transportation of Organs and Healthcare Products using Unmanned Aerial Vehicle	International Electronic Conference on Sensors and Applications	2673-4591, 16, 2023
9	Rayed Ashraf Mahmud Sajal Chandra Banik Balasubramanian Esakki M A Siddiqui and Swadhin Ghosh	Assessment of unified quadcopter structures buckling and vibration characteristics	AIP Conference Proceedings	1551-7616,1,2023
10	Renukadevi S	A Systematic Review of Research on Training Faculty on WellBeing in STEM	ASEE Annual Conference & Exposition	1,13, 2023
11	Renukadevi S	Training Faculty on Mentoring Students in Higher Education in Post Pandemic World	ASEE Conference	1,5,2023
12	G Kulanthaivel and Ulagamuthalvi V	Smart Healthcare System for Disease Diagnosis using Internet of Medical Things IoMT and Artificial Intelligence	Forty Fourth Annual Conference of Indian Association of Biomedical Scientists IABMS	28,2024

6.4. PATENTS AWARDED

Table 13 Patents awarded during 2023-2024

S.No	Faculty Name	Title	Registration No	Granted Date	Certificate of Patent/Registration of Design
1	Dr. Vinod Kumar Adigopula	Portable Oedometer Apparatus	380480-001	01-03-2023 17-05-2023	Registration of Design

6.5. INVENTORS OF PATENTS

Table 14 Inventors of Patents during 2023-2024

S.No	Faculty Name	Title	Registration No	Granted Date	Certificate of Patent/Registration of Design
1	Dr.E.Bala Subramanian	Medical Assistive Device for Geriatric Care and Orthopaedic Rehabilitation	443468	07-08-2023	Patent
2	Dr.E.Bala Subramanian	Power Line Inspection Robot	439813	20-07-2023	Patent
3	Dr.E.Bala Subramanian	Adjustable Frame Unmanned Amphibious Aerial Vehicle with Extended Floats	480724	12-12-2023	Patent

6.6. NABL / NBA / NAAC VISIT BY FACULTY

Table 15 List of NABL/NBA/NAAC visit during 2023-2024

S.No	Visit NABL/NBA/NAAC	Name of the Institution / Laboratory	Date of Visit	Chairman/Expert Member	Faculty Name
1	NAAC	Aditya Engineering College, Surampalem, Andhra Pradesh	April 17-18, 2023	Expert Member	Dr. E.S.M. Suresh
2	NABL	Skanda Material Testing Laboratory, Hyderabad	May 17, 2023	Technical Expert	Dr. G. Janardhanan
3	NAAC	Shivnagar Vidya Prasarak Mandal College of Engineering, Maharashtra	May 18-19, 2023	Expert Member	Dr. E.S.M. Suresh
4	NABL	Telford Test House, Lucknow	May 20-21, 2023	Technical Expert	Dr. G. Janardhanan
5	NABL	CMT Research Centre, Pune	June 03-04, 2023	Technical Expert	Dr. G. Janardhanan
6	NABL	Forensics Application for Civil Consultancy and Testing LAB, Ahmedabad	June 11-12, 2023	Technical Expert	Dr. G. Janardhanan

S.No	Visit NABL/NBA/NAAC	Name of the Institution / Laboratory	Date of Visit	Chairman/Expert Member	Faculty Name
7	NABL	Aadharshila Infratech Private Limited, Udaipur	July 15-16, 2023	Technical Expert	Dr. G. Janardhanan
8	NAAC	IES College of Engineering, Mumabi	August 28-29, 2023	Expert Member	Dr. E.S.M. Suresh
9	NBA	ATME College of Engineering, Mysore	September 01-03, 2023	Chairman	Dr. E.S.M. Suresh
10	NBA	Govt. Polytechnic for Women, Nizamabad	October 06-08, 2023	Chairman	Dr. E.S.M. Suresh
11	NABL	Indian Material Research Center, Navi Mumbai	October 28-29, 2023	Technical Expert	Dr. G. Janardhanan
12	NABL	Widmans Laboratory Pvt Ltd, Gurugram	November 25-26, 2023	Technical Expert	Dr. G. Janardhanan
13	NABL	Nakshatra Enviro Services, Jaipur	December 02-03, 2023	Technical Expert	Dr. G. Janardhanan
14	NABL	Deep Testing Laboratories, Faridabad	December 19 - 20, 2023	Technical Expert	Dr. G. Janardhanan
15	NABL	Material Testing Laboratory And Quality Management Centre, Silchar	December 23-24, 2023	Technical Expert	Dr. G. Janardhanan
16	NABL	CADD Station Technologies Private Limited, Mysuru	December 29-30, 2023	Technical Expert	Dr. G. Janardhanan
17	NABL	Synergy Testing House, Bhopal	January 7, 2024	Technical Expert	Dr. G. Janardhanan
18	NABL	Omegalab Testing Services Private Limited, Kolkata	January 13, 2024	Technical Expert	Dr. G. Janardhanan
19	NABL	Soil Engineering & Material Testing Wing, CME, PUNE	January 20 -21, 2024	Technical Expert	Dr. G. Janardhanan
20	NABL	STRONG TECH ENGINEERING SERVICES AND RESEARCH (I) PVT. LTD, Pune	January 27 -28, 2024	Technical Expert	Dr. G. Janardhanan
21	NABL	Bhumi Research Center (CIVIL Engineering Testing Laboratory), Vapi, Gujarat	February 3 - 4, 2024	Technical Expert	Dr. G. Janardhanan
22	NABL	RCTRC Central Lab, Raipur	February 10-11, 2024	Technical Expert	Dr. G. Janardhanan
23	NBA	DNR College of Engineering & Technology, Andhra Pradesh,	February 16-18, 2024	Technical Evaluator	Dr. G. Janardhanan
24	NABL	Laboratory-CENGRS Geotechnica Pvt. Ltd, Noida	February 24-25, 2024	Technical Expert	Dr. G. Janardhanan
25	NABL	Rajmi Geo explorations & Engineering Private Limited (Laboratory Division), Indore	March 8, 2024	Technical Expert	Dr. G. Janardhanan
26	NABL	Infra Test Investigation And Research Centre, Roorkee	March 16 - 17, 2024	Technical Expert	Dr. G. Janardhanan
27	NBA	Saboo Siddik College of Engineering Mumbai	March 22-24, 2024	Chairman	Dr. E.S.M. Suresh
28	NABL	Urja Metallurgical Services LLP, Pune	March 23 - 24, 2024	Technical Expert	Dr. G. Janardhanan
29	NABL	IDMA Laboratories Limited, Panchkula	March 30 - 31, 2024	Technical Expert	Dr. G. Janardhanan

6.7. PARTICIPATION OF FACULTY MEMBERS IN NATIONAL / INTERNATIONAL EVENTS

- Dr.Kulanthaivel participated in the 1st Global Symposium on “Deepening International Collaborations”, 10th to 12th May 2023, Singapore
- Dr.Vinod attended Regional Program on “2023 Busan Global Training Program: Digital and Infrastructure Transformation on Engineering, Design, and Pedagogy in TVET: Smart City Transportation with ITS Model in Busan”, May 29 to June 2, 2023, in Busan, Republic of Korea
- Dr.S.Saravana Perumaal, Associate Professor attended CPSC-SCP Joint Training Program on "Industry 4.0 for TVET Leaders: Technologies, Threats and Opportunities" October 9-13, 2023, Singapore
- Dr.E.Balasubramanian, Associate Professor in Mechanical Engineering won Best Participant Award in the CPSC Regional Program on Revolutionize TVET: Innovation in Transformational Pedagogy, Competency Building and International Collaboration held during 2nd to 5th October 2023 at Johor, Malaysia.
- Director, NITTTR, Chennai attended the Colombo Plan Staff College (CPSC) and the Asian Development Bank (ADB) Collaborative Regional Program on 'Empowering TVET Sector through Digitalization and Climate Resilient Skills for Sustainable Development' from October 16 to 20, 2023 at Phillipines.
- Shri.M.Sutaarson, Assistant Professor attended International regional training program organized by NITTTR Chandigarh in collaboration with CPSC, Philippines on the topic of “Role of Business Incubators in Encapsulating Sustainable Development: A TVET Perspective” from 4th to 8th September, 2023 NITTTR Chandigarh.
- Dr.G.Janardhanan, Professor in Civil and Environment Engineering and Dr.K.S.Giridharan, Professor of Department of Education attended the One Day Online Workshop on National Credit Framework on 3rd October, 2023 jointly organized by NITTTR, Bhopal, Chandigarh, Chennai and Kolkata.
- Dr.Suja Mani Malar, Associate Professor and Dr.Seshu Babu Pulagara, Assistant Professor attended CPSC In-Country Programme on "Innovative Teaching Methods" from 30th Oct to 3rd November 2023 at NITTTR Bhopal.
- Prof.Usha Natesan has been nominated by the MoE and attended CPSC Regional Program on Navigating the Future of TVET: Addressing Challenges and Fostering Positive Change from 4th to 7th December 2023 and participated in the 50th Anniversary celebrations of CPSC in Manila, Philippines.
- Prof.Usha Natesan, Director, NITTTR, Chennai has been nominated by the MoE and attended 5-day Academic Leadership Program under Malaviya Mission Teacher Training Programme conducted by IIT Jammu from 15th to 19th March 2024 and moderating, the panelists, including Professors Santanu Bhattacharya, Pinakeshwar Mahanta, S K Patra, and M Kailasa Rao, delve into the topic of maintaining a global outlook while remaining connected to Indian traditions. The

panel explores strategies to reintroduce teaching methods from Nalanda and Takshshila to excel globally, emphasizing the importance of imparting Indian heritage to students.

7. ACHIEVEMENTS OF STUDENTS

- Standly Jebadurai C, II Year, M.E. Infrastructure Engineering and Management, obtained CHAMPION title in the IIT Bombay FOSSEE Mapathon 2023. He won cash award of Rs. 20,000/-
- Shiva Jayanth, I year, M.E. Infrastructure Engineering and Management, won Third Prize in quiz competition in Indian Green Building Council (IGBC)'s Green Education Conclave 2023, 23-25, November 2023.
- Lokesh A, II year ME Multimedia Technology, Prawin Sankar LB, DEMENT and Prof. Malliga achieved top 30 position in the final round of the 'Hack the Metaverse' event conducted by IEEE Computer Society, Bangalore at IIIT Bangalore during 12-15, September 2023.
- Ms. G.L. Bheulah, I year PG Student (VLSI Design and Embedded Systems) received Non Gate PG Assistantship of Rs.72000/- for the year 2023-24.
- Mr. Dinesh Kumar, II year M.E. Infrastructure Engineering and Management received NSP of Rs.1,00,000/- for the year 2022-24.
- Mr. Mohanraj Panchanathan, I year ME student, Department of Civil and Environmental Engineering has been selected to receive a Scholarship for Winter School 2023 (19.02.2024-01.03.2024) on "Regenerative Urban Futures: Integrated Spatial Planning for Resilience"- sponsor is BMBF through DAAD, RWTH Aachen University.
- Final year students of M.E. Infrastructure Engineering and Management were a part of the Grand Finale event of L&T Edu Tech's National Talent Fest Shrujana'23 on 30th May 2023 at L&T HQ in Chennai.
- Mr. Mohanraj Panchanathan, I year ME Student, Department of Civil and Environmental Engineering has been selected for a Scholarship for the Summer School 2024 (22nd July 2024 – 02nd August 2024) on "Regenerative Urban Futures - Circular Economics and Societies" in the Indo-German Centre for Sustainability program funded by DAAD, sponsored by BMBF through DAAD, RWTH Aachen University (Stipend 340 Euro)
- Mohamed A, Mohammed Meeran, Mukund Srinivas, Twinkle Melina J V and Vishali Ravikumar students of M.E. Infrastructure Engineering and Management were one of the top 10 out of 450 teams, presented an innovative Idea about the "BIM and BMS Integration for the Residential Sector"



Achievements of Students



7.1. STUDENT INTERNSHIPS: BRIDGING ACADEMIA AND INDUSTRY



Students Internships



- Mohan Raj P - RWTH University, Germany.
- Apoorva K P, Desni C, Shiva Jayanth K, Subasri S. - CMRL
- Guna Balan G - DST, TIFAC
- Harini Sree S - L & T, Chennai
- Poorna Porkamalam K, Raja Krishna Nandhini, Subhiksha S - CDAC Chennai
- Roopa M - ERNET India Chennai
- Binny Sheryl B, Manohar P, Rahul K - Kothari Petrochemicals Limited

8. 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 2023-2024, a series of comprehensive curriculum revisions and new curriculum developed were undertaken. These efforts were driven by a commitment to enhancing the quality of education and ensuring that our programs are aligned with the latest industry standards and educational best practices. The following initiatives represent the department's proactive approach to continuously evolving and refining our academic offerings to better serve professional community.

Table 16 List of Curriculum Revisions carried out during 2023-2024

Sl. No.	Name of the Programme
1	Curriculum Revision (C-24) for Civil Engineering & Allied Programmes
2	Curriculum Revision (C-24) for General Courses and Non-Technical Programs
3	Curriculum Revision (C-24) for Electrical and Allied Programs
4	Curriculum Revision (C-24) for Computers & Allied programs
5	Curriculum Revision (C-24) for Mechanical & Allied Programs

Table 17 List of Curriculum developed during 2023-2024

Sl. No.	Name of the Programme	Department
1	M.Tech. in Infrastructure Engineering and Management	Civil Engineering
2	M.Tech. in Mechatronics	Mechanical Engineering
3	M.Tech. in VLSI Design and Embedded Systems	Electronics and Communication Engineering
4	M.Tech. in Power Electronics and Drives	Electrical & Electronics Engineering
5	M.Tech. in Artificial Intelligence and Machine Learning	Computer Science and Engineering
6	M.Tech. in Augmented and Virtual Reality	Educational Media and Technology
7	M.Tech. in Engineering Education	Education
8	M.B.A. in Business Analytics	Rural and Entrepreneurship Development

Online Learning:

Table 18 List of online learning curriculum developed during 2023-2024

Sl. No.	Name of the Programme	Department
1	M.B.A. in Management	Rural and Entrepreneurship Development
2	PG Diploma in Guidance and counselling	Education
3	PG Diploma in Entrepreneurship Development	Rural and Entrepreneurship Development
4	PG Diploma in AI and ML	Computer Science and Engineering

9. INSTRUCTIONAL MATERIALS DEVELOPMENT

During the academic year 2023-2024, 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. During this year, 16 theory course and 3 laboratory course are developed.

During 2023-2024, we developed and implemented new training and laboratory manuals, marking a significant step towards enhancing our educational resources and operational standards. This initiative reflects our commitment to providing comprehensive, up-to-date and effective resources to our community. A total of 2 lab manuals and 12 course materials were developed.

10. 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, 15 videos (40 hrs MOOC), 7 videos (20 hours MOOC) and 37 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 educational videos produced contribute to creating engaging and effective learning experiences for learners, thus fostering a culture of continuous learning and professional development.

11. RESEARCH AND CONSULTANCY PROJECTS

The following five research (Table 19), one MoE (Table 20) and eight consultancy projects (Table 21) sponsored by various funding agencies were undertaken by the faculty members of the Institute.

Table 19 Particulars of Research Projects during 2023-2024

S.No	Project Title	Sponsoring Agency	Duration	Name of PI / Co-PI	Status	Sanctioned Amount (Rs. In Lakhs)
1	Impact of Sukanya Samridhi Yojana in Thiruvallur District Tamil Nadu	Indian Council for Social Science Research	From Sep 2023 to Mar 2024	PI – Dr.Jakulin Divya Mary Co-PI – Dr. M. Anil Kumar	Ongoing	4.50
2	Devising point of care diagnostic microchip biosensor for early diagnosis of cardiovascular disease	DST GITA	From Jun 2023 to Jun 2026	PI – Dr.M.Valliammani Associate Professor (ECE) Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science & Technology Co-PI – Dr.E.Bala Subramanian	ongoing	40.95
3	UAV Based In situ Measurements and Hyper spectral Analysis for Water Quality Mapping and Developing Remediation Strategies	SERB EQUITY	From Feb 2022 to Feb 2025	PI - Dr.E.Bala Subramanian	ongoing	42.54

S.No	Project Title	Sponsoring Agency	Duration	Name of PI / Co-PI	Status	Sanctioned Amount (Rs. In Lakhs)
4	Fabrication of Solid Propellants Using Slurry Based 3D Printing and Experimental Investigations on Minimizing Curing Time Using Various Heat Sources	DRDO ARMREB HEM	From Jan 2024 to Jan 2026	PI - Dr.E.Bala Subramanian	ongoing	42.94
5	Developer Coding Bootcamp And Lab Practical	DLT Science Foundation	From Oct 2023 to Nov 2025	PI - Co-PI – Dr. V. Shanmuganeethi	ongoing	0.08
Total						131.01

PARTICULARS OF MINISTRY OF EDUCATION PROJECT DURING 2023-2024

Table 20 Particulars of MoE Projects during 2023-2024

S.No	Project Title	Sponsoring Agency	Duration	Name of PI / Co-PI	Status	Sanctioned Amount (Rs. In Lakhs)
1	SWAYAM MOOC	Ministry of Education	From Apr 2024 to Jun 2024	PI – Director, NITTTR Chennai	Ongoing	495.00

PARTICULARS OF CONSULTANCY PROJECTS DURING 2023-2024

Table 21 Particulars of Consultancy Projects during 2023-2024

S.No	Project Title	Sponsoring Agency	Duration	Name of PI / Co-PI	Status	Sanctioned Amount (Rs. In Lakhs)
1	Study of Land Use Land Cover and Hydro geomorphology through satellite imageries for NLC Mining Lease Area	Neyveli Lignite Corporation India Limited	From Oct 2022 to Apr 2023	Co-PI – Dr. K.S.A Dinesh Kumar	Completed	8.83
2	Testing of Water Quality in various Tanks of Tamil Nadu	SWaRMA Tamil Nadu Public Works Department	From Mar 2022 to Dec 2024	Co-PI – Dr. K.S.A Dinesh Kumar	On going	7.00

S.No	Project Title	Sponsoring Agency	Duration	Name of PI / Co-PI	Status	Sanctioned Amount (Rs. In Lakhs)
3	Computation of Volume Final Level Survey Thiruvallur	TNHUDB	From July 2023 to Dec 2023	Co-PI – Dr. K.S.A Dinesh Kumar	Completed	0.25
4	Improvement of existing water distribution network in area x and xiii of CMWSSB	Ecometrix consultants Pvt Ltd	From Sep 2023 to April 2024	PI – Prof. Usha Natesan Co-PI – Dr. K.S. Giridharan	Ongoing	2.62
5	Training on Open Book Examination	NSRIT- Vizag	From Feb 2023	PI – Prof. Dr. Usha Natesan Co-PI – Dr. K.S. Giridharan	Completed	1.50
6	Curriculum Audit	Sai Ram Engineering College	From Apr 2023 to till date	PI – Prof. Dr. Usha Natesan Co-PI – Dr. K.S. Giridharan	Ongoing	1.35
7	NBA Accreditation Handholding	Ramakrishna Polytechnic College & SIGA Polytechnic College	From May 2023 to till date	PI – Prof. Dr. Usha Natesan Co-PI – Dr. K.S. Giridharan	Ongoing	1.50
8	Innovation, Design and Entrepreneurship (IDE) Bootcamp	MoE	5 days	Dr.K.S. Giridharan - Coordinator	Completed	23.00
Total						46.05

12. NATIONAL PROJECTS

12.1. SWAYAM

SWAYAM is a programme initiated by the Ministry of Education, Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching-learning resources to all, including the most disadvantaged. SWAYAM seeks to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy. The NITTTR Chennai was designated as a National Coordinating Institute for Teacher Training programme and developing 44 SWAYAM courses along with other three NITTTRs (Chandigarh, Bhopal & Kolkata). During this year, a total of 27 courses offered as New/Re-run through SWAYAM and around 31709 participants enrolled these programmes.

Table 22 List of SWAYAM courses offered during 2023-2024

Sl. No	Course Title	Coordinator	No. Of Enrolments
1	E-content Development	Dr. P. Malliga	1356
2	Guidance and Counselling	Dr.R.Rajendran	2957
3	Learning Management System _ MOODLE	Dr. V. Shanmuganeethi	688
4	Quality Assurance through NAAC Accreditation Process	Dr.E.S.M. Suresh	1133
5	Student Assessment	Dr.K.S.A. Dinesh Kumar	856
6	Student Psychology	Dr. S. Renukadevi	4237
7	Technology Enabled learning	Dr.G.Janardhanan	579
8	E-content Development	Dr. P. Malliga	1756
9	Guidance and Counselling	Dr. R. Rajendran	2058
10	Learning Management System MOODLE	Dr. V. Shanmuganeethi	419
11	OER for Empowering teacher	Mr. Felix Arokiyaraj	356
12	Quality Assurance through NAAC Accreditation Process	Dr. E.S.M. Suresh	1122
13	Student Assessment	Dr. K.S.A. Dinesh Kumar	476
14	Student Psychology	Dr. S. Renukadevi	2576
15	Technology Enabled learning	Dr. G. Janardhanan	572
16	Electric Vehicle Technology for Academia	Dr. Rathy and Dr. Suja Mani Malar	1284
17	English for Research Paper Writing	Dr. K.N Shoba	1987
18	Academic Leadership in Cross Cultural context	Dr. E.S.M. Suresh	1296
19	Innovation Driven Entrepreneurship	Dr. K.S. Giridharan	554
20	Mentoring and Counselling Skills for teachers	Dr. S. Renukadevi	907
21	NEP and Institutional Building	Dr. G. Janardhanan	926

Sl. No	Course Title	Coordinator	No. Of Enrolments
22	Outcome Based Assessment	Dr. K.S.A. Dinesh Kumar	346
23	PM-Gato Shakti National Masterplan for Multi-modal Connectivity	Dr. Vinod Kumar	171
24	Research Methodology and IPR	Dr. G. Janardhanan	1303
25	SWACHHATA CAMPUS- CLEAN, GREEN AND SUSTAINABLE TECHNOLOGY	Dr. E.S.M. Suresh	535
26	Teaching & Learning (TL) Practices for Python Programming	Dr. V. Shanmuganeethi	524
27	UAV in Engineering Applications	Dr. E. Balasubramanian	735
Total			31709

12.2. 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)." NITTTTR Chennai has been designated as the coordinating agency for this policy.

Under NITTT, the following 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 NITTTTR 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, 13979 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.

Table 23 List of NITTT Enrolment conducted during 2023-2024

Sl. no	Course Title	Coordinator	Participants No.	
			Semester (April – May)	Semester (Sep – Oct)
1	Module 1: Orientation Towards Technical Education and Curriculum Aspects	Dr. P. Malliga	2660	1965
2	Module 5: Technology Enabled Learning & Lifelong Self Learning	Dr. G. Janardhanan	2472	2202
3	Module 6: Student Assessment and Evaluation	Dr. V. Shanmuganeethi	2359	2321
			Total	13979

13. VISIT OF EMINENT / DISTINGUISHED EXPERTS

1. TAHDCO Managing Director Mr. K.S. Kandasamy, IAS, has an insightful meeting with NITTTTR Director Prof. Dr. Usha Natesan on 10.05.2023 to explore possible opportunities of mutual collaboration that will help empower marginalized communities.
2. Mr. Scott Hartman Head Public Engagement & team, US Consulate Chennai, met Prof. Dr. Usha Natesan, Director, NITTTTR Chennai on 18th July 2023. Discussions revolved around partnerships, experiential learning, supporting English language teachers, professional exchanges and promoting STEAM education.
3. Prof. Selvakumar, Director, IIIT Una met Prof. Dr. Usha Natesan, Director, NITTTTR Chennai at the NITTTTR campus. This partnership possesses the potential to signal the commencement of a novel epoch defined by innovation and remarkable academic accomplishments
4. Dr.S.Ramakrishnan, Professor of Biomedical Engineering, IIT Madras delivered Valedictory address to ITEC participants of “Integrating Industry 4.0 Competency and 21st Century Skills in Educational Institutions” on 21st August 2023.
5. Dr.M.Manivannan, IIT Madras and Founder, Touch Lab, IITM Research park, Chennai delivered Inaugural address to participants of 4-weeks ITEC on “Educational Media Production for E-learning” on 31.08.2023.

6. Dr.Lung-Jieh Yang, Professor, Tamkang University, Taiwan visited NITTTR Chennai on 04th September 2023 to discuss about the milestones of the Indo-Taiwan collaborative project. This discussion is expected to pave the way for exciting academic and research partnerships.
7. NITTTR Chennai celebrated Hindi Divas on 14th September 2023 with grandeur! Joint Secretary Shri Govind Jaiswal IAS graced the event, awarded contest winners, and led the oath.
8. Prof. M. Manivannan, XTIC, IIT Madras delivered valedictory address, Dr.Richa Bansal, National Project Officer, SEL Youth Partnerships, UNESCO MGIEP, New Delhi addressed on Social Emotional Learning to the participants of 1-day International workshop on “360 degree VR Immersive Content Creation for Educators” on 25th September 2023 organized in association with IIT Madras.
9. Dr.Ravishankar Mariayyah, CEO, Tamil Nadu Centre of Excellence for Advanced Manufacturing, Chennai delivered Valedictory address to the participants of 4-weeks ITEC on “Educational Media Production for E-learning” on 26th September 2023.
10. Hon'ble Minister of State for Education Dr.Subhas Sarkar inaugurated infrastructural facilities viz. ETV studio, Dr.S.Radhakrishnan International Hall of Residence, Prof. Jambulingam Guest House and Adithya hall in APJ Abdul Kalam Academic Complex of our institute on 10th October 2023.
11. Prof.G.L.D.Wickramasinghe, Director General, Colombo Plan Staff College (CPSC), Manila, Philippines delivered the inaugural address to the participants of e-ITEC on “Integrating Information and Communication Technology (ICT) Tools for Teaching and Learning for International Faculty and Officials on 06.11.2023
12. Mr.VilitatiTogavou, Manager, E-Learning, Ministry of Education, Suva, Fiji delivered Valedictory address to the participants of e-ITEC on “Digital Teaching and Learning Technologies” on 10th November 2023.
13. Dr.Ramesh Unnikrishnan, Adviser-II, AICTE delivered inaugural address to the participants of 4 weeks ITEC Program on “Quality Assurance through Accreditation in Higher Education in Developing Countries on 15th November 2023
14. Prof. Dr. Usha Natesan, Director, NITTTR Chennai & Dr. Utpal Sharma, Principal, Dr.B.R Ambedkar Institute of Technology, Port Blair & Spl secretary (IT) A&N administration held discussions on 30th November 2023 to strengthen ties between the two institutions.
15. Officials from the International Partnerships at the US Embassy in Delhi, US Consulate General Chennai and representatives from United Nations Girl UP visited NITTTR Chennai to conduct training for Girl Child and towards fostering international partnerships in the field of technical education and training.
16. Prof. Usha Natesan, Director, NITTTR Chennai engaged in discussions with Shri. Sivakumar, Regional Director and Scientists from SECR-Central Ground Water Board, Ministry of Jal Shakti, Gol on 18th December 2023, aiming to build scientific collaborations on developing eco-campus.
17. Ms. Abhilasha Joshi, Additional Secretary, MEA, Gol, visited NITTTR Chennai and interacted with ITEC course participants highlighting India's global partnerships. Prof. Dr. Usha Natesan, Director, NITTTR Chennai showcased institution's achievements.

18. Prof. Dr. Usha Natesan, Director, NITTTR Chennai, had a fruitful discussion with Prof. S.K. Saha, IIT Delhi and Mr. Rohit Batra, VP, IHFC. The meeting centered around exploring exciting possibilities for collaboration between these distinguished institutions.
19. Prof. Dr. Usha Natesan, Director, NITTTR Chennai welcomed YB Mr. M. Kulasegaran, Deputy Minister of Laws, Malaysia & Mr. Saravanakumar, Counsel General, Malaysia along with other officials at NITTTR Chennai. Shared campus activities & dignitaries explored facilities on 10th January 2024.
20. Shri. K. Veera Raghava Rao, IAS, Commissioner, Directorate of Technical Education, Government of Tamil Nadu visited NITTTR Chennai on 29th January 2024
21. Prof. Dr. Usha Natesan, Director, NITTTR Chennai, had a discussion with Mr. Radha Mohan Tiwari, National Chairperson of SPIC MACAY and his team members about the National initiative for fostering social responsibility in higher education on 01st February 2024.
22. Prof.K.Jayaraman, Former Scientist VSSC-ISRO, Thiruvananthapuram delivered Felicitation address during Valedictory Function of one-week ATAL Training Programme on "Preparing the academia for Industry 4.0 and 5.0"
23. Prof. Shannon Chance, Honorary Professor Centre for Engineering Education, University College London, UK conducted a session on "Ethics Teaching in Higher Education"
24. Dr.Rajasree M.S., Director in charge DTE, Govt. of Kerala delivered Valedictory address to e-ITEC on "Integrating Information and Communication Technology (ICT) tools for Teaching and Learning.
25. Er.Vijay Shanker Pandey, Director of Training & Regional Central Apprenticeship Advisor, Board of Apprenticeship Training (SR) delivered inaugural address to the participants of ITEC on "Integrating Industry 4.0 Competency and 21st Century Skills in Educational Institutions"
26. Dr. P. Uma Maheswari, Director & CEO, Anna Incubator, Chennai delivered inaugural address to the participants of ITEC on "Strengthening Technical and Vocational Education & Training (TVET) Systems to meet the Sustainable Development Goals (SDGs) of the United Nations and Sustainable Rural Development through Entrepreneurship and Innovation.
27. Mr. K.M. Srikanth, General Manager – Engineering & New Product Development-Super Premium, TVS Motors, Hosur, presented a talk on "Future Trends of the Automobile Industry" and delivered the Valedictory address to participants
28. Dr. K. Hemalatha, Founder Director of the Centre for Empowerment of Women, Anna University, Chennai delivered inaugural address on one-day international workshop titled "Sukanya Samridhi Yojana's impact on empowering girl children and advancing key SDGs
29. Prof. Dr. Raj P Dahiya, Former Vice Chancellor of 3 State Universities & Former Professor, IIT Delhi delivered Valedictory address to the International participants of ITEC Programs on "Strengthening Technical and Vocational Education & Training (TVET) Systems to meet the Sustainable Development Goals (SDGs) of the United Nations" and "Sustainable Rural Development through Entrepreneurship and Innovation"

30. Mr. J. Santhanakrishnan, Chief Technical Officer, Tamil Nadu Cable TV Corporation, Chennai delivered the Inaugural address to the International participants of four weeks ITEC Program on "Skill Development in Electronics for TVET Trainers and Planners".
31. Sangeeta Kaul, Director, DELNET-Developing Library Network, New Delhi delivered Inaugural address to the International participants of 2 weeks ITEC Program on "Total Solution for Integrated Library System".
32. Dr. Mahesh Kalyanaraman, PhD, CISSP, CISA, CISM, Associate Vice President - Risk and Compliance, HCL Technologies Limited, Chennai, India delivered Valedictory address to the International participants of ITEC Program on "Total Solution for Integrated Library System".
33. Dr. E. Iniya Nehru, Deputy Director General, Scientist G, HoG, Open Technology Group, National Informatics Centre, Chennai delivered Valedictory address to the International participants of four weeks ITEC Program on "Skill Development in Electronics for TVET Trainers and Planners".



14. MEMORANDUM OF UNDERSTANDING

The NITTTR Chennai enters into Memorandum of Understanding (MoU) with various educational institutions and other organizations for collaborative research, consultancy, continuing education and innovative applications of teaching-learning process (training/capacity development), finally leading to development of knowledge society. A strategic partnership can improve synergies for both beneficiaries and contributes to an overall increase in institutional capacity. Through MoU, there is a possibility to excel in training needs and in turn innovate and share best practices. Through partnerships with governments, academies and industries it makes it possible for NITTTR Chennai to consolidate and extend its capacity to provide a global platform for knowledge transfer. The NITTTR, Chennai signed MoU with State University during 2023-2024.

Table 24 Industry MoU signed during 2023-2024

S.No	Name of the Organization / Institute	Date of Signing
1	Pantech ELearning Private Limited, Sholinganallur, Chennai	03.04.2023
2	Ernet India, New Delhi	06.04.2023
3	Vaayusastra Aerospace Private Limited, Chennai	20.07.2023
4	Agreement – Ecometrix Consultants Pvt Ltd, Bhubaneswar, Odisha	07.09.2023
5	Ashok Leyland Limited, Hosur, TN	03.11.2023
6	Bureau of Indian Standards, New Delhi	17.11.2023
7	Nevar Systems Private Limited, Puducherry	13.03.2024



Table 25 Academic Institution MoU signed during 2023-2024

S.No	Name of the Organization / Institute	Date of Signing
1	BSA Crescent Institute of Science and Technology, Vandalur, Chennai	25.04.2023
2	Madha Engineering College, Kundrathur, Chennai	31.05.2023
3	Dr. M.G.R Educational and Research Institute, Deemed to be Univ., Chennai	01.06.2023
4	K.S. Rangasamy College of Technology, Thiruchengode, Namakkal	09.06.2023
5	K.S. Rangasamy Institute of Technology, Thiruchengode, Namakkal	09.06.2023
6	QIS College of Engineering (QISCET), Ongole, AP	14.05.2023
7	Indian Institute of Information Technology (IIIT), Trichy	29.07.2023
8	Indian Institute of Technology (IIT), Dharwad	29.07.2023
9	National Institute of Technology (NIT), Calicut	29.07.2023
10	Indian Institute of Information Technology, UNA (HP)	29.07.2023
11	National Instructional Media Institute, Chennai	01.08.2023
12	Biju Patnaik University of Technology (BPUT), Odisha	22.08.2023
13	Pimpri Chinchwad College of Engineering and Research (PCCOER), Ravet, Pune	07.09.2023
14	St. Joseph College of Engineering, Sriperumbudur, TN	20.09.2023
15	Colombo Plan Staff College (CPSC), Philippines	16.10.2023
16	Umbrella MoU with AICTE, APTEL, IIT-M, IIM-B	16.11.2023
17	IIITDM, Kancheepuram	14.12.2023
18	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	14.12.2023
19	National Institute of Technology, Mizoram	29.07.2023
20	Dhanalakshmi Srinivasan University (DSU), Trichy	12.02.2024
21	Dhanalakshmi Srinivasan Engineering College (Autonomous) (DSEC), Perambalur	12.02.2024
22	National Institute of Technology, Srinagar	21.03.2024

15. SEMINAR/ WEBINARS/WORKSHOPS CONDUCTED

During this year, a total of 34 seminar/webinars/workshops on the topic of national, societal and technical importance were conducted (Table 26). A total of 2761 participants from government, government aided, and private institutions, Industries and professionals attended these seminars / webinars/workshops.

Table 26 List of Seminar/Webinars/Workshops conducted during 2023-2024

Sl. No	Mode	Course Title	Date	Participants No.
1	International	Emerging Research in Science, Engineering & Management – ERSEM – 2023	19.05.2023 & 20.05.2023	180
2	National	Webinar on Overview of Twin Motion	03.04.2023	68
3	National	Webinar on Introduction to Unreal Engine Fortnite	03.05.2023	37
4	National	Webinar on Immersive Technologies in Engineering in Education	11.05.2023	70
5	National	Webinar on Unreal Engine Fortnite – Introduction	01.06.2023	67
6	National	Webinar on World Building using UEFN	21.06.2023	47
7	National	Industry 5.0: Emerging Technology to Transform the Globe	27.04.2023 & 28.04.2023	150
8	National	High End Workshop on E-Mobility and Electric Vehicle Engineering	21.06.2023 to 28.06.2023	30
9	National	Webinar on Financial planning for startups	08.06.2023	140
10	National	Workshop – Waste wise: strategies for sustainable management	06.06.2023	25
11	National	Webinar on Unfold the Future with Unreal Engine – Light and shadows in UE	7.07.2023	49
12	National	Webinar on Articulating Effective Research Project Proposal	14 .07.2023	13
13	National	Stability Analysis of Caisson Foundations: Theoretical and Numerical Analysis	09.08.2023	96
14	International	Industry 4.0 Competencies and Educational Systems	16.08.2023	25
15	National	Webinar on Recent Developments in Automobile Technology	17.08.2023	143
16	National	Webinar on Art of Writing Research Article	25.08.2023	131

Sl. No	Mode	Course Title	Date	Participants No.
17	National	Webinar on Unfold the Future with Unreal Engine – Baking Lights	28.08.2023	40
18	International	Webinar on ChatGPT as a Teaching and Learning Tool	05.09.2023	246
19	National	Webinar on Criteria to Decide the Suitable Type of Foundations for Bridges and Flyovers	15.09.2023	126
20	International	Emerging Trends in E-learning	15.09.2023	35
21	International	Educational Media Production for E-Learning	20.09.2023	158
22	International	360 Degree Immersive Content Creation for Educators	25.09.2023	32
23	National	Workshop on Hands on Drone Design and Assembly	14.10.2023 & 15.10.2023	18
24	National	RF Terahertz DRAs and Sensors	16.10.2023	45
25	National	Lasers for Defence Applications	20.10.2023	40
26	National	Webinar on Immersive Technology – A Comprehensive guide to all	29.11.2023	26
27	International	Seminar on Ethics Teaching in Higher Education	08.01.2024	25
28	International	Seminar on Sustainable and Community Development through Rural Entrepreneurship	12.02.2024	150
29	International	Workshop on Sukanya Samridhi Yojana's impact on empowering girl children & advancing key SDGs	16.02.2024	82
30	International	Seminar Evolving trends in industry 4.0 era for sustainable development	07.02.2024	55
31	National	Workshop on Sound Healing for Well Being	06.03.2024	66
32	National	Webinar on Self Awareness & Self-Healing	08.03.2024	95
33	International	Seminar on Innovative strategies in TVET and Entrepreneurship for Sustainable Development Goals Achievement	12.02.2024	127
34	International	Webinar on Drone Technology In TVET	14.03.2024	124
Total				2761

16. 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 27 Details of Hindi Pakhwada & Hindi Day Celebration

Sl.No	Particulars	Date	Venue	No. Of Participants
1	Hindi Workshop	23.08.2023	NITTTR Chennai	23
2	Hindi Pakhwada	01.09.2023 to 14.09.2023		Faculty, Staffs and students

17. CELEBRATION OF NATIONAL DAYS

Table 28 List of celebrations during 2023-2024

S.No	Description	Date	Events	Chief Guest
1	World Environment Day	05.06.2023	Bicycle Rally, Inauguration of Herbal Garden & Tree planting Workshop – “Waste wise: Strategies of Sustainable Management”	Shri. V.R. Hari Balaji, Senior Manager – Communication Urbaser Sunnet Prof. Dr. Usha Natesan Director, NITTTR Chennai
2	International Day of Yoga	21.06.2023	Lecture cum Demonstration on Yoga for Well-being for faculty staff & students	Isha Foundation Prof. Dr. Usha Natesan Director, NITTTR Chennai

S.No	Description	Date	Events	Chief Guest
3	Independence Day	15.08.2023	Elocution, Drawing, Photography, Poster making & Ideathon	Prof. Dr. Usha Natesan Director, NITTTR Chennai
4	Jan Bhagidari Events	19.08.2023 & 20.08.2023	Quiz & Elocution	Prof. Dr. Usha Natesan Director, NITTTR Chennai
5	Vigilance Awareness Week	30.10.2023 to 05.11.2023	Essay Writing & Elocution	Dr. C. R. Nagendra Rao Director-in-charge, NITTTR Chennai
6	International Millets Day	02.11.2023	Quiz, Rangoli, Marathon	Prof. Dr. Usha Natesan Director, NITTTR Chennai
7	Bharathiya Bhasha Utsav	11.12.2023	Signed in mother-tongues as part of the "My Signature in My Mother Tongue Campaign". Following this, singing, speech and essay writing contests were held.	Prof. Dr. Usha Natesan Director, NITTTR Chennai
8	Institution Day	14.12.2023	Unveiled Diamond Jubilee Logo, MoU sign, Felicitation of Faculty and staff with 25 years of service, Awarding of Master's Degree certificate, Panel Discussion	Prof. Homero Murzi Virginia Tech, USA Guest of Honour, Prof. Dr. V.S.S. Kumar Chairman BOG NITTTR Chief Guest, Prof. Dr. M.V. Karthikeyan, Prof. Dr. Usha Natesan Director, NITTTR Chennai
9	National Youth Day	12.01.2024	Awareness created through the poster in the social media sites of NITTTR Chennai	Prof. Dr. Usha Natesan Director, NITTTR Chennai
10	Republic Day	26.01.2024	Unfurled the National Flag, emphasizing the importance of rededicating ourselves to progressive teaching and training	Dr. C. R. Nagendra Rao Director-in-charge, NITTTR Chennai

S.No	Description	Date	Events	Chief Guest
11	International Mother Language Day	21.02.2024	Webinar	Shri. G. Olivannan, Author, Speaker, Publisher, Rotarian and Managing Director of Emerald Publishers
12	International Women's Day	08.03.2024	Chief Guest Address on "Women's Wellness and Awareness of Cancer Prevention" and shed light on key aspects of health, hygiene and cancer awareness among women.	Dr J A Chitra, Apollo Hospitals, Chennai



18. RECRUITMENT REFORMS

- Under Mission mode Recruitment process, the following faculties and staff members joined at institution
 - Six Junior Secretariat Assistant, Two Senior Senior Secretariat Assistant and 34 Multi-Tasking Staff joined duty
 - Two Associate Professors appointed at Department of Educational Media Technology and Department of Computer Science Engineering
 - Eight non-teaching staff like Assistant Section Officer (Librarian) – 1, Assistant Section Officer (Sr. Auditor) – 1, Senior Secretariat Assistant (Jr. Auditor) – 1 and Technicians in Civil & Plumbing – 1, Electrical – 2 and Refrigeration & Air Conditioning/Mechanical - 2
 - Group-A Technical Officer (Computer Programmer) joined duty
 - Group-B Technical Assistant. Grade I - J.E.(Civil) joined duty
 - Consultant (Accounts) joined duty
 - One Apprentice Trainee joined in Accounts Section.
- Registration for contract workers completed in Shram Suvidha Portal

19. ADMINISTRATIVE REFORMS

- The implementation of a QR code payment system at the guest house has streamlined transactions, enhanced guest convenience through contactless payments, increased operational efficiency, and reduced administrative costs, reflecting our commitment to leveraging technology for improved service delivery.
- Based on the recommendations of the Grievances Redressal Committee and recommendations of DPC meeting four Multi-Tasking Staff promoted as Technician Gr. III
- MACP awarded to three non-teaching staff members
- Compassionate appointment given to one person as Multi-Tasking staff
- New PAN, New TAN and New GST card generated for Institute
- Panel discussion conducted on “Reframing of Professional Development Systems Approach by Members from Academia and Industry” on 14.12.2023 as a part of Institute Day Celebration
- Programme Development Committee conducted on 30.01.2024 to identify the need based courses from Andhra Pradesh, Telangana, Karnataka, and Kerala. DTE officials and their representatives participated.
- GeM Training programme organized and conducted to the staff members
- Registration completed in Central Procurement Portal
- On condemnation of scrap items of Extension Centre Hyderabad through MSTC, Rs. 641435
- Old Mahindra Van of our Extension Centre Hyderabad condemned through MTSC for ₹.80000 generated

- Inhouse software developed for application and approval of Leave, submission of APAR, raising of indents through Stores and Purchase division and successfully implemented the same
- Import Export Code (IEC) generated for our institute - AAIAN7785Q
- Cameras were installed in classrooms and implemented the process of recording the contact mode courses

20. ACADEMIC REFORMS

- Declared as Institution Deemed to be University under Distinct Category under section 3 of UGC Act 1956 vide MoE notification dated 22.02.2024
- Dr. Anil Kumar and Dr. Balasubramanian recognised as supervisor to guide research scholars from Anna University
- Andhra Pradesh Government accepted to provide land measuring 13.77 cents at Government Polytechnic, Vijayawada for the establishment of Extension Centre, Vijayawada.
- First and Second batch of M.E (Infrastructure Engineering and Management) Degree Certificates issued on Institute Day Celebration on 14.12.2023
- Development of new 12 SWAYAM courses under the topics of
 - Clean, Green and Sustainable Technology
 - Academic Leadership in Cross cultural context of Higher Educational Institutions
 - English for Research Paper Writing
 - Teaching & Learning (TL) Practices for Python Programming
 - Research Methodology and IPR
 - Outcome Based Assessment
 - UAV in Engineering Applications
 - National Education Policy and Institutional Building
 - Innovation Driven Entrepreneurship
 - Mentoring and Counselling Skills for teachers
 - Gati Shakti National Masterplan for Multi-modal Connectivity
 - Electric Vehicle Technology for Academia
- Director, NITTTR, Chennai shared valuable insights through capacity building programs with Hon'ble Minister of State for Education, Dr.Subas Sarkar at Akhil Bhartiya Shiksha Samagam on 29.07.2023 at Pragati Maidan, New Delhi.
- Director, NITTTR, Chennai visited TANSAM, TANCAM and TANCOE on 19.09.2023 for possible academic collaboration.
- Registered in the Study in India portal launched by MoE regarding on-boarding of HEIs and nominated a compliance officer for the institute.

21. BOARD AND SUB COMMITTEES

A. NITTTR CHENNAI SOCIETY AND BOARD OF GOVERNORS (As on 31.03.2024)

Chairman	Prof. Dr. V.S.S. Kumar (Tenure ended on 26.02.2024) Chairman, BOG of NITTTR, Chennai
Member-Secretary	Dr. Usha Natesan Director, NITTTR, Taramani, Chennai
Members	Joint Secretary (TEL) Department of Higher Education Ministry of Education, Government of India Shastri Bhavan, New Delhi - 110 001.
Nominee of the Department of Education and Finance, Government of India	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. Ramesh Unnikrishnan Advisor-II (TLB) All India Council for Technical Education 7th Floor, Chanderlok Building Janpath, New Delhi - 110 001
NITTTR Faculty Representative	Dr. R. Rajendran (Tenure ended on 17.02.2023) Professor Centre for Educational Management and Applied Science NITTTR, Chennai – 600 113. Dr. R. Santhakumar (From 18.02.2023) Professor Department of Civil & Environment Engineering NITTTR, Chennai – 600 113.
Five Director of Technical Education	Vacant
Two Industrialists / Technical Professionals	1. Vacant 2. Vacant

B. FINANCE COMMITTEE

Chairman	Prof. Dr. V.S.S. Kumar (Tenure ended on 26.02.2024) 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 (TEL) 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	<ul style="list-style-type: none">• Chairperson of the BoG,• 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 academicians 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 Engineering Education	Chairperson
Dr. G. Kulanthaivel Professor Dept. of Electrical, Electronics & Communication Engineering	Member (till 04.07.2022)
Dr. M. Senthilkumar Professor Dept. of Mechanical Engineering	Member (from 04.07.2022)
Dr. V. Shanmuganeethi Associate Professor Dept. of Computer Science & Engineering [Liaison Officer for SC/ST]	Member

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 Department of Computer Science Engineering, 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 & Head Department of Civil & Environment 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 (Up to 01.01.2024)
Sr. Librarian
Resource Centre, NITTTR, Chennai

Shri M Ramesh (From 02.01.2024)
Sr. Administrative Officer
NITTTR, Chennai

10. RESOURCE CENTRE

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

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	51 st	24.04.2023	NITTTR, Chennai
	52 nd	04.08.2023	NITTTR, Chennai
	54 th	27.12.2023	NITTTR, Chennai
	55 th	22.02.2024	NITTTR, Chennai
Finance Committee	49 th	24.04.2023	NITTTR, Chennai
	50 th	04.08.2023	NITTTR, Chennai
	51 st	27.12.2023	NITTTR, Chennai
	52 nd	22.02.2024	NITTTR, Chennai
Annual General Meeting of NITTTR Chennai Society	18 th	04.08.2023	NITTTR, Chennai
	19 th	27.12.2023	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 Engineering (Superannuated on 31.01.2024)
03	Dr. E.S.M. Suresh	Professor, Department of Civil Engineering & Head, Posted at Extension Centre, Kalamassery
04	Dr. S. Renukadevi	Professor, 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 Engineering
07	Dr. R. Rajendran	Professor, 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, 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, Department of Mechanical Engineering
12	Dr. Umasanker Sahu	Professor, Department of Electrical, Electronics & Communication Engineering (Posted at Extension Centre Hyderabad)
13	Dr. V. Shanmuganeethi	Associate Professor, 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 Engineering
17	Dr. P. Sivasankar	Professor, Department of Electrical, Electronics & Communication Engineering
18	Er. V. Sivakumar	Associate Professor, Department of Mechanical Engineering
19	Dr. M. Anil Kumar	Associate Professor, Department of Rural & Entrepreneurship Development
20	Dr. Suja Mani Malar	Associate Professor, Department of Electrical, Electronics Engineering
21	Dr. E. Balasubramanian	Associate Professor, Department of Mechanical Engineering
22	Dr. K.N Shoba	Associate Professor, Department of Education
23	Dr. S. Saravana Perumal	Associate Professor, Department of Mechanical Engineering
24	Dr. S. Sasirekha	Associate Professor, Department of Computer Science & Engineering
25	Dr. T. Subha	Associate Professor, Department of Educational Media & Technology

Sl No	Name of the Faculty	Designation / Department / Centre/ Extension Centre
26	Shri A.P. Felix Arokiyaraj	Assistant Professor, Department of Educational Media and Technology
27	Dr. Vinod Kumar Adigopula	Assistant Professor, Department of Civil Engineering
28	Dr. P. Jakulin Divya Mary	Assistant Professor, Department of Rural & Entrepreneurship Development
29	Dr. Seshu Babu Pulagara	Assistant Professor, Department of Computer Science & Engineering (Posted at Extension Centre Kalamassery)
30	Mr. M. Sutaarson	Assistant Professor, Centre for Educational Management & Applied Science (Posted at Extension Centre Bengaluru)

REPORT ON ACCOUNTS 2023-2024

**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 2024

We have audited the attached Balance Sheet of National Institute of Technical Teachers Training and Research, Chennai as at 31 March 2024, 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 2027-28. 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, evidence 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 increased by ₹20.19 lakh and deficit increased by of ₹23.43 lakh

B. Grants-in-aid


Out of the Grants-in-aid of ₹24.60 crore received for the year and ₹22.10 crore being unspent balance of the previous year, the Institute could utilize ₹38.57 crore leaving a balance of ₹8.13 crore as unutilized grant as on 31 March 2024.

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 2024; 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


10/10/24

Director General of Audit (Central), Chennai

Place: Chennai - 18
Date. .10.2024

Annexure

1. Adequacy of Internal Audit System:

Internal audit was conducted by a Chartered Accountant Firm for the year 2023-24.

2. Adequacy of Internal Control System:

Internal Controls were found to be adequate

3. System of Physical verification of Fixed Assets:

Physical verification of Fixed Assets was carried out for 2023-24.

4. System of Physical verification of Inventory:

Physical verification of Inventory was carried out for 2023-24

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
2023-24**

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, TARAMANI, CHENNAI - 600113
BALANCE SHEET AS AT 31.03.2024

SOURCES OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2023-24	Previous Year 2022-23
CORPUS/CAPITAL FUND			
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	1	(53,95,01,733.06)	(46,24,21,176.15)
CURRENT LIABILITIES & PROVISIONS	2	25,17,28,881.40	23,11,38,831.63
	3	1,47,64,07,440.21	1,49,43,49,558.58
TOTAL		1,18,86,34,588.55	1,26,30,67,214.06
APPLICATION OF FUNDS			
FIXED ASSETS			
Tangible Assets			
Intangible Assets			
Capital Works-In-Progress	4	42,09,47,771.75	37,49,71,027.69
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS			
Long Term	5	13,20,626.00	34,97,475.80
Short Term		17,39,14,543.00	18,84,95,065.00
INVESTMENTS- OTHERS	6	17,47,84,188.00	17,32,42,084.00
CURRENT ASSETS			
LOANS, ADVANCES & DEPOSITS	7	32,86,00,552.26	42,87,13,868.85
	8	8,90,66,907.54	9,41,47,692.72
TOTAL		1,18,86,34,588.55	1,26,30,67,214.06
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	24		

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31.03.2024

Amount in Rs.

Particulars	Schedule	Current Year 2023-24	Previous Year 2022-23
INCOME:			
Academic Receipts	9	15,82,180.00	8,16,401.00
Grants / Subsidies	10	32,23,89,090.84	27,40,99,995.04
Reserves & Surplus utilized for Revenue Expenditure			
Income from investments	11	-	-
Interest earned	12	-	608.00
Other Income	13	62,32,955.44	52,81,339.20
Prior Period Income	14	15,294.00	15,79,890.86
TOTAL (A)		33,02,19,520.28	28,17,78,234.10
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	34,46,07,194.00	19,27,63,964.00
Academic Expenses	16	8,65,000.00	15,87,764.00
Administrative and General Expenses	17	6,90,27,786.84	7,03,78,046.04
Transportation Expenses	18	12,25,203.00	9,63,544.00
Repairs & Maintenance	19	34,05,756.61	43,45,540.00
Finance costs	20	-	-
Depreciation	4	4,72,82,745.73	2,36,70,509.00
Other Expenses	21	-	-
Prior Period Expenses	22	38,47,707.00	16,19,013.00
General Expenses			
TOTAL (B)		47,02,61,393.18	29,53,28,380.04
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		(14,00,41,872.90)	(1,35,50,145.94)

23

24

Significant Accounting Policies
Contingent Liabilities and Notes to Accounts

SCHEDULE -1 CORPUS/CAPITAL FUND

		Amount in Rs.	
Particulars		Current Year 2023-24	Previous Year 2022-23
	Balance at the beginning of the year	(46,24,21,176.15)	(47,88,87,691.21)
Add:	Contributions towards Corpus/Capital Fund		
Add:	Contributions towards Corpus/Capital Fund - OTC		
Add:	Grants from UGC, Government of India and State Government to the utilized for capital expenditure	6,29,61,316.00	3,00,16,661.00
Add:	Contributions towards Corpus/Capital Fund - SWAYAM		
Add:	Assets Purchased out of Earmarked Funds		
Add:	Assets Purchased out of Sponsored Projects, where ownership vests in the institution		
Add:	Assets Donated/Gifts Received		
Add:	Adjustment of Opening Balance difference in prior years		
	Total	(39,94,59,860.15)	(44,88,71,030.21)
Less:	Over statement of accrued interest		
Add:	Project Account - Capital Fund		
Less:	EB Deposit added in Electricity charges for the past years		
Less:	OTC Liability inadvertently credited to Capital		
	Plan Grant Revenue Expenditure		
Add:	Excess of Income over expenditure transferred from the Income & Expenditure Account	(14,00,41,872.90)	(1,35,50,145.94)
	Total	(53,95,01,733.06)	(46,24,21,176.15)
	(Deduct) Deficit transferred from the Income & expenditure Account		
	Balance at the year end		

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Particulars	Amount in Rupees	
	Current Year	Previous Year
	2023-24	2022-23
Total		
SCHEDULE 2A		
ENDOWMENT FUNDS		
SCHEDULE 2B		
DESIGNATED	25,17,28,881.40	23,11,38,831.63
SCHEDULE 2C		
EARMARKED	-	-
Total	25,17,28,881.40	23,11,38,831.63
Represented by		
Cash And Bank Balances	7,69,44,693.40	5,74,89,394.93
Investments (Fixed Deposit)	17,47,84,188.00	17,32,42,084.00
Interest accrued but not due		4,07,352.70
Total	25,17,28,881.40	23,11,38,831.63

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 01.4.2023		Additions during the Year		Total		Expenditure on the object during the year		Closing Balance on 31.03.2024		Total (10+11)
		3	4	5	6	7	8	9	10	11		
		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**

Amount in Rupees

S. No.	Particulars	Opening Balance	Add	Less	Less	Closing Balance
		01-04-2023	Generation during the Year	Utilised for Capital Account	Utilised for Revenue Account	31-03-2024
1	Corpus Fund	15,00,00,000.00		-	-	15,00,00,000.00
2	Reserves and Surplus	8,11,38,831.63	2,18,04,160.00	-	12,14,110.23	10,17,28,881.40
3	Total	23,11,38,831.63	2,18,04,160.00	-	12,14,110.23	25,17,28,881.40

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS

		Amount in Rupees	
		Current Year 2023-24	Previous Year 2022-23
A. CURRENT LIABILITIES			
1. Deposits from Staff			
Caution Deposit for staff Quarters		76,860.00	1,36,860.00
Staff Quarters			
Yoga Hall Deposit		10,000.00	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		70,500.00	31,500.00
Research Scholar - FIP			
M.E.(IEM) - Caution Deposit		1,90,000.00	1,34,000.00
Emerging Area Course Fees Refundable			
3. Sundry Creditors			
a) For Goods & Service			
Cofmow Equipments		-	82,250.00
Tamil Nadu Book House			
Misc Deposits - M/s Akins		-	25,677.00
4. Deposit- Others (including EMD, Security Deposit)			
AICTE UKIERI Work shop			
Earnest Money Deposit			
Community Hall Deposit			
Caution Deposit for Canteen		-	
Security Deposit		-	
ME (VLSI D & ES) - Caution Deposit		-	
5. Statutory liabilities (GPF, TDS WC TAX, CPF, GIS, NPS):			
a) Overdue			
b) Others			
Property Tax Payable		20,211.92	2,66,878.00
Duties and Taxes			
Duties and Taxes - Project			

6. Other Current Liabilities			
a) Salaries	86,28,071.00		1,36,66,775.00
b) OTC Liability Complicated Project Sch 3 B (2)	1,37,66,410.51		1,03,32,256.00
INTEREST TO BE REFUNDED TO GOVERNMENT	2,03,91,829.00		1,65,42,985.00
Project Account Liabilities- Sch 3 B (1)			
c) Receipts against sponsored fellowships & Scholarships	8,19,35,828.20		22,09,76,250.04
d) Unutilised Grants			
e) Grants in advance	-		6,06,993.00
f) Other funds : TGH Mess Expenditure/Income			
g) SWAYAM Sponsored Projects			
h) Other Liabilities :	61,65,350.54		57,11,532.54
Deposit on account of Seminars and Symposia (Sch. 3A)			
Swayam CB Workshop	-		3,74,746.00
Total (A)	13,12,80,061.17		26,89,23,702.58
B. PROVISIONS			
1. For Taxation			
2. Gratuity	5,95,28,440.00		4,94,54,812.00
3. Superannuation Pension	1,16,71,29,082.00		1,08,47,90,390.00
4. Accumulated Leave Encashment	7,55,32,395.00		6,72,44,372.00
5. Trade Warranties /Claims			
6. Outstanding Expenses:			
OH Outstanding Expenses	2,69,55,392.00		2,35,35,666.00
Outstanding expenditure OTC	-		1,32,000.00
Outstanding expenditure Mess	-		2,58,581.00
Utilized Grants	8,69,985.54		
Misc Deposit - Atkins	4,437.00		
OTC liability	1,37,40,455.00		
SWAYAM CAPACITY BUILDING WORKSHOP	3,74,746.00		
TGH Mess Exp / Income	9,92,446.50		
WithHeld - V. Senthamizhvelan	-		10,035.00
Audit Fees Payable			
Total (B)	1,34,51,27,379.04		1,22,54,25,856.00
Total (A+B)	1,47,64,07,440.21		1,49,43,49,558.58

SCHEDULE - 3 (a) SPONSORED PROJECTS

1. Sl. No.	2. Name of the Project	Amount in Rupees						
		Opening Balance on 01.04.2023		5. Receipts/ Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance on 31.03.2024	
		3. Credit	4. Debit				8. Credit	9. Debit
1	3D Asset Development Blender & VR Application			45,000.00	45,000.00		45,000.00	
2	AICTE-Boot Camp-2023-24			26,50,000.00	26,50,000.00	26,65,613.00	(15,613.00)	
3	AOC, Airforce Station (TTP)	65,747.00			65,747.00		65,747.00	
4	ARPIT - 2022	1,20,000.00			1,20,000.00		1,20,000.00	
5	Art of Writing RA&D for Grant of Projects			80,000.00	80,000.00		80,000.00	
6	ATAL -1 (Robotics)				-	2,16,397.00	(2,16,397.00)	
7	ATAL_AP			2,50,000.00	2,50,000.00	11,800.00	2,38,200.00	
8	ATAL_PA1 4.0 & 5.0			2,72,000.00	2,72,000.00	2,60,430.00	11,570.00	
9	Breakthrough Technologies for Engg Edu & Research	41,525.54			41,525.54	14,306.00	27,219.54	
10	Centre for Development of Advanced Computing C-DAC,			25,424.00	25,424.00		25,424.00	
11	Creation to Curation of AV Content for Mdi Casting	16,570.00			16,570.00	23,600.00	(7,030.00)	
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 for Blended Learning			1,60,000.00	1,60,000.00		1,60,000.00	
15	E- Content Development & LMS - EFDP 02	80,000.00			80,000.00		80,000.00	
16	E - Content Development (SSPDP - 08)	98,305.00			98,305.00	98,305.00	-	
17	EFDP-03 OT&E Jaypee IoT Noida	80,000.00			80,000.00		80,000.00	
18	ERNET India			25,424.00	25,424.00	50,848.00	(25,424.00)	
19	ETP - SSPDP - 16	67,796.00			67,796.00	80,000.00	(12,204.00)	
20	Framing Course Outcomes - SSPDP - 10			80,000.00	80,000.00		80,000.00	
21	Hands on Trg Prog - WQA YR	9,000.00			9,000.00		9,000.00	
22	Hindustan Institute of Tech & Science			1,60,000.00	1,60,000.00		1,60,000.00	
23	Instructional Design and Delivery System	1,68,000.00		2,64,000.00	4,32,000.00	80,000.00	3,52,000.00	
24	Jaypee Institute of Information Technology	80,000.00			80,000.00		80,000.00	
25	Joshephs College of Engineering	67,796.00			67,796.00		67,796.00	
26	JSSTU - MYSURU	80,000.00			80,000.00	80,000.00	-	
27	Karpaga Vinayaga College of Engg & Tech			80,000.00	80,000.00		80,000.00	
28	Karyashala - E-Mobility & Electric Vehicle Engg			6,92,000.00	6,92,000.00	7,14,272.00	(22,272.00)	
29	Lakireddy Bali Reddy College of Engg			80,000.00	80,000.00		80,000.00	
30	LVP Nepal-2022-23	9,33,295.00			9,33,295.00	4,36,538.00	4,96,757.00	
31	Mentoring & Counselling Skills for Teachers 23_24			80,000.00	80,000.00		80,000.00	
32	Mentoring for Faculty (KCT)	38,400.00			38,400.00	38,400.00	-	
33	Mentoring (VMRF)	48,000.00			48,000.00	16,000.00	32,000.00	
34	National Academy of Direct Taxes	20,000.00			20,000.00	36,000.00	(16,000.00)	
35	NBA Accreditation - SSPDP 32 (12to16Feb 2024)			80,000.00	80,000.00		80,000.00	
36	NBA Training and Hand Holding the SAR Prep Process	1,37,288.00			1,37,288.00		1,37,288.00	
37	New Pdgl Apprs of HEI for 21st Century Learner's	80,000.00			80,000.00		80,000.00	
38	OBE Based Curriculum Design & Implementation			80,000.00	80,000.00		80,000.00	
39	OBE & NBA Accreditation Process			16,949.00	16,949.00		16,949.00	
40	Open Book Examination (SSPDP - 23)	1,50,000.00			1,50,000.00		1,50,000.00	
41	Outcome Based Education 02.01.24 to 06.01.24			80,000.00	80,000.00		80,000.00	
42	Outcome Based Education 4thOct to 6th Oct			80,000.00	80,000.00		80,000.00	
43	Outcome Based Education B-II (08.01.24 to 12.01.24)			80,000.00	80,000.00		80,000.00	
44	Outcome Based Education Training Programme(Mar2024)			80,000.00	80,000.00		80,000.00	
45	OUTCOME BASED EDUCATION 5TH SEPT TO 9TH SEPTEMBER			80,000.00	80,000.00		80,000.00	
46	Outcome Based Edu with COPO Mapping and Attainment	80,000.00			80,000.00	80,000.00	-	
47	Pedagogical Strategies for 21st Century Learners	3,20,000.00			3,20,000.00	3,47,200.00	(27,200.00)	
48	PSNA College of Engg and Technology			2,91,100.00	2,91,100.00		2,91,100.00	
49	Ramakrishna Mission Polytechnic College			1,35,000.00	1,35,000.00		1,35,000.00	
50	SA&E Course_IMU	80,000.00			80,000.00	80,000.00	-	
51	SA&E_II Batch_IMU B'lore	80,000.00			80,000.00	80,000.00	-	
52	Sapthagiri Educational Trust			1,35,000.00	1,35,000.00		1,35,000.00	
53	SERB - Conferecne - Industry 5.0	3,00,000.00		1,42,000.00	4,42,000.00	5,04,850.00	(62,850.00)	
54	SERB - Karyashala - BOSPv	3,540.00			3,540.00		3,540.00	
55	Skill Hub Initiative - PMKVY 4.0			4,68,576.00	4,68,576.00	21,598.00	4,46,978.00	
56	SMT Shakuntla Educational & Welfare Society			1,60,000.00	1,60,000.00		1,60,000.00	

57	SSPDP-03_OBE and NBA Accdn_DTU	80,000.00			80,000.00	80,000.00	-	
58	SSPDP-04_OBE and NBA Accdn_NSUT	80,000.00			80,000.00	80,000.00	-	
59	SSPDP-06_NBA Accdn Procedures_DTU	80,000.00			80,000.00	80,000.00	-	
60	SSPDP-07_NBA Accdn Procedures_NSUT	1,02,000.00			1,02,000.00	80,000.00	22,000.00	
61	SSPDP - 09	67,797.00			67,797.00	67,797.00	-	
62	SSPDP - 10	88,000.00			88,000.00	88,000.00	-	
63	SSPDP - 11	80,000.00			80,000.00	80,000.00	-	
64	SSPDP - 12	80,000.00			80,000.00	80,000.00	-	
65	SSPDP-14-NBA Accdn_2023-2024			80,000.00	80,000.00		80,000.00	
66	SSPDP - 15	80,000.00			80,000.00	80,000.00	-	
67	SSPDP - 17	80,000.00			80,000.00	80,000.00	-	
68	SSPDP - 18	98,000.00			98,000.00		98,000.00	
69	SSPDP-30_NAAC Accdn_VJTI	80,000.00			80,000.00		80,000.00	
70	TAHDCO			96,000.00	96,000.00	96,000.00	-	
71	ToT for CSS Trainers (TNRTP)	1,94,543.00			1,94,543.00		1,94,543.00	
72	Training of Trainers_2022 (ECB)	95,930.00			95,930.00		95,930.00	
73	Training on Digital Content Creation & Curation			33,750.00	33,750.00		33,750.00	
74	Training Programme on Python Programming			80,000.00	80,000.00		80,000.00	
75	Train the Trainers Programme			1,60,000.00	1,60,000.00	65,747.00	94,253.00	
76	Transparency Third Party Audit Services	9,40,000.00		9,20,000.00	18,60,000.00	9,40,000.00	9,20,000.00	
77	VNR VJIE&T - SSPDP - 33	80,000.00			80,000.00		80,000.00	
78	Workshop for Tech Trainers - AFS Bidar			80,000.00	80,000.00	29,104.00	50,896.00	
79	Workshop on Drone Design and Assembly			14,400.00	14,400.00		14,400.00	
	Total	57,11,532.54	-	83,16,623.00	1,40,28,155.54	78,62,805.00	61,65,350.54	-

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) Deposit on Account of Externally Funded Projects

SI No	Name of Sponsor	Amount in Rupees							
		Opening Balance As On 01.04.2023		Transactions During the year		Closing Balance As On 31.03.2024		7	8
		3	4	5	6	Cr.	Dr.		
1	2	Cr.	Dr.	Cr.	Dr.	Cr.	Dr.	Cr.	Dr.
1	79 Swayam Mooc Project	1,46,19,906.00			774580	1,38,45,326.00			
2	90A - DPR for ER of Pdrvdu Tank	89,582.00				89,582.00			
3	90B - DPR for ER of MG Tank	95,556.00				95,556.00			
4	90C - DPR for ER of Npti Tank	98,925.00				98,925.00			
5	93_TNUHDB								
6	ECOMETRIX CONSULTANTS - SOCIO ECONOMIC SURVEY			50,000.00	23,292.00	26,708.00			
7	Fabrication of Solid Propellant - 3D Printing			3,52,500.00	1,80,000.00	1,72,500.00			
8	Indian Council of Social Science Research (ICSSR)								
9	NITTTR/CIVIL/TNSCB/PERUNGALATHUR/87/SNP/2020-21	25,000.00		3,62,500.00	2,76,258.00	86,242.00			
10	NLC Ltd. 23-24				9,897.00	15,103.00			
11	DRDO-ARMREB PROJECT			7,49,000.00	1,36,493.00	6,12,507.00			
12	Project No. 89 Water Testing			32,94,546.00	1,66,920.00	31,27,626.00			
	Total	16,14,016.00		7,80,000.00	1,72,262.00	22,21,754.00			
		1,65,42,985.00	-	55,88,546.00	17,39,702.00	2,03,91,829.00			-

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

Amount in Rupees

SI No	Name of the Programme	Opening Balance As On 01.04.2023		Transactions During the year		Closing Balance As On 31.03.2024	
		3 Cr.	4 Dr.	5 Cr.	6 Dr.	7 Cr.	8 Dr.
1	2						
1	Digital Teaching & Learning Technology		-	4,80,000.00		4,80,000.00	
2	Educational Media Production for E-Learning		-	52,38,181.00	34,96,108.00	17,42,073.00	
3	Integrating ICT Tools for Teaching & Learning		-	4,80,000.00		4,80,000.00	
4	OTC - DEAWT - 2022-23	9,18,548.00	-			9,18,548.00	
5	OTC-IIC4.0 21stCSEI-2023-24		-	45,34,875.00	31,76,743.00	13,58,132.00	
6	OTC-ITEC-TSILS 23-24		-	27,31,725.00	22,35,464.00	4,96,261.00	
7	OTC - REETICI 4.0 2022-23	4,80,000.00	-			4,80,000.00	
8	OTC - STVETS 2022 - 23	5,87,063.00	-	5,90,762.00	13,101.00	11,64,724.00	
9	OTC - TVET Skill Development in ElecX 2022-23	32,983.00	-	3,56,041.00	2,72,254.00	1,16,770.00	
10	OTC_QAAHEDC23-24		-	13,24,478.00	29,64,731.00	-	16,40,253.00
11	SRDEI-OTC-23-24		-	15,04,782.00	12,14,206.50	2,90,575.50	
12	TVET SDG-OTC-23-24		-	46,59,815.00	37,87,021.50	8,72,793.50	
13	TVET T&P-SDE-OTC-23-24		-	9,89,700.00	7,61,506.00	2,28,194.00	
	Total	20,18,594.00	-	2,28,90,359.00	1,79,21,135.00	86,28,071.00	16,40,253.00

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 2023-24	Previous Year 2022-23
A. Plan grants: Government of India		
Balance B/F	22,09,76,250.04	14,50,92,906.08
Add: Receipts during the year	24,60,00,000.00	38,00,00,000.00
Total (a)	46,69,76,250.04	52,50,92,906.08
Less Refunds		
Less: Utilized for Revenue Expenditure	32,23,89,090.84	27,40,99,995.04
Less: Utilized for Capital expenditure	6,29,61,316.00	3,00,16,661.00
Total(b)	38,53,50,406.84	30,41,16,656.04
Unutilized carried forward (a-b)	8,16,25,843.20	22,09,76,250.04
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)	8,16,25,843.20	22,09,76,250.04

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:

Sl. No.	Assets Heads	RATE	GROSS BLOCK					Depreciation		Net Block				
			Op Balance 01.04.2023	Additions	Deductions	Closing Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.24	31.03.23		
1	Land /Free Hold		2,68,500.00			2,68,500.00						2,68,500.00		2,68,500.00
2	Site Development													
3	Buildings	2.00%	39,52,01,967.50	5,24,32,349.00		44,76,34,316.50	10,81,11,001.47							
7	Electrical installation and equipment	5.00%	45,64,891.00	9,39,673.00		55,04,564.00	45,11,323.65							
8	Plant & Machinery	5.00%	2,23,40,069.00			2,23,40,069.00	1,55,15,729.60							
10	Office Equipment	7.50%	4,96,38,413.45	31,71,448.00		5,19,99,993.45	2,14,68,483.95							
11	Audio Visual Equipment	7.50%	23,34,074.00	1,24,48,590.00		1,47,82,664.00	5,26,695.05							
12	Computers & Peripherals	20.00%	5,15,61,571.38	68,13,665.00		5,69,50,468.38	4,13,23,741.98							
13	Furniture, Fixtures & Fittings	7.50%	1,37,42,392.88	2,04,800.00		1,38,65,162.88	1,02,99,902.46							
14	Vehicles	10.00%	45,96,152.22	75,000.00		43,66,621.22	29,97,803.42							
15	Lib. Books & Scientific Journals	10.00%	1,21,55,030.13	9,18,484.00		1,30,68,498.13	79,81,634.33							
17	Small Value Assets	7.50%	31,15,744.83	5,41,608.00		36,29,677.83	3,05,715.28							
18	Other Assets	5.00%	47,94,439.00			47,94,439.00	36,58,829.30							
19	Equipments	8.00%	16,66,99,627.35	1,28,29,918.00		17,84,35,725.35	13,93,40,984.56							
	Total (A)		73,10,06,872.74	9,03,75,535.00		81,76,50,699.74	35,60,35,845.05							
20	Capital Work in Progress		18,84,95,065.00	67,27,141.00		17,39,14,543.00								
	Class Room Construction WIP													
	Building Renovation WIP													
	Computers-WIP													
	Total (B)		18,84,95,065.00	67,27,141.00		17,39,14,543.00								
21	Computer Software	40.00%	1,29,83,373.00	7,89,960.00		1,34,25,559.00	96,71,480.20							
22	E-Journals	40.00%	3,09,305.00			3,09,305.00	1,23,722.00							
23	Patents													
	Total (C)		1,32,92,678.00	7,89,960.00		1,37,34,864.00	97,95,202.20							
	Grand Total (A+B+C)		93,27,94,615.74	9,78,92,656.00		1,00,53,001,106.74	36,58,31,047.25							
	Swayam		93,27,94,615.74	9,78,92,656.00		1,00,53,001,106.74	36,58,31,047.25							
1	Audio Visual Equipment	7.50%												
2	Other Equipment	7.50%												
	Corpus Fund Account													
1	Laptop to Faculties	20.00%												

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

Amount in Rupees

Sl. No.	Assets Heads	Gross Block				Depreciation for the Year 2022-23			Net Block		
		Op Balance 01.04.2023	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.2024	31.03.2023
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)											
Capital Work in Progress (B)											
Intangible Assets											
18	Computer Software										
19	E-Journals				Nil						
20	Patents										
Total (C)											
Grand Total (A+B+C)											

SCHEDULE 4B NON - PLAN

Amount in Rupees

Sl. No.	Assets Heads	Gross Block			Depreciation for the Year 2022-23				Net Block			
		Op Balance 01.04.2023	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03. 2024	31.03. 2023	
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 01.04.2023	Additions	Deductions	CI Balance	Dep Opening Balance	Amortization for the Year	Deductions / Adjustments	Total Amortization/ Adjustments	31.03. 2024	31.03. 2023	
18	Computer Software											
19	E-Journals											
20	Patents				Nil							
Total (C)												
Grand Total (A+B+C)												

SCHEDULE 4 C- INTANGIBLE ASSETS

Amount in Rupees

Sl. No.	Asset Heads	Gross Block				Depreciation Block				Net Block	
		Op. Balance 01.4.2023	Additions	Deductions	Cl. Balance	Depreciation/ Amortizations Opening Balance	Depreciation/ Amortization for the year	Deductions/ Adjustment	Total Depreciation/ Amortization	31.03. 2024	31.03. 2023
1	Patents & Copyrights					Nil					
2	Computer Software										
3	E - Journals										

SCHEDULE 4(C) (i) PATENTS AND COPYRIGHTS

Amounts in Rupees.

Particulars	Op. Balance	Addition	Gross	Amortization	Net Block 2023-24	Net Block 2022-23
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 2023-24	Net Block 2022-23
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

Amount in Rupees

Sl. No.	Assets Heads	Gross Block				Depreciation for the Year 2023-24			Net Block		
		Op Balance 01.04.2023	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03. 2024	31.03. 2023
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 2023-24	Previous Year 2022-23
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	17,47,84,188.00	17,32,42,084.00
7 Others (to be specified)		
Total	17,47,84,188.00	17,32,42,084.00

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

Amount in Rupees			
Sl. No.	Funds	Current Year (2023-24)	Previous Year (2022-23)
1	NITTR CHENNAI RESERVES	5,22,84,188.00	5,07,42,084.00
2	NITTR CHENNAI CORPUS FUND	12,25,00,000.00	12,25,00,000.00
3			
4			
5	Endowment Fund Investments		
	Total	17,47,84,188.00	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 2023-24	Previous Year 2022-23
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 2023-24	Previous Year 2022-23
1. Stock:		
a) Stores and Spares		
b) Loose Tools		
c) Publications		
d) Laboratory chemicals, consumables and glass ware		
e) Building Material		
f) Electrical Material	93,411.39	5,000.00
g) Stationery	2,56,577.00	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	96,572.00	1,27,522.00
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	32,81,41,569.87	42,83,69,139.85
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. GST RECEIVABLE	503.00	
TOTAL	32,86,00,552.26	42,87,13,868.85

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 31.03.2024 (Rs.)
	MAIN ACCOUNT			
1	Canara Bank	2649201000193		75,83,791.41
2	State Bank of India	0039917422888		9,79,64,142.17
3	Canara Bank	2649101010260		-
4	SBI FD -SDR Account			5,97,14,721.00
				16,52,62,654.58
	NON-GRANT ACCOUNTS			
5	Indian Overseas Bank	041801000000101		61,14,008.15
6	Indian Overseas Bank - SDR			1,00,50,000.00
7	Canara Bank	2649101010094		22,54,480.62
8	SBI - SDR- OTC			1,95,00,000.00
9	SBI SB	0040626852130		5,02,89,965.42
10	FD Corpus Fund (IOB)			12,25,00,000.00
11	Indian Overseas Bank	041801000000099		5,43,81,475.36
12	IOB FD - SDR Account			5,22,84,188.00
13	Bank of India - SDR			1,99,00,000.00
14	Canara Bank	2649101010177		3,33,651.00
15	Indian Overseas Bank	041802000000001		55,334.74
				33,76,63,103.29
	Grand Total			50,29,25,757.87

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

Amount in Rupees

	Current Year 2023-24	Previous Year 2022-23
1. Advances to employees: (Non-interest bearing)		
a) Medical Advance		
b) Other (to be specified)		
Computer Advance	63,000.00	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	24,150.00	72,450.00
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) Local Purchase Advance		
b) Local Purchase Advance - Non Grant	65,619.00	
c) LTC Advance		
4. Prepaid Expenses		
a) Insurance	7,153.00	3,836.00
b) E Journal Subscription		
c) AMC Lab and Office Equipment	3,31,775.00	
5. Deposits		
a) Telephone	90,629.00	90,629.00
b) Lease Rent		
c) Electricity	7,41,676.00	4,36,508.00
d) AICTE, if applicable		
e) Security Deposit NLC	-	23,000.00
Community Hall Deposit		
Security Deposit with Industry		
Security Deposit with MES	4,14,520.00	4,14,520.00
EC Security Deposit		
ECH Deposit	1,000.00	1,000.00
Deposit with SE PWD		
Deposit Vehicle Maintenance	5,000.00	5,000.00
Deposit with CPWD	7,64,76,447.00	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	10,69,349.00	3,46,078.00
Deposit - Stationery		
Deposit - ECV		
c) AMC Lab and Office Equipment	9,600.00	
MLNN Deposit	10,000.00	10,000.00
6. Income Accrued:		
a) On Investments from Earmarked/ Endowment Funds		
b) On Investments-Others	64,99,057.00	19,55,838.18
c) On Loans and Advances		
d) Others (includes income due unrealized)		
7. Other - Current assets receivable from UGC/sponsored projects		
c) AMC Lab and Office Equipment		
b) Debit balances in Sponsored Fellowships & Scholarships	16,40,253.00	
c) Grants Receivable		-
d) Amount Receivable from NITTTR OWP	5,22,750.00	
e) Income receivable	3,22,500.00	97,900.00
f) Refund due from IT towards TDS	7,46,629.54	4,38,259.54
8. Claims Receivable		
OTC DUE FROM THE MINISTRY FOR THE COMPLETED COURSE		
TOTAL	8,90,66,907.54	9,41,47,692.72

SCHEDULE 9 - ACADEMIC RECEIPTS

Amount in Rupees

	Current Year 2023-24	Previous Year 2022-23
FEES FROM STUDENTS		
Academic		
1. Tuition fee Ph D	37,000.00	1,60,000.00
Tuition fee M.E/M.Tech	14,06,680.00	1,87,401.00
Staff Development Programmes		
2. Admission fee Ph D		
Admission fee M.E/M.Tech		
3. Enrolment fee/Course Fees		
4. Library Admission fee		
5. Laboratory fee		
6. Art& Craft fee		
7. Registration fee		
8. Syllabus fee		
Total (A)	14,43,680.00	3,47,401.00
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	1,38,500.00	4,66,500.00
2. Sale of syllabus and Question Paper, etc.		
3. Sale of prospectus including admission forms		
Total (D)	1,38,500.00	4,66,500.00
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)	15,82,180.00	8,16,401.00

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	GOVERNMENT OF INDIA			Current Year Total 2023-24	Previous Year Total 2022-23
	OH-35	OH - 31	OH - 36		
Balance B/F	8,59,94,186.22	4,28,71,787.19	9,21,10,276.63	22,09,76,250.04	14,50,92,906.08
Add: Receipts during the year	3,00,00,000.00	10,80,00,000.00	10,80,00,000.00	24,60,00,000.00	38,00,00,000.00
Total	11,59,94,186.22	15,08,71,787.19	20,01,10,276.63	46,69,76,250.04	52,50,92,906.08
Less: Refund to UGC					
Balance	11,59,94,186.22	15,08,71,787.19	20,01,10,276.63	46,69,76,250.04	52,50,92,906.08
Less: Utilised for Capital expenditure (A)	6,29,61,316.00			6,29,61,316.00	3,00,16,661.00
Balance	5,30,32,870.22	15,08,71,787.19	20,01,10,276.63	40,40,14,934.04	49,50,76,245.08
Less: utilized for Revenue Expenditure (B)		15,82,24,969.84	16,41,64,121.00	32,23,89,090.84	27,40,99,995.04
Less: utilized for Capital / Revenue Advance (C)		(1,00,000.00)	1,80,000.00	80,000.00	
Balance C/F (C)	5,30,32,870.22	(74,53,182.65)	3,57,66,155.63	8,13,45,843.20	22,09,76,250.04

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 2023-24	Previous Year 2022-23	Current Year 2023-24	Previous Year 2022-23
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	-			-
Total			-	-
Transferred to Earmarked/Endowment Funds				
Balance	Nil			Nil

SCHEDULE 12:- INTEREST EARNED

Particulars	Amount in Rupees	
	Current Year 2023-24	Previous Year 2022-23
1. On Savings Accounts with scheduled banks	-	-
2 On Loans		
a. Employees/Staff		-
b. Others : i) Interest on Conveyance Advance		
ii) Interest on Computer Advance		
3. Others - Penal Interest Collected From Staff	-	608.00
Total	-	608.00

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 2023-24	Previous Year 2022-23	
1. Hostel Room Rent	2,44,500.00	60,000.00	
2. License fee	2,67,633.00	1,99,921.00	
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc	3,82,896.00	1,77,700.00	
4. Electricity charges recovered	218.00	120.00	
5. Water charges recovered	6,008.00	5,452.00	
6. Tender Fees			
7. Staff Quarters Rent	2,90,424.00	8,33,974.00	
8. Guest House Room Rent	26,15,577.00	14,40,535.00	
9. Rent for Institute Premises			
10. Community Hall Rent			
Total - A	38,07,256.00	27,17,702.00	
B. Sale of institute's publications			
1. Sale of Books and CD's	750.00		
Total - B	750.00	-	
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	1,49,092.44	1,50,594.04	
Total - C	1,49,092.44	1,50,594.04	
D. Others			
1. Income from consultancy			
2. RTI fees	50.00	10.00	
3. Class Room Charges	1,55,000.00		
4. Sale of application form (recruitment)			
5. Misc. receipts (Sale of tender form, waste paper, etc.)			
Machinery scrap items			
6. Profit on Sale/disposal of Assets			
a) Owned assets	7,26,435.00		
b) Assets received free of cost			
7. Grants/Donations from Institutions, Welfare Bodies and International			
8 Others (specify)			
Testing Services			
Interest Receipts	-		
Training Cordination Fees	13,94,372.00	24,13,033.16	
Usage of Staff Car			
Rental Income			
6th PCP Pay Recovery Salary			
Total - D	22,75,857.00	24,13,043.16	
Grand Total (A+B+C+D)	62,32,955.44	52,81,339.20	

SCHEDULE 14 - PRIOR PERIOD INCOME

Amount in Rupees

Particulars	Current Year 2023-24	Previous Year 2022-23
1. Academic Receipts		
2. Income from Investments		
3. Interest earned (EB Meter Caution Deposit)		
Staff Quarters Rent		
Guest House Room Rent		
Hostel Room Rent		
4. Other Income	15,294.00	15,79,890.86
Total	15,294.00	15,79,890.86

NOTE: Excess Provision Written back
Income Tax Refund

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

	Amount in Rupees					
	Current Year 2023-24			Previous Year 2022-23		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Salaries and Wages	-	14,16,83,284.00	14,16,83,284.00		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		1,87,235.00	1,87,235.00		1,43,855.00	1,43,855.00
h) Medical facility/Reimbursement		7,19,502.00	7,19,502.00		10,08,431.00	10,08,431.00
i) Children Education Allowance		9,87,750.00	9,87,750.00		8,10,000.00	8,10,000.00
j) Others						
1) Others: Professional Development Allowance		9,25,211.00	9,25,211.00		5,11,611.00	5,11,611.00
2) Uniform Allowance		15,000.00	15,000.00		65,000.00	65,000.00
3) Transport Allowance Recovery		-	-		-	-
TOTAL		14,45,17,982.00	14,45,17,982.00		10,09,10,513.00	10,09,10,513.00

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

	Amount in Rupees				
	Pension	Gratuity	Leave Encashment	Total	
Opening Balance as on 01.04.2023					
Addition: Capitalized value of Contributions Received from other Organizations					
Total (a)	1,08,47,90,390.00	4,94,54,812.00	6,72,44,372.00	1,20,14,89,574.00	
Less: Actual Payment during the Year (b)	7,27,12,485.00	71,69,664.00	59,28,339.00	8,58,10,488.00	
Balance Available on 31.03 c (a-b)	1,01,20,77,905.00	4,22,85,148.00	6,13,16,033.00	1,11,56,79,086.00	
Provision required on 31.03 as per Actuarial Valuation (d)	1,16,71,29,082.00	5,95,28,440.00	7,55,32,395.00	1,30,21,89,917.00	
A. Provision to be made in the Current year (d - c)	15,50,51,177.00	1,72,43,292.00	1,42,16,362.00	18,65,10,831.00	
B. Contribution to New Pension Scheme	67,24,652.00			67,24,652.00	
C. Medical Reimbursement to Retired Employees				-	
D. Travel to Hometown on Retirement				-	
E. Deposit Linked Insurance Payment	60,000.00			60,000.00	
F. Commutation of Pension	67,91,797.00			67,91,797.00	
G. Leave salary and pension contribution	1,932.00			1,932.00	
Total (A+B+C+D+E)	16,86,29,558.00	1,72,43,292.00	1,42,16,362.00	20,00,89,212.00	

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 2023-24			Previous Year 2022-23		
	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
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)		8,65,000.00	8,65,000.00		9,88,916.00	9,88,916.00
TOTAL		8,65,000.00	8,65,000.00		15,87,764.00	15,87,764.00
			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 2023-24			Previous Year 2022-23		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure			-			-
a) Electricity and power		59,79,485.00	59,79,485.00		51,56,739.00	51,56,739.00
b) Water charges		11,81,571.00	11,81,571.00		7,23,817.00	7,23,817.00
c) Insurance		1,11,274.00	1,11,274.00		1,97,389.00	1,97,389.00
d) Rent, Rates and Taxes (including property tax)		-	-		77,100.00	77,100.00
Property Tax			-			-
Service Tax			-			-
Water Tax		59,365.00	59,365.00		52,223.00	52,223.00
B Communication			-			-
e) Postage		58,346.00	58,346.00		41,976.00	41,976.00
f) Telephone, Fax and Internet Charges		2,26,220.00	2,26,220.00		2,02,781.00	2,02,781.00
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		7,83,200.00	7,83,200.00		5,24,800.00	5,24,800.00
l) Advertisement and Publicity		14,04,119.00	14,04,119.00		3,27,075.00	3,27,075.00
m) Magazines & Journals			-			-
n) Others : Repairs		3,97,723.00	3,97,723.00		4,08,056.00	4,08,056.00
o) Fellowship to Research Scholars		4,55,833.00	4,55,833.00		2,25,000.00	2,25,000.00
Contingencies		2,13,79,117.24	2,13,79,117.24		1,89,05,871.64	1,89,05,871.64
Security Charges		1,19,53,839.00	1,19,53,839.00		1,12,62,462.00	1,12,62,462.00
Bank Charges		855.60	855.60		2,316.40	2,316.40
Celebrations		1,69,901.00	1,69,901.00		8,29,559.00	8,29,559.00
Internet Charges		-	-		13,145.00	13,145.00
Visit of Parliament Committee			-		-	-
Travelling & Conveyance		28,08,463.00	28,08,463.00		29,12,113.00	29,12,113.00
Medicines for Dispensary		-	-		14,232.00	14,232.00
Foundation Day Celebration		2,89,793.00	2,89,793.00		-	-
Staff Development Programme		44,49,269.00	44,49,269.00		89,42,320.00	89,42,320.00
Stipend to Apprenticeship Trainees		3,60,000.00	3,60,000.00		2,94,293.00	2,94,293.00
Development Expenses		32,000.00	32,000.00		29,000.00	29,000.00
Periodicals		2,40,360.00	2,40,360.00		34,474.00	34,474.00
Printing & Stationery		3,85,581.00	3,85,581.00		5,18,363.00	5,18,363.00
Maintenance of Lab / Office Equipments		24,92,695.00	24,92,695.00		12,78,425.00	12,78,425.00
Remuneration to Guest Lecturers		15,58,000.00	15,58,000.00		19,35,002.00	19,35,002.00
Consumables for Lab		498.00	498.00		1,99,110.00	1,99,110.00
Sports Fit India Activities		-	-		58,384.00	58,384.00
Inter Sports Meet		8,742.00	8,742.00		22,56,276.00	22,56,276.00
Housekeeping Services		1,22,41,537.00	1,22,41,537.00		1,25,99,484.00	1,25,99,484.00
			-			-
TOTAL		6,90,27,786.84	6,90,27,786.84		7,03,78,046.04	7,03,78,046.04

Note: Google Workspace License and HED Education License taken as Maintenance of Office / Lab equipment instead of Subscription expenses (Schedule -16)

SCHEDULE 18- TRANSPORTATION EXPENSES

Particulars	Current Year 2023-24			Amount in Rupees Previous Year 2022-23		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)			-			-
a) Running expenses		3,24,485.00	3,24,485.00		1,49,541.00	1,49,541.00
b) Repairs & maintenance		1,42,894.00	1,42,894.00		1,09,443.00	1,09,443.00
c) Insurance expenses		25,795.00	25,795.00		27,432.00	27,432.00
2 Vehicles taken on rent/lease			-			-
a) Rent/lease expenses			-			-
3 Vehicle (Taxi) hiring expenses		7,32,029.00	7,32,029.00		6,77,128.00	6,77,128.00
Total		12,25,203.00	12,25,203.00		9,63,544.00	9,63,544.00

SCHEDULE 19 - REPAIRS & MAINTENANCE

Amount in Rupees

Particulars	Current Year 2023-24			Previous Year 2022-23		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings		10,26,548.00	10,26,548.00		14,01,922.00	14,01,922.00
b) Furniture & Fixtures		5,300.00	5,300.00		13,088.00	13,088.00
c) Plant & Machinery			-			-
d) Office Equipment : A C			-			-
e) Computers		33,742.00	33,742.00		1,23,164.00	1,23,164.00
f) Laboratory & Scientific equipment			-			-
g) Audio Visual equipment			-			-
h) Cleaning Material & Services		3,33,738.00	3,33,738.00		5,39,091.00	5,39,091.00
i) Book binding charges			-			-
j) Gardening (Landscape)		40,691.00	40,691.00		2,57,240.00	2,57,240.00
k) Estate Maintenance : Trainees Guest House			-			-
l) Others : Guest House Expenditure		4,27,054.00	4,27,054.00		54,050.00	54,050.00
m) Electrical Maintenance		14,55,690.61	14,55,690.61		13,29,793.00	13,29,793.00
n) Trainees Guest House		82,993.00	82,993.00		6,27,192.00	6,27,192.00
TOTAL		34,05,756.61	34,05,756.61		43,45,540.00	43,45,540.00

SCHEDULE 20 - FINANCE COSTS

Particulars	Current Year 2023-24			Previous Year 2022-23		
	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 2023-24			Previous Year 2022-23		
	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 2023-24			Previous Year 2022-23		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses			-			-
2 Academic expenses						
3 Administrative expenses			-			-
4 Transportation expenses			-			-
5 Repairs & Maintenance			-			-
6. Depreciation		-	-		16,04,313.00	16,04,313.00
7 Other expenses		38,47,707.00	38,47,707.00		14,700.00	14,700.00
Total	-	38,47,707.00	38,47,707.00	-	16,19,013.00	16,19,013.00

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

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 of OTC, Sponsored Training Programme, special courses, other courses etc., excluding PG Programme.
- 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.

SCHEDULE - 24: NOTES ON ACCOUNTS

Financial Year 2023-24

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. The balance sheet statement of 1978 - 1979 serves as the foundation for the Land: Free Hold shown under Schedule 4 Fixed Assets of the balance sheet. The balance sheet for the years 1978 - 1979 reveals that a Fixed Asset item was shown as Land Development of Rs. 2,68,500. This item with the same name carried forward until the year 2005 - 2006. In 2006 - 2007 the institution classified this amount as a nominal value of the land and took it as Land: Free Hold on the basis of this previous classification. The same has continued till date.
4. 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”.
5. Corresponding figures for the previous year have been regrouped / rearranged whenever necessary.
6. Schedules 1 to 24 are annexed to and form as Integral part of the Balance Sheet as at 31.03.2024 and Income and Expenditure.
7. NPS amount with interest has been uploaded and remitted in NSDL account. There are 75 Staff members under NPS. 5 staff members are having PRAN and PRAN of 3 staff member is under process.
8. Financial statements of Main Account are prepared on accrual basis.

9. 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 was no separate Balance Sheets for the above account from 2022-23 onwards.
10. The interest on deposits are accounted on accrual basis.
11. Reconciliation of CPWD Accounts has been done and tallied with the Utilization Certificate furnished by CPWD.
12. 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.
13. In view of the above change, Schedule containing Significant Accounting Policies and Notes on Accounts have been renumbered as 23 and 24 respectively.

[[See Rule 238(1)]]

FORM OF UTILIZATION CERTIFICATE
FOR AUTOMOMOUS BODIES OF THE GRANTEE ORGANIZATION
UTILIZATION CERTIFICATE FOR THE YEAR 2023-24 IN RESPECT OF RECURRING
GRANTS-IN-AID-GENERAL (OH-31)

Name of the Scheme: *****

Whether Recurring or Non-Recurring grants: Recurring

Grants position at the beginning of the Financial year 2023-24

(i) Cash in Hand/Bank : 6,11,26,129.00
(ii) Unadjusted advances : NIL
(iii) Total : 6,11,26,129.00

Details of Grants received, expenditure incurred and closing balance: (Actuals)

Unspent Balances of Grants received years [Figure as of S. No.3(iii)]	Interested Earned thereon (IRG)	Interest deposited back to the Government	Grants received during the year			Total Available funds (1+2+3+4)	Expenditure incurred	Closing balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
6,11,26,129.00	15,07,677.59	NIL	F. No. 5-3/2023-TS.IV - Gen	20-07-2023	2,60,00,000.00	17,06,33,806.59	15,71,12,863.84	1,35,20,942.75
			F. No. 5-3/2023-TS.IV - SC	20-07-2023	93,00,000.00			
			F. No. 5-3/2023-TS.IV - ST	20-07-2023	47,00,000.00			
			Total		4,00,00,000.00			
			F. No. 5-3/2023-TS.IV - Gen	19-12-2023	2,80,00,000.00			
			SC		NIL			
			ST		NIL			
			Total		2,80,00,000.00			
			F. No. 5-3/2023-TS.IV - Gen	18-03-2024	4,00,00,000.00			
			SC		NIL			
			ST		NIL			
Total		4,00,00,000.00						
6,11,26,129.00	15,07,677.59	NIL	Grant Total		10,80,00,000.00	17,06,33,806.59	15,71,12,863.84	1,35,20,942.75

Component wise utilization of grant:

Grant-in-aid-General	Grant-in-aid-Creation of Capital Assets	Grant-in-aid-Salary	IGR	Total
15,71,12,863.84	0.00	0.00	0.00	15,71,12,863.84

Details of grants position at the end of the year:

(i) Cash in Hand/Bank : 1,35,20,942.75
(ii) Fixed Deposit : 0.00
(iii) Unadjusted Advance : 0.00
(iv) Total [i+iii] : 1,35,20,942.75

[[See Rule 238(1)]]

FORM OF UTILIZATION CERTIFICATE
FOR AUTOMOMOUS BODIES OF THE GRANTEE ORGANIZATION
UTILIZATION CERTIFICATE FOR THE YEAR 2023-24 IN RESPECT OF RECURRING
GRANTS-IN-AID-CREATION OF CAPITAL ASSETS (OH-35)

Name of the Scheme: *****

Whether Recurring or Non-Recurring grants: Recurring

Grants position at the beginning of the Financial year 2023-24

(i) Cash in Hand/Bank : 21,71,81,525.00

(ii) Unadjusted advances : NIL

(iii) Total : 21,71,81,525.00

Details of Grants received, expenditure incurred and closing balance: (Actuals)

Unspent Balances of Grants received years [Figure as of S. No.3(iii)]	Interested Earned thereon (IRG)	Interest deposited back to the Government	Grants received during the year			Total Available funds (1+2+3+4)	Expenditure incurred	Closing balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
9,01,32,589.00	4,18,799.33	NIL	F. No. 5-3/2023-TS.IV - Gen	18-03-2024	3,00,00,000.00	12,05,51,388.33	6,30,42,941.00 #	5,75,08,447.33
			SC		NIL			
			ST		NIL			
			Total		3,00,00,000.00			
8,11,38,831.00*	_____	NIL				8,11,38,831.00	_____	8,11,38,831.00
<i>4,59,10,105.00@</i>	_____	NIL				4,59,10,105.00	_____	4,59,10,105.00
21,71,81,525.00	4,18,799.33	NIL	Grant Total		3,00,00,000.00	24,76,00,324.33	6,30,42,941.00	18,45,57,383.33

CPWD Refund of Rs. 1,00,85,266 adjusted.

Component wise utilization of grant:

Grant-in-aid-General	Grant-in-aid-Creation of Capital Assets	Grant-in-aid-Salary	IGR	Total
0.00	6,30,42,941.00	0.00	0.00	6,30,42,941.00

Details of grants position at the end of the year:

(i) Cash in Hand/Bank : 18,45,57,413.33

(ii) Fixed Deposit : 0.00

(iii) Unadjusted Advance : 0.00

(iv) Total [i+iii] : 18,45,57,413.33

* Reserve and Surplus Fund - Rs. 8,11,38,83.

@ IRG and Interest - Rs. 4,59,10,105.

[[See Rule 238(1)]]

FORM OF UTILIZATION CERTIFICATE
FOR AUTONOMOUS BODIES OF THE GRANTEE ORGANIZATION
UTILIZATION CERTIFICATE FOR THE YEAR 2023-24 IN RESPECT OF RECURRING
GRANTS-IN-AID-SALARY (OH-36)

Name of the Scheme: *****

Whether Recurring or Non-Recurring grants: Recurring

Grants position at the beginning of the Financial year 2023-24

(i) Cash in Hand/Bank : 7,95,69,346.00
(ii) Unadjusted advances : NIL
(iii) Total : 7,95,69,346.00

Details of Grants received, expenditure incurred and closing balance: (Actuals)

Unspent Balances of Grants received years [Figure as of S. No.3(iii)]	Interest Earned thereon (IRG)	Interest deposited back to the Government	Grants received during the year			Total Available funds (1+2+3+4)	Expenditure incurred	Closing balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
7,95,69,346.00	15,07,677.59	NIL	F. No. 5-3/2023-TS.IV - Gen	20-07-2023	1,43,00,000.00	18,90,77,023.59	16,17,00,084.00	2,73,76,939.59
			F. No. 5-3/2023-TS.IV - SC	20-07-2023	1,05,00,000.00			
			F. No. 5-3/2023-TS.IV - ST	20-07-2023	52,00,000.00			
			Total		3,00,00,000.00			
			F. No. 5-3/2023-TS.IV - Gen	19-12-2023	3,00,00,000.00			
			Total		3,00,00,000.00			
			F. No. 5-3/2023-TS.IV - Gen	20-02-2024	4,20,00,000.00			
			Total		4,20,00,000.00			
			F. No. 5-3/2023-TS.IV - Gen	18-03-2024	60,00,000.00			
Total		60,00,000.00						
7,95,69,346.00	15,07,677.59	NIL	Grant Total		10,80,00,000.00	18,90,77,023.59	16,17,00,084.00	2,73,76,939.59

Component wise utilization of grant:

Grant-in-aid-General	Grant-in-aid-Creation of Capital Assets	Grant-in-aid-Salary	IGR	Total
0.00	0.00	16,17,00,084.00	0.00	16,17,00,084.00

Details of grants position at the end of the year:

(i) Cash in Hand/Bank : 2,73,76,939.59
(ii) Fixed Deposit : 0.00
(iii) Unadjusted Advance : 0.00
(iv) Total [i+iii] : 2,73,76,939.59

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

RECEIPTS AND PAYMENTS ACCOUNT

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, TARAMANI, CHENNAI - 600 113
RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2023-24

RECEIPTS		Current Year 2023-24	Previous Year 2022-23	PAYMENTS		Current Year 2023-24	Previous Year 2022-23
				I. Expenses			
I. Opening Balances							
a) Cash Balances		-	-	a) Establishment Expenses		23,39,69,860.00	19,13,30,631.00
b) Bank Balance				b) Academic Expenses		8,65,000.00	9,95,506.00
i) In Current Amounts		13,01,843.75	1,11,616.85	c) Administrative Expenses		6,71,45,867.84	6,47,23,991.34
ii) In Deposit Accounts		28,24,06,805.00	33,98,23,119.00	d) Transportation Expenses		12,64,800.00	9,52,946.00
iii) Savings Accounts		32,02,29,484.10	15,16,70,756.64	e) Repairs & Maintenance		38,61,143.00	35,74,982.00
				f) Prior period expenses		14,50,560.00	9,273.00
				g) General Expenditure			
II. Grants Received							
a) From Central Government				II. Expenditure on Fixed Assets and Capital Works-in-Progress			
for Revenue Expenditure		21,60,00,000.00	29,00,00,000.00	a) Fixed Assets : Capital Expenditure		3,84,06,297.00	2,98,30,411.00
for Capital Expenditure		3,00,00,000.00	9,00,00,000.00				
b) From State Government							
c) From other sources - Grants Receivable							
(Grants for capital & revenue exp/ to be shown separately, if available)							
III. Academic Receipts							
IV. Receipts against Earmarked/Endowment Funds/Corpus fund				III. Other Payments including statutory payments			
V. Receipts against Sponsored Projects/ Schemes				IV. Deposits and Advances			
		-	-237626.00	Deposit Others			
			4483019.54	Other Advances			
Direct Incomes				Deposits - Electricity			48,65,439.64
IGH Room Rent (International Guest House)		324500.00	813160.00	Security Deposit - NLC		3,05,168.00	
PENAL INTEREST ON ADVANCES TO STAFF		0.00	608.00	1. ADVANCE TO EMPLOYEES		-146000.00	
Prior Period Income		-4500.00	1085588.00	3. ADVANCE & OTHER AMOUNTS REC'ABLE IN CASH/KIND		32,02,716.00	
Seminar Hall Rent		13500.00	114300.00	4. PREPAID EXPENSES		3,317.00	
SERB - Karyashala (BSPV) Registration Fee		63000.00	25000.00	5. DEPOSITS		2,59,73,344.00	
TGH Room Rent (Trainees Guest House)		1068258.00	599650.00	Other Deposits		9,24,231.00	
Training Coordination Fee		1394372.00	2228743.16	7. Other Current Assets Rec'ble-UGC/SPONSORED PRO		3,08,370.00	
Yoga Hall		110000.00	20000.00	6. Interest Accrued			
Fees & Subscriptions(14)		1363655.00	816401.00	Loans & Advances (ME Examination fee Receivable)		0.00	5700.00
Income From Sales & Service (12)		539424.00	919389.00				
Other Income		1528323.44	330843.04				

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2023-24 (Contd.)

Amount in Rupees

RECEIPTS	Current Year 2023-24	Previous Year 2022-23	PAYMENTS	Current Year 2023-24	Previous Year 2022-23
VI. Deposit on account of externally funded projects			V. Closing balances		
VII. Income on SDR Interest	38,48,844.00	8,60,357.00	a) Cash in hand		
Interest on Loans and Advances			b) Bank balances		
Interest on Savings Bank Accounts	60,15,738.00	17382254.60	In Current Accounts		
IX. Sundry Debtors	21,650.00		In Savings Accounts	50,29,25,757.87	60,16,11,223.85
Sundry Creditors	(10,035.00)	-1124.00	In Deposit Accounts		
XI. Other income (including Prior Period Income)			Inoperative SB Accounts(*2)		
i) Duties and Taxes TDS, Service Tax etc	(503.00)		Inoperative SB Accounts(*2)		
ii) sale of Books and CDs					
XII. Deposits and Advances					
i) Loans and Advances					
ii) Other Deposits	99,12,616.00	29836.00			
iii) Other Receipts:					
OTC	0.00	4550594.00			
GPF Special Deposit Interest					
Guest House Room Rent Etc. Incl. Prior Period Income					
Royalty					
XIII. Misc Receipts including Statutory Receipts					
Misc Deposit - Atkins	(21,240.00)	85,248.00			
TGH Mess Exp / Income	(20,71,084.50)	7,31,618.00			
OTC LIABILITIES	-	(57,390.00)			
SWAYAM LIABILITIES	-	(44,64,000.00)			
STATUTORY RECOVERIES	(62,84,703.08)	(40,21,858.00)			
XIV. Any Other Receipts					
Reserve & Surplus	1,27,10,484.00				
TOTAL	88,04,60,431.71	89,79,00,103.83	TOTAL	88,04,60,431.71	89,79,00,103.83

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

GPF ACCOUNT

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

PROVIDENT FUND ACCOUNT
BALANCE SHEET AS AT MARCH 31, 2024

Liabilities	Amount in Rupees		
	2023-24	2022-23	Assets
GPF			2023-24
Opening Balance	4,55,04,861.00	3,97,34,058.00	2022-23
Add: Subscriptions in the year	89,81,280.00	99,10,735.00	GPF
Add: Interest Credited	30,93,542.00	29,16,419.00	
Less: Advance/withdrawal/Part Final	5,75,79,683.00	5,25,61,212.00	Temporary Advance
Closing Balance <u>GPF</u>	1,27,83,180.00	70,56,351.00	
Unclaimed Balance	4,47,96,503.00	4,55,04,861.00	
Employers Contribution	-	-	
Opening Balance	-	-	
Add: Subscriptions in the year	-	-	Cash at Bank : IOB
Add: Interest Credited	-	-	Fixed Deposit Iob
Less: Advance/withdrawal/Part Final	-	-	Fixed Deposit
NPS Contra	-	-	Special Deposit IOB
Closing Balance	-	-	Special Deposit SBI
			Accrued Interest
<u>Interest Reserve</u>			
Opening Balance	87,21,819.11	91,66,559.51	
Add: Opening Balance Adjustments			
Less: Excess of expenditure over Income	98,252.28	(4,44,740.40)	
Closing Balance			
Total	5,36,16,574.39	5,42,26,680.11	Total
			5,36,16,574.39
			5,42,26,680.11

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

PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2024

Expenditure	Amount in Rupees *				
	2023-24	2022-23	Income	2023-24	2022-23
Interest Credited to:			Interest earned on Investment		
GPF Account			SDR Interest - Special Deposits	-	2,88,506.00
Interest on subscription			Interest on FD	26,34,059.78	20,51,403.00
Bank charges			SB Interest	2,42,111.00	1,31,982.00
Excess of Income over Expenditure			GPF INTEREST ON SPECIAL DEPOSIT IOB	1,63,173.96	-
Total	31,91,794.28	24,71,891.00	SBI SPECIAL DEPOSIT INTEREST	1,52,449.54	-
			Excess of Expenditure over Income		
			Total	31,91,794.28	24,71,891.00

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

NITTT WEB PORTAL ACCOUNT

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

NITT WEB PORTAL ACCOUNT
Balance Sheet as at 31.03.2024

LIABILITIES	Amount in Rupees				
	2023-24	2022-23	ASSETS	2023-24	2022-23
Capital Fund	10,73,07,297.37	6,55,98,799.61	Bank Accounts	9,74,22,226.33	8,19,53,977.37
DUTIES & TAXES	7,11,050.00		Fixed Deposits	2,50,00,000.00	2,50,00,000.00
Add: Excess of Income over Expenditure	1,65,07,198.96	4,17,08,497.76	Refund of TDS overdue		
			Accrued Interest	21,03,320.00	3,53,320.00
Total	12,45,25,546.33	10,73,07,297.37	Total	12,45,25,546.33	10,73,07,297.37

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

NITTT WEB PORTAL ACCOUNT

Income & Expenditure Account for the year ended 31.03.2024

	Amount in Rupees				
	2023-24	2022-23	INCOME	2023-24	2022-23
EXPENDITURE					
Bank Charges	-	59.00	Course Fees	-	-
General Expenses	2,35,71,516.00	69,33,200.00	Module/Registration	3,71,69,164.96	4,63,32,128.76
Remuneration	7,15,613.00	7,02,500.00	FDR Interest	17,50,000.00	16,21,859.00
Contingencies	964.00	7097.00	Bank Interest	18,76,127.00	13,97,366.00
Remuneration for Guest Lecture					
Professional Charges					
Travel Expenses					
Vehicle Hire Charges					
Equipment Hire Charges					
Excess of Income over expenditure	1,65,07,198.96	4,17,08,497.76			
Total	4,07,95,291.96	4,93,51,353.76	Total	4,07,95,291.96	4,93,51,353.76

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

NITT WEB PORTAL ACCOUNT

Receipts & Payments Account for the Financial Year 2023-24

RECEIPTS	Amount in Rupees	
	2023-24	2022-23
OPENING BALANCE:		
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
LOCAL PURCHASE ADVANCE		
Accured Income	-	3,53,320.00
Refund of TDS Due	-	2,10,62,214.00
Miscellaneous Revenue Receipts	18,76,127.00	13,97,366.00
Bank Interest	23,74,985.00	21,34,497.00
Duties & Taxes	-	12,68,539.00
FDR Interest	4,25,69,164.96	4,63,32,128.76
Module / Registration fee		
Normal Interest		
Total	15,37,74,254.33	14,55,00,464.37
PAYMENTS		
Bank Charges	-	59.00
TDS	-	
Remuneration	7,15,613.00	7,02,500.00
General Expenses	2,35,71,516.00	69,33,200.00
Contingencies	964.00	7,097.00
Fixed Deposits		
Equipment Hire Charges		
Duties & Taxes	16,63,935.00	21,34,497.00
Professional Charges		
Remuneration for Guest Lecturer		
Travel Expenses		
Outstanding Expenditure NPTEL	-	16,87,420.00
Outstanding Expenditure NTA	-	60,19,500.00
Vehicle Hire Charges		
Module / Registration Fees	54,00,000.00	-
Miscellaneous Revenue Receipts		2,10,62,214.00
Cash at Bank	9,74,22,226.33	8,19,53,977.37
Fixed Deposits	2,50,00,000.00	2,50,00,000.00
Total	15,37,74,254.33	14,55,00,464.37

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

NITTT SWAYAM ACCOUNT

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
Taramani, Chennai - 600 113

NITT SWAYAM ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2024

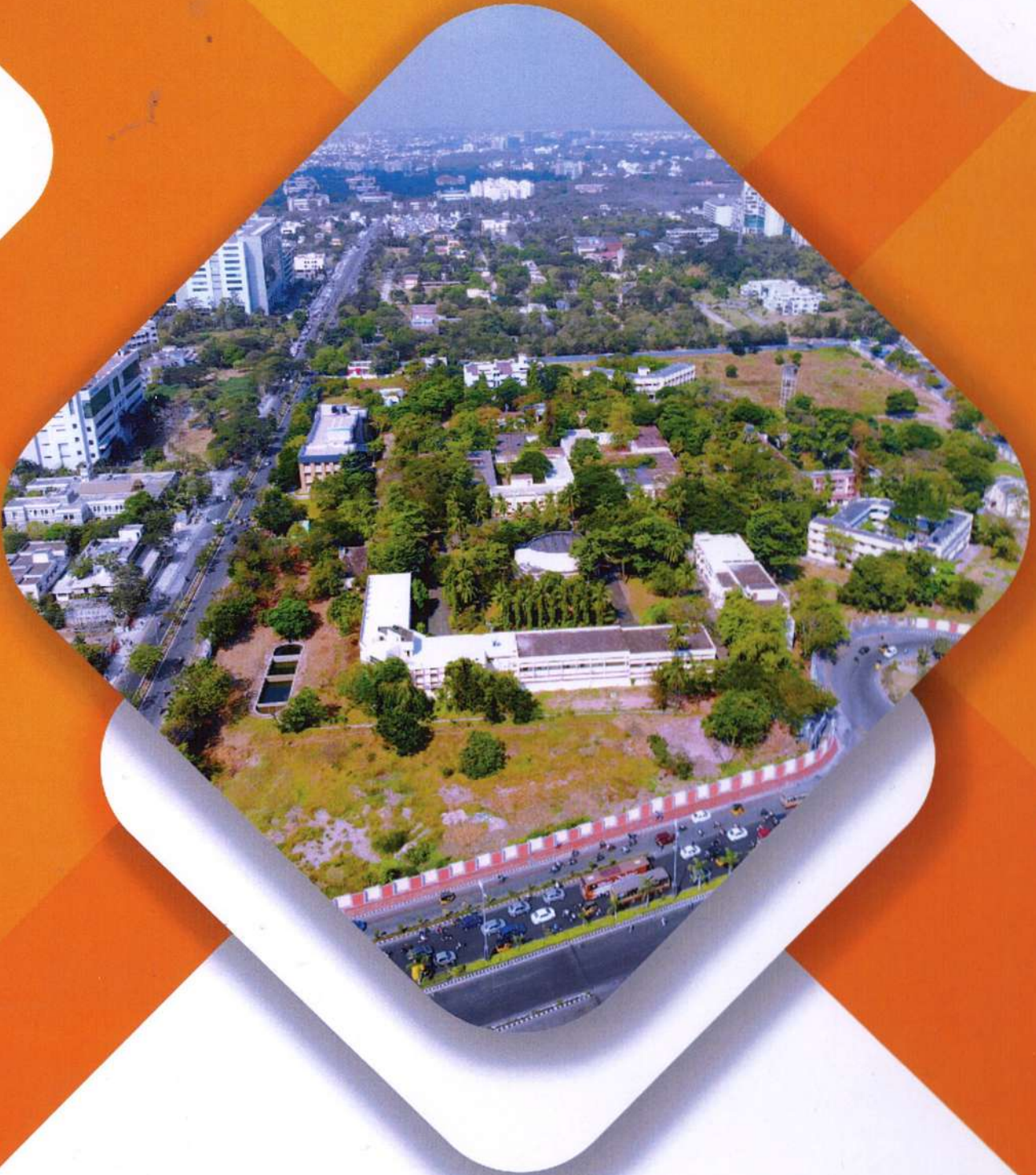
Liabilities	Amount in Rupees		
	2023-24	2022-23	2023-24
Opening Balance	1,35,935.48	1,32,286.68	
Add: Excess of Income over Expenditure	3682.60	3,648.80	1,39,618.08
Total	1,39,618.08	1,35,935.48	1,39,618.08

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2024

Expenditure	Amount in Rupees		
	2023-24	2022-23	2023-24
Professional Charges			
Bank Charges	94.40	47.20	
Excess of Income over Expenditure	3,682.60	3,648.80	3777.00
Total	3,777.00	3,696.00	3,777.00

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2023-24

Receipts	Amount in Rupees		
	2023-24	2022-23	2023-24
Cash in Hand			
Cash at Bank	1,35,935.48	1,32,286.68	94.40
Course Fees			
SB Interest	3,777.00	3,696.00	
TOTAL	1,39,712.48	1,35,982.68	1,39,712.48



Contact: **THE DIRECTOR**

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
Institution Deemed to be University under Distinct Category
A Centrally Funded Technical Institute (CFTI)
Ministry of Education, Government of India
Taramani, Chennai – 600 113
Phone: 044-2254 5441 / 406.
mail; director@nitttrc.ac.in, www.nitttrc.ac.in



[nitttr_chennai](#)



[nitttr.chennai](#)



[Nitttr Chennai](#)



[NITTTR Chennai](#)



[NITTTR Chennai](#)