

ANNUAL REPORT

2019 - 2020

NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH

An Autonomous Institute Under the Ministry of Human Resource Development, Govt. of India

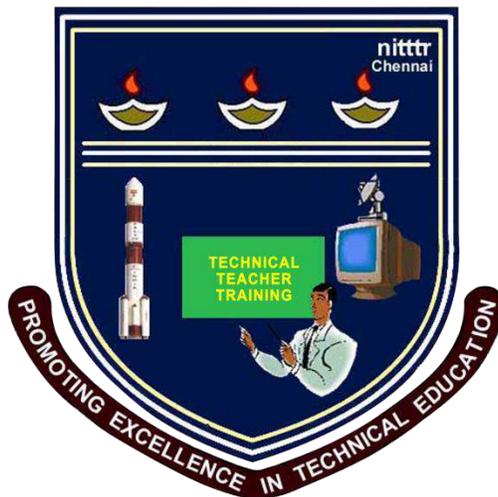


PROMOTING EXCELLENCE IN TECHNICAL EDUCATION

ANNUAL REPORT

2019-2020

(ENGLISH VERSION)



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

FROM THE DIRECTOR



The National Institute of Technical Teachers Training and Research (NITTTR), Chennai is glad to present the collective efforts in the quest of excellence in technical education through various activities of the Institute in the form of Annual Report for the year 2019-2020. This report reflects the accomplishments made in the areas of technical teachers training (for Polytechnics/Engineering colleges), research, curriculum development, overseas training programmes and industry collaboration along with other similar activities by the dedications of our faculty members. This report also incorporates the Vision, Mission and Objectives of the Institute and its functions, co-ordination with State, Regional and National level bodies and activities undertaken by the Institute under various National Schemes.

We are always striving to take advantage of technological developments that can make our training programmes more effective and accessible to our teachers nationwide. We recognize that not all the faculty members have the same access to technology, so we are careful to integrate the latest technological developments into our training, without making our training inaccessible or unaffordable for anyone. The continuous upgradation of laboratory and instructional facilities assure the participants a rewarding learning experience and change in environment. The year, 2019-2020 represented another period of expansion and developmental activities of the institute. The following achievements were highlighted during this year:

- Direct contact mode of training of 3337 technical teachers from 167 courses for polytechnics and 499 technical teachers from 12 engineering colleges;*
- Direct contact mode of training of 276 teachers, policy makers and educational administrators from 46 countries through 12 Overseas Training Courses;*
- Doctoral Degree awarded to 3 candidates;*
- Curriculum revision of 69 diploma programmes consisting of 1606 courses for Andhra Pradesh, Karnataka and Telangana State.*
- Development of 276 instructional resources (print type materials, lab manuals and videos)*

Although we train many thousands of in-country and overseas participants, perhaps the most gratifying part of our work at NITTTR, Chennai is when we hear directly from participants their experience/feedback of knowledge gained and living environment in NITTTR, Chennai campus. They participate in discussions and suggest improvements in all aspects and based on which we set our commitment and broad vision in our future programmes.

The Institute has received guidance and direction from Prof. V.S.S. Kumar, Chairman, BoG, and other eminent members of the BoG, as well as the Secretary, Joint Secretary, Deputy – Secretary and other officials from the Ministry of Education, Govt. of India. I see this opportunity to express our gratefulness towards them. I would also like to thank all those who inspired and encouraged us in our search for quality in technical education through moulding the technical teachers for effective teaching during this year. I hope and assure that the Institute will continue to attain higher levels of achievements in the years to come.

DIRECTOR

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1.0 Preamble

The National Institute of Technical Teachers Training and Research (NITTTR) Chennai was established as an autonomous institute by the Ministry of Human Resource Development (MHRD), 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

The NITTTR, Chennai envisions to be a leading institute in promoting excellence in Technical Education Systems by planning, designing, developing, implementing and evaluating quality training programmes, learning resources and research/consultancy projects for technical educational institutions, industry and community.

Our Short Vision Statement:

“Promoting Excellence in Technical Education”

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.

The following are the elements of Mission towards which the institute is committed to work:

- * To offer quality, flexible, relevant and cost-effective training programmes for technical teachers in various modes.

- * To demonstrate leadership by organising dynamic and leading edge programmes to meet the changing needs of the industry and the community.
- * To develop into an Institute of National Importance (INI) in order to provide effective and efficient services to the technical teachers.
- * To help in solving problems in engineering education through research, development and extension activities.
- * To establish and foster collaboration with the industry, state, national and international institutes, universities and other agencies committed to the development of technical education in the Country.

CORE VALUES

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

- ◆ Quality Education and Training
- ◆ Teamwork
- ◆ Staff Development for Continuous Learning
- ◆ Openness and Transparency
- ◆ Clientele Focus
- ◆ Social Responsibility

2.0 OBJECTIVES

The objectives of the institute are:

- ✓ To act as a centre for offering quality training programmes for technical teachers as per needs of the 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 training systems and their management.
- ✓ To undertake and guide research for development of innovative methods, processes and practices for improvement of teaching-learning environment in technical institutions.
- ✓ To design new instructional systems and strategies for production of multimedia learning materials.

- ✓ To develop and disseminate learning resources like textbooks, laboratory manuals, video programmes, computer assisted instructional multimedia packages to technical institutions and other organisations.
- ✓ To offer programmes for technical teachers in distance learning mode using state-of-the-art technologies.
- ✓ To offer courses / programmes for technical and vocational teachers to suit overseas demand especially from SAARC & ASEAN countries.
- ✓ To institute awards, fellowships, scholarships, prizes and medals.
- ✓ To collaborate with the community and industries in organizing continuing and non-formal vocational education programmes and providing extension and consultancy services.
- ✓ To undertake consultancy project for industry and technical institutions/organisations.
- ✓ To strengthen extension centres of the institute in different States for serving the specific needs of each State.
- ✓ To provide support services to Government of India schemes related to technical and vocational education system and as entrusted by the MHRD, Government of India, from time to time.
- ✓ To cooperate with educational or other institutions in any part of the world having similar objectives wholly or partly similar to those of the institute by exchange of teachers and scholars and generally in such manner as may be conducive to their common objects.
- ✓ To develop e-content and MOOCs on Teacher Education under the SWAYAM project of the Ministry. The NITTTR, Chennai is the National Coordinator for this project.
- ✓ To coordinate National Initiative for Technical Teachers Training policy of AICTE.

3.0 FOCUS OF ACTIVITIES DURING 2019-2020

The institute periodically reorients its programmes and activities to proactively respond to the changing needs of the clientele system. During the year 2019-2020, the institute undertook programmes, projects and activities under four major areas namely: (i) Faculty Development Programme; (ii) Curriculum Development; (iii) Instructional Resources Development; and (iv) Research and Consultancy Projects.



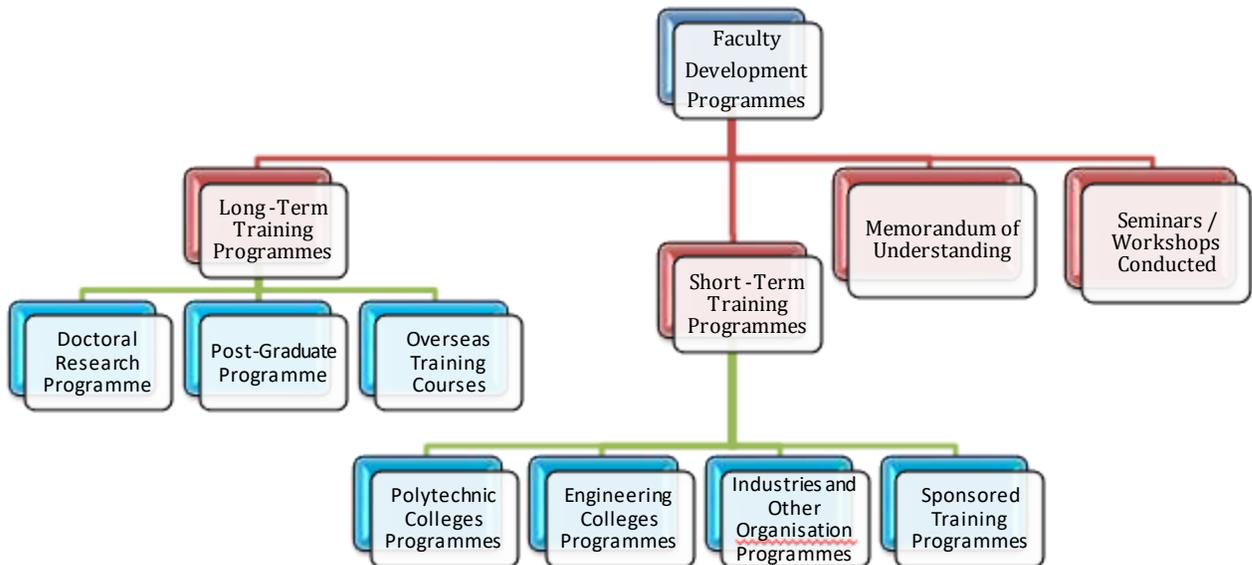
The institute focused on the following activities during the year 2019-2020:

1. Training of teachers of engineering colleges, polytechnics and personnel from industry and professionals through short-term courses in areas like engineering and technology, instructional design and delivery, technology enabled teaching-learning, accreditation, outcome based education, student psychology, soft skills, curriculum development and entrepreneurship development.
2. Conducting seminars/workshop for professional development of teachers.
3. Developing research capabilities in teachers of engineering colleges, polytechnics and personnel from industries through inter-disciplinary research leading to Ph.D.
4. Offering doctoral degree programme in civil engineering, affiliated to Anna University, by developing research capabilities in teachers of engineering colleges, polytechnics and personnel from industries through civil engineering research leading to Ph.D.
5. Offering post-graduate degree programme in Infrastructure Engineering and Management, 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. Providing consultancy services for the effective implementation and monitoring of the following schemes / projects:
 - a. Scheme of community development through polytechnics
 - b. Project for Persons With Disabilities (PWDs)
 - c. Unnat Bharat Abhiyan (UBA)
 - d. Expert committee visit to facilitate accreditation

- e. Technical and consultancy service in the area of engineering / technology
- f. Need based human resource development programmes and projects for Industries, Govt. Departments and Service Organizations

4.0 FACULTY DEVELOPMENT PROGRAMMES

Faculty 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 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 Doctoral Research Programme:

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

So far a total number of 91 scholars have been awarded Ph.D. degree in Engineering Education under the University of Madras. As on date, 13 candidates are registered under University of Madras and 7 candidates are registered under Anna University. During this year, three scholars were awarded Ph.D. in Engineering Education by the University of Madras (Table 1), and one enrolled for Ph.D. in Civil Engineering by the Anna University.

Table 1: Ph.D. Degree awarded to Research Scholars, 2019-2020

S. No.	Name of the candidate & Full-Time/Part-Time	Title of the Thesis	Supervisor from NITTTR, Chennai	Date of Viva Voce
1.	Shri. N. Shivakumar Part-Time	The Effectiveness of Information Technology Infrastructure Library (ITIL) Training and Certifications	Dr. D. Brahadeeswaran Former Professor and Head, Department of Policy Planning & Educational Research.	25.04.2019
2.	Shri. I. Kathiravan Part-Time	Effect of Training Programme in Improving the Quality of Work Life and Organizational Commitment among IT Professionals	Dr. R. Rajendran, Professor & Head, Centre for Educational Management & Applied Psychology	22.08.2019
3.	Shri. A. Ayyakkannu Part-Time	A Study on Factors Influencing the Effectiveness of Technician Apprenticeship Training in Mechanical and Automobile Engineering	Dr. B.Mukhopadhyay Former Professor and Head, Department of Educational Management & Applied Psychology	30.11.2019

4.1.2 Post-Graduate Programme:

M.E (Infrastructure Engineering and Management) programme lays emphasis on Construction/Infrastructure Engineering in terms of designing, planning and environmental management of large buildings, townships, roads and bridges, transportation engineering, and Infrastructure Projects. The Employment opportunities include Real Estate, Private and Public Sector Undertaking, Transportation sectors, Consultancy Firms, Industrial Plants, and Housing & Urban Development Authorities. More than all the aforementioned opportunities, NITTTR



Photo: M.E Infrastructure Engineering and Management

Chennai will provide an excellent Job opportunity to the successful students to serve as a great teacher in Engineering and Polytechnic Colleges. A total of 16 students are pursuing their M.E. in Infrastructure Engineering and Management.

4.1.3 Overseas Training Courses (OTC):

During the year 2019-2020, the institute organized twelve training programmes for the international participants under the ITEC (Indian Technical & Economic Cooperation) schemes of the Ministry of External Affairs, Government of India; and Ministry of Education and Culture, Indonesia. Around 276 participants from 46 Countries (Table 2 & Table 3) attended the programme during this academic year.



The ITEC programmes are fully-funded by the Ministry of External Affairs, Government of India, for training civilians from 161 countries in Asia, East Europe (including former USSR), Central Asia, Africa, and Latin America, the Caribbean as well as Pacific and Small Island countries. As a result, NITTTR Chennai is actively involved in

conducting specially designed training programmes under ITEC schemes for the past 38 years and there is now a great visibility and growing awareness among other countries about the competence and service provided by NITTTR Chennai. Over the years, the technical and economic assistance programme of the Ministry of External Affairs, Govt. of India has generated immense goodwill and substantive cooperation among the developing countries of the world. The Centre for International Affairs carries out the overall management of the programmes, with the respective coordinators of the institute taking care of the academic aspects.

Table 2: Overseas Training Courses, 2019 – 2020

Sl. No.	Title of the Course	Duration	Batch	No. of Participants 2019-2020	No. of participants trained since inception	No. of countries represented	Course Co-ordinator(s)
1.	IT, Web Designing and Pedagogy	20.02.2019 to 16.04.2019	V	40	196	01	Dr. G. Janardhanan
2.	English Proficiency and Improvement in Communication Skills for Bhutan Nationals	29.03.2019 to 23.05.2019	I	20	20	01	Dr. S. Renukadevi

Sl. No.	Title of the Course	Duration	Batch	No. of Participants 2019-2020	No. of participants trained since inception	No. of countries represented	Course Co-ordinator(s)
3.	English Communication Skills for Sudanese	29.03.2019 to 23.05.2019	I	23	23	01	Dr. R. Rajendran
4.	English Communication Skills for Afghan Nationals	29.03.2019 to 23.05.2019	I	24	24	01	Dr. K. S. Giridharan
5.	Total Solution for Integrated Library System and Institutional Repository	19.08.2019 to 31.08.2019	I	20	24	07	Dr. R. Ravichandran
6.	Leadership for Academicians of Higher Educational Institutions	25.11.2019 to 06.12.2019	I	27	27	01	Dr. E. S. M. Suresh
7.	Transforming Educational Ecosystem Through Blended Approach	02.12.2019 to 13.12.2019	I	31	31	21	Dr. G. Janardhanan
8.	Quality Assurance & Accreditation In Technical & Higher Education	02.12.2019 to 13.12.2019	I	25	25	18	Dr. E. S. M. Suresh Dr. KSA. Dinesh Kumar
9.	Curriculum Design And Instructional Materials Development	02.12.2019 to 13.12.2019	XXXV III	27	690	16	Dr. R. Santhakumar Dr. P. Malliga
10.	Design of Educational Applications using Web Technologies	12.02.2020 to 11.03.2020	III	28	72	19	Dr. V. Shanmuganeethi
11.	Women Leadership Development in TVET	26.02.2020 to 11.03.2020	I	03	03	03	Dr. S. Renukadevi
12.	Curriculum Evaluation for Administrators and Planners	26.02.2020 to 11.03.2020	I	08	08	05	Dr. G.A. Rathy
Total				276	1143		

Table 3: Enrolment by Nations, 2019-2020

Countries	No. of Participants Attended	Countries	No. of Participants Attended	Countries	No. of Participants Attended
AFGHANISTAN	56	LAOS	3	RUSSIA	3
AZERBAIJAN	1	LIBERIA	1	SUDAN	24
BANGLADESH	44	MALAYSIA	1	SOMALIA	2
BHUTAN	27	MALAWI	1	SOUTH SUDAN	5
CHILE	1	MALDIVES	3	SRILANKA	4
COLOMBIA	1	MALI	1	SURINAME	4
CONGO	3	MAURITIUS	2	SWAZILAND	1
COTE D'IVOIRE	1	MEXICO	3	TAJIKISTAN	2
EGYPT	2	MOLDOVA	1	TANZANIA	11
ETHIOPIA	2	MONGOLIA	4	TUNISIA	1
FIJI	2	MOZAMBIQUE	2	UGANDA	8
GUYANA	1	NAMIBIA	6	UZBEKISTAN	7
HONDURAS	1	NIGERIA	5	ZAMBIA	16
INDONESIA	1	OMAN	1	ZIMBABWE	3
KENYA	2	PARAGUAY	2		
KYRGYZSTAN	2	PHILIPPINES	2		
No. of Countries represented = 46		Total candidates		276	

Highlights

- Sponsored by the Indian Technical and Economic Cooperation Scheme (ITEC) of the Ministry of External Affairs, Government of India.
- A total of 276 participants (teachers and administrators) from 46 countries
- Exposure to Indian culture and tradition through visits.
- Participants felt the changes due to the scientifically designed training programme, and it is felt through their positive feedback. It exhibits the effectiveness and relevance of the programmes.
- Assurance from the participants that they would utilize the newly acquired competencies in performing their job in their home countries.
- Through the alumni of ITEC, NITTR, Chennai collaborates with different educational institute across the globe in teaching and research

Photos: Overseas Training Courses, 2019 – 2020



IT, Web Designing and Pedagogy



English Proficiency and Improvement in Communication Skills for Bhutan Nationals



English Communication Skills for Afghan Nationals



English Communication Skills for Sudanese



Total Solution for Integrated Library System and Institutional Repository



Leadership for Academicians of Higher Educational Institutions

Photos: Overseas Training Courses, 2019 – 2020



Transforming Educational Ecosystem through Blended Approach



Quality Assurance & Accreditation In Technical & Higher Education



Curriculum Design And Instructional Materials Development



Design of Educational Applications Using Web Technologies



Women Leadership Development in TVET



Curriculum Evaluation for Administrators and Planners

4.2 SHORT-TERM TRAINING PROGRAMMES

4.2.1 Polytechnic College Programmes:

The institute continued to implement the Government of India's scheme of Quality Improvement Programme (QIP). The main objective of the scheme is to improve the competencies of a large number of technical teachers in a relatively short-period through short-term staff development courses of one to two weeks duration. Recognizing the need for technical teachers and other staff to enrich their knowledge and to keep themselves abreast with the latest technologies, the institute organised training courses of duration varying between one and two weeks. These training courses are continuously reviewed, modified and redesigned so that the ever expanding and changing needs of teachers are met.

The specific training need of the teachers of the polytechnics in each of the southern states was identified through need analysis survey carried out by our extension centres and the State Directorates of Technical Education. The course details, duration and venue were finalized in programme development committee meetings held on 12.02.2019, attended by the representatives of Directorates of Technical Education of the southern states. These meetings ensured that the courses planned, designed and conducted will cater the training needs of technical teachers of the southern region. These faculty development courses were organized at the institute headquarter in Chennai and its respective State extension centres located at Hyderabad, Vijayawada, Bengaluru and Kalamaserry. The participation of experts from industries and institutions of repute such as IITs and CSIR laboratories enriched the effectiveness of the training courses. Industrial visits formed an integral component of majority of the training courses.

During this year, the courses were conducted covering the following broad areas:

- ▶ Content updating in engineering and technology
- ▶ Induction programme
- ▶ Pedagogy integrated content courses
- ▶ E-content development
- ▶ Personality development and NLP
- ▶ Outcome based education

The performance in the aforementioned areas during the year under report had been impressive as 167 courses were conducted involving a total of **3337** participants (Male: **2282**, Female: **1055**) from the polytechnics (Table-4). State-wise distribution of polytechnic faculty trained during 2019-2020 is given in Fig 1. As on date, **83,418** technical teachers from polytechnic system have been trained through **4414** courses.

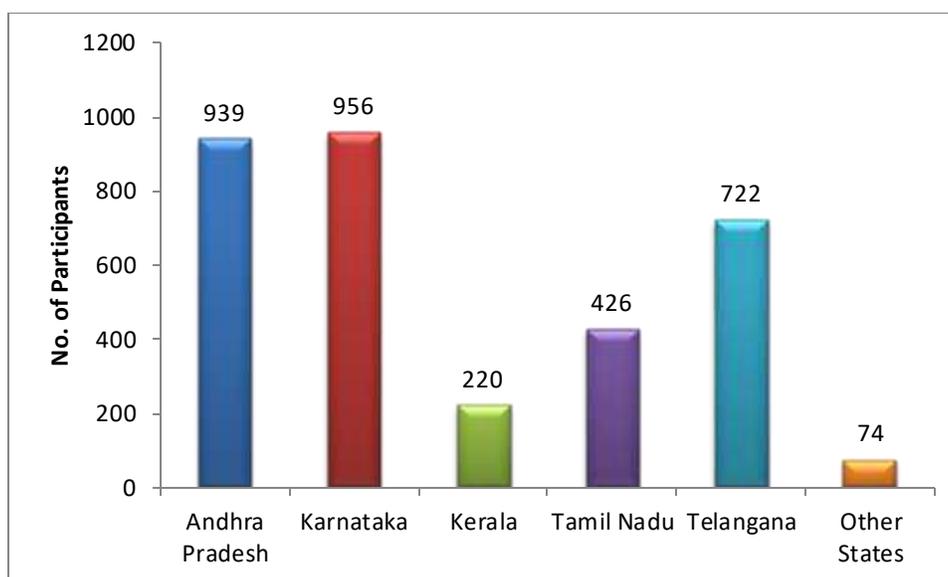


Fig 1: Number of polytechnic faculty members trained during 2019-2020

Table 4: List of Polytechnic Teachers Training Programmes 2019-2020

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
1.	OBE Curriculum for Civil Engineering Cluster Group	April 22 – 26, 2019	One	26
2.	OBE Curriculum for Mechanical Engineering Cluster Group	April 22 – 26, 2019	One	30
3.	Laboratory Instruction in Material Testing	April 22 – 27, 2019	One	20
4.	Laboratory Instruction in Workshop Practice	April 22 – 27, 2019	One	23
5.	OBE Curriculum for Electrical and Electronics Engineering Cluster Group	April 29 – May 03, 2019	One	41
6.	OBE Curriculum for Faculty of Non-Conventional Cluster Group	April 29 – May 03, 2019	One	38
7.	Induction Program based on OBE	May 06 – 17, 2019	Two	36
8.	Laboratory Instruction in Hydraulics	May 06 – 11, 2019	One	23
9.	Laboratory Instruction in DC Machines & Measurements	May 06 – 11, 2019	One	25
10.	Laboratory Instruction in Electronics Circuits	May 13 – 18, 2019	One	18
11.	Laboratory Instruction in Power Electronics	May 13 – 18, 2019	One	18
12.	Curriculum Revision Workshop on OBE Curriculum for faculty for IoE	May 15 – 17, 2019	Three	18

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
13.	Verilog Programming and Implementation in FPGA	May 20 – 24, 2019	One	16
14.	Curriculum Revision Workshop for Library & Information Science	May 20 – 24, 2019	One	14
15.	Environmental Engineering Laboratory Practice - EXCITE Programme - Excellence in Civil Engineering Teaching)	May 27 – 31, 2019	One	17
16.	E-Learning Design	May 27 – 31, 2019	One	24
17.	Laboratory Instruction in Electronics Engineering	May 27 – June 01, 2019	One	27
18.	Laboratory Instruction in Analog & Digital Communication	May 27 – June 01, 2019	One	25
19.	Circuit Simulation and PCB Design using MULTISIM	June 10 – 14, 2019	One	6
20.	Induction Programme for newly recruited teachers - Phase I	June 17 -21, 2019	One	25
21.	Rules and Regulations for Curriculum	June 12 – 13, 2019	Two days	24
22.	Energy & Environmental Management	June 17 -21, 2019	One	27
23.	VHDL Programming and Implementation in FPGA	June 17 -21, 2019	One	14
24.	Leadership & Team Work For Performance Excellence	June 17 -21, 2019	One	39
25.	Overview of OBE and NBA Process	June 17 -21, 2019	One	22
26.	Applications in PLC	June 24 -28, 2019	One	3
27.	Computer Aided Design and Manufacturing	June 24 –July 05, 2019	Two	18
28.	Data Communication & Networking	June 24 -28, 2019	One	17
29.	E-Content Development	June 24 -28, 2019	One	34
30.	Outcome Based Education	June 24 -28, 2019	One	30
31.	Laboratory Instruction in Microprocessor	June 24 -29, 2019	One	27
32.	Laboratory Instruction in Hydraulics & Fluid power	June 24 -29, 2019	One	26
33.	Refrigeration & Air Conditioning	July 01 – 05, 2019	One	15
34.	CNC Machines & Programming	July 01 – 05, 2019	One	11
35.	Entrepreneurship Development Programme	July 01 – 05, 2019	One	22
36.	MATLAB Programming	July 01 – 05, 2019	One	12
37.	Developing Activities for OBE Attributes	July 01 – 05, 2019	One	20
38.	3D Modeling & Animation	July 08 – 12, 2019	One	10

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
39.	Computer Hardware and Networking Lab Manual Preparation	July 08 – 12, 2019	One	20
40.	Earthquake Resistant Structures	July 08 – 12, 2019	One	10
41.	Life Skills Development	July 08 – 12, 2019	One	13
42.	Advances in Material Processing & Heat Treatment	July 08 – 19, 2019	Two	17
43.	LabVIEW Programming	July 08 – 12, 2019	One	21
44.	3G-5G Mobile Technologies	July 08 – 12, 2019	One	8
45.	Outcome Based Education and Its Implementation	July 08 – 12, 2019	One	22
46.	Laboratory Instruction in Material Testing	July 08 – 13, 2019	One	32
47.	Advanced Surveying with Total station	July 08 – 13, 2019	One	35
48.	CAD 2D and 3D	July 15 – 19, 2019	One	19
49.	E-Content Development & LMS	July 15 – 26, 2019	Two	23
50.	Outcome Based Education	July 15 – 19, 2019	One	12
51.	Societal Responsibility of an Engineer	July 15 – 19, 2019	One	21
52.	Maintenance of Electrical systems and testing	July 15 – 19, 2019	One	9
53.	ARM Controller LPC 2148 and its interfacing	July 22 - 26, 2019	One	6
54.	Learning Management Systems	July 22 - 26, 2019	One	7
55.	Python Programming	July 22 - 26, 2019	One	14
56.	Induction Training Programme	July 22 –Aug. 02, 2019	Two	29
57.	NBA Accreditation Based on OBE	July 22 - 26, 2019	One	22
58.	Optical Fiber Communication	July 22 - 26, 2019	One	16
59.	Laboratory Instruction in Thermal Engineering	July 22 - 27, 2019	One	29
60.	Laboratory Instruction in AC Machines	July 22 - 27, 2019	One	21
61.	Internet of Things	July 29 – Aug. 02, 2019	One	18
62.	Free Software for Education	July 29 – Aug. 02, 2019	One	8
63.	Computer Aided Engineering	July 29 – Aug. 09, 2019	Two	13
64.	Soft Skills	July 29 – Aug. 02, 2019	One	23
65.	Protection of Generators and Transformers	July 29 – Aug. 02, 2019	One	12

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
66.	Software Engineering	Aug. 05 – 09, 2019	One	7
67.	Surveying using Total Station & GPS	Aug. 05 – 09, 2019	One	16
68.	Instructional Design and Delivery System	Aug. 05 – 09, 2019	One	12
69.	Refresher Course on Engineering Mathematics	Aug. 05 – 17, 2019	One	37
70.	Advanced Embedded Controllers	Aug. 05 – 09, 2019	One	5
71.	Surveying with Total Station	Aug. 05 – 10, 2019	One	25
72.	Laboratory Instruction in Digital Electronics	Aug. 05 – 10, 2019	One	22
73.	Nanotechnology & Applications	Aug.19 – 23, 2019	One	11
74.	Working with Electrical CAD	Aug.19 – 23, 2019	One	23
75.	Data Communication and Networking	Aug.19 – 23, 2019	One	7
76.	Refresher Course on Limit state Design of Steel Structures	Aug.19 – 30, 2019	Two	22
77.	Outcome Based Education and Its Implementation	Aug.19 – 23, 2019	One	23
78.	Solar & Wind Energy Applications	Aug. 26 – 30, 2019	One	11
79.	Professional Practice	Aug. 26 – 30, 2019	One	26
80.	Strength and Conditioning Science	Sept. 03 – 14, 2019	One	23
81.	Developing Team work and Lifelong Learning	Sept. 03 – 07, 2019	One	19
82.	Curriculum Finalization Workshop	Sept. 04 – 06, 2019	Three days	42
83.	Developing professional ethics, values and communication skills	Sept 05 – 09, 2019	One	18
84.	Personality Development and NLP	Sept. 09 – 14, 2019	One	25
85.	Programming and Applications using Arduino and Raspberry Pi	Sept. 09 – 14, 2019	One	8
86.	Applications in Power Electronics Engineering	Sept. 16 – 20, 2019	One	10
87.	Question Paper Authoring & Student Evaluation	Sept. 16 – 20, 2019	One	6
88.	Trends in Mechatronics & Manufacturing for Industrial Automation	Sept. 16 – 27, 2019	Two	19
89.	Data Analytics using R Programming	Sept. 16 – 27, 2019	Two	8
90.	Professional Communication & Etiquette	Sept. 16 – 20, 2019	One	25
91.	Smart Manufacturing for Industry 4.0	Sept. 23 - 27, 2019	One	4
92.	Student Psychology & Prevention of Suicide	Sept. 23 - 27, 2019	One	19

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
93.	Societal Responsibility of an Engineer	Sept. 23 - 27, 2019	One	20
94.	Preliminary workshop for revision of curriculum for CE,AA,ME, Auto & allied branches	Sept. 23 - 27, 2019	One	24
95.	Refresher Course on Engineering Physics	Sept. 30 – Oct. 11, 2019	Two	34
96.	Desktop Publishing	Sept. 30 – Oct. 04, 2019	One	4
97.	Developing Team work and Lifelong Learning	Sept. 30 – Oct. 05, 2019	One	19
98.	Life Skills & Student Psychology	Oct. 14 – 18, 2019	One	16
99.	E- Library	Oct. 21 – 25, 2019	One	24
100.	Student Psychology	Oct. 21 – 25, 2019	One	8
101.	NBA Process	Oct. 22 – 24, 2019	Three days	16
102.	OBE & NBA accreditation	Oct. 21 – 25, 2019	One	34
103.	Communicative Language Teaching including ELT techniques	Oct. 21 –Nov. 1, 2019	Two	30
104.	Outcome Based Education	Oct. 29 – Nov. 02, 2019	One	28
105.	Outcome Based Education	Oct. 28 – Nov. 01, 2019	One	40
106.	NBA Accreditation Process	Nov. 04 – 06, 2019	Three days	35
107.	Preliminary workshop for revision of curriculum for EC,EE,EI & allied branches	Nov. 11 – 16, 2019	One	27
108.	Refresher course on Electrical, Electronics and Communication Engineering	Nov. 11 – 22, 2019	One	38
109.	Preliminary workshop for revision of curriculum for CME, CCP, Chem. Engg & allied branches	Nov. 18 – 23, 2019	One	31
110.	Personality Development and NLP	Nov. 25 – 29, 2019	One	18
111.	Life Skills	Dec. 02 – 06, 2019	One	14
112.	OBE & Adaptive Learning	Dec. 02 – 06, 2019	One	26
113.	Engineering Chemistry and Nano Materials	Dec. 9 – 20, 2019	Two	33
114.	Computer Aided Manufacturing and Metrology	Dec. 16 – 20, 2019	One	18
115.	Web Designing	Dec. 16 – 20, 2019	One	16
116.	Industrial Control using PLC, Pneumatics and LabVIEW	Dec. 16 – 20, 2019	One	31
117.	Finalization of C-18 Curriculum and Tantalization of Old Schemes	Dec. 16 – 20, 2019	One	45
118.	OBE Curriculum for Specialized Program in Electronics	Dec. 16 – 20, 2019	One	9

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
119.	Laboratory Instruction in Electrical Wiring and Maintenance	Dec. 16 – 21, 2019	One	28
120.	Verilog Programming and Implementation in FPGA	Dec. 30 – Jan 03, 2020	One	8
121.	Developing Professional Ethics, Values, Communication Skills	Dec. 30 – Jan 04, 2020	One	24
122.	Revision of Curriculum of Diploma Programmes	Jan 04 – 05, 2020	Two days	29
123.	Non Traditional Machining	Jan 06 – 10, 2020	One	14
124.	Special Electrical Machines and Control	Jan 06 – 10, 2020	One	6
125.	Internet & Multimedia in Education	Jan 06 – 10, 2020	One	13
126.	Advanced Skills in Digital Management	Jan 06 – 10, 2020	One	25
127.	Curriculum Gap Analysis and revision workshop for 1st year diploma programme -batch - I	Jan 06 – 10, 2020	One	23
128.	Final Workshop for Revision of Curriculum	Jan 06 – 10, 2020	One	25
129.	Cloud Computing	Jan. 20 – 24, 2020	One	13
130.	Yoga for Physical and Mental Health	Jan. 20 – 24, 2020	One	30
131.	Computer Aided Design and Manufacturing	Jan. 20 – 31, 2020	Two	19
132.	Curriculum Gap Analysis and Revision Workshop for 1st year Diploma Programme-batch - II	Jan. 20 – 24, 2020	One	30
133.	Final Workshop for Revision of Curriculum for of EE, EC, EI & Allied Branches	Jan. 20 – 24, 2020	One	21
134.	Integrating ICT in Teaching & Learning Process	Jan. 27 – 31, 2020	One	12
135.	Arduino and AVR Micro Controller Programming	Jan 27 – 31, 2020	One	13
136.	Pre-stressed Concrete Structures	Jan 27 – 31, 2020	One	7
137.	Curriculum Gap Analysis and Revision Workshop for 1st year Diploma Programme-batch - III	Jan 27 – 31, 2020	One	27
138.	OBE & NBA accreditation	Feb. 03 – 07, 2020	One	39
139.	Schematic, Simulation &PCB Design using ORCAD	Feb 03 – 07, 2020	One	6
140.	Material Testing Laboratory Practice	Feb 03 – 07, 2020	One	15
141.	Soft Skills	Feb 03 – 07, 2020	One	9
142.	Curriculum Gap Analysis and Revision Workshop for 1st year Diploma Programme- Batch - IV	Feb 03 – 07, 2020	One	30
143.	Final workshop for Revision of Curriculum for CME,CCP, Chem. Engg & allied branches	Feb 03 – 07, 2020	One	18
144.	Solar Energy – Theory & Applications	Feb 10 – 14, 2020	One	20
145.	E-Resources & Social Media Learning	Feb 10 – 14, 2020	One	13

S. No	TOPIC	Duration	No. of Weeks	No. of Participants
146.	Applications in PLC	Feb 10 – 14, 2020	One	8
147.	The Science of Happiness and Wellbeing	Feb 10 – 14, 2020	One	17
148.	MATLAB and LABVIEW Programming	Feb 10 – 15, 2020	One	25
149.	Curriculum Gap Analysis and Revision Workshop for 1 st year Diploma Programme- Batch - V	Feb 10 – 14, 2020	One	28
150.	Computer Hardware and Networking	Feb 10 – 14, 2020	One	13
151.	Advance Level Workshop on KOHA	Feb. 17-21, 2020	One	14
152.	Refresher course in Textile and Garment technology	Feb 17 - 21, 2020	One	42
153.	Advances in Heat Treatment and Non Destructive Testing	Feb 17 - 21, 2020	One	6
154.	Behavioral Assessment of Students	Feb 17 - 21, 2020	One	33
155.	Technology Enabled Learning and Teaching	Feb 17 - 21, 2020	One	8
156.	MATLAB Programming	Feb 24 - 28, 2020	One	16
157.	Multimedia Development	Feb 24 – Mar. 06, 2020	Two	24
158.	Curriculum Gap Analysis and revision workshop for 1 st year Diploma Programme- Batch - VI	Feb 24 – Mar. 06, 2020	Two	24
159.	IPR for Teachers	Feb 24 - 28, 2020	One	12
160.	Geotechnical Engineering	Mar.02 – 06, 2020	One	5
161.	OBE and NBA Accreditation Process	Mar.02 – 06, 2020	One	27
162.	English Language Skills & Laboratory	Mar.09 – 13, 2020	One	7
163.	Employability Skills for Youth	Mar.09 – 13, 2020	One	14
164.	Python for Beginners	Mar.09 – 13, 2020	One	13
165.	Curriculum Gap Analysis and Revision Workshop for 1 st Year Diploma Programme - Batch - VII	Mar.09 – 13, 2020	One	24
166.	Motivation and Leadership skills	Mar.16 – 20, 2020	One	5
167.	Curriculum Review Workshop for 1 st Year Diploma Programme - Batch - I	Mar.16 – 20, 2020	One	23
			Total	3337

4.2.2 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. Twelve short-term courses covering 499 participants (Male: 339, Female: 160) covering States like Andhra Pradesh, Karnataka, Tamil Nadu & other States were organized (Table 5). State-wise distribution of engineering college faculty trained during 2019-2020 is given in Fig 2. Thus, till date, **28,730** technical teachers of Engineering colleges have been trained through **705** courses. During this year the courses were conducted in the following areas:

- Instruction design and delivery system
- NAAC accreditation process
- Student psychology
- E-content development
- Student evaluation and question paper setting
- Outcome based education and NBA accreditation

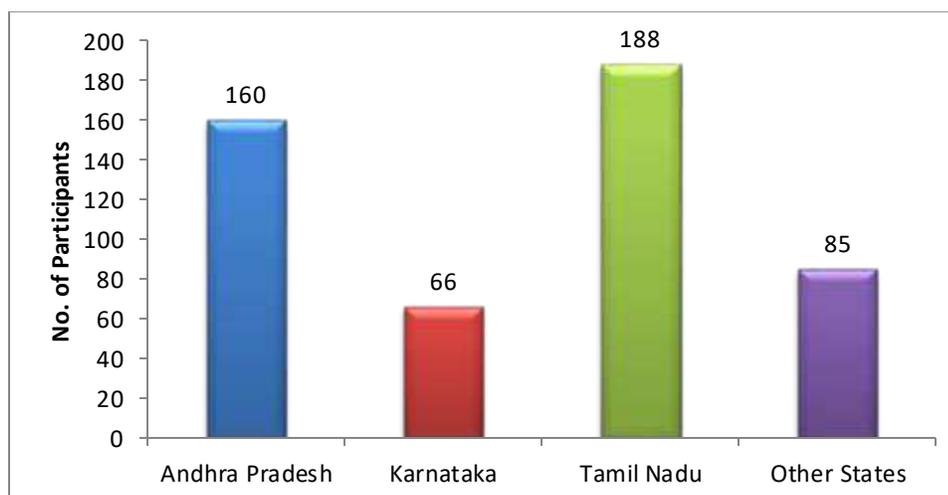


Fig 2. Number of engineering college faculty members trained during 2019-2020

Table 5: List of Sponsored Engineering College Training Programmes, 2019-2020

Sl. No.	Venue	Period	No. of Days	No. of Participants
1.	Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT), AP	May 21 – 26, 2019	6 days	40
2.	RMK College of Engineering and Technology, Tiruvallur, TN.	June 17 – 19, 2019	3 days	44
3.	K M Shah Dental College and Hospital Sumandeep Vidyapeeth deemed to be University, Vadora, Gujarat.	June 24 – 26, 2019	3 days	44
4.	Govt. College of Engg., Bargur, TN.	June 24 – 29, 2019	6 days	39
5.	KL Deemed to be University, AP.	July 01 – 06, 2019	6 days	40
6.	NRI Institute of Technology, Agiripalli, AP.	July 03 – 06, 2019	4 days	40
7.	Poornima University, Jaipur.	July 01 – 06, 2019	6 days	41

Sl. No.	Venue	Period	No. of Days	No. of Participants
8.	AMET, Chennai, TN.	July 08 – 14, 2019	7 days	41
9.	SECAB Institute of Engineering and Technology, Vijayapura, Karnataka.	Aug. 05 – 09, 2019	5 days	66
10.	PSR Engineering College, Sivakasi, TN.	Nov. 04 – 09, 2019	6 days	42
11.	KL Deemed to be University, AP.	Jan. 06 – 11, 2020	6 days	40
12.	MTU, Imphal.	Jan. 24 – 29, 2020	6 days	22
			Total	499

Note: AP – Andhra Pradesh and TN – Tamil Nadu

4.2.3 Industries and other Organisation Programmes:

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 2019-2020, this institute has conducted five training programmes for Government organizations (Table 6):



Photo: Training of Trainers for Tamil Nadu Highways Department

Table 6: List of Staff Training Programmes of Government Organisations

Title of the Programme	Name of the Government Organization	Duration	No. of Participants
Trainer's Training Programme	Air Works India (Engineering) Pvt Ltd, Delhi	06.05.2019 to 10.05.2019	6
Training of Trainers	Tamil Nadu Highways Department, Chennai	26.08.2019 to 30.08.2019	10
Training of Trainers	Tamil Nadu Highways Department, Chennai	23.09.2019 to 27.09.2019	11
Train the Trainer Programme	Air Asia India Ltd, Extension Centre Bengaluru	07.10.2019 to 11.10.2019	17
Train the Trainer Programme	Air Works India (Engineering) Pvt Ltd, Hosur	20.01.2020 to 24.01.2020	13
Total			57

A total of 57 participants attended these training programmes. Thus to date, 2803 persons were trained through 127 courses.

4.2.4 Sponsored Training Programme:

The following one sponsored training programme (Table 7) conducted during 2019-2020.

Table 7: Sponsored Training Programme Conducted, 2019-2020

S.No	Title of the Programme	Sponsored by	Duration	No. of Participants	Amount (Rs)
1	Geospatial Technologies	NRDMS-DST	05.06.2019 to 25.06.2019	32	10,00,000/-

India's evolving geospatial ecosystem, the current focus is on improving the publicness in the provision of geospatial data and information through institutional strengthening for enhancing the performance of the organizations. In this context, developing technical capacity at the individual level, remains the key factor for the success of this change process. Recognizing the above needs, a specially designed a unique programme on Geospatial Technologies sponsored by Natural Resources Data Management System

(NRDMS) program of the Department of Science and Technology (DST), Government of India, was conducted at our institute from 05.06.2019 to 25.06.2019.

In this course, the participants will gain insight into the basics of this technology through both theory and intensive practical sessions using open source geospatial software. It will also introduce the participants to the basics of remote sensing, GIS and navigation and will provide opportunities and on learning with open source software such as Quantum GIS and SAGA.

The main objective of the course is to:

- Capacity building in teaching, research and development and use of geospatial technologies.
- Promote the use of open source GIS.

The curriculum for the 21 days Level 1 training programme was provided by the DST along with the tentative schedule to be followed. Based on the curriculum and schedule, NITTTR Chennai customized the programme with the schedule aligned with the objectives of the training programme. The training programme included field visit, brainstorming session, hands on practice, experiential sharing, project work and assessment. In this programme, the entry level of the participant assessed through the online assessment on the first day of the training programme, which facilitated us to measure the improvement made through this course. The combination of assessment and the project work is evaluated and grades were provided along with the certificate. The following core concepts were covered in the training program:

- Geospatial Science
- Acquiring data captures
- Scales and Projections
- QGIS – Geo-referencing, Image registration, extracting data, Map preparation, Attribute data, Data exploration, Working with tables and queries
- SAGA – Geometric corrections, Image registration, Image classifications, Terrain analysis, Change detection,
- GPS Field exercise, GIS and Remote Sensing
- Working on projects,
- Project presentation

The programme was inaugurated by our Director, Prof. Sudhindra Nath Panda. The training session started with Registration, and Introduction of resource persons with the participants which was followed by

self-introduction of the participant. The participants also had a quick ice breaking session to provide more cohesiveness.

As per the DST NRDMS guidelines, online registration was carried out, followed by entry level assessment of the participants. In addition to this we also obtained the expectations from the participants. A total of 32 participants (Male: 18 and Female: 14) consists of academic faculty, research staff, Government officials and research scholars registered for the programme.



Photo: Valedictory programme of Geospatial Technologies



Photo: Classroom Lecture session

At end of each day, there was a daily feedback form provided by NITTTR which was aimed at knowing about the participant's view about the proceedings and what they learn and share with NITTTR for improvement of the training. The important phase in the training is to carry out project in the open source GIS software. In the project, we made three to four participants in a group to complete the project. At the end of the training programme, the summative assessment was carried out to assess the learning of the participants. The feedback was collected to ascertain the quality of content, training perspective and methodology adopted. Overall the participants well received the training programme and the project work made them to hone their skills better. The participants expressed their gratitude to course coordinators of the programme Dr. G. Janardhanan and Dr. K.S.A. Dinesh Kumar and DST-NRDMS.

4.3 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 the year 2019-2020 (Table 8):

Table 8: MoU Signed, 2019-2020

S.No	Name of the Institute	Date of Signing
1	Thiruvalluvar University, Tamil Nadu	23.12.2019

4.4 SEMINARS/WORKSHOPS CONDUCTED

A total of eighteen seminars/workshops were conducted during this year (Table 9). A total of 962 participants from Engineering/Polytechnic colleges, Industries and professionals attended and presented papers.

Table 9: Seminars/Workshops, 2019 – 2020

Sl. No.	Title	National/ International	Seminar/Workshop	Duration	Venue	No. of Participants	Co-ordinator(s)	Inaugurated by
1.	SWAYAM 2.0	National	Workshop	23.04.2019 to 25.04.2019	NITTTR, Chennai	25	Dr. G. Janardhanan Dr. V. Shanmuganeethi	Prof. Dr. S. N. Panda, Director, NITTTR Chennai.
2.	SWAYAM Capacity Building Workshop for the Course Coordinators	National	Workshop	27.05.2019 to 29.05.2019	NITTTR, Chennai	25	Dr. G. Janardhanan	Shri. N.Parameswaran, Advisor, Ministry of HRD, Shastri Bhawan, New Delhi.
3.	Rules and Regulations for Curriculum	Regional	Workshop	12.06.2019 to 13.06.2019	ECH	24	Dr. UmashankerSahu	Shri. U.V.S.N. Murthy, SBTET – TS Hyderabad
4.	Sensor Interfacing using Arduino and Raspberry Pi	National	Workshop	20.06.2019 to 26.06.2019	St.Joseph's College of Engineering, Chennai	43	Dr. G. A. Rathy Dr. P. Sivasankar	Dr. Jayarama Pradeep, HoD, EEE, St Joseph's College of Engineering, Chennai
5.	Engineering Applications of LabVIEW	National	Seminar	12.07.2019	Rajagopal Polytechnic College, Gudiyattam.	81	Dr. G. Kulanthaivel Dr. P. Sivasankar	Dr.R.Amutha Principal, Rajagopal Polytechnic College, Gudiyattam.
6.	Curriculum Finalization Workshop	Regional	Workshop	04.09.2019 To 06.09.2019	ECH	42	Dr. UmashankerSahu	Shri. U.V.S.N. Murthy, SBTET – TS Hyderabad
7.	SWAYAM Capacity Building Workshop for the Course Coordinators	National	Workshop	11-09-2019 to 13-09-2019	NITTTR, Chennai	25	Dr. G. Janardhanan	Ms. Malathi Narayanan, Deputy. Secretary, Ministry of HRD, New Delhi.
8.	Embedded Systems using 8051 Micro controller	National	Workshop	17.09.2019 to 18.09.2019	St Joseph's College of Engineering, Chennai	53	Dr. G. A. Rathy Dr. P. Sivasankar	Dr. Jayarama Pradeep HoD, EEE, St Joseph's College of Engineering, Chennai
9.	Need Analysis and Curriculum Framework for Post Graduate Programme	Regional	Workshop	19.10.2019	NITTTR, Chennai	10	Dr. S. Renukadevi	Prof. Dr. S. N. Panda, Director, NITTTR Chennai.
10.	Curriculum Framework Workshop for M.E Electronics and Communication Engineering	National	Workshop	06.11.2019	NITTTR, Chennai	12	Dr. G. Kulanthaivel	Prof. Dr. S.N. Panda Director, NITTTR, Chennai

Sl. No.	Title	National/ International	Seminar/Workshop	Duration	Venue	No. of Participants	Co-ordinator(s)	Inaugurated by
11.	Technology Enabled Learning	Regional	Workshop	06.11.2019	P.S.R. Engineering College, Sivakasi	85	Dr. S. Renukadevi	Mr. R.Solaisamy, Managing Trustee and Correspondent, P.S.R. Group of Institutions, Sivakasi.
12.	Writing Peer Reviewed Journal Paper	Regional	Workshop	25.11.2019 to 27.11.2019	NITTTR, Chennai	34	Dr. G. Janardhanan	Dr. James Avis, Emeritus Professor, University of Huddersfield, UK.
13.	Socially Relevant Technical Education – Exploring Cooperation Oriented Actions	National	Workshop	06.12.2019 to 07.12.2019	NITTTR, Chennai	164	Dr. R. Santhakumar Dr. K.S. Giridharan	Sri Sri Ravi Shankar, Founder, Art of Living. Prof. Anil D. Sahasrabudhe Chairman, AICTE Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
14.	PLC and SCADA	National	Workshop	23.01.2020 to 24.01.2020	St Joseph's college of Engineering, Chennai	53	Dr. G. A. Rathy Dr. P. Sivasankar	Dr. Jayarama Pradeep, HoD, EEE, St Joseph's College of Engineering, Chennai
15.	Embedded systems and Interfacing with real time applications	National	Workshop	29.01.2020 to 30.01.2020	Sathyabama Institute of science and Technology, Chennai.	27	Dr. G. A. Rathy Dr. P. Sivasankar	Dr. T.Ravi, HoD, EEE, Sathyabama Institute of Science and Technology, Chennai.
16.	Sensitization Workshop on NITTT	Regional	Workshop	20-02-2020	NITTTR, Chennai	89	Dr. P. Malliga Dr. G. Janardhanan Dr. V.Shanmuganeethi	Col B. Venkat, Director (RIFD), AICTE. New Delhi.
17.	Sensitization Workshop on NITTT	Regional	Workshop	24-02-2020	Sri Krishna College of Technology, Coimbatore.	100	Dr. P. Malliga Dr. G. Janardhanan Dr. V.Shanmuganeethi	Dr. Srinivasan Alavandar, Principal, SKCT, Coimbatore.
18.	Curriculum Development in Engineering Education	International	Seminar	05.03.2020	P.S.R. Engineering College, Sivakasi	70	Dr. S. Renukadevi	Mr. R.Solaisamy, Managing Trustee and Correspondent, P.S.R. Group of Institutions, Sivakasi.
Total						962		

Photos: Seminars / Workshops, 2019 – 2020



SWAYAM 2.0



SWAYAM Capacity Building Workshop for the Course Coordinators



Engineering Applications of LabView



SWAYAM Capacity Building Workshop for the Course Coordinators



Curriculum Framework Workshop for M.E Electronics and Communication Engineering



Technology Enabled Learning

Photos: Seminars / Workshops, 2019 – 2020



Writing Peer Reviewed Journal Paper



Socially Relevant Technical Education – Exploring Cooperation Oriented Actions



PLC and SCADA



Sensitization Workshop on NITT



Sensitization Workshop on NITT



Curriculum Development in Engineering Education

5.0 CELEBRATION OF NATIONAL DAYS:

The institute has celebrated the following National days (Table 10).

Sl. No.	Description	Date/ Duration	Events	Chief Guest
1.	World No Tobacco day	31.05.2019	Pledge and screening of awareness videos	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
2.	International day of Yoga	19.06.2019 to 21.06.2019	Mass demonstration of yoga, essay writing and elocution competition	Prof. S. Krishnamurthi, World Community Service Centre, Mylai Sky Trust, Chennai.
3.	Swachhta Pakhwada	20.09.2020 23.09.2019 25.09.2019	Cleaning of the campus	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
4.	Swachhta Pakhwada- Jalshakti Abhyaan	26.09.2020	Essay writing and elocution competition	Dr.Sankhar Conjeevaram, CEO/Vice President Tamilnadu Integrated Waste Management Association Environmental Consultant, SIPCOT Chennai.
5.	Plastic Free Campaign (Swachhata hi seva)	01.10.2020	Debate, essay writing and elocution competition	Dr. Ranjit Daniels, Co-Founder of Care Earth and Environmental consultant for IITM
6.	Shrambhaan at a village	02.10.2020	Drawing, essay writing and elocution competition	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
7.	Rashtriya Ekta Diwas (National Unity Day)	31.10. 2019	Pledge, slogan writing, essay writing, elocution and unity run	Dr. E.S.M. Suresh Professor, NITTTR, Chennai
8.	National Education Day	11.11.2019	Slogan writing essay writing elocution and rallies with banners and cards	Dr. E.S.M. Suresh Professor, NITTTR, Chennai
9.	Communal Harmony Campaign week	19.11.2019 to 25.11.2019	Screening of awareness videos	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
10.	Flag Day	25.11.2019	Special lecture	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
11.	Constitution Day	26.11.2019	Debate and essay writing	Mr. S. Sathiya Paul Deepak Faculty for Indian Constitution Shankar IAS Academy, Chennai

Sl. No.	Description	Date/ Duration	Events	Chief Guest
12.	Institution Day	14.12.2019	Screening of Videos from TTTI to NITTTR Lectures and excellence awards, cultural programmes	Dr. V. S. S. Kumar, Chairman, BOG, Chennai. Dr. Shyam Sundar Patnaik, Director, NITTTR, Chandhigarh Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
13.	Swachhata Pakhwada 2020	16.01.2020 to 30.01.2020	Pledge, planting of high Co2 absorption plants, cleaning the campus, elocution, poster making(water conservation), slogan writing and talk show on "Clean India green India"	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
14.	Martyrs Day	30.01.2020	Pledge	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.
15.	Matribasha Diwas 2020	20.02.2020	Screening of videos, slogan writing essay writing and elocution	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai.

6.0 CURRICULUM DEVELOPMENT

Centre for Curriculum Development, Planning and Coordination of the institute was set up in 1970 for revising the curricula of existing programmes and developing curricula for new programmes of polytechnics to meet the ever-changing technical human resource needs of the expanding Indian economy. The institute has evolved a curriculum development model which includes job and task analysis for developing technician profiles, identifying technician competency, formulating learning outcomes reflecting the knowledge, skills and attitudes, clustering and sequencing contents, and designing suitable evaluation schemes. The relevance and appropriateness of the curricula are ensured by the involvement of polytechnic teachers, industrial representatives and faculty from institutions of higher learning and the officials of the Directorates of Technical Education at all stages of curriculum development. During 2019-2020, curricula of 18 diploma programmes consisting of 734 courses were revised for the polytechnics of Andhra Pradesh State., curricula of 35 diploma programmes consisting of 72 courses were revised for the polytechnics of Karnataka State and curricula of 16 diploma programmes consisting of 800 courses were revised for the polytechnics of Telangana State.

Photos: Celebrations of National Days, 2019 – 2020



World No Tobacco Day



International day of Yoga



Swachhta Pakhwada- Jal shakti Abhyaan



Plastic Free Campaign (Swachhata hi seva)



Rashtriya Ekta Diwas (National Unity Day)



National Education Day



Communal Harmony Campaign week



Flag Day



Constitution Day



Swachhata Pakhwada



Institution Day

7.0 INSTRUCTIONAL MATERIALS DEVELOPMENT

During 2019-2020, the institute has developed three lab manuals and updated the 52 course materials in various engineering subjects, and pedagogy for use by teachers of technical institutions.

8.0 INSTRUCTIONAL MEDIA DEVELOPMENT

Video programmes

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, 210 videos were produced for SWAYAM, ARPIT and AICTE-NITTT and 11 videos produced for MOOC Based courses.

9.0 RESEARCH AND CONSULTANCY PROJECTS

The following four research (Table 11) and six consultancy projects (Table 12) sponsored by various funding agencies were undertaken by the faculty members of the Institute.

Table 11: Particulars of Research Projects

S. No.	Title of the Project	Sponsoring agency	Duration	Name of PI/ Members	Status	Sanctioned amount (Rs. in lakhs)
i.	Teacher Education under SWAYAM	MHRD, New Delhi	From Oct. 2016	Prof. Dr. S.N. Panda Dr. P. Malliga Dr. G. Janardhanan Dr. V. Shanmuganeethi	Ongoing	495.00
ii.	National Resource Centre (NRC) Swayam -Civil Infrastructure for Smart City Development	MHRD, New Delhi	July 2018 to June -2019	Dr. E. S. M. Suresh Dr. G. Janardhanan Dr. K. S. A. Dineshkumar	Completed	19.70
iii.	National Resource Centre (NRC-ARPIT-Swayam) – Sustainable Construction Materials and Technique	MHRD, New Delhi	July 2019 to Till date	Dr. E. S. M. Suresh Dr. G. Janardhanan Dr. K. S. A. Dineshkumar	Ongoing	19.70
iv.	NITTT-Web Portal Development and Maintenance	MHRD, New Delhi	Oct. 2019 to Till date	Prof. Dr. S.N. Panda Dr. G. Janardhanan Dr. V. Shanmuganeethi	Ongoing	400.00
TOTAL						934.40

Table 12: Particulars of Consultancy Projects

S. No.	Title of the Project	Sponsoring agency	Duration	Name of PI/ Members	Status	Sanctioned amount (Rs. in lakhs)
i.	Water Quality Testing for Palar River Basin	PWD Chennai	From Feb 2018 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan, Dr. K. S. A .Dinesh Kumar	Ongoing	0.61655
ii.	Unnat Bharat Abhiyan (UBA)	MHRD	From Jan 2018 to Till date	Prof. Dr. S. N. Panda Dr. K. S. Gridharan	Ongoing	3.50
iii.	Mitigation Plan for Kargil Nagar scheme	TNSCB Chennai	From Feb to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dineshkumar	Ongoing	5.90
iv.	DPR - Ecological Restoration – Nathapettai Tank	PWD, Chennai	From March 2020 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dinesh kumar	Ongoing	1.00
v.	DPR - Ecological Restoration – Pandravedu Tank	PWD, Chennai	From March 2020 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dinesh kumar	Ongoing	1.00
vi.	DPR - Ecological Restoration – Mohammed Ghouse Tank	PWD, Chennai	From March 2020 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dinesh kumar	Ongoing	1.00
TOTAL						13.01655

10.0 NATIONAL PROJECTS

10.1. SWAYAM:

SWAYAM is a programme initiated by the Ministry of Human Resource Development, 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 32 courses (Table 13) offered as New/Re-run through SWAYAM.

Table No. 13: List of SWAYAM courses (TEACHERS TRAINING) offered by NITTTR's

National Coordinator: Prof. Dr. Sudhindra Nath Panda, Director, NITTTR CHENNAI

SL. No	Name of the Courses	New/ Re-run	Coordinators Name	Course Offered by NITTTR
1.	Accreditation for Diploma Engineering Programme	Re-run	Dr. B.L. Gupta	Bhopal
2.	Fundamental of Outcome Based Curriculum in Engineering Education	Re-run	Dr. Joshua Earnest	Bhopal
3.	Accreditation of Undergraduate Engineering Programmes	Re-run	Dr. R.K. Dixit	Bhopal
4.	Accreditation for PG Engineering Programmes	New	Dr. D.S. Karaulia	Bhopal
5.	Learning and Instruction	New	Dr. Kiran Saksena	Bhopal
6.	ICT in Teaching and Learning	Re-run	Dr. K. James Mathai	Bhopal
7.	Professional Ethics & Sustainability	New	Dr. S K Nasar, & Dr. Joshua Earnest	Bhopal
8.	Instructional Planning and Delivery	New	Dr. S S Kedar	Bhopal
9.	Graphics and Animation Development	Re-run	Er. Shano Solanki	Chandigarh
10.	Development of Self Learning Material	Re-run	Dr. Sunil Dutt	Chandigarh
11.	Research in Technical Education	Re-run	Dr. P.K. Tulsi	Chandigarh
12.	Communication Skills, Modes & Knowledge Dissemination	New	Dr. Amandeep Kaur	Chandigarh
13.	Creative Problem Solving , Innovation and Meaningful R & D	New	Dr. P.K. Tulsi	Chandigarh
14.	Institutional Management & Administrative Procedures	New	Dr. Rakesh Watts	Chandigarh
15.	Quality Assurance in Engineering Education	Re-run	Dr. E.S.M. Suresh	Chennai
16.	Student Assessment and Evaluation	Re-run	Dr. V. Shanmuganeethi	Chennai
17.	Student Psychology	New	Dr. S. Renukadevi	Chennai
18.	Transforming Instruction through Blended Classroom	Re-run	Dr. G. Janardhanan	Chennai
19.	Strategic Planning for Technical Institutions	New	Dr. S. Dhanapal	Chennai
20.	E-content Development	Re-run	Dr. P. Malliga	Chennai
21.	Redefining Laboratory Instruction using Virtual Laboratory	New	Dr. G. Janardhanan	Chennai
22.	OER for Empowering Teachers	New	Dr. P. Malliga	Chennai
23.	Orientation Towards Technical Education and Curriculum Aspects	New	Dr. P. Malliga	Chennai
24.	Technology Enabled Learning & Life Long Self Learning	Re-run	Dr. G. Janardhanan	Chennai
25.	Sustainable Construction Materials and Techniques	New	Dr. G. Janardhanan	Chennai
26.	Laboratory and Workshop Management	Re-run	Dr. Dipankar Bose	Kolkata
27.	Learning Management System	New	Dr. Ranjan Das gupta	Kolkata
28.	Academic and Research Report Writing	Re-run	Dr. Samir Roy	Kolkata
29.	Capstone Project	New	Dr. Prasanta Sarkar	Kolkata

SL. No	Name of the Courses	New/ Re-run	Coordinators Name	Course Offered by NITTR
30.	Problem Based Learning	Re-run	Dr. Indrajit Saha	Kolkata
31.	Technical Education System	New	Dr. Sekhar Chakraborty	Kolkata
32.	Managing Learning Resources	New	Dr. Uday Chand Kumar	Kolkata

10.2. National Initiatives for Technical Teachers Training (NITTT):

With rapidly changing technological scenario in view of ever-increasing globalization as well as competitiveness in modern times, the role of technical education in economic development has become very important but challenging. Also, as a consequence of intensive technological developments, the concerns of sustainability, environmental degradation, resource depletion and inclusive growth have become more relevant. The need for well-qualified engineers/ professionals is more critical for the solution of numerous complex problems that affect the quality of life of everyone, everywhere. In view of the above, the concern for making the relevant educational curricula and training to teachers relevant to the global needs is becoming a top priority. Looking into the present needs, the AICTE has framed a policy in the name of “National Initiative for Technical Teachers Training (NITTT)”. This brings out character building of teachers, important facets of new teaching methodology and innovative means of transferring knowledge, in building a better educational ecosystem.

NITTR Chennai has been identified as the Coordinating agency for this policy. There are totally eight modules have been developed as stage-I modules and deployed in the <https://online-degree.swayam.gov.in>. All the inductee faculty members registering in the portal <https://nitTT.ac.in> which is designed and maintained by NITTR Chennai. The initiative is inaugurated by Our Hon’ble Minister of Education, Govt. of India on 11th January 2020. In the phase 1, the eight online courses have been prepared NITTRs (Chennai, Chandigarh and Bhopal) and it is applicable to the new inductee teachers and teachers who are in service but less than five years of teaching experience.

The contents are uploaded in the National MOOC platform, SWAYAM and the participants are encouraged to study and get transformed. The unique aspect of this policy is to incorporate Mentor based training and Industrial training in addition to these eight modules. National Testing Agency (NTA) has been identified as the nodal testing agency to conduct the proctored final examination and the module certification would be done through NITTT. The final professional certification will be provided by NITTT after completing all the three phases (MOOCs, Mentor Training & Industrial Training) of learning. It will facilitate the faculty members towards enhancing the professional skills as per the 7th Pay Commission Gazette Notification.

There are totally 15000 participants registered in the NITTT portal and undergoing the MOOCs in the SWAYAM platform.

Sl. no	Module Name
1.	Orientation towards Technical Education & Curriculum Aspects.
2.	Professional Ethics & Sustainability.
3.	Communication Skills and Knowledge Dissemination
4.	Instructional Planning and Delivery
5.	Technology Enabled Learning and Life-long self-learning
6.	Student Assessment and Evaluation
7.	Creative Problem Solving, Innovation and Meaningful research and development
8.	Institutional Management & Administrative Procedures

11.0 SCHEME OF COMMUNITY DEVELOPMENT THROUGH POLYTECHNICS

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

The number of polytechnics in each State implementing the Scheme of CDTP is as follows:

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

Activities:

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

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

Role of NITTTR

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

During the Year 2019-20, a Regional workshop was conducted on 9th, 10th& 14th October 2019 for verification of Physical Achievement Reports submitted by the Polytechnics of Tamil Nadu. A total of 54 participants attended the workshop.

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

In accordance with the Persons with Disabilities Act – 1995 and the National Policy of Education (1986), the Ministry of Human Resource Development, Govt. of India has launched a Centrally Sponsored Scheme for upgrading selected polytechnics in the country to integrate Persons with Disabilities (PWDs) into the main stream of technical and vocational education. (Table 14).

Objectives of the Scheme

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

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

Table 14: List of Polytechnics in the southern region implementing the PWD Scheme

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

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

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

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

13.0 IMPLEMENTATION OF THE USE OF HINDI LANGUAGE

To promote the use of Hindi in the Institute as envisaged by the Official Language Implementation Committee, a number of activities are being implemented during the year by the Hindi Cell of the Institute (Table 15).



Photo: Hindi Day Celebration

Table 15: Details of Hindi Workshops/Hindi Day

Sl. No.	Workshop Title	Date	Venue	No. of Participants	Resource Person/ Chief Guest
1.	Policy of Official Language, Rules, Act & implementation	05.04.2019	NITTTR Chennai	14	1. Shri. S. Thirumalai 2. Smt. Y. Uma
2.	Simple Hindi Sentence, Conversational and Situational Hindi	18.07.2019		19	1. Smt. B. Kavita 2. Smt. V. Rajeshwari
3.	Hindi Pakhwada & Hindi Day Celebration	02.09.2019 to 03.09.2019 & 04.09.2019		72	Prof. Dr. S. N. Panda, Director, NITTTR, Chennai
4.	Official Language Policy and Situational Hindi	14.10.2019		21	1. Shri. S. Thirumalai 2. Smt. Y. Uma
5.	Problems and solutions of Non-Hindi speakers during learning Hindi	16.01.2020		23	1. Shri. S. Thirumalai 2. Smt. Y. Uma

14.0 FACULTY NEWS

14.1. National / International Training Programmes / Seminars / Conferences and Workshops

In order to foster and enhance an academic knowledge of the faculty members, the institute has sponsored the faculty members to various National/International training programmes / seminars / conferences / workshops during 2019-2020 (Table 16).

Table 16: National / International Training Programmes / Seminars / Conferences and Workshops attended, 2019-2020

Sl. No.	Title	Training Programme Seminar/Conference/ Workshop	National / International	Duration	Venue	Faculty attended
1.	SCILAB	Workshop	National	04-04-2019	Online, organized by IIT, Bombay	Shri. A. P. Felix Arockiya Raj
2.	Wireless Communication and Signal Processing with hands-on in MATLAB (WCSPHM-2019)	Training Programme	National	13.04.2019 to 18.04.2019	NIT, Kurukshetra	Dr. Umashanker Sahu
3.	Training of TVET Teachers on Green Skills and New Economy for Sustainable Development	Training Programme	International	29.04.2019 to 10.05.2019	Zhejiang Technical Institute of Economics (ZJT E), Hangzhou, China	Dr. G. Janardhanan
4.	Recent Advances in Solar Energy Technologies for Sustainable Development	Workshop	National	29.04.2019 to 11.05.2019	NIT, Tiruchirappalli	Shri. M. Senthilkumar
5.	Tintometer – Go Beyond “Water Quality Analysis”	Seminar	National	24.05.2019	Hotel Lemon Tree, Chennai	Dr. G. Janardhanan
6.	Canadian Engineering Education Association 2019	Conference	International	10.06.2019 to 12.06.2019	University of Ottawa, Canada	Dr. E. S. M. Suresh
7.	Role of Neuro-linguistic Programming (NLP) in teacher empowerment in the teaching learning process	Conference	International	08.07.2019 to 12.07.2019	University of Basel, Switzerland	Dr. S. Renukadevi
8.	Higher Education Technology Conference 2019	Conference	National	18.07.2019	Hotel Hilton, Chennai	Dr. K.S. A. Dinesh Kumar
9.	1 st Edition of Librarian Forum India organized by Web of Science Group South Asia	Seminar	National	01.08.2019	The Westin Chennai, Velachery, Chennai	Dr. R. Ravichandran
10.	Skilling TVET in the Era of Industrial Revolution 4.0	Training Programme	International	25.08.2019 to 29.08.2019	Manila, Philippines.	Dr. G. Kulanthaivel
11.	Launch of AICTE – NITTT	Seminar	National	11.09.2019	AICTE Headquarters, New Delhi	Dr. G. Janardhanan Dr. V. Shanmuganeethi Dr. P. Malliga

Sl. No.	Title	Training Programme Seminar/Conference/ Workshop	National / International	Duration	Venue	Faculty attended
12.	Innovative and Advanced Multidisciplinary Research	Conference	International	12.10.2019 to 13.10.2019	Park Avenue Convention Centre, Singapore	Dr. V. Shanmuganeethi Dr. K.S. A. Dinesh Kumar
13.	Managing Technology Value Chains for Directors & Division Heads	Training Programme	National	14.10.2019 to 18.10.2019	Administrative Staff College of India (ASCI), Hyderabad,	Dr. Umashanker Sahu
14.	Workshop on Virtualized Active Learning in STEM	Training Programme	International	16.10.2019	Cincinnati Marriott River Center Cincinnati, Ohio, USA	Dr. G. Janardhanan
15.	Workshop on Tutorials and Remote Laboratory Exercises to Promote Radio Spectrum Innovation.	Training Programme	International	16.10.2019	Cincinnati Marriott River Center Cincinnati, Ohio, USA	Dr. G. Janardhanan
16.	Workshop 2C: Accessing MIDFIELD: A Workshop for R Beginners	Training Programme	International	16.10.2019	Cincinnati Marriott River Center Cincinnati, Ohio, USA	Dr. G. Janardhanan
17.	IEEE, Annual Frontiers in Education (FIE) Conference	Conference	International	16.10.2019 to 19.10.2019	Cincinnati Marriott River Center Cincinnati, Ohio, USA	Dr. G. Janardhanan
18.	Electric Hybrid Vehicle Engineering	Workshop	National	18.10.2019 & 19.10.2019	IIITDM, Kancheepuram	Dr. G. A. Rathy
19.	IEEE Learning With MOOC	Conference	International	23.10.2019 To 25.11.2019	Milwaukee School of Engineering, Milwaukee, Wisconsin	Mr. Felix Arockiya Raj
20.	Mentoring Skills	Training Programme	National	24.10.2019 to 26.10.2019	Institute of Management in Government (IMG), Regional Centre, Kochi	Dr. Sobha Cyrus
21.	9 th World Engineering Education Forum	Conference	International	13.11.2019 to 16.11.2019	ITC grand Chola, Chennai	Dr. G. A. Rathy
22.	Well Being of Adolescents Students in Technical Education Institutions	Conference	International	14.11.2019	Pandit Deendayalan Petroleum University, Gandhi Nagar, India	Dr. S. Renukadevi
23.	Life Skills	Training Programme	National	25.11.2019 to 27.11.2019	Translational Research & Professional Leadership Centre, Government Engineering College, Barton Hill	Dr. Sobha Cyrus

Sl. No.	Title	Training Programme Seminar/Conference/ Workshop	National / International	Duration	Venue	Faculty attended
24.	Use of Alternative Aggregates for Sustainable Concrete Construction	Seminar	National	26.11.2019	ICSR, IIT Madras, Chennai	Dr. K. S. A. Dinesh Kumar Dr. G. Janardhanan
25.	International Congress in Mechanical Engineering	Conference	International	29.11.2019 to 01.12.2019	NIT Tiruchirappalli	Shri. M. Senthikumar
26.	International conference on Solar & Wind Energy Resource Assessment	Conference	International	13.12.2019 to 14.12.2019	National Institute of Wind Energy, Chennai	Shri. M. Senthikumar
27.	Communication System Design using NI SDR USARP Platform	Training Programme	National	16.12.2019 to 20.12.2019	Thiagarajar College of Engineering, Madurai,	Dr. P. Sivasankar
28.	Social Media Management and Practices	Workshop	National	26.12.2019 to 27.12.2019	Vigyan Bhawan, New Delhi	Dr. P. Malliga
29.	Designing Mentor Training Programme and developing Rubrics	Workshop	National	02.01.2020 to 04-01-2020	NITTTR, Bhopal	Dr. P. Malliga Dr. G. Janardhanan Dr. V. Shanmuganeethi Dr. K. S. Giridharan Er. V. Sivakumar
30.	AICTE Initiatives for Enhancing Technical Education	Workshop	National	12.01.2020	Graphic Era University, Dehradun, Uttarakhand	Dr. G. Janardhanan
31.	45 th Edition - ICT Academy BRIDGE	Conference	National	26.02.2020	IITM Research Park, Chennai	Dr. G. Janardhanan Dr. V. Shanmuganeethi
32.	CPSC-Regional Program on Strengthening TVET Quality and Relevance through Institute – Industry Linkages	Training Programme	International	02-03-2020 to 06-03-2020	Pokhara, Nepal	Dr. G. Kulanthaivel Dr. P. Malliga

14.2. Publications:

a) Book Chapters published:

1. Yunus S. A. S., Abdulla A. A., Ahmada R. I., El-Nabhany U., Malliga, P. (2019) The Integration of Web 2.0 in Teaching-Learning in Tanzania Higher Learning Institutions: The Case of the State University of Zanzibar (SUZA). In: Tatnall A., Mavengere N. (eds). *Sustainable ICT, Education and Learning. SUZA 2019. IFIP Advances in Information and Communication Technology, vol 564. Springer, Cham. https://doi.org/10.1007/978-3-030-28764-1_20.*
2. Kothandaraman, D., Sivasankar, P., & Nagendar, Y. (2019). NG Smartphone Users Activity and Direction Detection using MQTT in IoT. Lambert Academic Publishing, Germany.

b) Papers Presented in Conferences:

1. Senthil Kumar, M. (2019, November, 29). *Characterization of form-stable phase change material for solar photovoltaic cooling*. International Mechanical Engineering Congress (IMEC)–2019, Department of Mechanical Engineering, NIT, Tiruchirappalli, Tamil Nadu.
2. Janardhanan G and Sudhindra Nath Panda. (2019, October, 17-19). *Faculty Development through Blended approach*. IEEE Frontiers in Education Conference (FIE), Cincinnati, Ohio, USA, 2019.
3. Felix Arockiya Raj, A. P. (2019, October, 23-25). *Understanding Open Pedagogy for Designing a Constructivist Learning in Indian MOOCs*. IEEE 2019 Learning with MOOCs, Milwaukee School of Engineering, Milwaukee, Wisconsin.
4. Ramesh Kumar, J., & Rajendran, R. (2020, January 23-24). Effect of training programme in improving leadership skills among students of management studies in Chennai. National Seminar on Education and Skill Enhancement for Human Resource Development, Department of Adult and Continuing Education, University of Madras, Chennai.
5. Charanya S Raman., & Rajendran, R. (2020, January 23-24). Study on personal factors related to quality of work-life (QWL) among women employees in it's industry in Chennai area. National Seminar on Education and Skill Enhancement for Human Resource Development, Department of Adult and Continuing Education, University of Madras, Chennai. Chennai.

c) Papers Presented in Conferences Proceedings:

1. Suresh, E. S. M., & Beena .B.R. (2019). Developing professional competence of faculty and students of civil engineering to meet the global standards. Proceedings of Canadian Engineering Education Association, CEEA-ACEG19, University of Ottawa, Canada.
2. Malliga, P., Senthilvel., Sivaranjini., Preethi., S., Sadhana Routh, S. (2019). Enhancing learning experience through augmented reality. Proceedings of International Conference on Digital Pedagogies (ICDP) 2019. <http://dx.doi.org/10.2139/ssrn.3377597>. Received Best Paper Award.

3. Rathy, G.A., Sivasankar, P., & Gnanasambanthan, T. (2019). Developing a knowledge structure using outcome based education in power electronics engineering. 9thWorld Engineering Education Forum, Chennai, India
4. Rathy, G.A., Sivasankar, P., Aravid Balaj I & Gunasekaran, K. (2019). 3 axis robot arm using micro-stepping with closed loop control. International Conference on Advanced Communication and Computational Technology, NIT Kurushetra, Haryana, India. Received Best Paper Award.
5. Dinesh Kumar, K.S.A (2019). Criteria analysis using GIS to priorities the slums. Proceedings of 2nd International Conference on Innovative & Advance Multidisciplinary Research, Singapore.
6. Krishna Santhosh, Sanoop.G, Sobha Cyrus & Benny Mathews Abraham (2019). The suitability of marine clay – zeolite mix as land fill liners. Proceedings of the International Conference on Advanced Research and Innovations in Civil Engineering at Muthoot Institute of Science & Technology, Kochi.
7. AswathyRajendran, Sanoop.G, Sobha Cyrus & Benny Mathews Abraham (2019). Compressibility studies on cochin marine clay stabilized with fly ash and lime columnar inclusions. Proceedings of the Indian Geotechnical Conference 2019 at SVNIT, Surat.
8. Anne Mary., & Janardhanan, G. (2019). Experimental investigation on the strength behaviour of artificial coarse aggregate in concrete. Proceedings of Global Environmental Changes and Sustainable Development. Chennai: ASDF.
9. ShahulHamed., &Janardhanan, G. (2019). Eco-friendly bio-electrochemical treatment methods for removing toxic organics pollutants from pharmaceutical waste water. Proceedings of Global Environmental Changes and Sustainable Development, Chennai: ASDF.

d) Papers published in Journals:

1. Kulanthaivel, G., & Ulagamuthalvi, V. (2020). Role of technical teacher training institution in a knowledge based economy. *Procedia Computer Science*, 172, 1096–1102.
2. Shanmuganeethi, V. (2019). Runtime detection of phishing attack using syntactic verification through web services. *Journal of the Gujarat Research Society*, 21(6), 174-185.
3. Senthil Kumar, M. (2019). Renewable energy technology transfer for rural development. *International Journal for Research in Engineering Application & Management*, 5(3), 161-164.
4. Senthil Kumar, M. (2019). Role of education in environmental sustainability. *International Journal of Science & Research*, 8 (6), 880-883.
5. Senthil Kumar, M. (2019). Professional ethics for technical teachers. *International Journal of Science & Research*, 8 (6), 1048-1049.
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8. Senthil Kumar, M. (2019). Impact of energy and environmental management training programme on technical teachers. *International Journal of Innovative Technology and Exploring Engineering*, 8(11), 2604-2607.
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12. Ramesh Kumar, J., & Rajendran, R. (2020, March). An Empirical Study on Management Skills with Special Reference to Management Students of Chennai City. *Studies in Indian Place Names*, 40(58), 19-26.
13. Arul, K., & Suresh, E. S. M. (2019). Comparing the higher education quality accreditation parameter of Indian with global accreditation agencies. *Journal of Review of Research*, 8(8).
14. Murugan, S., Kulanthaivel, G., & Ulagamuthalvi, V. (2019). Selection of test case features using fuzzy entropy measure and random forest. *Ingenierie des Systemes d'Information*, 24(3), 261-268.
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17. Saravanan, M., Thiagarajan, C., and Somasundaram, S. (2019). Parametric optimization of wirecut EDM through cuckoo search algorithm. *Materials Today (Elsevier)*, 22 (3), 681-687.
18. Saravanan, M., Thiagarajan, C., and Somasundaram, S. (2020). Performance of zinc coated electrode wire and parametric optimization during profile cutting of die steel. *International Journal of Innovative Technology and Exploring Engineering*, 9(4), 929-939.

19. Arivalagan, S., Dinesh Kumar, K. S. A., &Sudhakar, R. (2020). Feasible and experimental study on partial replacement of fine aggregate using construction debris. *International Journal of Chem Research*, 13(2), 47-53.
20. Kothandaraman, D., Chellappan, C.,Sivasankar, P.,& Syed Nawaz Pasha. (2019). Context-aware energy conserving routing algorithm for internet of things. *International Journal of Computer Networks & Communications*, 11(3),15-32.

The faculty of the Institute served as resource persons for Development of Curricula by the Autonomous Polytechnics and Engineering Colleges in the southern States in addition to their professional assistance to AICTE, ISTE, MHRD, MEA, DOTEs, Deemed Universities and Autonomous Engineering Colleges and Polytechnics either as members of Expert Committees or as Resource Persons.

15.0 ACKNOWLEDGEMENTS

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

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

16.0 BOARD AND SUB-COMMITTEES

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

A. NITTTR CHENNAI SOCIETY AND BOARD OF GOVERNORS (As on 31.03.2020)

Chairman

Prof. Dr. V.S.S. Kumar

Chairman – BOG of NITTTR, Chennai.

Member-Secretary

Prof. Dr. Sudhindra Nath Panda

Director, NITTTR, Taramani, Chennai.

Members

Nominee of the

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

Joint Secretary (Admin)

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

Joint Secretary and Financial Adviser

Integrated Finance Division
Ministry of Human Resource Development
Department of Higher Education
Government of India
Shastri Bhavan, New Delhi - 110 001.

Representative of the AICTE

Prof. A.P. Mittal (up to 14.07.2019)

Member Secretary
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi - 110 001.

Dr. Usha Natesan (From 15.07.2019)

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

NITTTR Faculty Representative

Dr. G. Kulanthaivel (Up to 17.02.2020)

Professor & Head
Dept. of Electrical, Electronics and Communication
Engineering, NITTTR, Chennai 600 113.

Dr. R. Santhakumar (from 18.02.2020)

Professor & Head
Centre for Rural & Entrepreneurship Development
NITTTR, Chennai 600 113.

Five Directors of Technical Education

The Director

Directorate of Technical Education
Vikas Nagar, Kanpur - 208 028. Uttar Pradesh.

The Director

Directorate of Technical Education
HOD Building Block-3
3rd and 4th Floor, Indrarati Bhawan
Naya Raipur, Chhattisgarh - 492 002.

**Two Industrialists/
Technical Professionals**

I. FINANCE COMMITTEE

Chairman

Members

Member-Secretary

The Director

Directorate of Technical Education
Tantrika Shikshana Bhavan
Place Road, Bangalore - 560 001, Karnataka.

The Commissioner of Technical Education

2nd Floor, Vidya Bhavan
Opp.to Latha Talkies, Nampally
Hyderabad - 500 001, Telangana.

The Director of Higher and Technical Education

Pipmate Complex,
Lawspet Road, Puducherry - 605 008.

Prof. Dr. A. Elaya perumal

Professor
Engineering Design Division
Dept. of Mechanical Engg.,
College of Engineering, Chennai - 600 025.

Shri Pradeep Menon

Chief Executive Officer
Lakhshya Cyber security Labs,
Eachanari, Coimbatore-641021

Prof. Dr. V.S.S. Kumar

Chairman – BOG of NITTTR, Chennai.

Joint Secretary (Admin)

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

Joint Secretary and Financial Adviser

Integrated Finance Division
Ministry of Human Resource Development
Department of Higher Education
Government of India
Shastri Bhavan, New Delhi - 110 001.

Prof. Dr. Sudhindra Nath Panda

Director, NITTTR, Taramani, Chennai

C. SUB COMMITTEES OF THE BOARD AND OTHER COMMITTEES

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

Members

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

2. BUILDING COMMITTEE

Chairman

Dr. Selvi Rajan (up to 19.09.2019)
Chief Scientist & Head,
Wind Engineering Laboratory
CSIR - Structural Engineering Research Centre
Chennai - 600 113.

Dr. B.H. Bharat kumar (from 20.09.2019)
Chief Scientist & Head,
AML, CSIR-SERC, Chennai – 600 113.

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.

3. DEPARTMENTAL PROMOTION COMMITTEE

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

4. ACADEMIC COUNCIL

Chairman	Director NITTTR Chennai-600 113.
Members	All Professors / Heads of Departments/Centers Two Associate Professors Two Assistant Professors Two Eminent Persons from the Field of Technical Education & Industrialists

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. G Kulanthaivel Professor & Head Department of Electrical, Electronics and Communication Engineering	-	Chairman
Dr. P. Malliga, Associate Professor & Head i/c, Centre for Educational Media and Technology	-	Member
Dr. G.A. Rathy Associate Professor Department of Electrical, Electronics and Communication Engineering	-	Member

7. INTERNAL COMPLAINT COMMITTEE (ICC) REGARDING SEXUAL HARASSMENT OF WOMEN AT WORK PLACE

Dr. P. Malliga Associate Professor & Head i/c Centre for Educational Media and Technology	- Chairperson
Dr. G. Kulanthaivel Professor & Head Dept. of Electrical, Electronics and Communication Engineering	- Member
Sr. Administrative Officer/ Office Superintendent NITTTR, Chennai	- Member
Smt. P. Kalaiselvi Stenographer Grade I	- Member
Smt. G Prathibha Upper Division Clerk	- Member

8. CHIEF VIGILANCE OFFICER

Dr. E.S.M. Suresh
Professor & Head
Department of Civil & Environmental Engineering
NITTTR, Chennai.

9. PUBLIC INFORMATION OFFICER

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

10. PARTICULARS OF COMMITTEE MEETINGS

	No.	Date	Venue
Board of Governors	40 th	04.10.2019	AICTE, New Delhi
	41 st (E)	07.01.2020	MHRD, New Delhi
	42 nd	18.03.2020	NITTTR-Chennai
Finance Committee	39 th	04.10.2019	AICTE, New Delhi
	40 th	07.01.2020	MHRD - New Delhi
	41 st	18.03.2020	NITTTR-Chennai

11. LIST OF FACULTY

**Centre for Research
and Consultancy**

Dr. Sudhindra Nath Panda,
Director

**Centre for Curriculum
Development Planning and
Coordination**

Dr. R. Santhakumar,
Professor & Head i/c (up to 23.07.2019)

Dr. S. Renukadevi,
Professor & Head i/c (from 24.07.2019)

Centre for International Affairs

Dr. G. Janardhanan,
Associate Professor & Head i/c

**Centre for Rural &
Entrepreneurship Development**

Dr. R. Santhakumar,
Professor & Head

**Centre for Educational Media and
Technology**

Dr. P. Malliga,
Associate Professor, Head i/c

Shri. A.P. Felix Arokiya Raj,
Assistant Professor

**Department of Civil &
Environmental Engineering**

Dr. E.S.M Suresh,
Professor & Head,

Dr. G. Janardhanan,
Associate Professor

Dr. K.S.A. Dinesh Kumar,
Associate Professor

**Department of Computer Science
and Engineering**

Dr. V. Shanmuganeethi,
Associate Professor, Head i/c

**Department of Electrical,
Electronics and Communication
Engineering**

Dr. G Kulanthaivel,
Professor & Head

Dr. G.A. Rathy,
Associate Professor

Dr. P. Sivasankar,
Associate Professor

**Department of Engineering
Education**

Dr. S. Renukadevi,
Professor & Head

Dr. K. S. Giridharan,
Associate Professor

**Centre for Educational
Management and Applied
Psychology**

Dr. R. Rajendran,
Professor & Head

Department of Mechanical Engineering

Dr. R. Santhakumar, (From 18.03.2020)
Professor & Head i/c

Er. M. Senthilkumar,
Associate Professor & Head i/c (up to 17.03.2020)

Dr. S. Somasundaram,
Associate Professor

Extension Centre, Bangalore

Er. V. Sivakumar,
Associate Professor & Head i/c,

Extension Centre, Hyderabad

Dr. Umasanker Sahu,
Associate Professor & Head i/c

Extension Centre, Kalamassery

Dr. Sobha Cyrus,
Professor & Head i/c

Extension Centre, Vijayawada

Dr. C.R. Nagendra Rao,
Professor & Head

Resource Centre

Dr.R.Ravichandran,
Sr. Librarian

HOSTEL

Warden

Dr. Sudhindra Nath Panda
Director

Deputy Warden

Dr. P. Malliga (up to 23.07.2019)
Associate Professor & Head i/c
Centre for Educational Media and Technology

Assistant Warden

Dr. S. Somasundaram (up to 23.07.2019)
Assistant Professor
Dept. of Mechanical Engineering

Dr. P. Sivasankar (upto 23.07.2019)
Assistant Professor
Dept. of Electrical, Electronics and
Communication Engineering

**Officer In-charge
NITTR Trainees Guest House**

Er. D.V. Suryanarayana (from 24.07.2019)
Computer Programmer

**Officer In-charge
International Guest House**

Dr. S. Rajasekar
Research Assistant

Part - II

REPORT ON ACCOUNTS 2019-20

**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 2020

We have audited the attached Balance Sheet of National Institute of Technical Teachers' Training and Research, Chennai as at 31 March 2020, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. The audit has been entrusted for the period up to 2022-23. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

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

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

4 Based on our audit, we report that:

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

A. Balance Sheet

1. Schedule 1 Corpus Capital Fund – ₹ 84.59 crore.

During the year Institute made deposit of ₹ 1.68 crore to CPWD and CPWD also refunded back ₹ 2.72 crore to the Institute. Institute treated the whole amount of ₹ 4.40 crore (₹1.68 crore+ ₹ 2.72 crore) as capital expenditure and accounted in Capital Fund instead of treating as unutilized grant refundable to government. This has resulted in overstatement of Capital Fund and understatement of Current Liabilities & Provisions by ₹ 4.40 crore each.

2. Schedule 7 – Current Assets – ₹37.12 crore

IOB A/c No. 041802000000101 with balance of ₹4,10,640 confirmed by Bank as 'dormant account' was not included in schedule-7-Current Assets.

B. General

1. Provision for retirement benefits had not been made on actuarial valuation basis. This is not in conformity with Accounting Standards 15 as well as MHRD format of accounts.
2. Temporary advance of ₹ 41,65,810.30 accounted as Assets in the Balance Sheet of GPF is pending reconciliation /adjustmentfor more than ten years.
3. An amount of ₹ 82,14,248 had been accounted in Schedule-3(6) – other current liabilities towards project account 2013-14. Details of the above liability could not be traced.
4. Balances of PWD scheme, AICTE SDP and Rajiv Gandhi N F/W (RGNF) in schedule-2 which are inoperative for the past 10 years were not reconciled / written off. Further, balance as per Bank Statement was ₹ 4605.90 in respect of RGNF whereas as per annual accounts it was ₹ 24,022.
5. An amount of ₹14,69,721was shown as Liability in the Balance Sheet of Provident Fund Account and the same amount was shown as Asset in the Balance Sheet of NPS Account as contra. This is a persistent comment in previous SARs remaining un-reconciled/un-rectified.
6. As per annual accounts, advances with CPWD as on 31.3.2020 was ₹13,65,73,916 and value of Work in Progress (utilized) was ₹17,60,75,444 whereas as per CPWD the same was ₹17,81,05,953 and ₹4,35,59,172 respectively. The differences were not reconciled.

7. As per schedule 10, negative balance of ₹ (-) 3,14,74,844 and ₹ (-) 9,78,68,475 under head OH 35 Capital Assets and OH 36 Salaries were observed. The same was not reconciled and rectified.

8. Interest earned on Grants-in-aid should be remitted to the Grants. However no liability was created for the same.

9. Significant accounting policy number 4 indicates that depreciation is provided on fixed assets on written down value method as per rates specified in the Income Tax Act 1961. However as per format of accounts prescribed by MHRD, the depreciation should be provided on straightline method at the rates specified by MHRD. Hence the method and rates of depreciation stated by Institute is in contravention of the MHRD format of accounts.

Further it was seen that depreciation had been charged on Straight Line Method (as against written down value method mentioned in Significant Accounting Policies) but was calculated on Net Block of previous year instead of the gross value of the assets. This is neither in conformity with the MHRD format of accounts, nor the significant Accounting Policies.

10. 'NITTTR Contribution' of ₹29,19,985 was disclosed from the year 2013-14 onwards as current assets. However, corresponding entry of this contribution was not shown in the Liabilities side of NITTTR main accounts.

C. Management letter

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

D. Effect of Revision in Accounts

Accounts of the Institute were revised based on audit observations. As a result of revision, Assets and Liabilities were decreased by ₹5.80 lakh and deficit increased by ₹ 30.75 lakh.

E. Grants-in-aid

Out of the Grants-in-aid of ₹39.30 crore received for the year 2019-20 and ₹0.45 crore being unspent balance of the previous year, the Institute could utilize ₹30.29 crore leaving a balance of ₹ 9.46 crore as unutilized grant as on 31 March 2020.

- 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 2020; 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



Principal Director of Audit (Central), Chennai

Place: Chennai
Date:12.03.2021

Annexure to Separate Audit Report

1. Adequacy of Internal Audit System:

Internal audit system was not adequate. Internal audit was not conducted for the year 2019-20.

2. Adequacy of Internal Control System:

Internal Control found to be inadequate due to following:

- Internal control system was inadequate since a consolidated Fixed Assets Register was not maintained.
- Non conducting internal audit during the year.
- Non accountal of bank account with a sum of ₹4,10,640 in the accounts.
- Non conducting of physical verification of fixed assets and inventories.
- Number of old balances in the accounts remained unreconciled/unadjusted.

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

Physical verification of Fixed Assets and Inventories was not done for 2019-20.

4. Regularity in payment of statutory dues

The Institute was regular in payment of statutory dues.


Deputy Director/CE

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

**ANNUAL ACCOUNTS
2019-20**

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113
BALANCE SHEET AS AT 31.03.2020

SOURCES OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2019-20	Previous Year 2018-19
CORPUS/CAPITAL FUND	1	845,941,105.86	785,021,979.43
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	360,151.00	360,151.00
CURRENT LIABILITIES & PROVISIONS	3	157,003,027.00	59,554,980.39
TOTAL		1,003,304,283.86	844,937,110.82

APPLICATION OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2019-20	Previous Year 2018- 19
FIXED ASSETS	4	447,862,437.80	441,331,435.00
Tangible Assets			
Intangible Assets			
Capital Works-In-Progress			
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5		
Long Term			
Short Term			
INVESTMENTS- OTHERS	6		
CURRENT ASSETS	7	371,181,644.06	206,967,915.25
LOANS, ADVANCES & DEPOSITS	8	184,260,202.00	196,637,760.57
TOTAL		1,003,304,283.86	844,937,110.82

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SIGNIFICANT ACCOUNTING POLICIES

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CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31.03.2020

Particulars	Schedule	Amount in Rs.	
		Current Year 2019 20	Previous Year 2018-19
INCOME:			
Academic Receipts	9	974,697.00	357,551.00
Grants / Subsidies	10	239,950,604.04	266,226,350.58
Income from investments	11	1,136,557.00	2,874,959.00
Interest earned	12	149,809.00	123,480.00
Other Income	13	3,031,488.00	2,204,009.91
Increase/Decrease in Stock WIP			-
Prior Period Income	14	6,099,602.00	4,696,944.00
TOTAL (A)		251,342,757.04	276,483,294.49
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	184,664,857.00	209,265,122.00
Academic Expenses	16	-	-
Administrative and General Expenses	17	16,103,938.04	19,836,033.58
Transportation Expenses	18	804,672.00	183,500.00
Repairs & Maintenance	19	2,502,493.00	3,042,553.00
Finance costs	20	-	-
Depreciation	4	12,220,838.75	12,107,847.00
Other Expenses	21	-	-
Prior Period Expenses	22	3,029,770.00	1,457,980.00
General Expenses	23	35,874,644.00	33,899,142.00
TOTAL (B)		255,201,212.79	279,792,177.58
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		(3,858,455.75)	(3,308,883.09)

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Significant Accounting Policies
Contingent Liabilities and Notes to Accounts

SCHEDULE -1 CORPUS/CAPITAL FUND

		Amount in Rs.	
Particulars	Current Year 2019-20	Previous Year 2018-19	
Balance at the beginning of the year	785,021,979.43	403,231,607.52	
Add: Contributions towards Corpus/Capital Fund	587,386.30	3,223,140.00	
Add: Contributions towards Corpus/Capital Fund - OTC	13,081,004.00	129,624,567.00	
Add: Grants from UGC, Government of India and State Government to the utilized for capital expenditure	62,926,182.00	211,772,530.00	
Add: Contributions towards Corpus/Capital Fund - SWAYAM	(12,822,064.00)	41,191,720.00	
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	89,088.01	-	
Add: Adjustment of Depreciation (Swayam Fund) twice taken last year			
Total	848,883,575.74	789,043,564.52	
Less: Over statement of accrued interest			
Less: Project Account - Capital Fund	915,985.87	(1,314,114.00)	
Less: EB Deposit added in Electricity charges for the past years	-	601,412.00	
Add: Plan Grant Revenue Expenditure			
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	(3,858,455.75)	(3,308,883.09)	
Total	845,941,105.86	785,021,979.43	
(Deduct) Deficit transferred from the Income & expenditure Account			
Balance at the year end			

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Particulars	Amount in Rupees					
	PWD Scheme	AICTE SDP	Rajiv Gandhi N F/W	Total		Previous Year
				Current Year	Previous Year	
A.						
a) Opening Balance	293,029.00	43,100.00	24,022.00	360,151.00	360,151.00	
b) Additions during the year						
c) Income from investments made of the funds						
d) Accrued Interest on investments/Advances						
e) Interest on Savings Bank a/c						
f) Other additions (Specify nature)						
Total (A)	293,029.00	43,100.00	24,022.00	360,151.00	360,151.00	
B.						
Utilisation/Expenditure towards objectives of funds						
i) Capital Expenditure						
ii) Advance to CPWD						
ii) Revenue Expenditure						
Total (B)	-	-	-	-	-	
Closing balance at the year end (A - B)	293,029.00	43,100.00	24,022.00	360,151.00	360,151.00	
Represented by						
Cash And Bank Balances						
Investments						
Interest accrued but not due						
Total						

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 1.4.2019		Additions during the Year		Total		Expenditure on the object during the year		Closing Balance on 31.03.2020	
		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 3- CURRENT LIABILITIES & PROVISIONS

	Amount in Rupees	
	Current Year 2019-20	Previous Year 2018-19
A. CURRENT LIABILITIES		
1. Deposits from Staff		
Caution Deposit for staff Quarters	71,860.00	71,860.00
Staff Quarters	241,582.00	241,582.00
2. Deposits from Students		
Caution Deposit for Ph.D	50,500.00	25,500.00
Scholarship for M.Tech - HRD Deposit	224,875.00	224,875.00
Boarding Charges - Hostel	42,480.00	42,480.00
Research Scholar - FIP	170,000.00	170,000.00
M.E.(IEM) - Caution Deposit	80,000.00	-
Emerging Area Course Fees Refundable	2,000.00	2,000.00
3. Sundry Creditors		
a) For Goods & Service		
Cofmow Equipments	81,889.00	81,889.00
Tamil Nadu Book House	2,731.00	2,731.00
b) Others	852,849.00	852,369.00
4. Deposit- Others (including EMD, Security Deposit)		
AICTE UKIERI Work shop		
Earnest Money Deposit	959,245.00	791,245.00
Community Hall Deposit	59,902.00	59,902.00
Caution Deposit for Canteen	8,000.00	8,000.00
Security Deposit	851,672.00	760,761.00
GSLJS		
5. Statutory liabilities (GPF, TDS WC TAX, CPF, GIS, MPS):		
a) Overdue		
b) Others		
Property Tax Payable	130,382.00	130,382.00
Duties and Taxes	270,308.00	263,207.00

6. Other Current Liabilities		
a) Salaries		3,376,528.00
b) Receipts against Sponsored Projects		8,214,248.00
OTC		13,137,245.00
Project Account 2013-14	3,362,518.00	
Project Account Liabilities	8,214,248.00	
c) Receipts against sponsored fellowships & Scholarships	20,074,765.00	
d) Unutilised Grants	94,583,972.00	4,460,757.39
e) Grants in advance		
f) Other funds : Corpus Fund	1,294,000.00	1,294,000.00
GPF - Interest on Special Deposit (to be transferred to GPF)	438,952.00	215,987.00
g) SWAYAM Sponsored Projects	1,524,389.00	1,524,389.00
h) Other Liabilities :		
IDDS	2,230,105.00	4,309,685.00
CPSC	(52,246.00)	46,072.00
NIWE	175,894.00	175,894.00
SP-02 IM&ID Anna U	55,863.00	55,863.00
TNSCB PROG	881,290.00	881,290.00
Training BHUTAN Pro	583,466.00	583,466.00
DST NIMAT Training Programme	(416,171.00)	500,000.00
LAHEI - Afghanistan	1,461,674.00	-
ITP on EIT and RB&I (Indonesia)	1,785,376.00	1,886,576.00
NITTTR Contribution		
Training of Trainers	78,748.00	-
Workshop Embedded Systems	80,000.00	-
Workshop on PLC & SCAD	53,000.00	-
Workshop on WPRJP	88,500.00	-
Total (A)	140,598,618.00	44,390,783.39
B. PROVISIONS		
1. For Taxation		
2. Gratuity		
3. Superannuation Pension		
4. Accumulated Leave Encashment		
5. Trade Warranties /Claims		
6. Outstanding Expenses:		
Staff Salary	7,857,594.00	7,171,429.00
Pension Payments	4,827,871.00	4,388,244.00
Maintenance expenses like Security & House keeping charges, Water charges, etc.	3,170,912.00	3,604,524.00
Outstanding to Fellowship Scholars	50,000.00	
Building & Electrical Maint., Reimbursement of Medical Bills & Others	498,032.00	
Audit Fees Payable		
Total (B)	16,404,409.00	15,164,197.00
Total (A+B)	157,003,027.00	59,554,980.39

SCHEDULE - 3 (a) SPONSORED PROJECTS

1. Sl. No.	2. Name of the Project	Opening Balance on 1.4.2019		5. Receipts/ Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance on 31.3.2020	
		3. Credit	4. Debit				8. Credit	9. Debit
1	IDDS	4,309,685.00		1,188,100.00	5,497,785.00	3,267,680.00	2,230,105.00	
2	CPSC	46,072.00		-	46,072.00	98,318.00	(52,246.00)	
3	NIWE PROGRAMME	175,894.00		-	175,894.00	-	175,894.00	
4	SP-02 IM&ID Anna U	55,863.00		-	55,863.00		55,863.00	
5	TNSCB PROG	881,290.00		-	881,290.00		881,290.00	
6	Training BHUTAN Prog	583,466.00		-	583,466.00		583,466.00	
7	ITP on EIT & RB&I (Indonesia)	1,886,576.00		-	1,886,576.00	101,200.00	1,785,376.00	
8	Workshop Embeded System	-		80,000.00	80,000.00	-	80,000.00	
9	Workshop On PLC & SCAD	-		53,000.00	53,000.00	-	53,000.00	
10	Workshop On WPRIP	-		88,500.00	88,500.00	-	88,500.00	
11	Training of Trainers	-		520,000.00	520,000.00	441,252.00	78,748.00	
12	LAHEI/AFGHANISTAN	-		1,929,386.00	1,929,386.00	467,712.00	1,461,674.00	
13	DST PROGRAMME	500,000.00			500,000.00	916,171.00	(416,171.00)	
	Total	8,438,846.00	-	3,858,986.00	12,297,832.00	5,292,333.00	7,005,499.00	-

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) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

1. Sl No	2. Name of Sponsor	Amount in Rupees					
		Opening Balance As On 01.04.2019		Transactions During the year		Closing Balance As On 31.03.20	
		3	4	5	6	7	8
		Cr.	Dr.	Cr.	Dr.	Cr.	Dr.
1	University Grants Commission						
2	Ministry.....						
3	Others (Specify individually)						
	Total						

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 2019-20	Previous Year 2018-19
A. Plan grants: Government of India		
Balance B/F	4,460,757.39	190,909,637.97
Add: Receipts during the year	393,000,000.00	291,550,000.00
Total (a)	397,460,757.39	482,459,637.97
Less Refunds		
Less: Utilized for Revenue Expenditure	239,950,604.04	266,226,350.58
Less: Utilized for Capital expenditure	62,926,182.00	210,151,417.00
Total(b)	302,876,786.04	476,377,767.58
Unutilized carried forward (a-b)	94,583,971.35	6,081,870.39
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)	94,583,971.35	6,081,870.39

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: Amount in Rupees

Sl. No.	Assets Heads	RATE	LEASE-0	WDV OF BLOCK OF ASSETS		Closing Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustments	Net Block	
				Op Balance 01.04.2019	Additions					Deductions	31.03.20
1	Land-Free Hold			268,500.00	-	268,500.00	-	-	-	268,500.00	268,500.00
2	Site Development	2.00%		-	-	-	-	-	-	-	-
3	Buildings	2.00%		189,343,215.00	-	189,343,215.00	20,226,210.00	3,786,854.00	-	185,556,351.00	189,343,215.00
4	Roads & Bridges			-	-	-	-	-	-	-	-
5	Tubewells & Water Supply			-	-	-	-	-	-	-	-
6	Sewerage & Drainage			-	-	-	-	-	-	-	-
7	Electrical installation and equipment	5%		81,149.00	-	81,149.00	47,649.00	4,057.00	-	77,092.00	81,149.00
8	Plant & Machinery	5%		9,785,304.00	-	9,785,304.00	5,693,413.00	489,265.00	-	9,295,939.00	9,785,304.00
9	Scientific & Laboratory Equipment			-	-	-	-	-	-	-	-
10	Office Equipment	7.50%		41,326,137.00	-	41,326,137.00	6,591,185.00	3,099,450.00	-	38,226,677.00	41,326,137.00
11	Audio Visual Equipment	0.00%		-	-	-	-	-	-	-	-
12	Computers & peripherals	20.00%		11,360,494.00	197,986.00	11,558,480.00	17,635,908.00	2,311,696.00	-	9,246,784.00	11,360,494.00
13	Furniture, Fixtures & Fittings	7.50%		4,314,586.00	330,457.00	4,645,038.00	2,318,782.00	348,378.00	-	4,296,660.00	4,314,586.00
14	Vehicles	10.00%		190,861.00	-	190,861.00	211,199.00	19,086.00	-	171,775.00	190,861.00
15	Lib. Books & Scientific Journals	10.00%		2,756,812.00	621,616.00	3,378,428.00	1,778,391.00	337,843.00	-	3,040,585.00	2,756,812.00
16	Smart Classroom			-	-	-	-	-	-	-	-
17	Small Value Assets	7.50%		3,166,946.00	-	3,166,946.00	1,440,241.00	237,521.00	-	2,929,425.00	3,166,946.00
18	Other Assets	5.00%		-	1,583,159.00	1,583,159.00	-	79,157.95	-	1,504,001.00	-
19	Equipments	5.00%		-	15,299,832.00	15,299,832.00	-	764,991.60	-	14,534,840.00	-
	Total (A)			262,594,004.00	18,033,045.00	280,627,049.00	50,942,978.00	11,478,319.55	-	269,148,729.00	262,594,004.00
18	Capital Work in Progress			-	-	-	-	-	-	-	-
	Class Room Construction WIP			113,384,153.00	-	113,384,153.00	-	-	-	113,384,153.00	113,384,153.00
	Building Renovation WIP			62,691,291.00	-	62,691,291.00	-	-	-	62,691,291.00	62,691,291.00
	Computers-WIP			-	-	-	-	-	-	-	-
	Total (B)			176,075,444.00	-	176,075,444.00	-	-	-	176,075,444.00	176,075,444.00
S.No.	Intangible Assets										
19	Computer Software	40.00	0.40	765,457.00	864,045.00	1,629,502.00	1,417,512.00	651,801.00	-	977,701.00	765,457.00
20	E-Journals		0.20	453,591.00	-	453,591.00	-	90,718.20	-	362,872.80	453,591.00
21	Patents			-	-	-	-	-	-	-	-
	Total (C)			1,219,048.00	864,045.00	2,083,093.00	1,417,512.00	742,519.20	-	1,340,573.80	1,219,048.00
	Grand Total (A+B+C)			439,888,496.00	18,897,090.00	458,785,586.00	52,360,490.00	12,220,838.75	-	446,564,746.80	439,888,496.00
	Swavam			439,888,496.00	-	439,888,496.00	-	-	-	439,888,496.00	439,888,496.00
1	Audio Visual Equipment			428,240.00	-	428,240.00	178,174.00	-11,488.00	-	439,728.00	428,240.00
2	Other Equipment			-	54,358.00	54,358.00	-	8,154.00	-	46,204.00	-
	Corpus Fund Account										
1	Laptop/Facilities			1,263,763.00	-	1,263,763.00	249,064.00	202,940.00	-	811,759.00	1,014,699.00
	Total			441,580,499.00	18,951,448.00	460,485,743.00	52,787,728.00	12,420,444.75	-	447,862,337.80	441,331,435.00

Notes: 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 against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

SCHEDULE 4A PLAN

Amount in Rupees

Sl. No.	Assets Heads	Gross Block			Depreciation for the Year 2019-20				Net Block		
		Op Balance 01.04.2019	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.2020	31.03.2019
1	Land										
2	Site Development										
3	Buildings										
4	Roads & Bridges										
5	Tubewells & Water Supply										
6	Sewerage & Drainage										
7	Electrical Installation and equipment .										
8	Plant & Machinery										
9	Scientific & Laboratory Equipment				Nil						
10	Office Equipment										
11	Audio Visual Equipment										
12	Computers & Peripherals										
13	Furniture, Fixtures & Fittings										
14	Vehicles										
15	Lib. Books & Scientific Journals										
16	Small Value Assets										
Total (A)											
17	Capital Work in Progress (B)										
Intangible Assets											
S.No		Op Balance 01.04.2019	Additions	Deductions	CI Balance	Dep Opening Balance	Amortization for the Year	Deductions/ Adjustments	Total Amortization/ Adjustments	31.03.20	31.03.19
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 2019-20				Net Block		
		Op Balance 01.04.2019	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciati on for the Year	Deductions / Adjustment	Total Depreciation	31.03.20	31.03.19	
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)											
18	Intangible Assets	Op Balance 01.04.2019	Additions	Deductions	CI Balance	Dep Opening Balance	Amortizati on for the Year	Deductions / Adjustments	Total Amortization/ Adjustments	31.03.20	31.03.19	
19	Computer Software											
20	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 01.4.2019	Additions	Deductions	Cl. Balance	Depreciation/ Amortizations Opening Balance	Depreciation/ Amortization for the year	Deductions/ Adjustment	Total Depreciation/ Amortization	31.03.20	31.03.19
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 2019-20	Net Block 2018-19
A. Patents Granted						
1 Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs..../-)			Nil			
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						
Total						

Particulars	Op. Balance	Addition	Gross	Patents Granted/ Rejected	Net Block 2019-20	Net Block 2018-19
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 2019-20			Net Block			
		Op Balance 01.04.2019	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.20	31.03.19
1	Land										
2	Site Development										
3	Buildings										
4	Roads & Bridges										
5	Tubewells & Water Supply										
6	Sewerage & Drainage					Nil					
7	Electrical Installation and equipment										
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 2019-20	Previous Year 2018-19
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		
7 Others (to be specified)		
Total		

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

Sl. No.	Funds	Amount in Rupees	
		Current Year (2019-20)	Previous Year (2018-19)
1			
2			
3			
4			
5	Endowment Fund Investments		
	Total		

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

SCHEDULE 6 - INVESTMENTS - OTHERS

	Amount in Rupees	
	Current Year 2019-20	Previous Year 2018-19
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 2019-20	Previous Year 2018-19
1. Stock:			
	a) Stores and Spares		
	b) Loose Tools		
	c) Publications		
	d) Laboratory chemicals, consumables and glass ware		
	e) Building Material		6,376.00
	f) Electrical Material		101,200.00
	g) Stationery		
	h) Water supply material		
	i) Postage	12,287.00	12,658.00
2. Sundry Debtors:			
	a) Debts Outstanding for a period exceeding six months		
	b) Others :	38,884.00	33,240.00
3. Closing Cash and Bank Balances :			
	a) With Scheduled Banks:		
	In Current Accounts		
	In term deposit Accounts		
	In Savings Accounts		
	In Cash Balance (Misc)	-	68,667.00
	In Bank Balance	371,093,521.89	206,708,823.08
	In Bank Balance - Statutory payment (CD A/c 3001)	4,626.00	4,626.00
	In Bank Balance Rajiv Gandhi National Fellowship	4,605.90	4,605.90
	In Bank Balance Athletic	27,719.27	27,719.27
	Fund Transfer		
	AXIS Bank OTC Transfer	-	-
	CANARA Bank OTC Transfer	-	-
	b) With non-Scheduled Banks:		
	- In term deposit Accounts		
	- In Savings Accounts		
4. Post Office- Savings Accounts			
	TOTAL	371,181,644.06	206,967,915.25

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	Closing balance as on 31.03.2020 (Rs.)
	MAIN ACCOUNT		
1	Indian Overseas Bank	041802000000001	9,218,878.38
2a	Indian Overseas Bank	041801000000099	27,683.78
2b	Indian Overseas Bank FFD	041801000000099	12,402,000.00
3	Canara Bank	2649201000193	80,905,241.00
4a	Canara Bank	2649101010260	46,252,224.00
4b	Canara Bank FFD	2649101010260	23,337,418.00
5	Canara Bank	2649132000013	125,313.00
	IDBI FD - SDR Account		10,000,000.00
			182,268,758.16
6	Indian Overseas Bank	041801000024450	4,605.90
7	TNSC Bank	0000202001947	27,719.27
	PROJECT ACCOUNT		
8a	Indian Overseas Bank	041801000000101	51,015.43
8b	Indian Overseas Bank FFD	041801000000101	19,312,000.00
	OTC ACCOUNT		
9a	Canara Bank	2649101010094	11,204,591.00
9b	Canara Bank FFD	2649101010094	96,397,240.00
10	AXIS Bank	910010043377429	30,977,426.00
	CORPUS FUND A/C		
11	Indian Overseas Bank	041801000030101	2,998,767.30
	SWAYAM ACCOUNT		
12	Canara Bank	2649101010177	27,883,724.00
			188,824,763.73
	Grand Total (excluding 6 & 7)		371,093,521.89

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

		Amount in Rupees	
		Current Year 2019-20	Previous Year 2018-19
1. Advances to employees: (Non-interest bearing)			
a) Salary			
b) Festival		144,199.00	144,199.00
c) Medical Advance		13,080.00	13,080.00
d) Other (to be specified)		-	-
Computer Advance		53,775.00	106,300.00
Conveyance Advance		32,990.00	73,230.00
Flood Loan Advance		12,200.00	12,200.00
Persons with Disabilities		13,893.00	13,893.00
Loan to PF a/c		50,000.00	50,000.00
LTC Advance		49,353.00	36,800.00
Other Employee Loans & Advances		-	
2. Long Term Advances to employees: (interest bearing)			
a) Vehicle loan			
b) Home loan : House building advance		(27,351.00)	33,129.00
c) Others (to be specified) Other staff		9,237.00	9,237.00
3. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a) On Capital Account			
b) Permanent advance		575,978.00	618,684.00
c) Temporary Advance - Main Account, OTC, Project and Swayam		3,420,311.00	4,431,216.57
d) Entrepreneurship prog		259,936.00	259,936.00
e) Others :		92,242.00	92,242.00
f) UNESCO Project		85,562.00	85,562.00
4. Prepaid Expenses			
a) Insurance			
b) E Journal Subscription			
c) AMC Lab and Office Equipment			

5. Deposits			
a) Telephone	93,409.00		93,409.00
b) Lease Rent			
c) Electricity	474,126.00		732,920.00
d) AICTE, if applicable			
e) Others (to be specified)			
Community Hall Deposit	1,093.00		673.00
Security Deposit with Industry	275.00		275.00
Security Deposit with MES	411,969.00		411,969.00
EC Security Deposit	2,551.00		2,551.00
ECH Deposit	1,000.00		1,000.00
Deposit with SE PWD	152.00		152.00
Deposit Vehicle Maintenance	5,000.00		5,000.00
Deposit with CPWD	136,573,916.00		119,734,077.00
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	-		447,000.00
Deposit - Stationery	5,000.00		5,000.00
Deposit - ECV	2,500.00		2,500.00
MLNN Deposit	10,000.00		10,000.00
6. Income Accrued:			
a) On Investments from Earmarked/ Endowment Funds			
b) On Investments-Others			
c) On Loans and Advances			
d) Others (includes income due unrealized)			-
Interest Accrued			-

7. Other - Current assets receivable from UGC/sponsored projects			
a) Debit balances in Sponsored Projects :SWAYAM Project Expenses Recoverable	1,550,409.00		1,550,409.00
b) Debit balances in Sponsored Fellowships & Scholarships			
ICT	81,545.00		50,253.00
National Ws on KOHA	33,228.00		33,228.00
Board of Apprentices Training	-		1,968.00
GSLIS	95,117.00		27,689.00
c) Grants Receivable	40,000,000.00		67,263,000.00
d) Other :			-
E) Income receivable	98,957.00		259,179.00
F) TNHD	8,750.00		-
8. Claims Receivable			
TOTAL	184,260,202.00		196,637,760.57

Note:

1. If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/endowment Funds. The balance against these Interest-bearing advances will not appear in this schedule.

SCHEDULE 9 - ACADEMIC RECEIPTS

	Amount in Rupees	
	Current Year 2019-20	Previous Year 2018-19
FEES FROM STUDENTS		
Academic		
1. Tuition fee Ph D	50,000.00	120,000.00
Tuition fee M.E./M. Tech	349,600.00	
Staff Development Programmes	-	237,551.00
2. Admission fee Ph D		-
Admission fee M.E./M. Tech	80,000.00	
3. Enrolment fee/Course Fees		-
4. Library Admission fee		
5. Laboratory fee		
6. Art & Craft fee		
7. Registration fee		
8. Syllabus fee		
Total (A)	479,600.00	357,551.00
Examinations		
1. Admission test fee		
2. Annual Examination fee		
3. Mark sheet, certificate fee		
4. Entrance examination fee		
Total (B)	-	-

Other Fees		
1. Identity card fee		
2. Fine/ Miscellaneous fees	130,400.00	
3. Medical fee		
4. Transportation fee		
5. Hostel fee		
Total (C)	130,400.00	-
Sale of Publications		
1. Sale of Admission/Application forms		
2. Sale of syllabus and Question Paper, etc.		
3. Sale of prospectus including admission forms		
Total (D)	-	-
Other Academic Receipts		
1. Registration fee for workshops, programmes		
2. Registration fees (Academic Staff College)		
3. IDDS Revenue Receipts	364,697.00	
Total (E)	364,697.00	-
GRAND TOTAL (A+B+C+D+E)	974,697.00	357,551.00

Note:

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

SCHEDULE 10 - GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in Rupees

Particulars	PLAN GOI		Total Plan	NON PLAN GOI			Current Year Total 2019-20	Previous Year Total 2018-19	
	UGC	Plan Capital		Plan General	UGC	Non Plan Salary			Non Plan General
Balance B/F		(63,548,662.00)	197,010,317.39		(129,230,473.00)	229,575.00	4,460,757.39	190,909,637.97	
Add: Receipts during the year		95,000,000.00	148,000,000.00		150,000,000.00	-	393,000,000.00	291,550,000.00	
Total		31,451,338.00	345,010,317.39		20,769,527.00	229,575.00	397,460,757.39	482,459,637.97	
Less: Refund to UGC									
Balance		31,451,338.00	345,010,317.39		20,769,527.00	229,575.00	397,460,757.39	482,459,637.97	
Less: Utilised for Capital expenditure (A)		62,926,182.00					62,926,182.00	211,772,530.00	
Balance		(31,474,844.00)	345,010,317.39		20,769,527.00	229,575.00	334,534,575.39	270,687,107.97	
Less: utilized for Revenue Expenditure (B)			121,312,602.04		118,638,002.00		239,950,604.04	266,226,350.58	
Balance C/F (C)		(31,474,844.00)	223,697,715.35		(97,868,475.00)	229,575.00	94,583,971.35	4,460,757.39	

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 Current Year 2019-20	Earmarked / Endowment Funds Previous Year 2018-19	Other Investments Current Year 2019-20	Other Investments Previous Year 2018-19
1. Interest				
a. On Government Securities				
b. Other Bonds/Debentures				
2. Interest on Term Deposits/SFD			-	921,717.00
Less: Accrued Interest of last year			-	(83,220.00)
3. Income accrued but not due on Term Deposits/ Interest bearing advances to employees			-	-
4. Interest on Savings Bank Accounts including FFD Interest	-		1,136,557.00	2,036,462.00
Total			1,136,557.00	2,874,959.00
Transferred to Earmarked/Endowment Funds				
Balance	Nil	Nil		

(678,597.00)

Note: Interest accrued but not due on Term Deposits / HBA, conveyance advance and Computer Advance and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

SCHEDULE 12:- INTEREST EARNED

Particulars	Amount in Rupees	
	Current Year 2019-20	Previous Year 2018-19
1. On Savings Accounts with scheduled banks	-	-
2 On Loans		
a. Employees/Staff	-	-
b. Others : i) Interest on Conveyance Advance	48,449.00	6,373.00
ii) Interest on Computer Advance	101,360.00	117,107.00
3. On Debtors and Other Receivables		
Total	149,809.00	123,480.00

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	
		Current Year 2019-20	Previous Year 2018-19
A. Income from Land & Buildings			
1.	Hostel Room Rent	283,690.00	89,740.00
2.	License fee	263,539.00	289,573.00
3.	Hire Charges of Auditorium/Play ground/Convention Centre, etc		
4.	Electricity charges recovered		
5.	Water charges recovered		
6.	Tender Fees	-	5,000.00
7.	Staff Quarters Rent	618,258.00	1,159,041.00
8.	Guest House Room Rent	316,688.00	154,335.00
9.	Rent for Institute Premises		
10.	Community Hall Rent	-	900.00
	Total - A	1,482,175.00	1,698,589.00
B. Sale of institute's publications			
1.	Sale of Books and CD's	-	2,193.00
	Total - B		2,193.00
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.)	-	357,200.00
	Less: Direct expenditure incurred on the fetes (Workshops, Seminars, etc.)	-	103,745.00
	Net	-	253,455.00
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	50,000.00	
	Faculty Development Prog		-
	IDDs	937,255.00	
	Misc Revenue Receipts	473,285.00	144,626.00
	Total - C	1,460,540.00	859,026.00

D. Others	Current Year 2019-20	Previous Year 2018-19
1. Income from consultancy		
2. RTI fees	-	140.00
3. Income from Royalty	88,773.00	105,006.91
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		
b) Assets received free of cost		
7. Grants/Donations from Institutions, Welfare Bodies and International		
8 Others (specify)		
STD		-
Training Programme for Bhutan Participants		-
AICTE UKIERI Workshop		-
6th PCP Pay Recovery Salary		
Total - D	88,773.00	105,146.91
Grand Total (A+B+C+D)	3,031,488.00	2,664,954.91

SCHEDULE 14 - PRIOR PERIOD INCOME

Particulars	Amount in Rupees	
	Current Year 2019-20	Previous Year 2018-19
1. Academic Receipts	81,424.00	
2. Income from Investments		
3. Interest earned (EB Meter Caution Deposit)	2,660.00	
Staff Quarters Rent	82,555.00	
Guest House Room Rent	5,553,880.00	4,560,271.00
4. Other Income	379,083.00	136,673.00
Total	6,099,602.00	4,696,944.00

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

These shall be classified separately for teaching and non-teaching staff adhoc staff, Arrears of DA, Salary Arrears due to increment shall be shown separately

	Amount in Rupees					
	Current Year 2019-20			Previous Year 2018-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Salaries and Wages	-	102,251,557.00	102,251,557.00		95,781,148.00	95,781,148.00
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		133,513.00	133,513.00		595,818.00	595,818.00
h) Medical facility/Reimbursement		1,849,989.00	1,849,989.00		1,793,466.00	1,793,466.00
i) Children Education Allowance		840,432.00	840,432.00		-	-
j) Others			-			-
1) Others: Professional Development Allowance		584,524.00	584,524.00		688,593.00	688,593.00
TOTAL		105,660,015.00	105,660,015.00		98,859,025.00	98,859,025.00

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

Amount in Rupees

	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on 1.4.2020				
Addition: Capitalized value of Contributions Received from other Organizations				
Total (a)				
Less: Actual Payment during the Year (b)	63,136,317.00	4,042,086.00	2,823,939.00	70,002,342.00
Balance Available on 31.03 c (a-b)				-
Provision required on 31.03 as per Actuarial Valuation (d)				-
A. Provision to be made in the Current year (d - c)				-
B. Contribution to New Pension Scheme	2,890,538.00			2,890,538.00
C. Medical Reimbursement to Retired Employees				-
D. Travel to Hometown on Retirement				-
E. Deposit Linked Insurance Payment				-
F. Commutation of Pension	6,111,962.00			6,111,962.00
G. Leave salary and pension contribution				-
Total (A+B+C+D+E)	72,138,817.00	4,042,086.00	2,823,939.00	79,004,842.00

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 2019-20			Previous Year 2018-19		
	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						
e) Examination						
f) Student Welfare expenses						
g) Admission expenses						
h) Convocation expenses						
i) Publications						
j) Stipend/means-cum-merit scholarship						
k) Subscription Expenses						
l) Others (specify)						
TOTAL		-	-		-	-

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

Amount in Rupees

	Current Year 2019-20			Previous Year 2018-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure						
a) Electricity and power		3,049,599.00	3,049,599.00		3,707,180.00	3,707,180.00
b) Water charges		1,884,397.00	1,884,397.00		1,553,740.00	1,553,740.00
c) Insurance			-			-
d) Rent, Rates and Taxes (including property tax)			-			-
Property Tax			-			-
Service Tax			-			-
Water Tax			-			-
B Communication						
e) Postage		110,153.20	110,153.20		128,968.00	128,968.00
f) Telephone, Fax and Internet Charges		259,524.00	259,524.00		227,669.00	227,669.00
C Others						
g) Printing and Stationery (consumption)			-			-
h) Travelling and Conveyance Expenses		168,940.00	168,940.00		11,130.00	11,130.00
i) Hospitality			-			-
j) Auditors Remuneration		101,440.00	101,440.00			-
k) Professional Charges : Legal Charges		320,750.00	320,750.00		59,500.00	59,500.00
i) Advertisement and Publicity		54,790.00	54,790.00		54,790.00	54,790.00
m) Magazines & Journals			-			-
n) Others : Repairs		288,430.00	288,430.00		611,401.00	611,401.00
Contingencies		1,831,913.80	1,831,913.80		3,505,632.00	3,505,632.00
Security Charges		8,026,253.00	8,026,253.00		9,057,052.00	9,057,052.00
Misc Expenditure :		7,748.04	7,748.04		13,299.58	13,299.58
Golden Jubilee Celebration			-		905,672.00	905,672.00
TOTAL		16,103,938.04	16,103,938.04		19,836,033.58	19,836,033.58

SCHEDULE 18- TRANSPORTATION EXPENSES

Particulars	Amount in Rupees					
	Current Year 2019-20			Previous Year 2018-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)			-			-
a) Running expenses			-			-
b) Repairs & maintenance		804,672.00	804,672.00		183,500.00	183,500.00
c) Insurance expenses			-			-
2 Vehicles taken on rent/lease			-			-
a) Rent/lease expenses			-			-
3 Vehicle (Taxi) hiring expenses			-			-
Total		804,672.00	804,672.00		183,500.00	183,500.00

SCHEDULE 19 - REPAIRS & MAINTENANCE

Particulars	Amount in Rupees					
	Current Year 2019-20			Previous Year 2018-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings			-			-
b) Furniture & Fixtures			-			-
c) Plant & Machinery			-			-
d) Office Equipment : A C			-			-
e) Computers			-			-
f) Laboratory & Scientific equipment			-			-
g) Audio Visual equipment			-			-
h) Cleaning Material & Services			-			-
i) Book binding charges			-			-
j) Gardening			-			-
k) Estate Maintenance : Trainees Guest House			-			-
l) Others : Guest House Expenditure		33,600.00	33,600.00		85,164.00	85,164.00
m) Electrical Maintenance		2,454,153.00	2,454,153.00		2,887,489.00	2,887,489.00
n) Trainees Guest House		14,740.00	14,740.00		69,900.00	69,900.00
TOTAL		2,502,493.00	2,502,493.00		3,042,553.00	3,042,553.00

SCHEDULE 20 - FINANCE COSTS

Amount in Rupees

Particulars	Current Year 2019-20				Previous Year 2018-19			
	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

Particulars	Amount in Rupees					
	Current Year 2019-20			Previous Year 2018-19		
	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 of fixed assets etc and disclosed accordingly.

SCHEDULE 22: PRIOR PERIOD EXPENSES

Particulars	Amount in Rupees					
	Current Year 19-20			Previous Year 18-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses		322,330.00	322,330.00			
2 Academic expenses						
3 Administrative expenses		1,106,784.00	1,106,784.00		1,457,980.00	1,457,980.00
4 Transportation expenses		9,027.00	9,027.00			
5 Repairs & Maintenance		142,275.00	142,275.00		-	
6 Other expenses		1,449,354.00	1,449,354.00			
Total	-	3,029,770.00	3,029,770.00	-	1,457,980.00	1,457,980.00

SCHEDULE 23: GENERAL EXPENSES

	Particulars	CY 2019-20	CY 2018-19
	General Expenditure:		
	Staff Development Programme	13,838,223.00	13,443,180.00
	Stipend to Apprenticeship Trainees	227,708.00	645,342.00
	Stipend to Long Term Trainees		-
	Building Maintenance (Plan)	9,293,949.00	14,009,167.00
	Development Expenses	4,030,413.00	2,764,270.00
	Development Expenses (Hindi Sahalkar)		
	GSI Mapping Tools		
	Membership Fees for Teaching Faculty		
	Furniture Maintenance		
	Periodicals	70,402.00	886,465.00
	Printing & Stationery	258,992.00	272,104.00
	Maintenance of Lab / Office Equipments	834,939.00	1,228,114.00
	Research Fellowship	167,742.00	
	Community Polytechnics		
	Contingent Grant to Trainees		
	TA & DA National Conferences		
	Contingencies-Contractual Employment	5,719,576.00	-
	Remuneration to Guest Lecturers	1,252,300.00	150,500.00
	Fund transferred to NRC Project	-	500,000.00
	Development of Web Portal	89,013.00	-
	Review Committee Meeting		
	Consumbales for Lab		
	National Seminar		
	National Symposium		
	WIDDS		
	Course Fees Receivable		
	VNITTR Edusat		
	Web Charges	415.00	
	IDDS		
	Inter Sports Meet	90,972.00	
	Workshop on NMEICT		-
	TOTAL	35,874,644.00	33,899,142.00

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SCHEDULE 24: Significant Accounting Policies

1. The financial statements of the institution (viz. Balance sheet and Income and Expenditure account) have been prepared in the new format prescribed by MHRD.
2. A Statement of all significant accounting policies adopted in the preparation and presentation of the Balance Sheet and Income and Expenditure Account are included in the Balance Sheet.
3. This Institution is financed by the Government of India, Ministry of Human Resources Development, receives grants and compiles the three sets of accounts with proper schedules for NITTTR, OTC, Projects, Swayam Project, General Provident Fund and NPS separately.
 - Balance Sheet
 - Income and Expenditure Account
 - Receipts and Payments Accounts
4. Depreciation
Depreciation is provided on written down value method as per rates specified in the Income Tax Act 1961.
5. Provision for Pension, Gratuity and Leave encashment based on actual basis. However, provision of the same through actuarial valuation basis is under process.
6. The value of land is not known as the State Government has not assigned the land to the Institute.

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SCHEDULE 25: Notes on Accounts

1. In respect of
 - 1.1 Bank guarantees / LC given by / on behalf of the Institute - NIL
2. 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”.
3. Corresponding figures for the previous year have been regrouped / rearranged whenever necessary.
4. Schedules 1 to 25 are annexed to and form as Integral part of the Balance Sheet as at 31.03.2020 and Income and Expenditure.
5. NPS amount with interest has been uploaded and remitted in NSDL account. There are 14 Staff members under NPS and everyone is having PRAN.
6. Financial statements of Main Account are prepared on accrual basis and Accounts of OTC, Project and Swayam are prepared on CASH basis.
7. The interest on deposits are accounted on accrual basis.

UTILIZATION CERTIFICATE

UTILIZATION CERTIFICATE FOR THE YEAR 2019-20
in respect of recurring / non-recurring
GRANTS-IN-AID / SALARIES / CREATION OF CAPITAL ASSETS

1. Name of the Scheme _____
2. Whether recurring or non-recurring grants- Both Recurring and Non-recurring
3. Grants position at the beginning of the Financial year
 - (i) Cash in Hand / Bank - Rs.954.33 lakh
 - (ii) Unadjusted advances - Rs. 15.52 lakh
 - (iii) Total - Rs.969.85 lakh

(Cash in Hand / Bank includes Grants receivable – Rs.672.63 lakh)
4. Details of grants received, expenditure incurred and closing balances:

[Rupees in lakh]

Unspent Balances of Grants received years [figures as at Sl. No. 3(iii)]	Interest Earned thereon	Interest deposited back to the Government	Grant received during the year			Total available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
969.85	*	NIL	Enclosed in the Annexure		3930.00	4899.85	2764.78	2135.10

* Interest earned is for the entire funds of the Institute and the Interest earned in respect of the Grant-in-aid cannot be demarcated and hence not indicated

Component wise utilization of grants:

[Rupees in lakh]

Grant-in-aid General (OH-31)	Grant-in-aid Creation of Capital Assets (OH-35)	Grant-in-aid Salaries (OH-36)	Total
1227.41	357.37 (CPWD Refund of Rs.272 lakh adjusted)	1180.00	2764.78

Details of grants position at the end of the year

- (i) Cash in Hand / Bank - Rs.2222.69 lakh
- (ii) Unadjusted Advances - Rs.18.71 lakh
- (iii) Total - Rs.2241.40 lakh

(Cash in Hand / Bank includes Grants receivable – Rs.400.00 lakh)

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

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

Date: Feb. 16, 2021
Place: Chennai-600113

[Prof. Dr. SUDHINDRA NATH PANDA]
DIRECTOR

Details of Grant-in-aid received during the year 2019-20

[Rupees in Lakh]

GiA released	OH 31 General	OH 35 Capital Assets	OH 36 Salaries	Total
Till Feb 2020	1480.00	950.00	1100.00	3530.00
March 2020 (02.04.2020)	--	--	400.00	400.00
	1480.00	950.00	1500.00	3930.00

OH 31 – GENERAL

Sanction No.	Sanction Date	Amount (Rs.)		Ins	Batch	Received Date
No.5-3/2019-TS.IV	29/04/2019	28000000.00	Gen			06/05/2019
F.No.5-3/2019.TS.IV	29/05/2019	7000000.00	SC			12/06/2019
F.No. 5-3/2019-TS.IV	11/06/2019	3000000.00	ST			20/06/2019
F. No. 5-3/2019 – TS.IV	21/08/2019	8000000.00	Gen			27/08/2019
F. No. 5-3/2019 - TS.IV	21/08/2019	1500000.00	SC			27/08/2019
F. No. 5-3/2019 - TS.IV	21/08/2019	500000.00	ST			27/08/2019
F. No. 5-3/2019 -TS.IV	03/09/2019	30000000.00	Gen			09/09/2019
F. No. 5-3/2019 - TS.IV	23/10/2019	10000000.00	Gen			11/11/2019
F. No. 5-3/2019 - TS.IV	05/11/2019	10000000.00	Gen			11/11/2019
F. No. 5-3/2019 - TS.IV	04/12/2019	10000000.00	Gen			24/12/2019
F. No. 5-3/2019 -TS.IV	24/02/2020	40000000.00	Gen			29/02/2020

148000000.00

OH 35 – CAPITAL ASSETS

Sanction No.	Sanction Date	Amount (Rs.)		Ins	Batch	Received Date
F.No.5-3/2019.TS.IV	29/05/2019	2500000.00	SC			12/06/2019
F.No. 5-3/2019-TS.IV	11/06/2019	2500000.00	ST			20/06/2019
F. No. 5-3/2019 -TS.IV	21/08/2019	3500000.00	SC			27/08/2019
F. No. 5-3/2019 -TS.IV	21/08/2019	1500000.00	ST			04/09/2019
F. No. 5-3/2019 -TS.IV	03/09/2019	15000000.00	Gen			09/09/2019
F. No. 5-3/2019 -TS.IV	30/12/2019	50000000.00	Gen			07/01/2020
F. No. 5-3/2019 -TS.IV	24/02/2020	20000000.00	Gen			29/02/2020

95000000.00

OH 36 – SALARIES

Sanction No.	Sanction Date	Amount (Rs.)		Ins	Batch	Received Date
No.5-3/2019-TS.IV	29/04/2019	27500000.00	Gen			06/05/2019
F. No. 5-3/2019 - TS.IV	21/08/2019	20000000.00	Gen			04/09/2019
F. No. 5-3/2019 - TS.IV	21/08/2019	7000000.00	SC			04/09/2019
F. No. 5-3/2019 - TS.IV	21/08/2019	3000000.00	ST			27/08/2019
F. No. 5-3/2019 - TS.IV	23/10/2019	8333334.00	Gen			11/11/2019
F. No. 5-3/2019 - TS.IV	05/11/2019	8333334.00	Gen			11/11/2019
F. No. 5-3/2019 - TS.IV	04/12/2019	8333332.00	Gen			20/12/2019
F. No. 5-3/2019 -TS.IV	24/02/2020	27500000.00	Gen			29/02/2020

110000000.00

F. No. 5-8/2019 - TS.IV	28/03/2020	30000000.00	Gen			02/04/2020
F. No. 5-8/2019 - TS.IV	28/03/2020	6668000.00	Gen			02/04/2020
F. No. 5-8/2019 -TS.IV	28/03/2020	3332000.00	Gen			02/04/2020

150000000.00

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

RECEIPTS AND PAYMENTS ACCOUNT

VI. Receipts against sponsored Fellowships/ Scholarship				VI. Term Deposits with Scheduled Banks		
VII. Income on Investments from				VII. Expenditure on Fixed Assets and Capital Works - in - Progress		
a) Earmarked/Endowment funds				a) Fixed Assets : Capital Expenditure	18,897,090.00	29,331,253.00
b) Other investments SDR Interest				VIII. General Expenditure	44,481,891.00	21,209,902.00
VIII. Interest received on				VIII. Other Payments including statutory payments		
a) Bank Deposits				Outstanding Expenses, TDS & Service Tax etc.,		
b) Loans and Advances				IDDs Corpus fund Contribution		7,963,825.00
c) Savings Bank Accounts	1,136,557.70		2,196,362.00			
IX. Sundry Creditors				IX. Refunds of Grants		
X. Term Deposits with Scheduled Banks encashed				X. Deposits and Advances		
				Deposits with CPWD	16,839,839.00	117,883,327.00
				Deposits Refund	81,901.00	40,000.00
XI. Other income (including Prior Period Income)				XI. Other Payments/Liabilities		
i) Duties and Taxes TDS, Service Tax etc				i) Sundry Creditors		72,557,375.00
ii) sale of Books and CDs				ii) Duties and Taxes	20,639,899.00	69,396,575.00
XII. Deposits and Advances				iii) Others: OTC Payments		
i) Other ; Refund				iv) Others: Corpus Fund	701,478.00	503,100.00
ii) Other Deposits	551,240.40		69,330.00	XII. Closing balances		
iii) Other Receipts:				a) Cash in hand		68,667.00
OTC				b) Bank balances		
GPF Special Deposit Interest	222,965.00		215,987.00	In Current Accounts		
Guest House Room Rent(Prior Period)	5,903,036.00		4,560,271.00	In Savings Accounts	182,268,758.96	28,078,757.82
Royalty	88,772.96		105,006.91	In Deposit Accounts		
				Inoperative SB Accounts(*2)	32,325.57	
XIII. Misc Receipts including Statutory Receipts						
XIV. Any Other Receipts						
TOTAL	460,187,920.57		517,938,307.82	TOTAL	460,187,920.57	517,938,307.82

**NATIONAL INSTITUTE OF
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GPF ACCOUNT

PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2020

	Amount in Rupees				
Expenditure	2019-20	2018-19	Income	2019-20	2018-19
Interest Credited to:			Interest earned on Investment		
GPF Account		-	SB Interest	535,447.00	5,779,089.00
CPF Account			Add: Interest accrued for current year		91,853.00
University Contribution (CPF)			Add: Tax recovered on interest - Refund to be obtained		
NPSTier-II Account			Add: Interest on Special Deposits	438,952.00	
Interest on subscription	2,002,544.00	1,939,372.00	Less Interest accrued for previous year		(2,121,123.00)
Bank charges	82.60				
Excess of Income over Expenditure	(1,028,227.60)	1,810,447.00	Excess of Expenditure over Income		
Total	974,399.00	3,749,819.00	Total	974,399.00	3,749,819.00

PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2019-20

Receipts	Amount in Rupees		
	2019-20	2018-19	2019-20
Opening Balance IOB	31,765,508.51		2,131,261.00
FIXED DEPOSIT:	5,425,125.00		5,849,000.00
IOB SPECIAL DEPOSIT		2,804,732.00	
SBI SPECIAL DEPOSIT		2,620,393.00	82.60
IOB FIXED DEPOSIT		26,623,985.00	
IOB PF		1,489,337.51	517,200.00
SBI, Branch- 1			
SBI, Branch -II			
GPF Subscription	8,849,503.00	8,133,800.00	
CPF Subscription			
CPF University Contribution			
NPSTier-II Account			
PF FD INTEREST		5,572,752.00	37,577,125.00
SPECIAL DEPOSIT INTEREST		206,337.00	500,914.91
SB NORMAL INTEREST	535,447.00	91,853.00	
Total	46,575,583.51	47,543,189.51	46,575,583.51

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

NPS ACCOUNT

NPS TIER-I ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2020

		Amount in Rupees		
Liabilities	2019-20	2018-19	2019-20	2018-19
NPS Tier-I Account				
Opening Balance	2,309,937.00	2,361,096.00		
Less: NSDL Remit	3,956,538.00	3,482,700.00		
	(1,646,601.00)	(1,121,604.00)		
Add: Subscription	1,977,701.00	1,509,292.00		
Add: Contribution	2,543,001.00	1,247,998.00		
Add: Interest Credited	2,874,101.00	1,635,686.00	1,469,721.00	1,469,721.00
Less: Transferred to NSDL			1,419,215.68	492,679.00
Add: Sub+UC for March				
Excess of Income over Expenditure	14,835.68	674,251.00		
Balance as on 01.04				347,537.00
Add: During the year				
Total	2,888,936.68	2,309,937.00	2,888,936.68	2,309,937.00

NPS TIER-I ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2020

Expenditure	Amount in Rupees			
	2019-20	2018-19	2019-20	2018-19
Bank Charges	323.32		15,159.00	72,242.00
Excess of Income over Expenditure	14,835.68	674,251.00	-	602,009.00
Total	15,159.00	674,251.00	15,159.00	674,251.00
			Total	

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

**OVERSEAS TRAINING COURSE
ACCOUNT**

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

Overseas Training Course (OTC)
Balance Sheet as at 31.03.2020

LIABILITIES	Amount in Rupees		
	Current Year 2019-20	Previous Year 2018-19	Current Year 2019-20
CAPITAL FUND:			
Add: Excess	129,624,567.00	106,962,119.00	
	13,081,004.00	22,662,448.00	
Duties and Taxes	142,705,571.00	129,624,567.00	1,330,190.00
Sundry Creditors	6,513.00	6,885.00	2,919,985.00
	117,348.00	117,348.00	96,397,240.00
			2,728,446.00
			-
			2,919,985.00
			30,585,109.00
			-
			63,731,470.00
			29,783,790.00
TOTAL	142,829,432.00	129,748,800.00	142,829,432.00
		TOTAL	129,748,800.00

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

Overseas Training Course (OTC)
Receipts & Payments Account for the Financial Year 2019-20

		Amount in Rupees			
RECEIPTS	2019-20	2018-19	PAYMENTS	2019-20	2018-19
OPENING BALANCE:					
AXIS BANK	29,783,790.00	36,601,721.00	Duties & Taxes	18,523.00	7,323.00
CANARA BANK	63,731,470.00	41,513,506.00	Vehicle & Food Expenses	1,143,525.00	1,227,158.00
FD Auto Sweepout	30,585,109.00	23,000,000.00	Temporary Advance	1,330,190.00	2,728,446.00
Cash	2,728,446.00	1,365,037.00	OTC Expenses	8,165,801.00	13,960,774.00
OTC Grant Receipts			Travelling & Conveyance	500.00	
Duties & Taxes	35,146,451.00		Book Allowance		428,840.00
OTC Project Receipts			Project Allowance		70,000.00
SB Interest AXIS		34,767,560.00	Misc Expenses	2,000.00	
SB Interest Canara Bank		481,168.00	CDIMD XXXII		
SDR Interest AXIS	1,193,636.00	1,874,172.00	Room Rent		
SDR Interest Canara Bank	811,271.00	7,854,131.00	Guest House Expenses	8,891,310.00	11,832,339.00
Misc Receipts	6,400.00	6,932,672.00	Living Allowance	5,746,700.00	
			Bank Charges	43,367.00	34,718.00
			Sundry Creditors		
			FD: Auto Sweepout		30,585,109.00
			Guest Lecture Reimbursements	65,400.00	
			CLOSING BALANCE		
			AXIS BANK	30,977,426.00	29,783,790.00
			CANARA BANK	11,204,591.00	63,731,470.00
			FD Auto Sweepout	96,397,240.00	
			Cash		
Total	163986573.00	154389967.00	Total	163986573.00	154389967.00

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

PROJECT ACCOUNT

PROJECT ACCOUNT
Balance Sheet as at 31.03.2020

LIABILITIES	Amount in Rupees		
	2019-20	2018-19	ASSETS
Project Fund: Opening	(1,314,114)	(1,728,753)	40/CEM/RAY/TVL/SMOH/2011-12
Add: Excess of Income over Expenditure	915,986	414,639	41/CEM/RAY/TRY/SMOH/2011-12
	(398,128)	(1,314,114)	67/DST-JSPS-CEM
PROJECT CLOSING BALANCES			70\TNPWD\WD7GIS\CIVIL\SNP
FY 2009-10	999,032	999,032	73/TNSCB/CEM/073/CVM/SNP
FY 2010-11	2,411,197	2,411,197	
FY 2011-12	4,825,819	4,825,819	
FY 2012-13	304,711	304,711	
FY 2013-14	395,006	395,006	
FY 2014-15	707,010	707,010	
FY 2017-18			
66/TNSCB/VOL-MANALI/SNP	29,152	29,152	
67A/UBA/HHVS/SNP	6,655.0	6,655	
68/TNSCB/VIC-PERU/CEM/SNP	79,655	67,093	
71/TNSCB/CEM/071/VCPKM/SNP	29,500	29,500	
FY 2018-19			
72/TNHB/CEM/072/TRG/SNP	888,444	888,444	
73/TNSCB/CEM/073/CVM/SNP	-	363,156	
74/TNSCB/CEM/074/P-II/SNP	25,759	25,759	
75/CIVIL/NRC/ORPCEE	1,884,899	482,000	
76/CIVIL/76/TNSCB/VCKNS/SNP	575,996	590,000	
77/2018/DST/NIMAT/CRED/77	72,197	132,197	
78/MICH/NIWE/78/EXAM/SNP	174,082	236,000	
79/SWAYAM MOOC PROJECT	6,535,000	2,375,000	
FY 2019-20			
81-NITTR/2019-20/Civil/TNHD/ToT-I/SNP	200,000		
82-NITTR/2019-20/Civil/TNHD/ToT-II/SNP	200,000		
83-PWD/DPR-ERPT/	23,600		
84-PWD/DPR-ERMGT/	23,600		
85-PWD/DPR-ERNT	23,600		
NRC-II - Project 80	1,432,781		
Duties and Taxes	4,033	6,381	FFD Deposit
			LC Project
			Temporary Advance
			CLOSING BALANCE:
			Cash in Hand
			Cash at Bank
TOTAL	21,453,600	13,559,998	TOTAL
			11,672,000
			98,957
			218,698
			51,015
			25,187
			13,559,998

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

PROJECT ACCOUNT

Income & Expenditure Account for the year ended 31.03.2020

	Amount in Rupees				
	2019-20	2018-19	INCOME	2019-20	2018-19
EXPENDITURE					
Project Expenses Duties and Taxes			Project Income		
			SDR Interest	830468	414639.00
			SB Interest	85518	
			Prior Period Income		
			Excess of Expenditure Over Income		
Excess of Income Over expenditure	915985.87	414639.00			
Total	915985.87	414639.00	Total	915985.87	414639.00

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

PROJECT ACCOUNT

Receipts & Payments Account for the Financial Year 2019-20

	Amount in Rupees		
RECEIPTS	2019-20	2018-19	PAYMENTS
	2019-20	2018-19	2019-20
OPENING BALANCE:			
Cash at Bank	25,187.43	6,392,911.43	
Cash in Hand		102,043.00	
FFD Deposit	11,672,000.00		
Project Income	7,678,762.00	7,258,500.00	3,452.00
SDR Interest			1,784.00
SB Interest	830,468.00	414,639.00	2,435,754.00
Prior Period Income	85,518.00		
Miscellaneous Deposits	500,000.00		
			185,330.00
			10,317.00
			9,000.00
			500,000.00
			-
			33,368.00
			-
			25,187.43
			11,672,000.00
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			51,015.43
			19,312,000.00
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**NATIONAL INSTITUTE OF
TECHINICAL TEACHERS TRAINING AND RESEARCH
TARAMANI, CHENNAI – 600 113**

CORPUS FUND ACCOUNT

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

CORPUS FUND ACCOUNT
Balance Sheet as at 31.03.2020

LIABILITIES	Amount in Rupees				
	2019-20	2018-19	ASSETS	2019-20	2018-19
CAPITAL FUND	3,223,140.00	2,554,419.00	Laptop to Faculty Member	811,759.00	1,014,698.55
Add: Excess of Income over Expenditure	587,386.30	668,721.00	Cash at Bank	2,998,767.30	2,208,441.00
	3,810,526.30	3,223,140.00		3,810,526.30	3,223,139.55

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

CORPUS FUND ACCOUNT

Income & Expenditure Account for the year ended 31.03.2020

EXPENDITURE	Amount in Rupees			
	2019-20	2018-19	2019-20	2018-19
Depreciation	202,940.00	249,064.00		50,545.00
Bank Charges	17.70	-		303,513.00
Excess of Income over expenditure	587,386.30	668,721.00	701,478.00	193,500.00
			88,866.00	309,600.00
				60,627.00
Total	790,344.00	917,785.00	790,344.00	917,785.00

	2018-19		2019-20	
	Rs	Rs	Rs	Rs
Gross Block				
Op. Balance	1190000.00	1014699.00		
Additions	73763.00	0.00		
Total	1263763.00	1014699.00		
Deductions	0.00	0.00		
	1263763.00	1014699.00		
Rate	0.20	0.20		
Depreciation	249064.00	202940.00		
Net Balance	1014699.00	811759.00		

	2018-19	2019-20
Op. Balance	238,000.00	202,939.80
Additions After Sep-19	11064.45	0
Total	249,064.45	202,939.80

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

CORPUS FUND ACCOUNT
Receipts & Payments Account for the Financial Year 2019-20

	Amount in Rupees				
	2019-20	2018-19	PAYMENTS	2019-20	2018-19
RECEIPTS					
OPENING BALANCE:					
Cash at Bank	2,208,441.00	1,364,419.00	Laptop to Faculty Member	17.70	73,763.00
Corpos Fund 30%		50,545.00	Bank Charges		
Corpos Fund 40%		303,513.00			
IDDs Corpus fund 10%	701,478.00	193,500.00			
IDDs Corpus fund 20%		309,600.00	CLOSING BALANCE:		
Normal Interest	88,866.00	60,627.00	Cash at Bank	2,998,767.30	2,208,441.00
Total	2,998,785.00	2,282,204.00	Total	2,998,785.00	2,282,204.00

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

SWAYAM ACCOUNT

SWAYAM PROJECT ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2020

		Amount in Rupees				
Liabilities		2019-20	2018-19	Assets	2019-20	2018-19
Opening Balance		41,191,720.00	47,244,666.00	Equipments	485,932.00	517,327
Less: Excess of Expenditure over Income			6,052,946.00	Cash in Hand		18,000.00
Add: Excess of Income over Expenditure-FY-19-20		(13,363,254.00)		Balance at Bank	27,883,724.00	40,656,393.00
Swayam Capacity Building Workshop - I						
Less: Expenditure	500,000.00					
(Board & Lodging, General Expenses, Honorarium & TA)	585,705.00					
TA payable (NEFT Return)		34,667.00				
Swayam Capacity Building Workshop - II						
Less: Expenditure	1,000,000.00					
(Board & Lodging, General Expenses, Honorarium & TA)	407,772.00					
		592,228.00				
Total		28,369,656.00	41,191,720.00	Total	28,369,656.00	41,191,719.90

SWAYAM PROJECT ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2020

Expenditure	Amount in Rupees				
	2019-20	2018-19	Income	2019-20	2018-19
Project Expenses	109,507.00	7,608,863.00	NRC - Grants		1,470,000.00
Project Expenses - NRC		155,363.00	SB Interest	1,301,651.00	1,643,041.00
Remuneration Paid	1,151,733.00	908,179.00	Excess Depreciation withdrawn		
Travelling expenses	227,187.00	352,704.00	Misc Receipts		
Honorarium Paid		-			
Duties & Taxes		736.00			
General Expenses	72,673.00	49,747.00	Excess of Expenditure over income	13,363,254.00	6,052,946.00
Workshop		695.00			
Misc Expenses	552.00	613.00			
Depreciation	85,753.00	89,087.00			
NRC Grant Refund	1,470,000.00				
Project Expenses-Swayam MOOC (Transferred to NITTRs)	11,547,500.00				
Total	14,664,905.00	9,165,987.00	Total	14,664,905.00	9,165,987.00

SWAYAM PROJECT ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2019-20

Receipts	Amount in Rupees		
	2019-20	2018-19	2019-20
Cash in Hand	18,000.00	38,000.00	109,507.00
Cash at Bank	40,656,393.00	46,625,252.00	249.00
Swayam MHRD - GRANTS (Capacity Building Workshops)	1,500,000.00	-	1,151,733.00
NRC - Grants			202,315.00
NRC-II	1,470,000.00	1,470,000.00	72,673.00
Swayam CB Workshop II - TA (NEFT Return)	34,667.00		24,623.00
SB Interest	1,301,651.00		585,705.00
Misc Receipts	-		407,772.00
			695.00
			613.00
			25,000.00
			54,358.00
			11,547,500.00
			1,470,000.00
			1,470,000.00
			-
			18,000.00
			27,883,724.00
TOTAL	44,980,711.00	49,776,293.00	44,980,711.00
		TOTAL	49,776,293.00

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

NITTT WEB PORTAL ACCOUNT

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

WEB PORTAL ACCOUNT

Income & Expenditure Account for the year ended 31.03.2020

	Amount in Rupees	
	2019-20	2019-20
EXPENDITURE		INCOME
Bank Charges	3,410.00	
Excess of Income over expenditure	7,576,108.50	Normal Interest
		7,579,518.50
Total	7,579,518.50	Total
		7,579,518.50



CONTACT

THE DIRECTOR

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

Phone: 044 2254 5436 / 2254 5406

Fax: 044 2254 1126

Email: direnitttrc.ac.in

Website: www.nitttrc.ac.in