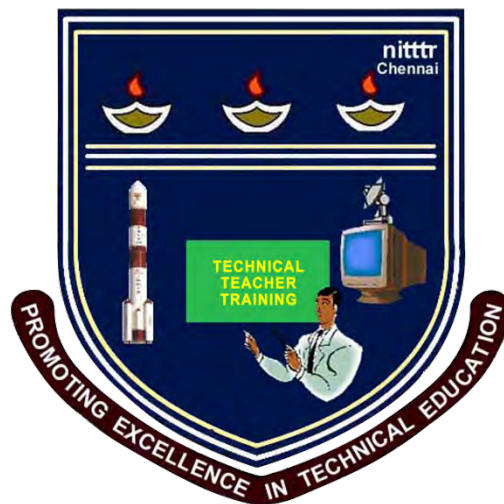


ANNUAL REPORT

2017-18

(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 2017-18. 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, 2017-2018 represented another period of expansion and developmental activities of the institute. During this year the following were achieved:

- Training of 3126 technical teachers from 180 courses for polytechnics and 1375 technical teachers from 29 engineering colleges;*
- Training of 252 teachers, policy makers and educational administrators from 45 countries through 12 Overseas Training Courses;*
- Doctoral Degree awarded to 5 candidates;*
- Curriculum revision of 22 programmes consisting of 355 courses; and*
- Development of 64 instructional resources (print type materials and videos)*

Although we train many thousands of individuals worldwide, 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 staying 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. Dr. Allam Appa Rao, 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 Human Resource Development, 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 with the approval of Govt. of India, 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 MHRD SWAYAM project. The NITTTR, Chennai is the national coordinator for this project.

3.0 FOCUS OF ACTIVITIES DURING 2017-2018

The institute periodically reorients its programmes and activities to proactively respond to the changing needs of the clientele system. During the year 2017-2018, 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.

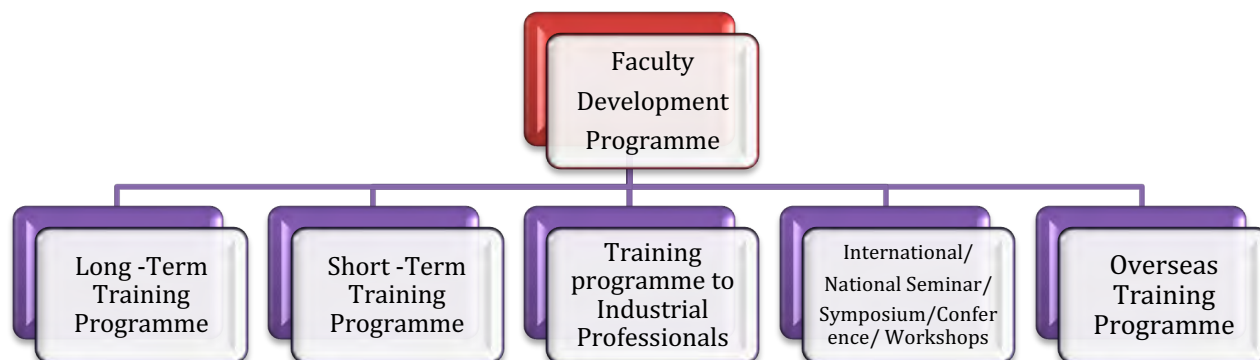


The institute focused on the following activities during the year 2017-2018:

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, human resource development, student psychology, guidance and counselling, curriculum development and entrepreneurship development.
2. Conducting seminars/conference/symposium/workshops for professional development of teachers.
3. Developing research capabilities in teachers of engineering colleges, polytechnics and personnel from industries through inter-disciplinary research leading to Ph.D.
4. Providing expertise to overseas participants through specially designed training programmes.
5. Developing curricula for new technical programmes and revising the curricula of existing programmes.
6. Developing/revising instructional resources (materials and media) needed for effective implementation of polytechnic and engineering college curricula.
7. Undertaking research and development projects relevant to technical education system.
8. Developing e-content on teacher education under SWAYAM platform.
9. Providing consultancy services for the effective implementation and monitoring of the following schemes / projects:
 - a. Scheme of community development through polytechnics
 - b. Sub-Mission on polytechnics
 - Upgrading infrastructure of existing polytechnics
 - c. Project for Persons With Disabilities (PWDs)
 - d. Unnat Bharat Abhiyan (UBA)
 - e. Expert committee visit to facilitate accreditation
 - f. Technical and consultancy service in the area of engineering / technology
 - g. 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 85 scholars have been awarded Ph.D. degree in Engineering Education under the University of Madras. As on date, 19 candidates are pursuing Ph.D. in this Institute. During this year, four scholars were awarded Ph.D. (Table 1) and four enrolled in Ph.D. in Engineering Education by the University of Madras, and one enrolled in Ph.D. in Civil Engineering by the Anna University.

Table 1: Ph.D. Degree awarded to Research Scholars, 2017-2018

S. No.	Name of the candidate & Full-Time/Part-Time	Title of the Thesis	Supervisor from NITTTR, Chennai	Date of Viva Voce
1.	Shri. S. Mohan Part-time	Impact of Learning Java Design Patterns on the Design Competency of Computer Science and Engineering Studies.	Dr.S. Renukadevi Professor and Head, Dept. of Engineering Education.	21.09.2017

S. No.	Name of the candidate & Full-Time/Part-Time	Title of the Thesis	Supervisor from NITTTR, Chennai	Date of Viva Voce
2.	Shri. V. Kamalakkannan Part-time	Evaluation of the Curriculum of Diploma Programme in Leather Technology conducted in Tamil Nadu state in India.	Dr. D. Brahadeeswaran Former Professor and Head, Department of Policy Planning & Educational Research.	12.12.2017
3.	Ms. P.Kurinchi Part-time	Development of a Diploma Programme in Computer Animation Engineering for Polytechnic College in Tamil Nadu to meet the Human Resource Needs of Indian Animation Industry.	Dr. V.Thanikachalam Former Professor & Head, Centre for International Affairs.	22.01.2018
4.	Ms.S.Sheeba Rani Ganamalar Part-time	Study of Effectiveness of M.E (Post Graduate) Programme in Embedded System Technologies and Suggest a Model for Curriculum Improvement	Dr. V.Thanikachalam Former Professor & Head, Centre for International Affairs.	24.01.2018

4.1.2 OVERSEAS TRAINING COURSES (OTC)

During the year 2017-2018, the institute organized twelve training programmes for the overseas participants under the ITEC (Indian Technical & Economic Cooperation) schemes. Around 252 participants from 45 Countries (Table 2 & Table 3) attended the programme during this academic year.



They 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

specialty designed training programmes under ITEC schemes for the past 36 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 taking care of the academic aspects.

Table 3: Enrolment by Nations, 2017-2018

Countries	No. of Participants Attended	Countries	No. of Participants Attended	Countries	No. of Participants Attended
AFGHANISTAN	9	KYRGYZSTAN	3	SIERRA LEONE	1
BANGLADESH	50	LAOS	1	SLOVAK REPUBLIC	1
BHUTAN	74	LIBERIA	1	SUDAN	6
BOTSWANA	4	MALAWI	1	South SUDAN	4
COTE D'IVOIRE	2	MALI	1	SRILANKA	1
CUBA	2	MAURITIUS	5	ST. LUCIA	1
EGYPT	2	MONGOLIA	1	SYRIA	2
EL SALVADOR	1	NAMIBIA	3	TAJIKISTAN	2
ETHIOPIA	3	NEPAL	5	TANZANIA	13
FIJI	2	NIGER	2	TUNISIA	1
GAMBIA	1	NIGERIA	4	UGANDA	4
GHANA	1	OMAN	1	UZBEKISTAN	1
INDONESIA	3	PHILLIPINES	3	VIETNAM	4
IRAQ	2	RUSSIA	1	ZAMBIA	6
KENYA	6	SEYCHELLES	3	ZIMBABWE	8
No. of Countries represented = 45				Total candidates	252

Highlights

- Sponsored by the Indian Technical and Economic Cooperation Scheme (ITEC) of the Ministry of External Affairs, Government of India.
- A total of 252 participants (teachers and administrators) from 45 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.

Photo : Overseas Training Courses, 2017 - 2018



IT, Web Designing, English Communication Skills and Pedagogy



TVET Institute Management for Bhutan



Economic Workforce Planning for Bhutan



Women Empowerment through Technical and Vocational Education



Educational Media Production for E-Learning



Information and Communication Technology (ICT) for Rural Development and Management

Photo : Overseas Training Courses, 2017 - 2018



Spatial Information Technology for Urban Planning and Management



Sustainable Development and Environmental Management



Design of Educational Applications using Web Technologies



Curriculum Design and Instructional Materials Development



Modern Library Practices



Information and Communication Technology in Education and Training

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 were identified through need analysis survey carried out by our extension centres and the state directorates. The course details, duration and venue were finalized in programme development committee meetings held on 20.02.2017, 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 staff development courses were organized at the institute headquarter in Chennai and its 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
- ▶ Basic and advanced pedagogy programme
- ▶ Induction programme
- ▶ Question paper authoring and evaluation
- ▶ Instructional content development for electronic media
- ▶ Use of free and open source softwares
- ▶ ICT Tools for teachers
- ▶ Guidance and counselling
- ▶ Life skills
- ▶ Neuro-linguistic programming
- ▶ Professional ethics and values
- ▶ Gender Issues in technical and vocational education
- ▶ NBA accreditation procedures and outcome-based education

The performance in the aforementioned areas during the year under report had been impressive as 180 courses were conducted involving a total of **3126** participants (Male:2015, Female: 1111) from the polytechnics (Table- 4). State-wise distribution of polytechnic faculty trained during 2017-2018 is given in Fig 1.As on till date **77,175**technical teachers from polytechnic system have been trained through **4105**courses.

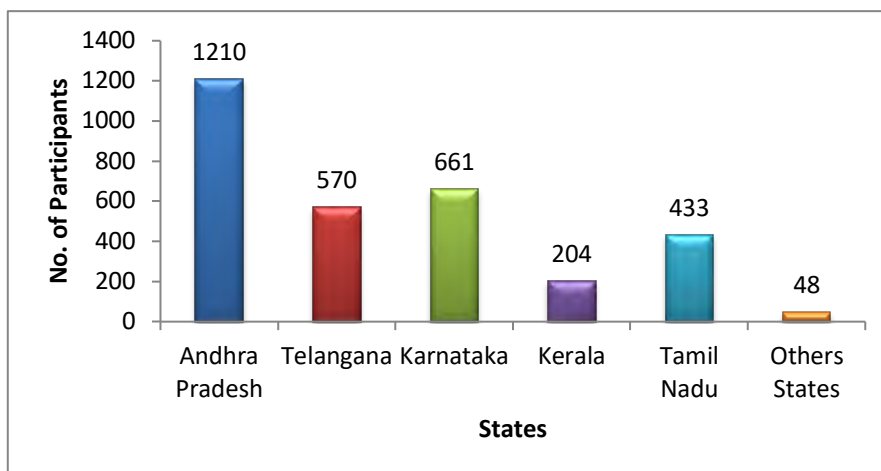


Fig 1: Number of polytechnic faculty members trained during 2017-2018

Table 4: List of Polytechnic Teachers Training Programmes 2017-2018

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
1.	Induction Training Programme	10-21 Apr 2017	Two week	41
2.	Induction Training Programme	8-19 May 2017	Two week	42
3.	Induction Training Programme	8-19 May 2017	Two week	33
4.	Instructional Design and Delivery System	15-20 May 2017	One week	55
5.	NBA Accreditation and Preparation	16-18 May 2017	Three days	30
6.	e-Content Development & e-Learning Methodology in Technician Education	22 May – 2June 2017	Two week	40
7.	Laboratory Instruction in Digital Electronics for Teachers of ECE & CSE	29 May – 2June 2017	One week	19
8.	Laboratory Instruction in Electronic Engineering for Teachers of EEE	29 May – 2June 2017	One week	22
9.	Circuit Simulation and PCB Design using MULTISIM	5-9June 2017	One week	11
10.	Student Psychology	5-9June 2017	One week	22

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
11.	e-Learning Design	5-9June 2017	One week	15
12.	Outcome Based Assessment in Civil Engineering	5-9June 2017	One week	13
13.	Computer Aided Design and Manufacturing	5-9June 2017	Two week	16
14.	Mobile Communications	5-9June 2017	One week	17
15.	Laboratory Instruction in DC Machines and Measurements for EEE	12-16 June 2017	One week	23
16.	Evolving Trends in E-Learning	12-16 June 2017	One week	21
17.	8051 Micro Controller and its Applications	12-16 June 2017	One week	16
18.	Question Paper Authoring and Evaluation	12-16 June 2017	One week	16
19.	Induction Training Programme	12-23 June 2017	Two week	23
20.	Industrial Refrigeration & A/C Systems	12-16 June 2017	One week	15
21.	Laboratory Instruction in Material Testing for Civil Engineering teachers	12-16 June 2017	One week	25
22.	Computer Applications in Project Management	19-23 June 2017	One week	10
23.	PLC and SCADA	19 June – 1 July 2017	Two week	19
24.	Basic course on PLC	19-23 June 2017	One week	9
25.	Technology Enabled Learning and Teaching	19-23 June 2017	One week	19
26.	Advanced Manufacturing Techniques	19-23 June 2017	One week	17
27.	Maintenance of Electrical Systems and testing	19-23 June 2017	One week	18
28.	Advanced course on PLC	27 June – 1 July 2017	One week	5
29.	Intellectual Property Rights for Teachers	27 June – 1 July 2017	One week	19
30.	Earthquake Resistant Structures	3-7 July 2017	One week	13
31.	CNC Machines and Programming	3-7 July 2017	One week	16
32.	Induction Training Programme	3-14 July 2017	Two week	24
33.	Educational Video Production	3-14 July 2017	Two week	14
34.	Core Java & Java EE	3-14 July 2017	Two week	10
35.	Core Java	3-7 July 2017	One week	2
36.	Outcome Based Education and its Implementation	3-7 July 2017	One week	20
37.	Sustainable Rain Water Harvesting	3-7 July 2017	One week	10
38.	Java EE	10-14 July 2017	One week	6
39.	Renewable Energy Sources	10-14 July 2017	One week	19
40.	Instructional Management	10-14 July 2017	One week	1
41.	Institutional Development and Strategic Planning	11-13 July 2017	Three days	9
42.	Outcome Based Education and its Implementation	10-14 July 2017	One week	22

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
43.	Free and Open Source Software in Civil Engineering	17-21 July 2017	One week	12
44.	Empowering Teachers with Educational Technology	17-21 July 2017	One week	19
45.	Software Engineering	17-21 July 2017	One week	12
46.	Test Engineering	17-21 July 2017	One week	18
47.	Induction Programme	17-28 July 2017	Two week	24
48.	PHP and MySQL	24-28 July 2017	One week	15
49.	Climate Change – Adaptation, Mitigation and Management	24-28 July 2017	One week	15
50.	Data Communication and Networking	24-28 July 2017	One week	20
51.	Construction Techniques and Management	24-28 July 2017	One week	17
52.	Advances in Casting and Welding	31 July - 4 Aug 2017	One week	16
53.	Computer Hardware and Networking Lab Manual Preparation	31 July - 4 Aug 2017	One week	12
54.	VHDL Programming and Implementation in FPGA	31 July - 4 Aug 2017	One week	18
55.	Outcome Based Education and its Implementation	31 July - 4 Aug 2017	One week	19
56.	Soft Skills	31 July - 4 Aug 2017	One week	28
57.	Question Paper Authoring and Evaluation	31 July - 4 Aug 2017	One week	19
58.	Instructional Model for Outcome Based Education	04 Aug 2017	One day	33
59.	Basic Course on LabVIEW Programming	7-11 Aug 2017	One week	24
60.	Computer Aided Manufacturing and Metrology	7-11 Aug 2017	One week	19
61.	Data Structure using C Programming Language - Lab Manual Preparation	7-11 Aug 2017	One week	9
62.	Outcome Based Education and its Implementation	7-11 Aug 2017	One week	13
63.	NBA Accreditation and OBE	8-10 Aug 2017	Three days	55
64.	Leadership and Management Skills	14-19 Aug 2017	One week	11
65.	Interactive Multimedia in Classroom Teaching	14-19 Aug 2017	One week	14
66.	Android Programming	14-19 Aug 2017	One week	12
67.	Induction Programme	14-26 Aug 2017	Two week	24
68.	Industrial Control using PLC, Pneumatics and LabVIEW	21-26 Aug 2017	One week	15
69.	Geographical Information System and its Applications	21-26 Aug 2017	One week	12
70.	Renewable Energy Sources	21-26 Aug 2017	One week	17
71.	Outcome Based Education and Accreditation	28-30 Aug 2017	Three days	24

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
72.	Principles and Applications of Nano Science	28 Aug – 1 Sep 2017	One week	16
73.	Graphics and Animation	28 Aug – 1 Sep 2017	One week	10
74.	Personality Development through NLP	28 Aug – 1 Sep 2017	One week	19
75.	ARM Controller LPC 2148 and its interfacing	28 Aug – 1 Sep 2017	One week	16
76.	Outcome Based Education and its Implementation	28 Aug – 1 Sep 2017	One week	18
77.	Advances in Heat Treatment and Non Destructive Testing	4-8 Sep 2017	One week	19
78.	Using Open Educational Resources in Teaching	4-8 Sep 2017	One week	13
79.	Applications in Power Electronics Engineering	4-8 Sep 2017	One week	17
80.	Induction Programme	4-15 Sep 2017	Two week	12
81.	Refrigeration and Air Conditioning	11-15 Sep 2017	One week	13
82.	Multimedia Development	11-15 Sep 2017	One week	12
83.	Linux System Administration	11-15 Sep 2017	One week	12
84.	Verilog Programming and Implementation in FPGA	11-15 Sep 2017	One week	23
85.	Life Skills Development	11-15 Sep 2017	One week	19
86.	Advanced Networking and Network Security	18-22 Sep 2017	One week	5
87.	Surveying using Total Station & GPS	18-22 Sep 2017	One week	18
88.	Non Traditional Machining	18-22 Sep 2017	One week	9
89.	Instructional Design and Delivery Systems	18-22 Sep 2017	One week	7
90.	Schematic and Simulation in PSPICE and PCB design using ORCAD	18-22 Sep 2017	One week	17
91.	Outcome Based Education and its Implementation	18-23 Sep 2017	One week	16
92.	Special Programme for Training Managers of Kerala Polytechnics	26-29 Sep 2017	Two days	49
93.	Wireless and Mobile Communication	3-7 Oct 2017	One week	7
94.	Presentation Tools for the Classroom	3-7 Oct 2017	One week	9
95.	Computer Integrated Manufacturing	3-7 Oct 2017	One week	9
96.	HRM In Technical Education	3-7 Oct 2017	One week	9
97.	Environmental Pollution control and Management	3-13 Oct 2017	Two week	10
98.	Sensor applications using MyRIO with LabVIEW	9-13 Oct 2017	One week	12
99.	Student Evaluation	9-13 Oct 2017	One week	11
100.	Open Source Digital Library Software (DSpace)	9-13 Oct 2017	One week	23
101.	Cloud Computing	9-13 Oct 2017	One week	9
102.	Optical Communication	15-19 Oct 2017	One week	17

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
103.	PHP and MySQL	23-27 Oct 2017	One week	1
104.	Multimedia Technology	04-08 Oct 2017	One week	7
105.	Students Guidance and Counselling	23-27 Oct 2017	One week	20
106.	Desktop Publishing	1-5 Jan 2018	One week	9
107.	Gender Issues in Technical and Vocational Education	30 Oct – 3 Nov 2017	One week	8
108.	NBA Accreditation Process	30 Oct – 3 Nov 2017	One week	40
109.	Data Analytics	22-27 Jan 2018	One week	10
110.	Environmental Impact Assessment	27 Nov – 1 Dec 2017	One week	7
111.	NBA Accreditation and Preparation	21-23 Nov 2017	Three days	43
112.	Physical Fitness	13-17 Nov 2017	One week	35
113.	Python Programming	20-24 Nov 2017	One week	12
114.	Question Paper Authoring and Evaluation	29 Jan – 2Feb 2018	One week	17
115.	Instructional Graphic Design	27 Nov – 1 Dec 2017	One week	8
116.	Professional Ethics and Values	27 Nov – 1 Dec 2017	One week	14
117.	Refresher course in EC Engineering	27 Nov – 8 Dec 2017	One week	20
118.	Refresher course in EC Engineering (Theory)	27 Nov – 1 Dec 2017	One week	5
119.	e. Office and its Applications	27 Nov – 1 Dec 2017	One week	28
120.	Refresher course in EC Engineering (Practical)	4-8 Dec 2017	One week	5
121.	Pre-stressed Concrete Structures	4-8 Dec 2017	One week	15
122.	Instructional Design and Delivery System	4-8 Dec 2017	One week	11
123.	Working with Electrical CAD	4-8 Dec 2017	One week	16
124.	Thermal Power Engineering	4-8 Dec 2017	One week	12
125.	SAR Preparation for accreditation	4-6 Dec 2017	Three days	20
126.	Advanced Communications	4-8 Dec 2017	One week	17
127.	Geotechnical Engineering	4-8 Dec 2017	One week	16
128.	PLC Programming using 820 Controllers	11-15 Dec 2017	One week	12
129.	Employability Skills for Youth	11-15 Dec 2017	One week	11
130.	Learning Management System and e-Content Development	11-22 Dec 2017	Two week	26
131.	e. Office and its Applications	11-15 Dec 2017	One week	42
132.	Internet of Things	19-21 Dec 2017	Three days	18

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
133.	Web Designing	1-5 Jan 2018	One week	8
134.	Quality Management system / TQM in Technical Education	1-5 Jan 2018	One week	15
135.	Instructional Model for Outcome Based Education	1-5 Jan 2018	One week	18
136.	MATLAB Programming	1-5 Jan 2018	One week	32
137.	Electrical and Electronic Systems in Wind and Solar Energy Applications	8-12 Jan 2018	One week	13
138.	Repairs and Renovations of Structures	8-12 Jan 2018	One week	11
139.	Non-conventional Energy Sources	8-12 Jan 2018	One week	12
140.	Communication Skills	8-12 Jan 2018	One week	10
141.	e. Office and its Applications	8-12 Jan 2018	One week	35
142.	Induction Programme	8-12 Jan 2018	One week	17
143.	Digital Marketing	22-27 Jan 2018	One week	13
144.	Guidance and Counselling	22-27 Jan 2018	One week	23
145.	Strategic Planning and Institutional Development	23-25 Jan 2018	Three days	11
146.	Preparation of Evaluation Items for E-Content	29 Jan –2Feb 2018	One week	12
147.	Personality Development through NLP	29 Jan –2Feb 2018	One week	30
148.	ICT Tools for Civil Engineering Teachers	29 Jan –2Feb 2018	One week	8
149.	Special Electrical Machines and Control	29 Jan –2Feb 2018	One week	14
150.	Renewable Energy Sources	29 Jan –2Feb 2018	One week	15
151.	NBA Accreditation Based on OBE	29 Jan –2Feb 2018	One week	26
152.	Building Modeling using Revit Architecture	5-9Feb 2018	One week	18
153.	Free Software for Education	5-9Feb 2018	One week	25
154.	Advances in Welding and Manufacturing	5-9Feb 2018	One week	21
155.	NBA Accreditation Based on OBE	5-9Feb 2018	One week	18
156.	Computer Hardware and Networking	5-9Feb 2018	One week	28
157.	Renewable Energy Sources	12-16Feb 2018	One week	21
158.	Computer Applications in Structural Engineering	12-16Feb 2018	One week	15
159.	Basic Course on PLC	12-16Feb 2018	One week	19
160.	Learning Management System	12-16Feb 2018	One week	21
161.	Robotics and Mechatronics for Industrial Automation	19-23Feb 2018	One week	26
162.	MATLAB and LabVIEW Programming	19 Feb – 02Mar 2018	Two week	21
163.	MATLAB Programming	19-23Feb 2018	One week	16
164.	Learning Management System	19-23Feb 2018	One week	18
165.	Refresher course on Applied Chemistry	19-23Feb 2018	One week	26

Sl. No.	TOPIC	Duration	No. of Days / Weeks	No. of Participants
166.	Energy for Rural Development	26 Feb – 02Mar 2018	One week	13
167.	Nanotechnology and Applications	26 Feb – 02Mar 2018	One week	17
168.	Soft Skills	26 Feb – 02Mar 2018	One week	33
169.	Design of RCC Structures for Newly recruited Teachers	26 Feb – 09 Mar 2018	Two week	12
170.	NBA Accreditation Based on OBE	26 Feb – 02Mar 2018	One week	27
171.	Design of Bridges and Irrigation Structures	5-9Mar 2018	One week	4
172.	Advances in Materials and Manufacturing	5-9Mar 2018	One week	15
173.	Embedded Systems using 8051 Micro Controller, Arduino and AVR Micro Controller	5-16Mar 2018	Two week	16
174.	Embedded Systems using 8051 Micro Controller	5-9Mar 2018	One week	1
175.	NBA Accreditation Based on OBE	5-9Mar 2018	One week	15
176.	Arduino and AVR Micro Controller Programming	12-16Mar 2018	One week	6
177.	Teaching Engineering Mechanics	12-16Mar 2018	One week	8
178.	Induction Programme	12-23Mar 2018	Two week	19
179.	Authoring Tools in e-Learning	19-23Mar 2018	One week	10
180.	Computer Aided Engineering	12-16Mar 2018	One week	10
Total				3126

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. Twenty nine short-term courses covering **1375** participants (Male: 812, Female: 563) covering States like Andhra Pradesh, Karnataka, Tamil Nadu & other states were organized (Table 5). State-wise distribution of engineering college faculty trained during 2017-2018 is given in Fig 2. Thus, till date, **26471** technical teachers of Engineering colleges have been trained through **652** courses. During this year the courses were conducted in the following areas:

- Instruction design and delivery system
- Student evaluation and question paper setting
- Technology enabled teaching learning process
- Instructional model for outcome based education
- Advance pedagogy & professional development
- Instructional management and institutional development

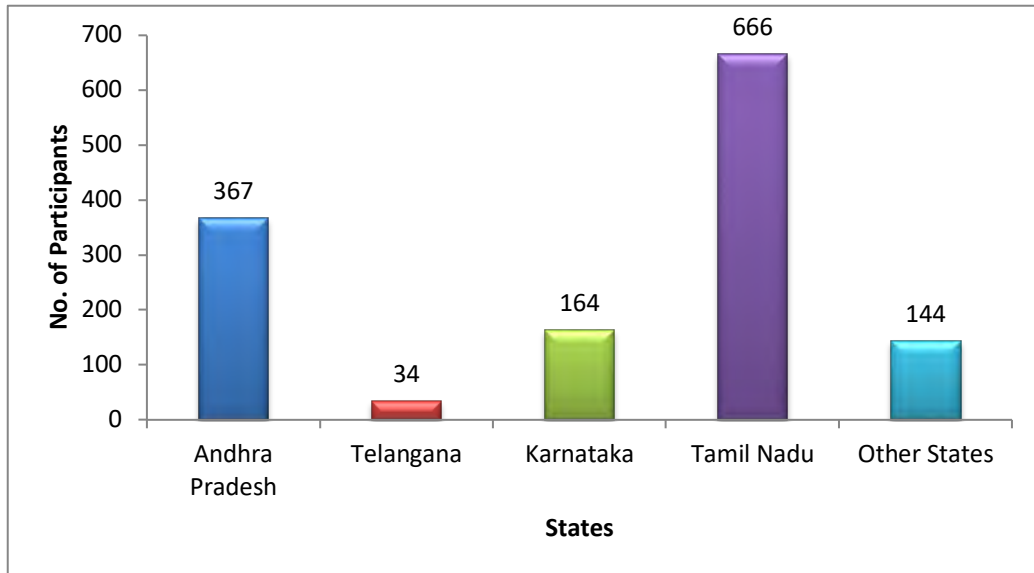


Fig 2. Number of engineering college faculty members trained during 2017-2018



Photo: Faculty Development Programme at VNR Vignana Jothi Institute of Engg & Tech. Hyderabad.

Table 5: List of Sponsored Engineering College Training Programmes, 2017-2018

Sl. No.	Venue	Period	No. of Days	No. of Participants
1.	Sidharth Engineering College, AP	16-18, April 2017	3	50
2.	Jeppiaar Engineering College, TN	17-22, April 2017	6	50
3.	National Institute of Technology, Karaikal, TN	22-27, May 2017	6	21
4.	National Engineering College, Kovilpatti, TN	22-27, May 2017	6	50
5.	National Engineering College, Kovilpatti, TN	28-30, May 2017	3	46
6.	National Engineering College, Kovilpatti, TN	27-29, May 2017	3	51
7.	National Engineering College, Kovilpatti, TN	28-30, May 2017	3	52
8.	National Engineering College, Kovilpatti, TN	27-29, May 2017	3	43
9.	National Engineering College, Kovilpatti, TN	27-29, May 2017	3	42
10.	MVGR College of Engineering, Vizianagaram, AP	5-10, Jun 2017	6	44
11.	Hindustan College of Engg. & Technology, Coimbatore, TN	13-18, Jun 2017	6	50
12.	Symbiosis Institute of Technology, Pune, Maharashtra	26 Jun –1 Jul 2017	6	41
13.	Anna University, Chennai, TN	8-19, July 2017	12	41
14.	Erode Sengunthar Engg. College, Perundurai, TN	24-29, July 2017	6	54
15.	Sandip university, Nasik, Maharashtra	22-24, Aug 2017	3	51
16.	Rajalakshmi Engineering College, Chennai, TN	9-11, Aug 2017	3	54
17.	Bonam Venkata Chalamayya Engineering College, Odalarevu, AP	6-11, Nov 2017	6	53
18.	Vignan's Institute of Engineering for Women, Vishakapatnam, AP	13-18, Nov 2017	6	55
19.	PRIST University, Puducherry Campus, PDY	27 Nov – 2 Dec 2017	6	52
20.	Chennai Institute of Technology, Chennai, TN	30 Nov – 2 Dec 2017	3	52
21.	Sir C.R. Reddy College of Engineering, Eluru, AP	4-9, Dec 2017	6	57
22.	VNR VignanaJothi Institute of Engineering & Technology, Hyderabad, Telangana	11-16, Dec 2017	6	34
23.	Kuppam Engineering College, Kuppam, AP	11-16, Dec 2017	6	53
24.	Siddharth Institute of Engineering & Technology, Puttur, AP	11-15, Dec 2017	5	55
25.	Ballari Institute of Technology & Management, Ballari, Karnataka	18-23, Dec 2017	6	53
26.	Anna University, Chennai, TN	18-29, Dec 2017	12	20
27.	CARE Group of Institutions, Trichy, TN	20-25, Jan 2018	6	40
28.	NIE Institute of Technology, Mysuru, Karnataka	1-6, Jan 2018	6	59
29.	National Institute of Engineering, Mysuru, Karnataka	1-5, Jan 2018	5	52
			Total	1375

Note: AP – Andhra Pradesh, TN – Tamil Nadu, PDY – Puducherry

4.2.3 INDUSTRIES AND OTHER ORGANISATION PROGRAMMES

The institute has established good collaboration with the Government organizations and industries. The Government organization and industries are also availing the experience, expertise and resources of the institute for getting their engineers and staff trained. During 2017-2018, this institute has conducted the following three training programmes for Government organizations (Table 6):



Photo: Training Programme on Web Page Design and ARC GIS for Tamil Nadu PWD, Chennai

Table 6: List of Staff Training Programmes of Government & Private Organisations

Title of the Programme	Name of the Government Organization	Duration	No. of Participants
In-service training programme for newly recruited Assistant Engineers & Junior Engineers	Tamil Nadu Slum Clearance Board, Chennai.	08.05.2017 to 02.06.2017	72
Web page design and arc GIS	Tamil Nadu Public Works Department, Chennai.	20-22, February 2018 & 1-3, March 2018	15
Trainer's training programme	Air Asia India Ltd, Bengaluru.	8-12, January 2018	10
Total			97

A total of 97 participants attended these training programmes. Thus to date, 2608 persons were trained through 119 courses.

4.2.4 SPONSORED TRAINING PROGRAMMES

The following is the list of sponsored training programmes (Table 7) conducted during 2017-2018.

Table 7: List of Sponsored Training Programmes Conducted, 2017-2018

S.No	Title of the Programme	Sponsored by	Duration	No. of Participants	Amount (Rs)
1	Adopting Water-Energy-Food Nexus Approach in India	DST (India) and JSPS (Japan)	05.09.2017 to 09.09.2017	20	6,52,000/-
2	Entrepreneurship	NSTEDB and DST	10.07.2017 to 22.07.2017	22	2,50,000/-

a) Knowledge Sharing International Workshop on “Adopting Water-Energy-Food Nexus Approach in India”

“Indo – Japanese” joint project funded by DST & JSPS, entitled Knowledge Sharing Workshop on “Adopting Water – Energy – Food Nexus Approach” coordinated by Prof. Dr. Sudhindra Nath Panda, Director, NITTTR, Chennai in collaboration with Dr. Taniguchi Makoto, Deputy Director General, Research Institute for Humanity and Nature (RIHN) Kyoto, Japan. About six participants attended from Japan and 20 participants from India attended this programme which was held from 5th to 9th September 2017 at NITTTR, Chennai. The Indo-Japanese joint project covered areas of Water-Energy-Food Nexus such as: RIHN’s Research and Stakeholders Engagement Activities; Tracing Synergies and Trade-off; and Practical Benefits and Challenges for Marginal Settlements in Disadvantaged Areas. Total 14 panel presentations were given by the Indian and Japan delegates.



Photo: Indo – Japan Workshop Delegates

Field visit to Cuddalore Agriculture field where sustainable agriculture is encouraged to ensure food livelihood security through Technology Application for Livelihood Improvement (TALIM) Project – Implemented by Shri. AMM Murugappa Chettiyar Research Centre, Chennai, India. Preparation of Project Proposal for funding under SATREPS was initiated.

b) Faculty Development Programme in “Entrepreneurship”

The faculty development programme in entrepreneurship sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Government of India, was conducted at our Institute from 10.07.2017 to 22.07.2017.

The objective of the programme is to train and develop faculty members from universities, engineering colleges and polytechnic colleges involved or likely to be involved in entrepreneurship related activities, so that they can act as 'Resource Persons' in guiding and motivating their students intended to become an entrepreneur.

The promotional activities were started on 02.06.2017 soon after the sanctioning of the project by sending the hard copy of the brochure to various premier institutions and through e-mail to the Directorates of Technical Education of all the states in India. The information has been published at our Institute website also. Forty-six applications were received for this programme. After scrutiny, 30 participants were selected and invited to participate in this programme. Finally, the programme was conducted with 22 participants from the various states of India (Gujarat-5, Maharashtra-1, Andhra Pradesh-1, Karnataka-8 & Tamilnadu-7).



Photo: Certificate Distribution in the FDP “Entrepreneurship”

The programme commenced with the formal Inauguration by Shri V. Moorthy IAS (Retd.) on 10th July, 2017. The following major aspects were covered during the conduct of the programme.

(i) Promoting Entrepreneurship – Student-led start-ups in Educational Institution; (ii) Entrepreneurial competencies and motivation; (iii) Enterprise Development Process; (iv) Financial Management; (v) IPR and Patent Registration in SSI; (vi) Information and Communication Technology for Promoting Entrepreneurship; and (vii) Role of support agencies

The inputs were imparted through lecture-cum-discussion and case studies. Successful entrepreneurs were also invited to deliver lecture for practical insights.

The participants were visited the following Industries / Institutions and had interaction with experts.

(i) Qmax Test Equipments Pvt Ltd., Chennai; (ii) Dakshina Chitra, Chennai; and (iii) IITM Incubation Cell, Chennai

The programme ended with the formal Valedictory Address and Certificate Distribution on 22nd July, 2017 by Prof. Dr. Anil D. Sahasrabudhe, Chairman, AICTE.

4.2.5 IN-COUNTRY PROGRAMME

National Institute for Technical Training and Research (NITTTR), Chennai conducted an In-country programme on “Quality Assurance of TVET Institutions through Accreditation” in collaboration with the Colombo Plan Staff College (CPSC), Manila Philippines from March 5-9, 2018 at our institute.

The major objective of the programme is to contribute to the raising of awareness and provision of skills and values which are necessary to put “Accreditation System for TVET: Excellence into Practice”. A total of 25 administrators of technical and vocational education and training (TVET) from CPSC member countries attended the programme. The programme enabled the participants to learn and share about the APACC accreditation process in anticipation of more institutions in the country earning their respective APACC accreditation status in future.



Photo: In-Country CPSC Training Programme Delegates and Dignitaries

The programme was jointly supervised by Dr. Ramhari Lamichhane, CPSC Director General and Prof. Dr. Sudhindra Nath Panda, Director of NITTTR Chennai. Programme was coordinated by Prof. Dr. G. Kulanthaivel, Faculty Consultant of CPSC and Chairman of the ICT Division and local coordination was done by Dr. P. Sivasankar, Assistant Professor of Dept. of Electrical, Electronics and Communication Engineering of NITTTR, Chennai.

Themes discussed during the program include the following: (i) Organizational excellence; (ii) Concepts and philosophies in APACC accreditation; (iii) National accreditation and certification systems in India; and (iv) Accreditation Board for Engineering and Technology (ABET).

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), towards developing 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 NITTTTR, Chennai signed MoU with the following institutes (Table 8) during the year 2017-2018:

Table 8: List of MoUSigned Institutes, 2017-2018

S.No	Institution / Agencies	Date of Signing
1	SANDIP University, Nashik, Maharashtra	24.08.2017
2	PSR Engineering College, Sivakasi, Tamil Nadu	10.11.2017
3	Anna University, Chennai	20.11.2017

4.4 SEMINAR/SYMPOSIUM/CONFERENCE/WORKSHOPS CONDUCTED

A total of thirteen seminar/symposium/conference/workshops were conducted during this year. A total of 1350 participants from Engineering colleges, Polytechnic colleges, Industries and professionals attended and presented papers. The details are given in the table 9.

Photo : Seminar/Symposium/Workshop, 2017 - 2018



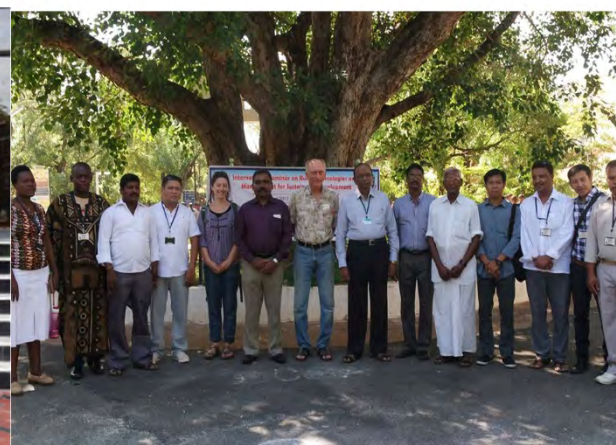
UKIERI – AICTE workshop on "Further Education Leadership Development Programme" (28.06.2017 to 30.06.2017)



National Workshop on "KOHA: An Open Source Integrated Library Management Software" (14.08.2017 to 18.08.2017)



International Seminar on "MOOC Pedagogy and Media Competencies for E-Learning" (28.08.2017)



International seminar on "Rural Technologies and Management for Sustainable Development" (30.08.2017)



International Seminar on "E-Society for Nation Building and Empowerment" (06.09.2017)



National Workshop on "Arm Cortex M4 programming" (05.10.2017 to 07.10.2017)

Photo : Seminar/Symposium/Workshop, 2017 - 2018



International Seminar on "Trends in Urban Planning, Sustainable Development and Environment Management" (15.11.2017)



International Symposium on "Innovation and Development in Engineering Education" (16.11.2017)



International Seminar on "Recent Trends in Education and Information Science" (06.01.2018)



National Workshop on "Raspberry PI Based Industrial Application with IOT Technology" (04.01.2018 to 06.01.2018)



National Seminar on "Managing Water for Sustainable Agriculture" (28.02.2018)



International Seminar on "Accreditation and Gender Sensitivity in TVET Systems" (08.03.2018)

5.0 CELEBRATION OF NATIONAL DAYS:

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

Table 10 : Celebration of National Days

Sl. No.	Description	Date / Duration	Events	Coordinator	Chief Guest
1.	International Yoga Day	21.06.2017	Mass Demonstration of Yoga, Essay Writing and Elocution Competitions	Dr. T. Gnana Sambanthan	Prof. S. Krishnamurthi, World Community Service Centre, Mylai Sky Trust, Chennai. Shri. S. Thirumalai, Deputy Director (Rtd.), Hindi Teaching Scheme, Ministry of Home Affairs, Chennai.
2.	Independence Day Celebrations	09.08.2017 to 15.08.2017	Book and Photo Exhibitions, Pledge, Documentary Film, National Integration Song, Rangoli (Art work), Patriotic Song and Speech Competitions and Flag Hoisting	Dr. T. Gnana Sambanthan	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR Chennai.
3.	Swachhta Pakhwada	01.09.2017 to 15.09.2017	Essay Writing, Painting, and Elocution Competitions, took up a "Cleaning Programme" at Kolathur Village, Chennai	Dr. T. Gnana Sambanthan	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR Chennai.
4.	Rashtriya Ekta Diwas	27.10.2017 to 31.10.2017	Elocution, Essay and Most Creative Slogan Competitions, Pledge and Unity Run	Dr. S. Renukadevi	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR Chennai.
5.	National Entrepreneurship Day	09.11.2017	Elocution and Essay Writing Competitions	Dr. R. Santhakumar	Shri. M. Shahjahan, Joint Director, Ministry of Skill Development and Entrepreneurship, Regional Directorate of Apprenticeship Training, Guindy, Chennai
6.	National Education Day	14.11.2017 to 16.11.2017	Elocution, Essay Writing, Slogan Competition, Rally and Symposium	Dr. S. Renukadevi	Shri. Saravanan Sundaramoorthy, Founder & CEO, Edsix Brain Lab Private Limited, Chennai
7.	Constitution Day Celebrations	28.11.2017	Special Lecture	Dr. S. Renukadevi	Dr. M. Gandhi, Dean, VIT School of Law, VIT University, Chennai

Photo : Celebration of National Days, 2017 - 2018



International Day of Yoga (21.06.2017)



Demonstration of Yoga (21.06.2017)



Independence Day Celebrations (09.08.2017 to 15.08.2017)



Dr. Sudhindra Nath Panda, Director, NITTR, Chennai opened the book and photo exhibitions.



Independence Day Celebrations (09.08.2017 to 15.08.2017)



Independence Day Celebrations (09.08.2017 to 15.08.2017)

Photo : Celebration of National Days, 2017 - 2018



Swachhta Pakhwada Celebrations (01.09.2017 to 15.09.2017)



Rashtriya Ekta Diwas Celebrations (National Unity Day - 27.10.2017 to 31.10.2017)



National Entrepreneurship Day Celebrations (09.11.2017)

National Education Day Celebrations (14.11.2017 to 16.11.2017)

6.0 CURRICULUM DEVELOPMENT

Centre for Curriculum Development Co-ordination & Planning of the institute was set up in 1970 for revising 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 2017-2018, Curricula for 22 programmes consisting of 355 courses were revised for the polytechnics of Telangana state.

7.0 INSTRUCTIONAL MATERIALS DEVELOPMENT

During 2017-2018, the institute has updated the 35 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, 29 number of video lectures were produced for teachers and students of technical education institutions.

9.0 RESEARCH AND CONSULTANCY PROJECTS

The following two 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.	Demonstrating environmentally sound technologies for management of open dumpsites of MSW and transition towards controlled land filling practices.	Tamil Nadu Pollution Control Board, Chennai.	From 2013 to till date	Dr. G. Janardhanan Dr. K. S. A. Dinesh Kumar	Ongoing	7.17
TOTAL						502.17

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.	Tamil Nadu Road Sector Project Training Program	Tamil Nadu Road Sector Project Highways, Chennai	From 12.03.2012 to Till date	Dr. G. Janardhanan Er. K. S. A. Dinesh Kumar	Ongoing	23.72
ii.	Computation of Volume of Earth at Manali new town	TNSCB Chennai	16.06.2017 to 16.12.2017	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dinesh kumar	Completed	1.6445
iii.	Computation of Volume of Earth at Annai Anjugam Nagar, Perungalathur	TNSCB Chennai	09.03.2018 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dineshkumar	Ongoing	1.18
iv.	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
v.	Unnat Bharat Abhiyan (UBA)	MHRD	From Jan 2018 to Till date	Prof. Dr. S. N. Panda Dr. K. S. Gridharan	Ongoing	3.50
vi.	Computation of Volume of Earth Perumbakkam	TNSCB Chennai	From Jan 2018 to Till date	Prof. Dr. S. N. Panda Dr. G. Janardhanan Dr. K. S. A. Dineshkumar	Ongoing	0.295
TOTAL						30.95605

10.0 LABORATORY UPGRADATION

The following are the state-of-art laboratory equipment procured during 2017-2018 for various laboratories of the institute and modernization programme (Table 13).

Table 13: List of Equipment/Software in the Department Laboratory

S. No	Name of the Department	Equipment	Amount (Rs)
1.	Department of Mechanical Engineering	FDM Based 3D Printing Machine	5,14,500
		SLA Based 3D Printing Machine	5,27,100
		EDM Drilling Machine	9,51,951
		Solar Thermal Training system	2,94,000
		Solar PV Training system	1,31,250
		Solar PV Module Analyzer	1,26,000
		Solar Water Pump	1,36,500
2.	Department of Electrical, Electronics and Communication Engineering	PCB Prototype Machine	3,30,750
		IoT and Raspberry pi 3 Training kits	11,35,848
		Cortex M4 Controller	81,270
		Compact RIO Controller for Interfacing Special Machines	7,32,900
		Wireless Sensor Based Class Room Automation using Zigbee and Wi-Fi	2,52,000
		dsPIC 30F4011 ST CORTEX-M4 based PWM Controller	57,750
		Software Defined Radio Hardware Bundle	4,87,148
3.	Department of Civil Engineering	Automatic Compression Testing Machine 2000KVA	6,82,017
		Universal Testing Machine 1000KVA	12,07,500
4.	Department of Engineering Education	"EXPRESS PRO" Digital Language Software	84,000
5.	Centre for Educational Media and Technology	SONY 4K video cameras FS7 M2 XD camcorder kit	18,73,407
		Black Magic 2ME Production Switcher	1,78,391
		Color Correction Monitors	4,98,304
		AJA Ki Pro Recorders	9,00,694
		Teleprompter	2,00,375
		Senheiser Lavalier Microphones	1,49,553
		Workstations	5,48,816
		Tripods and Other Camera Supporting Systems	3,00,000
		Green Matt Studio Setup	2,50,000
Total			1,26,32,024

11.0 SWAYAM PROJECT

SWAYAM is a programme initiated by the 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 42 SWAYAM courses (Table 14) along with other three NITTTRs (Chandigarh, Bhopal & Kolkata).

Table No. 14: 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	Coordinators Name	Course Offered by NITTTR
1	Quality Assurance in Engineering Education	Dr.E.S.M.Suresh	Chennai
2	Student Assessment and Evaluation	Dr.V.Shanmuganeethi	Chennai
3	Laboratory and Workshop Management	Dr.Dipankar Bose	Kolkata
4	Learning Management System	Dr.RanjanDasgupta	Kolkata
5	Accreditation for Diploma Engineering Programme	Dr.B.L.Gupta	Bhopal
6	Fundamental of Curriculum in Engineering Education	Dr. Joshua Earnest	Bhopal
7	Graphics and Animation Development	Er. Shano Solanki	Chandigarh
8	Accreditation of Undergraduate Engineering Programmes	Dr.R.K.Dixit	Bhopal
9	Student Psychology	Dr. Renukadevi	Chennai
10	Transforming Instruction through Blended Classroom	Dr.G.Janardhanan	Chennai
11	Strategic Planning for Technical Institutions	Dr.S.Dhanapal	Chennai
12	E-content Development	Dr.P.Malliga	Chennai
13	Guidance and Counselling	Dr.R.Rajendran	Chennai
14	Curriculum Implementation and Evaluation	Dr.A.B.Gupta	Chandigarh
15	Redefining Laboratory Instruction using Virtual Laboratory	Dr.G.Janardhanan	Chennai
16	Development of Self Learning Material	Dr. Sunil Dutt	Chandigarh
17	Classroom Communication	Er. Amandeep Kaur	Chandigarh
18	Accreditation for PG Engineering Programmes	Dr.D.S.Karaulia	Bhopal
19	Learning and Instruction	Dr. Kiran Saksena	Bhopal
20	LMS through MOODLE	Dr.V.Shanmuganeethi	Chennai
21	Academic and Research Report Writing	Dr. Samir Roy	Kolkata
22	Capstone Project	Dr.Prasanta Sarkar	Kolkata
23	Research in Technical Education	Dr.P.K.Tulsi	Chandigarh
24	Basic Instructional Methods	Dr. (Mrs.)Susan.S.Mathew	Bhopal
25	ICT in Teaching and Learning	Dr.K.James Mathai	Bhopal
26	Quality Management- Tools and Techniques	Dr.R.B.Shivagunde	Bhopal
27	Problem Based Learning	Dr.IndrajitSaha	Kolkata
28	Technical Education System	Dr.Sekhar Chakraborty	Kolkata
29	Managing Learning Resources	Dr.Uday Chand Kumar	Kolkata

SL. No	Name of the Courses	Coordinators Name	Course Offered by NITTR
30	Laboratory and Workshop based Instruction and Learning	Dr.Soumitra Kumar Mandal	Kolkata
31	OER for Empowering Teachers	Dr.P.Malliga	Chennai
32	Instructional Planning	Dr. P.K Tulsi	Chandigarh
33	Industry-Institute–Community Partnership	Dr.R.G.Choucksey	Bhopal
34	Performance Appraisal and Management	Dr. Parag Dubey	Bhopal
35	Instructional Media	Dr.S.S.Kedar	Bhopal
36	Academic Audit	Dr. Rakesh K Wats	Chandigarh
37	Outcome Based Assessment	Dr. K.S.A. Dinesh Kumar	Chennai
38	Educational Video Production	Sh. AshutoshKapila	Chandigarh
39	Advanced Instructional Methods	Dr.A.A.Khajanchee	Bhopal
40	Technical Education for Sustainable Development	Dr.S.K.Gupta	Bhopal
41	Academic Leadership	Dr. J.S Saini	Chandigarh
42	Group Dynamics	Dr.S.P.Bedi	Chandigarh

12.0 SCHEME OF COMMUNITY DEVELOPMENT THROUGH POLYTECHNICS

As a Direct Central Assistance Scheme, the scheme of Community Development through Polytechnics (CDTP) sponsored by MHRD, Govt. of India, New Delhi is being implemented in 190 polytechnics in the Southern Region as on date.

The number of polytechnics in each State implementing the Scheme of CDTP is presented in the following:

Andhra Pradesh	Telangana	Karnataka	Kerala	Tamil Nadu	Puducherry	Total
29	18	55	31	56	1	190

The Scheme aims to uplift the rural youth, the school dropouts, the poor, the downtrodden etc.,

Activities:

The major areas of activities under the scheme by the polytechnics are (i) Need Assessment Survey; (ii) Skill Development Training Programmes; (iii) Dissemination and Application of Appropriate Technologies; (iv) Technical and Support Services; and (v) Awareness Programmes.

Role of NITTR

To enable the project personnel associated with the implementation of CDTP scheme in their respective polytechnics, the Centre for Rural and Entrepreneurship Development (CR&ED) of the institute serves as a resource centre. It conducts orientation training programmes, State-wise workshops, annual review of the scheme and other subject related short-courses regularly. Besides, the (CR&ED) assists the MHRD in preparation of various Progress Reports and the expenditure related matters.

During the Year 2017-2018, the operational plan proposals for the scheme of CDTP submitted by the polytechnics in the southern region were scrutinized and were approved. The Physical Achievement Reports (PAR) for the year 2016-17 submitted by the polytechnics were compiled and forwarded to the Ministry.

13.0 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 15).

Objectives of the Scheme

- Promote education and training of PWDs in the main stream of technical and vocational education and skill development programmes through formal and non-formal Programme.
- Identify PWDs in the suitable geographic catchments of the polytechnics.
- Identify suitable education and training programmes for PWDs with special emphasis on formal skill development programmes for illiterate youth with disabilities, for promoting wage or self employment as far as possible at their place or residence.
- Design need and competence based curricula for PWDs
- Preparing/ procuring/ developing suitable resources, including physical, human and informational for effective implementation of the programme.
- Develop norms and standards for different phases of the scheme, wherever needed.
- Network and collaborate with resource institutions and other organizations and take their assistance for manpower training, guidance and effective implementation of the scheme.
- Sensitize administrators, planners, faculty, staff and students and community at large about the problems and capabilities of the students with disabilities and to create suitable environment in the polytechnics.
- Develop innovative educational technologies and approaches for education, training and rehabilitation of youth with disabilities.
- Strengthen the existing placement cells of polytechnics to help for providing guidance and counseling and placement of youth with disabilities for wage and self employment opportunities.
- Evolve suitable methods and practices for monitoring the scheme.

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

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

Achievements:

The particulars of Persons with Disabilities admitted (in 1st year – on roll)/trained during the year 2017-2018 are given below

PWD STUDENTS	
FORMAL DIPLOMA PROGRAMMES (Admitted)	NON-FORMAL COURSES (Trained)
71	245

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

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

The implementation of the scheme was monitored through constant interaction with the officials of the concerned project polytechnics. The centre also conducted the “Annual Review of PWD Scheme for the Principals/ Project Champions of the Polytechnics” during 2017-2018

State	Venue	Date
Karnataka	NITTTR Extension Centre, Bengaluru	7 th July 2017
Tamil Nadu & Puducherry	NITTTR, Chennai.	4 th August 2017
Kerala	NITTTR Extension Centre, Kalamassery	3 rd November 2017

14.0 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, the following activities were conducted by the Hindi Cell of the Institute (Table 16)

Table 16: Details of Hindi Workshops/Hindi Day

Sl. No.	Workshop Title	Date	Venue	No. of Participants	Resource Person/ Chief Guest
1.	Situational Hindi & Official Rules and Policy & Simple Hindi Sentence Conversational Hindi	22.06.2017	NITTTR Chennai	32	1. Smt. A. Madhubala 2. Smt. S. Meenakshi
2.	Hindi in Official Context – usage in different situations & Functional Hindi – Simple Sentences – Writing and Conversational	01.09.2017	NITTTR Chennai	28	1. Smt. M. GeetaMalini 2. Smt. S. Saranya
3.	Hindi Pakhwada& Hindi Day	01.09.2017 to 06.09.17 & 12.09.17	NITTTR, Chennai	84	Dr. Pradeep K. Sarma Registrar Dakshina Bharat Hindi Prachar Sabha
4.	Policy of Official Language & Simple Hindi Sentence – Conversational Hindi	07.12.2017	NITTTR Chennai	33	1. Smt. V. Rajeshwari 2. Smt. B. Kavitha
5.	Official Hindi Sentence Structure & Official Language Past, Present and Future	08.02.2018	NITTTR Chennai	31	1. Smt. Y. Uma 2. Shri. S. Thirumalai

Rajbhasha Shield:

The Official Language Implementation Committee of MHRD (O.L.), Department of Higher Education, New Delhi – selects the Office for Official Language Shield for Best Implementation every year. Accordingly, NITTTR, Chennai has been chosen consecutively for the (Third time) “Rajbhasha Shield” for the Year 2015-16 for its “Excellent Performance” in the implementation of Official Language.



Photo: Rajbhasha Shield Award Ceremony

Accordingly, the Director, NITTTR, Chennai and Shri. J. Ramesh Kumar representing NITTTR, Chennai received the “Rajbhasha Shield” from the Hon’ble State Cabinet Minister for MHRD, Shri. Mahindra Nath - Pandey, along with the Secretary of Higher Education and School Literacy at the Vigyan Bhawan on 22ndMay, 2017 at New Delhi under the auspicious of MHRD (O.L.). New Delhi.

15.0 FACULTY NEWS

a) Faculty Development through Seminar Series:

In order to foster and enhance an academic environment and widen the knowledge and information base of the faculty members and trainees, our Director has started a Friday Lecture Series on 21stOctober 2016. Thus, faculty members of our institute delivered lectures on the topics of common interest which are meant for an interdisciplinary academic audience(Table 17). Besides the faculty members, other eminent experts from outside also delivered lectures. This seminar series was coordinated by Dr. G. Janardhanan, Associate Professor, NITTTR, Chennai.

Table 17: Particulars of Topics in the Seminar Series

S. No	Date	Topic	Speaker
1	07-04-2017	Video Production and Script Writing	Dr. P. Malliga
2	21-04-2017	Understanding Global Positioning System	Dr. K. S. A. Dinesh Kumar
3	28-04-2017	Cognitive Psychology	Dr. P.Arun Kumar
4	12-05-2017	Inductive Teaching & Learning Method – Overview	Dr. G. Janardhanan
5	19-05-2017	Infusion of ICT in Bangladesh Education - Path ahead	Shri. Joydip Dey
6	25-05-2017	Education and Skills for Inclusive and Sustainable Development	Dr. Ramani Parasuraman
7	02-06-2017	Creating Vibrant Industry Institute Interaction	Shri. B.Anbuthambi
8	09-06-2017	Outcome Based Education: Curriculum	Dr. Joshua Earnest

c) Book / Chapters published:

1. Janardhanan, G. and Isaac, K.P. (2017). "Chapter 14: Designing of question papers and solution keys" in the book "Higher Education Faculty Career Orientation and Advancement" Published by CERG. ISBN: 978-81-933475-9-1. Pg:111-130.

d) Papers Presented in Conferences/Workshops:

1. Panda, S. N. and Gnana Sambanthan, T. (2017). "Imparting Technical Teacher Training Through Infused Knowledge and Skill Structures of Outcome Based Education". International conference on 'Skills for the Future World of Work and Global Competitiveness' at Dhaka, Bangladesh from 27 to 29, July 2017.
2. Janardhanan Gangathulasi, "Flipped classroom instruction using virtual simulation laboratory," 2017 IEEE Frontiers in Education Conference (FIE), Indianapolis, IN, USA, 2017, pp. 1-5. doi:10.1109/FIE.2017.8190475.
3. Soro Yaya, Janardhanan, G. and OuattaraN'Golo. (2017). "State of major tuna stock (*Thunnusalbacares*, *Katsuwonuspelamis* and *Thunnusobesus*) in an Atlantic East-center zone (Ivory Coast)". International Conference on "Innovations in Science, Technology and Management towards Sustainability" at P.S.R Engineering College, Sivakasi, Tamil Nadu, India, 10th Nov, 2017.
4. Samia Alsmane Babeker Farah, Janardhanan, G. and Moawya Abdalla. (2017). "Impact of Rangeland Improvements Practices on Sustainable Rangeland Management in Semi-Arid area Umharootarea-Sudan". International Conference on "Innovations in Science, Technology and Management towards Sustainability" at P.S.R Engineering College, Sivakasi Tamil Nadu, India 10th Nov, 2017
5. Gnana Sambanthan, T. and Kamatchi, K. S. (2018). "Developing Competencies by Outcome Based Instructions". National Workshop on Curriculum Design and Development for Quality in Higher Education, NAAC Sponsored Workshop at Queen Mary's College (Autonomous), Chennai, from 6th to 7th January 2018.
6. Gnana Sambanthan, T. and Kamatchi, K.S. (2018). "Models for Digital Transformation in Higher Education". International Conference on "Accreditation and Gender Sensitivity in TVET System" at NITTTR, Chennai, 8th March, 2018.
7. Suresh, E.S.M. (2017). "The Quality of Education and its Challenges in Developing Countries". American Society of Engineering Education at Columbus, Ohio, USA from 25th – 28th June 2017.
8. Sivasankar. P, John Deva Prasanna. D. S, John Aravindhar. D. and Amalanathan George. (2018). "Dual Connected Dominating Sets for load balancing in MANETS". International Conference on "Engineering and Advancement in Technology" at Sri Krishna College of Technology, Kovaipudur, Coimbatore from 22nd to 23rd March 2018.
9. Balasubramanian, K. R. and Senthil Kumar, M. (2017). "Effect of inclination on thermal performance of phase change material based heat sink for photovoltaic cooling". SOLARIS Conference 2017 held at Brunel University, UK on 27th July 2017.

e) Papers published in Proceedings:

1. Yunus Said. A. S. and Malliga, P. (2017). "The Integration of Web 2.0 in Teaching-Learning in Tanzania Higher Education Institutions: The Case of the State University of Zanzibar (SUZA)". Proceedings of E-Society for Nation Building and Empowerment, ISBN 978-93-84734-558,8.
2. Shafiullah Roghmal. and Malliga, P. (2017). "The advantages of eLearning on students' performance in contrast with the traditional type of learning". Proceedings of E-Society for Nation Building and Empowerment, ISBN 978-93-84734-558, 7.
3. TashiLhamo and Malliga, P. (2017). "iSherig – Education ICT Master Plan for Nation Building". *Proceedings of E-Society for Nation Building and Empowerment*, ISBN 978-93-84734-558,10.

f) Papers published in Journals:

1. Rathy, G. A. and AravindBalaji (2017). Design of LabVIEW Based SCADA System for Pneumatics Applications. *International Journal of Scientific Research in Science and Technology*, 3(8), 148-154.
2. Ramesh Kumar, J. and Rajendran, R. (2017). Effect of Personal Variables on Work Life Balance among IT Employees in Chennai. *International Journal of Research in Commerce, IT & Management*, 7(11), 19-20.
3. Rathy, G. A. and Aravind Balaji (2018). Arduino Based 6DoF Robot using LabVIEW. *Journal of Advance Research, Ideas and Innovations in Technology*, 4(1), 354-358.
4. Rathy, G. A. and Aravind Balaji (2018). DC Variable Electronic load for SMPS Testing. *International Research Journal of Engineering and Technology*, 5(1), 1070-1074.
5. Ramesh Kumar, J. and Rajendran, R. (2018). Impact of Education and Work Environment on Quality of Work Life in IT Sector. *MIM International Journal of Management Research*,4(1), 43-49.
6. Rajendran, R. and Kathiravan, I. (2018). Impact of Carrier Development on Quality of Work Life in IT Sector. *International Journal of Research in Commerce, Economics and Management*, 7(7), 69-72.

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, DOTEs, Deemed Universities and Autonomous Engineering Colleges and Polytechnics either as members of Expert Committees or as Resource persons for workshops.

16.0 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 Ministry of External Affairs for supporting Overseas Training Courses (OTC);
- 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 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.

17.0 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 31.03.2018)

Chairman

Prof. Dr. Allam Appa Rao
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 (DL&BP)
Department of Higher Education
Ministry of Human Resource Development
Government of India
Shastri Bhavan, New Delhi - 110 001.

Joint Secretary and Financial Adviser (HRD)
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. Alok Prakash Mittal
Member-Secretary
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi - 110 001.

NITTTR Faculty Representative

Prof. Dr. S Dhanapal (From 01.04.2017 to 28.02.2018)
Professor & Head, Centre for Curriculum
Development, NITTTR, Chennai – 600 113.

Dr. T. Gnana Sambanthan (From 01.03.2018)
Professor & Head,
Department of Computer Science
& Engineering, 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
3'd and 4th Floor, Indrarati Bhawan
Naya Raipur, Chhattisgarh - 492 002.

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.

Two Industrialists/Technical
Professionals

Prof. Dr. A. Elayaperumal

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

B. FINANCE COMMITTEE

Chairman

Prof. Dr. Allam Appa Rao

Chairman – BoG of NITTTR, Chennai

Members

Joint Secretary (DL&BP)

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

Joint Secretary and Financial Adviser (HRD)

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

Member-Secretary

Prof. Dr. Sudhindra Nath Panda

Director
NITTTR, Taramani, Chennai -600 113.

C. SUB-COMMITTEES OF THE BOARD AND OTHER COMMITTEES

1. FACULTY SELECTION COMMITTEE [As per AICTE Norms]

Members

Chairman
Board of Governors
NITTTR, Chennai - 600 113.

Director
NITTTR, Chennai - 600 113.

Head of the Department/Centre NITTTR, Chennai or
Nominated by the Director in the rank of Professor

Three Subject Experts

An academician representing
SC/ST/OBC/Minority/Women/Differently abled categories
nominated by the Chairman of NITTTR, Chennai.

2. BUILDINGS COMMITTEE

Chairman

Dr. Selvi Rajan
Chief Scientist & Head
Wind Engineering Laboratory
CSIR - Structural Engineering Research Centre
Chennai - 600 113.

Members

Superintending Engineer
Central PWD
Chennai - 600 006.

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

Member-Secretary

Director
NITTTR, Chennai - 600 113.

3. DEPARTMENTAL PROMOTION COMMITTEE

Chairman Dr. C.R. Nagendra Rao
Professor & Head, ECV
NITTTR, Chennai - 600113.

Members Dr. P Malliga
Sr. System Analyst & Head i/c
NITTTR, Chennai - 600113.

Dr. K.S. Giridharan
Assistant Professor in Education
NITTTR, Chennai - 600 113.

External Member Dr. A. Muthukrishnan
Sr. Controller of Administration
CLRI, Chennai - 600 020.

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. T. Gnana sambanthan - **Chairman**
Professor & Head,
Department of Computer Science and
Engineering

Dr. P. Malliga, - **Member**
Sr. System Analyst & Head i/c
Centre for Educational Media and
Technology

Dr. G.A. Rathy - **Member**
Associate Professor and Head i/c
Department of Electrical, Electronics and
Communication Engineering

7. CHIEF VIGILANCE OFFICER

Dr. E.S.M. Suresh
Professor & Head
Department of Civil Engineering

8. PUBLIC INFORMATION OFFICER

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

9. COMMITTEE FOR PREVENTION OF SEXUAL HARASSMENT OF WOMEN AT WORK PLACE

Dr. S. Renukadevi - **Chairperson**
Professor & Head
Department of Engineering Education

Dr. S Dhanapal - **Chairman**
Professor & Head
Centre for Curriculum Development

Sr. Administrative Officer - **Member**
NITTTR, Chennai

Smt. R. Vanajakumari - **Member**
Senior P.A. to Director

10.PARTICULARS OF COMMITTEE MEETINGS

	No.	Date	Venue
Board of Governors	37 th	22.09.2017	MHRD - New Delhi
Finance Committee	36 th	22.09.2017	MHRD - New Delhi

11.LIST OF FACULTY

DIRECTOR	Prof. Dr. Sudhindra Nath Panda
Centre for Research and Consultancy	Prof. Dr. Sudhindra Nath Panda Director
Centre for Curriculum Development	Dr. S.Dhanapal (up to 28.02.2018) Professor & Head Dr. T. Gnana Sambanthan Professor & Head i/c (from 01.03.2018)
Centre for Environmental Management	Dr. G. Janardhanan Associate Professor & Head i/c
Centre for International Affairs	Dr. T. Jagathrakshakan Professor & Head (Demise on 23.07.2017) Dr. G. Janardhanan Associate Professor & Head i/c (From 24.07.2017)
Centre for Rural Development	Dr. R. Santhakumar Professor & Head Dr. K.S. Giridharan Assistant Professor
Centre for Educational Media and Technology	Dr. P. Malliga Sr. System Analyst & Head i/c Shri. A.P. Felix Arokiya Raj Assistant Professor
Department of Civil Engineering	Dr. E.S.M. Suresh Professor & Head Dr. K.S.A. Dinesh Kumar Assistant Professor

Department of Computer Science and Engineering

Dr. T. Gnana Sambanthan
Professor & Head

Dr. V. Shanmuganeethi
Assistant Professor

Department of Electrical, Electronics and Communication Engineering

Dr. G Kulanthaivel Professor
(Deputation to CPSC, Manila, Philippines
From 10.07.2014 to 31.03.2018)

Dr. G.A. Rathy
Associate Professor & Head i/c

Dr. P. Sivasankar
Assistant Professor

Department of Engineering Education

Dr. S. Renukadevi
Professor & Head

Department of Educational Management and Applied Psychology

Dr. R. Rajendran
Associate Professor & Head i/c

Department of Mechanical Engineering

Dr. T. Gnana Sambanthan
Professor and Head i/c (From 01.03.2018)

Er. M. Senthilkumar
Assistant Professor

Dr. S. Somasundaram
Assistant Professor

Extension Centre, Bengaluru

Dr. P. Arunkumar
Professor & Head (up to 31.05.2017)

Er. V. Sivakumar
Associate Professor & Head i/c (From 01.06.2017)

Extension Centre, Hyderabad

Er. Umasanker Sahu
Associate Professor & Head i/c

Extension Centre, Kalamassery

Er. Philip Kurian
Associate Professor & Head i/c (up to 31.01.2018)

Dr. S. Somasundaram
Assistant Professor & Head i/c (From 01.02.2018)

Extension Centre, Vijayawada

Dr. C.R. Nagendra Rao
Professor & Head

Resource Centre

Dr.R.Ravichandran
Sr. Librarian

HOSTEL

Warden

Prof. Dr. Sudhindra Nath Panda
Director

Deputy Warden

Dr. P. Malliga
Sr. System Analyst & Head i/c
Centre for Educational Media and Technology

Assistant Warden

Dr. S. Somasundaram
Assistant Professor
Dept. of Mechanical Engineering

Dr. K.S. Giridharan
Assistant Professor (up to 02.08.2017)
Centre for Rural Development

Dr. P. Sivasankar
Assistant Professor (From 02.08.2017)
Dept. of Electrical, Electronics and
Communication Engineering

Table 2: Overseas Training Courses, 2017 – 2018

Sl. No.	Title of the Course	Duration	Batch	No. of Participants 2017-2018	No. of participants trained since inception	No. of countries represented	Course Co-ordinator(s)
1.	IT, Web Designing, English Communication Skills and Pedagogy	03.05.2017 to 24.06.2017	III	39	116	1 (Bangladesh)	Dr. G. Janardhanan Dr. V. Shanmuganeethi
2.	TVET Institute Management for Bhutan	22.05.2017 to 02.06.2017	I	30	30	1 (Bhutan)	Dr. P. Arunkumar Er. V. Sivakumar
3.	Economic Workforce Planning for Bhutan	22.05.2017 to 02.06.2017	I	30	30	1 (Bhutan)	Dr. P. Arunkumar Er. V. Sivakumar
4.	Women Empowerment through Technical and Vocational Education	26.07.2017 to 19.09.2017	XI	10	114	7	Dr. S. Renukadevi
5.	Educational Media Production for E-Learning	26.07.2017 to 19.09.2017	III	19	60	13	Dr. P. Malliga
6.	Information and Communication Technology (ICT) for Rural Development and Management	26.07.2017 to 19.09.2017	I	7	7	6	Dr. R.Santhakumar Dr. K.S. Giridharan
7.	Spatial Information Technology for Urban Planning and Management	27.09.2017 to 21.11.2017	IV	13	50	9	Dr. E.S.M. Suresh Dr. K.S.A. Dinesh Kumar
8.	Sustainable Development and Environmental Management	27.09.2017 to 21.11.2017	VIII	17	144	12	Dr. G. Janardhanan
9.	Design of Educational Applications using Web Technologies	27.09.2017 to 21.11.2017	I	16	16	11	Dr. V. Shanmuganeethi
10.	Curriculum Design and Instructional Materials Development	29.11.2017 to 23.01.2018	XXXVI	18	641	12	Dr. S. Dhanapal
11.	Modern Library Practices	29.11.2017 to 23.01.2018	X	25	226	16	Dr. R. Ravichandran
12.	Information and Communication Technology in Education and Training	01.02.2017 to 28.03.2018	V	28	91	19	Dr. V. Shanmuganeethi
Total				252	1525		

Table 9: Seminar/Conference/Symposium/Workshops, 2017 – 2018

Sl. No.	Title	National/ International	Seminar/Symposium/Conference/ Workshops	Duration	Venue	No. of Participants	Co-ordinator(s)	Inaugurated by
1.	Further Education Leadership Development Programme	National	Workshop	28.06.2017 to 30.06.2017	NITTTR Chennai	50	Dr. K. S. Giridharan	Dr.Usha Natesan, Advisor, AICTE, New Delhi.
2.	KOHA: An Open Source Integrated Library Management Software	National	Workshop	14.08.2017 to 18.08.2017	NITTTR Chennai	14	Dr. R. Ravichandran	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR, Chennai
3.	MOOC Pedagogy and Media Competencies for E-Learning	International	Seminar	28.08.2017	Sri Sai Ram Engineering College, Chennai	240	Dr. P. Malliga	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR, Chennai
4.	Rural Technologies and Management for Sustainable Development	International	Seminar	30.08.2017	Gandhigram Rural Institute (GRI), Dindigul	100	Dr. K. S. Giridharan	Dr. S. Natarajan, Vice-Chancellor The Gandhigram Rural Institute (Deemed to be University) Gandhigram, Dindigul
5.	E-Society for Nation Building and Empowerment	International	Seminar	06.09.2017.	Manonmaniam Sundaranar University, Tirunelveli	186	Dr. S. Renukadevi Prof. Dr. Rajamannar	Dr. K. Baskar, Vice –Chancellor, Manonmaniam Sundaranar University, Tirunelveli
6.	Arm Cortex M4 programming	National	Workshop	05.10.2017 to 07.10.2018	NITTTR Chennai	12	Dr. G.A. Rathy Dr. P. Sivasankar	Prof. Rajasekaran, Professor / EIE Dept. Karunya University, Coimbatore.
7.	Innovations in Science, Technology and Management towards Sustainability	International	Conference	10.11.2017	PSR Engineering college, Sivakasi, Tamilnadu	250	Dr. V. Shanmuganeethi	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR, Chennai
8.	Trends in Urban Planning, Sustainable Development and Environment Management	International	Seminar	15.11.2017	SRM (Deemed to be University), Kattangulathur	150	Dr. E.S.M. Suresh Dr. G. Janardhanan Dr. K.S.A. Dinesh Kumar	Prof. Dr. Sudhindra Nath Panda, Director, NITTTR, Chennai

Sl. No.	Title	National/ International	Seminar/Symposium/Conference/ Workshops	Duration	Venue	No. of Participants	Co-ordinator(s)	Inaugurated by
								Dr. C.Muthamizhchelvan, Director, Engineering and Technology, SRM Institute of Science and Technology.
9.	Innovation and Development in Engineering Education	International	Symposium	16.11. 2017	NITTTR Chennai	87	Dr. S. Renukadevi	Mr. Saravanan Sundaramoorthy, Founder & CEO, Edsix Brain Lab Private Limited, Chennai
10.	Recent Trends in Education and Information Science	International	Seminar	06.01.2018	Karunya Institute of Technology and Sciences, Karunaya Nagar, Coimbatore	82	Dr. S. Dhanapal Dr. R. Ravichandran	Dr. Ridling Margaret Waller, Pro Vice Chancellor, Karunya Institute of Technology and Science (Deemed to be University) Karunya Nagar, Coimbatore
11.	Raspberry PI Based Industrial Application with IOT Technology	National	Workshop	04.01.2018 to 06.01.2018	NITTTR Chennai	44	Dr. G.A. Rathy	Dr. S. Arumuga Perumal, Asso. Professor & Head, Dept. of Computer Science and Research, South Travancore Hindu College, Nagercoil. Chairman, IETE-Thiruvananthapuram,
12.	Managing Water for Sustainable Agriculture	National	Seminar	28.02.2018.	NITTTR Chennai	35	Prof. Dr. Sudhindra Nath Panda Dr. G. Janardhanan Dr. K.S.A. Dinesh Kumar	Prof. Dr. Allam Appa Rao, Chairman, BoG, NITTTR Chennai
13.	Accreditation and Gender Sensitivity in TVET Systems	International	Seminar	08.03.2018.	NITTTR Chennai	100	Dr. S. Renukadevi Dr. G. Kulanthaivel	Ms. Malini Saravanan, Deputy General Manager (HR), Express Publications, Chennai
Total						1350		

b) Training Programmes/Seminar/Conference and Workshop attended by Faculty Members:

Table 18: Training Programmes / Seminar / Conference and Workshops attended

Sl. No.	Title	Workshop / Seminar / FDP / Course /GIAN /Training Programme	National / International	Duration	Venue	Faculty who attended
1.	Certified Psychometric Test Professional	Workshop	Regional	29.04.17 to 30.04.17	Quality Inn Sabari, Chennai	Dr. S. Renukadevi
2.	Siemens Education Day	Seminar	National	04.08.17	Wextion, Chennai	Dr. G.A. Rathy
3.	Master class on waste water treatment and recycling	Training Programme	International	02.05.17 to 03.05.17	TUV SUB Asia Pacific Pvt. Ltd., Chennai	Dr. G.Janardhanan
4.	Practical Analysis of Environmental data with open source	GIAN course	International	05.02.18 to 09.02.18	NIT, Surathkal	Dr. G. Janardhanan Dr. K.S.A. DineshKumar
5.	Theory and Technology of Silicon Solar Cell	Training Programme	National	18.09.17 to 20.09.17	IIT, Bombay	Er. M. Senthilkumar
6.	Unconventional Machining Processes	Faculty Development Programme	Regional	04.12.17 to 11.12.17	MIT, Chennai	Dr. S. Somasundaram
7.	Master class on waste water treatment and recycling	Training Programme	International	02.05.17 to 03.05.17	TUV SUB Asia Pacific Pvt. Ltd., Chennai	Dr. K.S.A. DineshKumar
8.	Knowledge Organization, Library and Information Management	Conference	International	23.10.17 To 25.10.17	IIT, Madras, Chennai	Dr. R. Ravichandran
9.	Open Source Software for Library Management	Workshop	International	12.06.17 to 17.06.17	IIT Kharagpur	Dr. R. Ravichandran

PART - II

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

**ANNUAL ACCOUNTS
2017-18
[REVISED]**

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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113
BALANCE SHEET AS AT 31.03.2018

SOURCES OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2017-18	Previous Year 2016-17
CORPUS/CAPITAL FUND	1	403231607.52	258664276.03
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	360151.00	360151.00
CURRENT LIABILITIES & PROVISIONS	3	254996575.97	310344919.43
TOTAL		658588334.49	569369346.46

APPLICATION OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2016-17	Previous Year 2016-17
FIXED ASSETS	4	246500559.00	233749516.00
Tangible Assets			
Intangible Assets			
Capital Works-In-Progress			
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5		
Long Term			
Short Term			
INVESTMENTS- OTHERS	6		
CURRENT ASSETS LOANS	7	93882477.49	248406593.46
ADVANCES & DEPOSITS	8	318205298.00	89912916.00
TOTAL		658588334.49	572069025.46

SIGNIFICANT ACCOUNTING POLICIES

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

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

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31.03.2018

		Amount in Rs.	
Particulars	Schedule	Current Year 2017-18	Previous Year 2016-17
INCOME:			
Academic Receipts	9	753150.00	744900.00
Grants / Subsidies	10	248966022.46	158964281.57
Income from investments	11	83220.00	5262400.00
Interest earned	12	38317.00	42003.00
Other Income	13	6075313.49	8134957.84
Increase/Decrease in Stock WIP			
Prior Period Income	14	222687.00	0.00
TOTAL (A)		256138709.95	173148542.41
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	195905384.00	139946212.00
Academic Expenses	16	0.00	0.00
Administrative and General Expenses	17	15325474.46	11788053.39
Transportation Expenses	18	249524.00	268804.00
Repairs & Maintenance	19	2849694.00	2146785.00
Finance costs	20	0.00	0.00
Depreciation	4	9822049.00	7169023.00
Other Expenses	21	0.00	0.00
Prior Period Expenses	22	1153734.00	0.00
Plan General Expenses	23	34635946.00	22323585.57
TOTAL (B)		259941805.46	183642462.96
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		-3803095.51	-10493920.55

Significant Accounting Policies

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Contingent Liabilities and Notes to Accounts

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SCHEDULE -1 CORPUS/CAPITAL FUND

		Amount in Rs.	
Particulars		Current Year 2017-18	Previous Year 2016-17
	Balance at the beginning of the year	258664276.03	201629248.58
Add:	Contributions towards Corpus/Capital Fund		
Add:	Grants from UGC, Government of India and State Government to the utilized for capital expenditure	149176456.00	67528948.00
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	93,282.00	
Add:	Outstanding Expenses 2016-17 Opening Diff	407934014.03	269158196.58
	Total		
Less:	Over statement of accrued interest FY 2016-17	-899311.00	
	Plan Grant Revenue Expenditure		
Add:	Excess of Income over expenditure transferred from the Income & Expenditure Account	-3803095.51	-10493920.55
	Total	403231607.52	258664276.03
	(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 FW	Total		
				Current Year	Previous Year	
A.						
a) Opening Balance	293029.00	43100.00	24022.00	360151.00	360151.00	
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)	293029.00	43100.00	24022.00	360151.00	360151.00	
B.						
Utilisation/Expenditure towards objectives of funds						
i) Capital Expenditure						
ii) Advance to CPWD						
ii) Revenue Expenditure						
Total (B)	0.00	0.00	0.00	0.00	0.00	0.00
Closing balance at the year end (A - B)	293029.00	43100.00	24022.00	360151.00	360151.00	
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. SI.No	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		Expenditure on the object during the year	Closing Balance		Total (10+11)
		3	4	5	6	7	8		9	10	
			Accumulated Interest	Endowment	Interest	Endowment (3+5)	Accumulated Interest (4+6)		Endowment	Accumulated Interest	
	Total										

Amount in Rupees

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 2017-18	Previous Year - 2016-17
A. CURRENT LIABILITIES		
1. Deposits from Staff		
Caution Deposit for staff Quarters	70,000.00	70,000.00
Staff Quarters	241,582.00	41,582.00
2. Deposits from Students		
Caution Deposit for Ph.D	25,500.00	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
Emerging Area Course Fees Refundable	2,000.00	2,000.00
3. Sundry Creditors		
a) For Goods & Service	81,889.00	81,889.00
Cofmow Equipments	2,731.00	2,731.00
Tamil Nadu Book House		
b) Others	711,034.00	291,298.00
4. Deposit- Others (including EMD, Security Deposit)		
AICTE UKIERI Work shop		
Earnest Money Deposit	831,245.00	469,245.00
Community Hall Deposit	56,482.00	41,285.00
Caution Deposit for Canteen	8,000.00	8,000.00
Security Deposit	708,051.00	483,751.00
GSLIS		10,971.00
5. Statutory liabilities (GPF, TDS WC TAX, CPF, GIS, NPS):		
a) Overdue		
b) Others		
Property Tax Payable	130,382.00	130,382.00
Duties and Taxes	268,109.00	25,911.00

6. Other Current Liabilities			
a) Salaries			44,497,531.00
b) Receipts against Sponsored Projects OTC		35,544,563.00 8,214,248.00	8,214,248.00
Project Account 2013-14			
c) Receipts against sponsored fellowships & Scholarships			
d) Unutilised Grants		190,909,637.97	195,452,116.43
e) Grants in advance			
f) Other funds : Corpus Fund		1,294,000.00	104,000.00
g) SWAYAM Sponsored Projects		1,546,461.00	49,500,000.00
h) Other Liabilities :			
IDDS		2,070,185.00	686,399.00
CPSC			31,921.00
NIWE		112,998.00	112,998.00
SP-02 IM&ID Anna U		55,863.00	
TNSCB PROG		881,290.00	
Training BHUTAN Pro		583,466.00	
Total (A)		244,787,071.97	300,721,113.43
B. PROVISIONS			
1. For Taxation			
2. Gratuity			
3. Superannuation Pension			
4. Accumulated Leave Encashment			
5. Trade Warranties /Claims			
6. Outstanding Expenses:			
Staff Salary		6,851,720.00	6,503,587.00
Pension Payments		3,357,784.00	3,041,252.00
Vehicle Maintenance		-	3,570.00
Electrical Maintenance		-	5,657.00
Audit Fees Payable		-	69,740.00
Total (B)		10,209,504.00	9,623,806.00
Total (A+B)		254,996,575.97	310,344,919.43

SCHEDULE - 3 (a) SPONSORED PROJECTS

1. Sl. No.	2. Name of the Project	Opening Balance on 1.4.2017		5. Receipts/ Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance on 31.3.2018	
		3. Credit	4. Debit				8. Credit	9. Debit
			IDDS				686,399.00	
	CPSC	31,921.00			31,921.00	48,350.00	(16,429.00)	
	NIWE PROGRAMME	112,998.00			112,998.00		112,998.00	
	SP-02 IM&ID Anna U			55,863.00	55,863.00		55,863.00	
	TNSCB PROG			881,290.00	881,290.00		881,290.00	
	Training BHUTAN Pro			583,466.00	583,466.00		583,466.00	
	SWAYAM PROJECT	49,500,000.00			49,500,000.00	49,500,000.00	-	
	Total	50,331,318.00		3,091,605.00	53,422,923.00	235,550.00	3,687,373.00	-

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. SI No	2. Name of Sponsor	Amount in Rupees					
		Opening Balance As On 01.04.2017		Transactions During the year		Closing Balance As On 31.03.18	
		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 2017-18	Previous Year 2016-17
A. Plan grants: Government of India		
Balance B/F		
Add: Receipts during the year		
Total (a)		
Less Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital expenditure		
Total(b)		
Unutilized carried forward (a-b)		
B. UGC grants: Plan		
Balance B/F		
Receipts during the year		
Total (c)		
Less Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for capital expenditure		
Total (d)		
Unutilized carried forward (c-d)		

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

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	Gross Block			Depreciation for the Year 2017-18			Net Block			
		Op Balance 01.04.2017	Additions	Deductions	Closing Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.18	31.03.17
1	Land :Free Hold	268500			268500	0		0	0	268500	268500
2	Site Development				0	0		0	0	0	0
3	Buildings	64022516	133127853		197150369	12419056	3943007	16362063	193207362	64022516	64022516
4	Roads & Bridges				0			0	0	0	0
5	Tubewells & Water Supply				0			0	0	0	0
6	Sewerage & Drainage				0			0	0	0	0
7	Electrical Installation and equipment	89916			89916	38882	4496	43378	85420	89916	89916
8	Plant & Machinery	10842442			10842442	4636275	542122	5178397	10300320	10842442	10842442
9	Scientific & Laboratory Equipment				0	0		0	0	0	0
10	Office Equipment	11918903	7142011		19060914	1810848	1429569	3240417	17631345	11918903	11918903
11	Audio Visual Equipment				0	0		0	0	0	0
12	Computers & Peripherals	8214964	2811483		11026447	7590495	2205289	9795784	8821158	8214964	8214964
13	Furniture, Fixtures & Fittings	4449298	566504		5015802	1592766	376185	1968951	4639617	4449298	4449298
14	Vehicles	235631			235631	166429	23563	189992	212068	235631	235631
15	Lib. Books & Scientific Journals	1968368			1968368	1275241	196837	1472078	1771531	1968368	1968368
16	Smart Classroom				0	0		0	0	0	0
17	Small Value Assets	3006369	333270		3339639	932989	250473	1183462	3089166	3006369	3006369
	Total (A)	105016907	143981121	0	248998028	30462981	8971541	39434522	240026487	105016907	105016907
18	Capital Work in Progress										
	Class Room Construction WIP	121204006		121204006	0			0	0	121204006	121204006
	Building Renovation WIP	2699679		2699679	0				0	2699679	2699679
	Computers-WIP	0	4744720		4744720				4744720	2699679	2699679
	Total (B)	123903685	4744720		4744720				4744720	126603364	126603364
S.No.	Intangible Assets	Op Balance 01.04.2017	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.18	31.03.17
19	Computer Software	2126269			2126269	1,417,512.00	850508		2268020	1275761	2126269
20	E-Journals	2976	450615		453591					453591	2976
21	Patents										
	Total (C)	2129245	450615		2579860	1,417,512.00	850508	0	2268020	1729352	2129245
	Grand Total (A+B+C)	231049837	149176456	0	256322608	31,880,493.00	9822049	0	41,702,542.00	246500559	233749516

Note: The figure in Column "Deductions" under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year. The figures in column "Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

SCHEDULE 4A PLAN

Amount in Rupees

Sl. No.	Assets Heads	Gross Block				Depreciation for the Year 2015-16				Net Block	
		Op Balance 01.04.2017	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.2018	31.03.2017
1	Land										
2	Site Development										
3	Buildings										
4	Roads & Bridges										
5	Tubewells & Water Supply										
6	Sewerage & Drainage										
7	Electrical Installation and equipment.										
8	Plant & Machinery										
9	Scientific & Laboratory Equipment				Nil						
10	Office Equipment										
11	Audio Visual Equipment										
12	Computers & Peripherals										
13	Furniture, Fixtures & Fittings										
14	Vehicles										
15	Lib. Books & Scientific Journals										
16	Small Value Assets										
Total (A)											
17	Capital Work in Progress (B)										
S.No	Intangible Assets	Op Balance 01.04.2016	Additions	Deductions	CI Balance	Dep Opening Balance	Amortization for the Year	Deductions/ Adjustments	Total Amortization/ Adjustments	31.03.18	31.03.17
18	Computer Software										
19	E-Journals				Nil						
20	Patents										
Total (C)											
Grand Total (A+B+C)											

SCHEDULE 4A PLAN

Amount in Rupees

Sl. No.	Assets Heads	Gross Block			Depreciation for the Year 2015-16			Net Block		
		Op Balance 01.04.2017	Additions	Deductions	Cl Balance	Dep Opening Balance	Depreciations / Adjustments	Total Depreciation	31.03.2018	31.03.2017
1	Land									
2	Site Development									
3	Buildings									
4	Roads & Bridges									
5	Tubewells & Water Supply									
6	Sewerage & Drainage									
7	Electrical Installation and equipment									
8	Plant & Machinery									
9	Scientific & Laboratory Equipment				Nil					
10	Office Equipment									
11	Audio Visual Equipment									
12	Computers & Peripherals									
13	Furniture, Fixtures & Fittings									
14	Vehicles									
15	Lib. Books & Scientific Journals									
16	Small Value Assets									
Total (A)										
Capital Work in Progress (B)										
S.No	Intangible Assets	Op Balance 01.04.2016	Additions	Deductions	Cl Balance	Dep Opening Balance	Deductions/ Adjustments	Total Amortization/ Adjustments	31.03.18	31.03.17
18	Computer Software									
19	E-Journals				Nil					
20	Patents									
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 01.4.2017	Additions	Deductions	Cl. Balance	Depreciation/ Amortizations Opening Balance	Depreciation/ Amortization for the year	Deductions/ Adjustment	Total Depreciation/ Amortization	31.03.18	31.03.17
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 2017-18	Net Block 2016-17
A. Patents Granted			Nil			
1 Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs..../-) 2						
Balance as on 31.03.14 of Patents obtained in 2010-11 (Original Value-Rs..../-) 3 Balance						
as on 31.03.14 of Patents obtained in 2012-13 (Original Value - Rs..../-) 4 Patents granted during the Current Year						
Total						

Particulars	Op. Balance	Addition	Gross	Patents Granted/Rejected	Net Block 2017-18	Net Block 2016-17
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 2017-18				Net Block	
		Op Balance 01.04.2017	Additions	Deductions	C I Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.18	31.03.17
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 2017-18	Previous Year 2016-17
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 (2017-18)	Previous Year (2016-17)
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 2017-18	Previous Year 2016-17
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 2017-18	Previous Year 2016-17
1. Stock:			
a) Stores and Spares			
b) Loose Tools			
c) Publications			
d) Laboratory chemicals, consumables and glass ware			
e) Building Material		6,376.00	6,376.00
f) Electrical Material		101,200.00	101,200.00
g) Stationery			
h) Water supply material			
i) Postage		12,658.00	12,658.00
2. Sundry Debtors:			
a) Debts Outstanding for a period exceeding six months			
b) Others :		33,240.00	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)		71,447.00	
In Bank Balance		64,403,257.32	218,999,970.29
In Bank Balance Rajiv Gandhi National Fellowship		4,605.90	4,490.90
In Bank Balance Athletic		26,643.27	25,608.27
Fund Transfer			
AXIS Bank OTC Transfer		11,876,994.00	11,876,994.00
CANARA Bank OTC Transfer		17,346,056.00	17,346,056.00
b) With non-Scheduled Banks:			
- In term deposit Accounts			
- In Savings Accounts			
4. Post Office- Savings Accounts			
TOTAL		93,882,477.49	248,406,593.46

Note: Annexure A shows the details of Bank Accounts

ANNEXURE - A

Amount in Rupees

I. Savings Bank Accounts	
1 Grants from UGC A/c	
2 University Receipts A/c	
3 Scholarship A/c	
4. Academic Fee Receipt A/c	
5. Development (Plan) A/c	
6. Combined Entrance Exams(CBT) A/C	
7. UGC Plan Fellowship A/c	
8. Corpus Fund A/c (EMF)	
9. Sponsored Projects Fund A/c	
10. Sponsored Fellowship A/c	
11. Endowment & Chair A/c (EMF)	
12. UGC JRF Fellowship A/c (EMF)	
13. HBA Fund A/c (EMF)	
14. Conveyance A/c (EMF)	
15. UGC Rajiv Gandhi National Fellowship A/C (EMF)	
16. Academic Development Fund A/c (EMF)	
17. Deposit A/c	
18. Student Fund A/c	
19. Student Aid Fund A/c	
20. Plan Grants for specific schemes	
II. Current Account	
III. Term Deposits with Schedule Banks	
Total	

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

		Amount in Rupees	
		Current Year 2017-18	Previous Year 2016-17
1. Advances to employees: (Non-interest bearing)			
a) Salary			
b) Festival		189,199.00	255,349.00
c) Medical Advance		13,080.00	374,502.00
d) Other (to be specified)			
Computer Advance		197,000.00	371,800.00
Conveyance Advance		138,590.00	236,330.00
Flood Loan Advance		12,200.00	131,000.00
Persons with Disabilities		13,893.00	13,893.00
Loan to PF a/c		50,000.00	
2. Long Term Advances to employees: (Interest bearing)			
a) Vehicle loan			
b) Home loan : House building advance		93,609.00	145,633.00
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		431,100.00	337,100.00
c) Temporary Advance		318,300.00	221,200.00
d) Entrepreneurship prog		229,977.00	-
e) Others :		92,242.00	92,242.00
f) Advances to suppliers :			
4. Prepaid Expenses			
a) Insurance			46,607.00
b) E Journal Subscription			450,615.00
c) AMC Lab and Office Equipment			186,913.00

5. Deposits			
a) Telephone	93,308.00		93,308.00
b) Lease Rent			
c) Electricity			
d) AICTE, if applicable			
e) Others (to be specified)			
Community Hall Deposit	673.00		900.00
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		20,000.00
Deposit with CPWD	177,926,194.00		81,574,243.00
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		936,688.00
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	83,220.00		2,403,732.00

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			
AICTE Summer School			
AICTE Winter School			
National Ws on KOHA	33,228.00		
Board of Apprentices Training	1,968.00		1,968.00
GSLIS	27,689.00		
c) Grants Receivable	135,650,000.00		
d) Other : CPSC	16,429.00		
E) Income receivable	122,506.00		
8. Claims Receivable			
TOTAL	318,205,298.00		89,912,916.00

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 2017-18	Previous Year 2016-17
FEES FROM STUDENTS		
Academic		
1. Tuition fee Ph D	230,500.00	470,500.00
Tuition fee M. Tech		
2. Admission fee Ph D	26,000.00	6,000.00
Admission fee M.Tech		
3. Enrolment fee/Course Fees	496,650.00	60,000.00
4. Library Admission fee		
5. Laboratory fee		
6. Art& Craft fee		
7. Registration fee		
8. Syllabus fee		
	Total (A)	536,500.00
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			
3. Medical fee			
4. Transportation fee			
5. Hostel fee			
Total (C)		-	-
Sale of Publications			
1. Sale of Admission/Application forms			5,500.00
2. Sale of syllabus and Question Paper, etc.			
3. Sale of prospectus including admission forms			
Total (D)		-	5,500.00
Other Academic Receipts			
1. Registration fee for workshops, programmes			
2. Registration fees (Academic Staff College)			
3. IDDI Receipts			202,900.00
Total (E)		-	202,900.00
GRAND TOTAL (A+B+C+D+E)		753,150.00	744,900.00

Note:

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

SCHEDULE 10 - GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in Rupees

Particulars	PLAN GOI			Total Plan	NON PLAN GOI			Total Non Plan	Current Year Total 2017-18	Previous Year Total 2016-17
	UGC	Plan Capital	Plan General		UGC	Non Plan Salary	Non Plan General			
Balance B/F		138,650,324.00	14,132,184.43	152,782,508.43		54,327,033.00	(11,657,425.00)	42,669,608.00	195,452,116.43	159,345,346.00
Add: Receipts during the year		78,750,000.00	193,850,000.00	272,600,000.00		111,500,000.00	9,500,000.00	121,000,000.00	393,600,000.00	262,600,000.00
Total		217,400,324.00	207,982,184.43	425,382,508.43		165,827,033.00	(2,157,425.00)	163,669,608.00	589,052,116.43	421,945,346.00
Less: Refund to UGC										
Balance		217,400,324.00	207,982,184.43	425,382,508.43		165,827,033.00	(2,157,425.00)	163,669,608.00	589,052,116.43	421,945,346.00
Less: Utilised for Capital expenditure (A)		149,176,456.00		149,176,456.00				-	149,176,456.00	67,528,948.00
Balance		68,223,868.00	207,982,184.43	276,206,052.43		165,827,033.00	(2,157,425.00)	163,669,608.00	439,875,660.43	354,416,398.00
Less: utilized for Revenue Expenditure (B)			53,060,638.46	53,060,638.46		195,905,384.00		195,905,384.00	248,966,022.46	158,964,281.57
Balance C/F (C)		68,223,868.00	154,921,545.97	223,145,413.97		(30,078,351.00)	(2,157,425.00)	(32,235,776.00)	190,909,637.97	195,452,116.43

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

Amount in Rupees

Particulars	Earmarked / Endowment Funds		Other Investments	
	Current Year 2017-18	Previous Year 2016-17	Current Year 2017-18	Previous Year 2016-17
1. Interest				
a. On Government Securities				
b. Other Bonds/Debentures				2,858,668.00
2. Interest on Term Deposits/SFD			83,220.00	2,403,732.00
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees				
4. Interest on Savings Bank Accounts				
5. Others:				
Total			83,220.00	5,262,400.00
Transferred to Earmarked/Endowment Funds				
Balance	Nil	Nil		

Note: Interest accrued but not due on Term Deposits from HBA fund, conveyance advance fund and Computer Advance fund 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

Amount in Rupees

Particulars	Current Year 2017-18	Previous Year 2016-17
1. On Savings Accounts with scheduled banks	2,549.00	1,172.00
2 On Loans		
a. Employees/Staff		
b. Others : i) Interest on Conveyance Advance	14,670.00	16,550.00
ii) Interest on Computer Advance	21,098.00	24,281.00
3. On Debtors and Other Receivables		
Total	38,317.00	42,003.00

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 2017-18	Previous Year 2016-17
A. Income from Land & Buildings			
1.	Hostel Room Rent	366,053.00	101,060.00
2.	License fee	434,361.00	139,495.00
3.	Hire Charges of Auditorium/Play ground/Convention Centre, etc		
4.	Electricity charges recovered		
5.	Water charges recovered		
6.	Tender Fees	5,600.00	
7.	Staff Quarters Rent	1,456,919.00	1,082,288.00
8.	Guest House Room Rent	88,200.00	5,237,185.00
9.	Rent for Institute Premises		
10.	Community Hall Rent		5,320.00
	Total	2,351,133.00	6,565,348.00
B. Sale of institute's publications			
1.	Sale of Books and CD's	101,832.00	9,300.00
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		
	Less: Direct expenditure incurred on the fetes		
3.	Gross Receipts for educational tours		
	Less: Direct expenditure incurred on the tours		
4.	Others : Remn to institute Faculty staff	75,000.00	
	Institute Overhead Project		
	Faculty Development Prog	151,100.00	
	IDDS		
	Misc Revenue Receipts	1,045,422.03	835,712.75
	Total	3,724,487.03	7,410,360.75

D. Others	Current Year 2017-18	Previous Year 2016-17
1. Income from consultancy		
2. RTI fees		50.00
3. Income from Royalty	1,676.46	281,661.09
4. Sale of application form (recruitment)		
5. Misc. receipts (Sale of tender form, waste paper, etc.)		
Machinery scrap items	864,000.00	
6. Profit on Sale/disposal of Assets		
a) Owned assets		185,000.00
b) Assets received free of cost		
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations		
8. Others (specify)		
STD		
Training Programme for Bhutan Participants	1,300,000.00	
AICTE UKIERI Workshop	185,150.00	257,886.00
6th PCP Pay Recovery Salary		
Total	2,350,826.46	724,597.09
Grand Total (A+B+C+D)	6,075,313.49	8,134,957.84

SCHEDULE 14 - PRIOR PERIOD INCOME

Particulars	Amount in Rupees	
	Current Year 2017-18	Previous Year 2016-17
1. Academic Receipts		
2. Income from Investments		
3. Interest earned		
4. Other Income	222,687.00	
Total	222,687.00	-

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

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

	Amount in Rupees					
	Current Year 2017-18			Previous Year 2016-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Salaries and Wages	-	118,462,125.00	118,462,125.00		83,268,271.00	83,268,271.00
b) Allowances and Bonus(Adhoc Bonus)		19,285.00	19,285.00		606,405.00	606,405.00
c) Contribution to Provident Fund			-			-
d) Contribution to Other Fund (specify)			-			-
e) Staff Welfare Expenses			-			-
f) Retirement and Terminal Benefits			-			-
g) LTC facility		208,137.00	208,137.00		413,267.00	413,267.00
h) Medical facility/Reimbursement		2,350,637.00	2,350,637.00		2,348,809.00	2,348,809.00
i) Children Education Allowance		367,811.00	367,811.00		553,799.00	553,799.00
j) Others			-			-
1) Others: Professional Development Allowance		626,275.00	626,275.00		484,085.00	484,085.00
TOTAL		122,034,270.00	122,034,270.00		87,674,636.00	87,674,636.00

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

Amount in Rupees

	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on 1.4.2017				
Addition: Capitalized value of Contributions Received from other Organizations				
Total (a)				
Less: Actual Payment during the Year (b)	51,551,460.00	4,790,273.00	5,515,332.00	61,857,065.00
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	1,507,217.00			1,507,217.00
C. Medical Reimbursement to Retired Employees				-
D. Travel to Hometown on Retirement				-
E. Deposit Linked Insurance Payment				-
F. Commutation of Pension	9,193,654.00			9,193,654.00
G. Leave salary and pension contribution	1,313,178.00			1,313,178.00
Total (A+B+C+D+E)	63,565,509.00	4,790,273.00	5,515,332.00	73,871,114.00

Note:

1. The total (A+B+6+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 2017-18			Previous Year 2016-17		
	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						
1) Others (specify)						
TOTAL		-	-		-	-

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

Amount in Rupees

	Current Year 2017-18			Previous Year 2016-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure						
a) Electricity and power		4,025,733.80	4,025,733.80		3,847,507.00	3,847,507.00
b) Water charges		1,821,341.00	1,821,341.00		829,244.00	829,244.00
c) Insurance			-			-
d) Rent, Rates and Taxes (including property tax)			-			-
Property Tax			-			-
Service Tax			-			-
Water Tax		55,706.00	55,706.00		27,010.00	27,010.00
B Communication						
e) Postage and Stationery		136,214.00	136,214.00		89,924.00	89,924.00
f) Telephone, Fax and Internet Charges		381,213.46	381,213.46		426,459.00	426,459.00
C Others						
g) Printing and Stationery (consumption)			-			-
h) Travelling and Conveyance Expenses		1,590.00	1,590.00		8,707.00	8,707.00
i) Hospitality			-			-
j) Auditors Remuneration		98,270.00	98,270.00		69,740.00	69,740.00
k) Professional Charges : Legal Charges		492,100.00	492,100.00		219,000.00	219,000.00
l) Advertisement and Publicity		89,004.00	89,004.00		68,334.00	68,334.00
m) Magazines & Journals			-			-
n) Others : Repairs		341,278.00	341,278.00			-
Contingencies		2,852,529.20	2,852,529.20		1,542,488.39	1,542,488.39
Security Charges		5,030,495.00	5,030,495.00		4,643,835.00	4,643,835.00
Misc Expenditure :			-			-
UNIFORM					15,805.00	
TOTAL		15,325,474.46	15,325,474.46		11,788,053.39	11,772,248.39

SCHEDULE 18- TRANSPORTATION EXPENSES

Particulars	Amount in Rupees					
	Current Year 2017-18			Previous Year 2016-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)			-			-
a) Running expenses			-			-
b) Repairs & maintenance		249,524.00	249,524.00		268,804.00	268,804.00
c) Insurance expenses			-			-
2 Vehicles taken on rent/lease			-			-
a) Rent/lease expenses			-			-
3 Vehicle (Taxi) hiring expenses			-			-
Total		249,524.00	249,524.00		268,804.00	268,804.00

SCHEDULE 19 - REPAIRS & MAINTENANCE

Particulars	Amount in Rupees					
	Current Year 2017-18			Previous Year 2016-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings			-			-
b) Furniture & Fixtures			-			-
c) Plant & Machinery			-			-
d) Office Equipment : A C			-		305,720.00	305,720.00
e) Computers			-			-
f) Laboratory & Scientific equipment			-			-
g) Audio Visual equipment			-			-
h) Cleaning Material & Services			-			-
i) Book binding charges			-			-
j) Gardening			-			-
k) Estate Maintenance			-			-
l) Others : Guest House Expenditure		-	-		338,980.00	338,980.00
m) Electrical Maintenance		2,849,694.00	2,849,694.00		1,252,371.00	1,252,371.00
n) Hostel Expenditure			-		249,714.00	249,714.00
TOTAL		2,849,694.00	2,849,694.00		2,146,785.00	2,146,785.00

SCHEDULE 20 - FINANCE COSTS

Amount in Rupees

Particulars	Current Year 2017-18		Previous Year 2016-17	
	Plan	Non Plan	Plan	Non Plan
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 2017-18			Previous Year 2016-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision for Bad and Doubtful Debts/Advances						
b) Irrecoverable Balances Written - off						
c) Grants/Subsidies to other institutions/organizations						
d) Others (specify)						
Total	-	-	-	-	-	-

Note:-

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

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in Rupees

Particulars	Current Year 17-18			Previous Year 16-17		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses						
2 Academic expenses						
3 Administrative expenses						
4 Transportation expenses						
5 Repairs & Maintenance		1,153,734.00				
6 Other expenses						
Total	-	1,153,734.00	-	-	-	-

SCHEDULE 23: PLAN GENERAL EXPENSES

	Particulars	CY 2017-18	CY 2016-17
	Plan General Expenditure:		
	Staff Development Programme	14712290.00	10607567.28
	Stipend to Apprenticeship Trainees	997221.00	626711.00
	Stipend to Long Term Trainees		
	Building Maintenance (Plan)	13444278.00	5678615.00
	Development Expenses	2609185.00	1890436.00
	Development Expenses (Hindi Sahalkar)		
	GSI Mapping Tools		
	Membership Fees for Teaching Faculty		
	Furniture Maintenance		7725.00
	Periodicals	19800.00	969382.00
	Printing & Stationery	267689.00	391026.29
	Maintenance of Lab / Office Equipments	1262153.00	1035985.00
	Research Fellowship		
	Community Polytechnics		
	Contingent Grant to Trainees		
	TA & DA National Conferences		
	Remuneration to Guest Lecturers	1321730.00	966800.00
	Review Committee Meeting		
	Consumbales for Lab		
	National Seminar		
	National Symposium		
	WIDDS		
	Course Fees Receivable		
	VNITTTTR Edusat		
	Web Charges		149338.00
	IDDS		
	Inter Sports Meet		
	Workshop on NMEICT	1600.00	
	TOTAL	34635946.00	22323585.57

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TARAMANI, CHENNAI – 600 113

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, 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 will be done on actuarial valuation from the year 2018-19.
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 Rs.2,00,000/-
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 31.03.2018 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 are prepared on cash basis.
7. The interest on deposits are accounted on cash basis.

FINAL UTILIZATION CERTIFICATE

UTILIZATION CERTIFICATE FOR THE YEAR 2017-18
in respect of recurring / non-recurring
GRANTS-IN-AID / SALARIES / CREATION OF CAPITAL ASSETS

1. Name of the Scheme - N.I.T.T.T.R., CHENNAI
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. 1713.87 lakh
 - (ii) Unadjusted advances - Rs. 2.21 lakh
 - (iii) Total - Rs. 1716.08 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
1716.08	*	NIL	Enclosed in the Annexure		3936.00	5652.08	3710.60	1941.48

* 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
1083.53	1211.74	1415.33	3710.60

Details of grants position at the end of the year

- (i) Cash in Hand / Bank - Rs.1995.31 lakh
- (ii) Unadjusted Advances - Rs. 3.18 lakh
- (iii) Total - Rs.1998.49 lakh

(Cash in Hand / Bank includes Grants receivable – Rs.1356.50 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: Dec 18, 2018
Place: Chennai - 600113

[Prof. Dr. SUDHINDRA NATH PANDA]
DIRECTOR

Details of Grant-in-aid received during the year 2017-18

[Rupees in Lakh]

GiA released	OH 31 General	OH 35 Capital Assets	OH 36 Salaries	Total
Till Dec 2017	582.00	787.50	900.00	2269.50
Feb & Mar 2018	-	-	310.00	310.00
March 2018 (03.04.2018)	394.00	712.50	250.00	1356.50
	976.00	1500.00	1460.00	3936.00

OH 31 – GENERAL

Sl. No	Lr. No. and Date		Installment	Batch	Amount (Rs.)
1	Lr.No.6-3/2017 TS.IV dt. 19.06.2017	Gen (1/3)	I		1,50,35,000
2	Lr.No.6-3/2017 TS.IV dt. 19.06.2017	SC (2/3)	I		29,10,000
3	Lr.No.6-3/2017 TS.IV dt. 19.06.2017	ST (3/3)	I		14,55,000
4	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	Gen (1/3)	II	1 st	59,21,667
5	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	SC (2/3)	II	1 st	4,30,000
6	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	ST (3/3)	II	1 st	1,15,000
7	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	Gen (1/3)	II	2 nd	59,21,667
8	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	SC (2/3)	II	2 nd	4,30,000
9	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	ST (3/3)	II	2 nd	1,15,000
10	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	Gen (1/3)	II	3 rd	59,21,666
11	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	SC (2/3)	II	3 rd	4,30,000
12	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	ST (3/3)	II	3 rd	1,15,000
13	Lr.No.6-3/2017 TS.IV dt. 27.10.2017	Gen	III	1 st	64,66,667
14	Lr.No.6-3/2017 TS.IV dt. 02.11.2017	Gen	III	2 nd	64,66,667
15	Lr.No.6-3/2017 TS.IV dt. 06.12.2017	Gen	III	3 rd	64,66,666
					5,82,00,000
16	Lr.No.6-3/2017 TS.IV dt. 28.03.2018	Gen	V	1 st	1,94,00,000
17	Lr.No.5-1/2018.TS-IV dt.30.03.2018	Gen	Splm	4 th	1,84,62,000
18	Lr.No.5-1/2018.TS-IV dt.30.03.2018	SC	Splm	4 th	10,79,000
19	Lr.No.5-1/2018.TS-IV dt.30.03.2018	ST	Splm	4 th	4,59,000
					9,76,00,000

OH 35 – CAPITAL ASSETS

Sl. No	Lr. No. and Date		Installment	Batch	Amount (Rs.)
1	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	Gen (1/3)	II	1 st	60,66,667
2	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	SC (2/3)	II	1 st	18,66,666
3	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	ST (3/3)	II	1 st	8,00,000
4	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	Gen (1/3)	II	2 nd	60,66,667
5	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	SC (2/3)	II	2 nd	18,66,667
6	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	ST (3/3)	II	2 nd	8,00,000
7	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	Gen (1/3)	II	3 rd	60,66,666
8	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	SC (2/3)	II	3 rd	18,66,667
9	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	ST (3/3)	II	3 rd	8,00,000
10	Lr.No.6-3/2017 TS.IV dt. 27.10.2017	Gen	III	1 st	1,75,16,667
11	Lr.No.6-3/2017 TS.IV dt. 02.11.2017	Gen	III	2 nd	1,75,16,667
12	Lr.No.6-3/2017 TS.IV dt. 06.12.2017	Gen	III	3 rd	1,75,16,666
					7,87,50,000
13	Lr.No.6-3/2017 TS.IV dt. 28.03.2018	Gen	V	1 st	2,62,50,000
14	Lr.No.5-1/2018.TS-IV dt.30.03.2018	Gen	Splm	4 th	4,16,25,000
15	Lr.No.5-1/2018.TS-IV dt.30.03.2018	SC	Splm	4 th	22,50,000
16	Lr.No.5-1/2018.TS-IV dt.30.03.2018	ST	Splm	4 th	11,25,000
					15,00,00,000

OH 36 – SALARIES

Sl. No	Lr. No. and Date		Installment	Batch	Amount (Rs.)
1	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	Gen (1/3)	II	1 st	68,33,333
2	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	SC (2/3)	II	1 st	21,66,667
3	Lr.No.6-3/2017 TS.IV dt. 27.07.2017	ST (3/3)	II	1 st	10,00,000
4	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	Gen (1/3)	II	2 nd	68,33,333
5	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	SC (2/3)	II	2 nd	21,66,666
6	Lr.No.6-3/2017 TS.IV dt. 17.08.2017	ST (3/3)	II	2 nd	10,00,000
7	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	Gen (1/3)	II	3 rd	68,33,334
8	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	SC (2/3)	II	3 rd	21,66,667
9	Lr.No.6-3/2017 TS.IV dt. 04.09.2017	ST (3/3)	II	3 rd	10,00,000
10	Lr.No.6-3/2017 TS.IV dt. 29.09.2017	Gen	II	3 rd	2,00,00,000
11	Lr.No.6-3/2017 TS.IV dt. 27.10.2017	Gen	III	1 st	1,33,33,334
12	Lr.No.6-3/2017 TS.IV dt. 02.11.2017	Gen	III	2 nd	1,33,33,333
13	Lr.No.6-3/2017 TS.IV dt. 06.12.2017	Gen	III	3 rd	1,33,33,333
					9,00,00,000
14	Lr.No.6-3/2017 TS.IV dt. 13.02.2018	Gen	IV	1 st	3,00,00,000
15	Lr.No.5-2/2018 TS.IV dt. 08.03.2018		Splm	2 nd	9,25,000
16	Lr.No.5-2/2018 TS.IV dt. 08.03.2018		Splm	2 nd	50,000
17	Lr.No.5-2/2018 TS.IV dt. 08.03.2018		Splm	2 nd	25,000
18	Lr.No.5-1/2018.TS-IV dt.30.03.2018	Gen	Splm	4 th	2,31,35,000
19	Lr.No.5-1/2018.TS-IV dt.30.03.2018	SC	Splm	4 th	12,28,000
20	Lr.No.5-1/2018.TS-IV dt.30.03.2018	ST	Splm	4 th	6,37,000
					14,60,00,000

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RECEIPTS AND PAYMENTS ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2017-18

Amount in Rupees

RECEIPTS	Current Year 2017-18	Previous Year 2016-17	PAYMENTS	Current Year 2017-18	Previous Year 2016-17
I. Opening Balances			I. Expenses		
a) Cash Balances	558,300.00	469,100.00	a) Establishment Expenses	140,238,921.00	101,030,720.00
b) Bank Balance			b) Academic Expenses	8,349,456.46	6,981,004.39
i) In Current Amounts			c) Administrative Expenses	225,573.00	160,620.00
ii) In Deposit Accounts			d) Transportation Expenses	2,849,694.00	1,727,515.00
iii) Savings Accounts	248,253,119.46	126,866,252.58	e) Repairs & Maintenance		
			f) Prior period expenses		
II. Grants Received			II. Payments against Earmarked/Endowment Funds		
a) From Government of India					
b) From State Government					
for Revenue Expenditure	179,200,000.00	180,100,000.00			
for Capital Expenditure	78,750,000.00	82,500,000.00			
c) From other sources - Grants Receivable 2014-15	-	-			
(Grants for capital & revenue exp/ to be shown separately, if available)					
III. Academic Receipts			III. Payments against Sponsored Projects/Schemes	85,526.00	2,235,771.00
IV. Receipts against Earmarked/Endowment Funds/Corpus fund	1,026,926.46	542,000.00	IV. Payments against Sponsored Fellowships/Scholarships	187,200.00	
V. Receipts against Sponsored Projects/ Schemes			IDDS Payments		
a) IDDS	1,200,000.00	1,860,000.00	V. Investments and Deposits made		
b) CPSC		336,965.00	a) Out of Earmarked/Endowments funds		
c) AICTE UKIERI WORKSHIP	213,298.00	557,608.00	b) Out of own funds (Investments - Others)		
d) NIWE PROGRAMME		135,000.00			
e) SWAYAM	1,550,409.00	49,500,000.00			
f) SP02 IM ID COURSE	123,000.00				
G) TNSCB PROG	2,524,900.00				
H) TRAINING PROG BHUTAN	2,000,000.00				

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	10,853,268.00	14,267,355.00
b) Other investments SDR Interest	1,504,421.00		2,858,668.00	VIII. Plan General Expenditure	23,333,709.00	16,926,284.57
VIII. Interest received on				VIII. Other Payments including statutory payments		
a) Bank Deposits				Outstanding Expenses, TDS & Service Tax etc.,	7,437,839.00	6,325,653.00
b) Loans and Advances				IDDS Corpus fund Contribution	149,772.00	376,000.00
c) Savings Bank Accounts			1,172.00			
IX. Sundry Creditors	717,205.00			IX. Refunds of Grants		
X. Term Deposits with Scheduled Banks encashed				X. Deposits and Advances	8,920,432.30	567,282.00
				Deposits with CPWD	105,576,119.00	45,266,737.00
				Deposits Refund	15,000.00	402,570.00
XI. Other income (including Prior Period Income)				XI. Other Payments/Liabilities		
i) Duties and Taxes TDS, Service Tax etc	21,943.00		863,568.00	i) Sundry Creditors	41,142,591.00	29,683,937.00
ii) sale of Books and CDs	101,832.00		185,000.00	ii) Duties and Taxes	23,031,890.00	12,543,118.00
XII. Deposits and Advances				iii) Others: OTC Payments	13,976,059.00	29,464,550.00
i) Other ; Refund	458,565.00		32,900,797.00	XII. Closing balances		
ii) Other Deposits	967,500.00		371,990.00	a) Cash in hand	71,447.00	558,300.00
iii) Other Receipts:				b) Bank balances		
OTC				In Current Accounts		
	5,537,729.00			In Savings Accounts	143,634,312.49	219,030,069.46
				In Deposit Accounts		
XIII. Misc Receipts including Statutory Receipts	3,222,985.33		126,932.00			
XIV. Any Other Receipts	956,676.00		7,372,433.84			
TOTAL	530,078,809.25		487,547,486.42	TOTAL	530,078,809.25	487,547,486.42

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

GPF ACCOUNT

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

PROVIDENT FUND ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2018

	Amount in Rupees		
	2017-18	2016-17	2016-17
Liabilities		Assets	
GPF		Investment Int. accrued as on 31/03/18	2,121,123.00
Opening Balance	35,997,222.76	Subscription Due for March 2016:	2,018,681.00
Less: Subscriptions for March 2017		GPF	6,816.00
Add: Subscriptions in the year	9,331,783.00	CPF UC due to CPF	
Add: Sub for March 2018	2,086,801.00	NPS-II	
Add: Interest Credited	47,415,806.76	Temporary Advance	4,165,810.30
Less: Advance/withdrawal/Part Final	14,527,507.00	Tax recovered from interest on Investments Pending refund from Income Tax Department	1,489,337.51
Closing Balance <u>GPF</u>	32,888,299.76	Cash at Bank : IOB	32,049,110.00
Unclaimed Balance	11,170.00	Fixed Deposit	
Employers Contribution	(231,862.00)		
Opening Balance	3,286.45		
Less: Sub. for March 2017			
Add: Subscriptions in the year	1,469,721.00		
Add: Sub for March 2018			
Add: Interest Credited			
Less: Advance/withdrawal/Part Final			
NPS Contra			
Closing Balance			

<u>University Contribution (CPF)</u> Opening Balance Less: Contribution for March 2017 Add: Subscriptions in the year Add: Contribution for March 2018 Add: Interest Credited Less: Advance/withdrawal Closing Balance						
<u>NFS Tier-II Account</u> Opening Balance Less: Sub. for March 2017 Add: Subscriptions in the year Add: Sub for March 2018 Add: Interest Credited Less: Advance/withdrawal Closing Balance						
<u>Interest Reserve</u> Opening Balance Less: Excess of expenditure over income Closing Balance						
Total						
				6,562,579.50	39,832,196.81	43,812,117.71
				870,997.90	5,691,581.60	39,832,196.81
						43,812,117.71
				6,562,579.50		39,832,196.81
						43,812,117.71
						43,812,117.71

PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

Expenditure	Amount in Rupees		
	2017-18	2016-17	Income
Interest Credited to:			
GPF Account	2,086,801.00	2,102,805.00	Interest earned on Investment
CPF Account			SB Interest
University Contribution (CPF)			Add; Interest accrued on 03/18
NPSTier-II Account			Add: Tax recovered on interest - Refund to be obtained
Accrued Interest for 2016-17	2,018,681.00	153,893.00	Less Interest accrued for March 18
Interest on subscription			
Bank charges	5.90	925,975.00	Excess of Expenditure over Income
Excess of Income over Expenditure			
Total	4,105,487.90	3,182,673.00	Total
			2017-18
			2016-17
			3,182,673.00

PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2017-18

Receipts	2017-18	2016-17	Payments	2017-18	2016-17	Amount in Rupees
Opening Balance IOB			GPF Adv./Withdrawal/Part Final	14,527,507.00		9,640,677.00
FIXED DEPOSIT:			Interest on Subscription			153,893.00
IOB SPECIAL DEPOSIT	2,804,732.00		Bank charges	5.90		
SBI SPECIAL DEPOSIT	2,620,393.00					
IOB FIXED DEPOSIT	31,723,985.00					
IOB PF	471,700.41	38,240,237.41				
SBI, Branch- 1						
SBI, Branch -II						
GPF Subscription		8,011,151.00	Investment during the year			
CPF Subscription		9,331,783.00	Closing Balance:-			
CPF University Contribution			SBI, Branch- 1			
			FD	32,049,110.00		37,149,110.00
NPSTier-II Account			IOB	1,489,337.51		471,700.41
PF FD INTEREST	632,691.00	710,114.00				
SPECIAL DEPOSIT INTEREST	451,514.00	215,528.00				
SB NORMAL INTEREST	29,162.00	238,350.00				
Total	48,065,960.41	47,415,380.41	Total	48,065,960.41		47,415,380.41

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

NPS ACCOUNT

NPS TIER-I ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2018

Liabilities	Amount in Rupees		
	2017-18	2016-17	2017-18
NPS Tier-I Account			
Opening Balance	1,521,555.00	1,517,175.00	
Less: NSDL Remit	2,745,328.00	2,799,264.00	
	(1,223,773.00)	(1,282,089.00)	
Add: Sub + U Contribution	3,570,625.00	2,799,264.00	
Add: Interest Credited	2,346,852.00	1,517,175.00	
Less: Transferred to NSDL			1,469,721.00
Add: Sub+UC for 3/2016			891,375.00
Excess of Income over Expenditure Balance as on 01.04.2017	14,244.00	4,380.00	
Add: During the year			
Total	2,361,096.00	1,521,555.00	2,361,096.00
			1,521,555.00

NPS TIER-I ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

	Amount in Rupees		
	2017-18	2016-17	Income
Expenditure			
Excess of Income over Expenditure	14,244.00	4,380.00	Normal Interest
Total	14,244.00	4,380.00	Total
			2017-18
			2016-17
			4,380.00
			14,244.00

NPS TIER-I ACCOUNT
RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2017-18

Receipts	Amount in Rupee				
	2017-18	2016-17	Payments	2017-18	2016-17
Opening Balance as on 1/04/2017					
NPS Tier-I Account	51,834.00	47,454.00	Investment		
Own Subscription	1,959,081.00	1,399,632.00	Withdrawal / Refund to NSDL	2,745,328.00	2,799,264.00
University Contribution	1,611,544.00	1,399,632.00			
Interest on Saving Bank A/C	14,244.00	4,380.00	Closing Balance	891,375.00	51,834.00
TOTAL	3,636,703.00	2,851,098.00	TOTAL		2,851,098.00

**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 31.03.2018

LIABILITIES	Amount in Rupees		
	Current Year 2017-18	Previous Year 2016-17	Current Year 2017-18
CAPITAL FUND:			
Add: Excess	78,347,901.00	62,997,320.00	
	28,614,218.00	15,350,581.00	
Duties and Taxes	106,962,119.00	78,347,901.00	
Sundry Creditors	1,844.00	523.00	
	120,771.00		
			1,340,037.00
			1,684,485.00
			2,919,985.00
			23,000,000.00
			25,000.00
			41,513,506.00
			36,601,721.00
TOTAL	107,084,734.00	78,348,424.00	107,084,734.00
			78,348,424.00

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

Overseas Training Course (OTC)
Income & Expenditure Account for the year ended 31.03.2018

EXPENDITURE	Amount in Rupees				
	2017-18	2016-17	INCOME	2017-18	2016-17
Books & Periodicals			Project Receipts	44659037.00	29223050.00
OTC Expenses	10580874.00	4897133.00	Interest Bank	1367803.00	1056101.00
Sundry Creditors			Misc Receipts	485425.00	50000.00
LIVING allowance	5243149.00	4651941.00	Accrued Interest	1,684,485.00	2,356,254.00
Misc Expenditure	485425.00	7785750.00			
Guest House Expenses					
Room Rent					
Accrued Interest for 2016-17	2356254.00				
Bank charges	65.00				
Project Allowance	352495.00				
SDEM Batch					
Book allowance	564270.00				
Travelling & Conveyance					
Excess of Income over Expenditure	28614218.00	15350581.00			
Total	48196750.00	32685405.00	Total	48196750.00	32685405.00

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

Overseas Training Course (OTC)
Receipts & Payments Account for the Financial Year 2017-18

	Amount in Rupees				
	2017-18	2016-17	PAYMENTS	2017-18	2016-17
RECEIPTS					
OPENING BALANCE:					
AXIS BANK	28804984.00	36580689.00	Duties & Taxes	7867.00	5835.00
CANARA BANK	41382841.00	23498123.00	Sundry Creditors	788713.00	483149.00
Cash	2884360.00	0.00	Temporary Advance	1340037.00	2884360.00
			OTC Expenses	9662202.00	4409103.00
			Travelling & Conveyance		
			Book Allowance	564270.00	
			Project Allowance	352495.00	
			Misc Expenses	485425.00	
			CDIMD XXXII		
			Room Rent		
			Guest House Expenses		
			Living Allowance	5243149.00	7785750.00
			Bank Charges	65.00	4651941.00
			FD: Auto Sweepout	23000000.00	
			CLOSING BALANCE		
			AXIS BANK	36601721.00	28804984.00
			CANARA BANK	41513506.00	41382841.00
			Cash	25000.00	0.00
Total	119584450.00	90407963.00	Total	119584450.00	90407963.00

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

PROJECT ACCOUNT

PROJECT ACCOUNT

Balance Sheet as at 31.03.2018

LIABILITIES	Amount in Rupees				
	2017-18	2016-17	ASSETS	2017-18	2016-17
Project Fund: Opening	-1835741.00	-1835741.00			
Add: Excess of Income over Expenditure	106988.00				
PROJECT WIP					
FY 2009-10	999032.00	999032.00	40/CEM/RAY/TVL/SMOH/2011-12	566792.00	566792
FY 2010-11	2411197.00	2411197.00	41/CEM/RAY/TRY/SMOH/2011-12	891147.00	891147
FY 2011-12	4825819.00	4825819.00	67/DST-JSPS-CEM	257747.00	
FY 2012-13	304711.00	304711.00	70/TNPWD/DWD7G/CIVIL/SNP	7400.00	
FY 2013-14	395006.00	395006.00			
FY 2014-15	707010.00	713358.00			
FY 2017-18					
66/TNSCB/VOL-MANALI/SNP	146651.00				
67A/UBA/HHVS/SNP	85000.00				
68/TNSCB/VC-PERU/CEM/SNP	167093.00	10041519.00			
Duties and Taxes					
		4231.00	FFD Deposit	6362000.00	
			LC Projector	98956.57	
			Temporary Advance	75000.00	
			CLOSING BALANCE:		
			Cash in Hand	27043.00	39000
			Cash at Bank	30911.43	6320674
		8316997.00		57954.43	
		7817613.00			
				8316997.00	7817613.00

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

PROJECT ACCOUNT

Income & Expenditure Account for the year ended 31.03.2018

	Amount in Rupees		
	2017-18	2016-17	2017-18
EXPENDITURE	INCOME		
Project Expenses Duties and Taxes	47172.00	2251353.00	Project Income
Excess of Income Over expenditure	106988.00		SDR Interest
Total	154160.00	2251353.00	Excess of Expenditure Over Income
			Total
			154160.00
			2405513.00

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

PROJECT ACCOUNT
Receipts & Payments Account for the Financial Year 2017-18

	Amount in Rupees				
	2017-18	2016-17	PAYMENTS	2017-18	2016-17
RECEIPTS					
OPENING BALANCE:					
Cash at Bank	6,320,674.00	8,572,027.00			
Cash in Hand	39,000.00	39,000.00			
Project Income	519,105.00		Duties and Taxes	47,172.00	
SDR Interest	154,160.00		Project Expenses	391,856.00	2,251,353.00
			FFD Deposit	6,362,000.00	
			Temporary Advance	75,000.00	
			LC Projector	98,956.57	
			CLOSING BALANCE:		
			Cash in Hand	27,043.00	39,000.00
			Cash at Bank	30,911.43	6,320,674.00
Total	7,032,939.00	8,611,027.00	Total		8,611,027.00

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

CORPUS FUND ACCOUNT

CORPUS FUND ACCOUNT
Balance Sheet as at 31.03.2018

LIABILITIES	Amount in Rupees		
	2017-18	2016-17	2017-18
CAPITAL FUND			
Capital Fund	2293817.00	1771571	
Add: Excess of Income over income	260602.00	522246.00	1190000.00
			1364419.00
			2293817.00
	2554419.00	2293817.00	2554419.00
			2293817.00

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

CORPUS FUND ACCOUNT
Income & Expenditure Account for the year ended 31.03.2018

	Amount in Rupees	
	2017-18	2016-17
INCOME		
IDDS Corpus fund 10%	72000.00	159200.00
IDDS Corpus fund 20%	115200.00	204800.00
Normal Interest	73402.00	76993.00
Indonesian Visit		81,253.00
Total	260602.00	522246.00
EXPENDITURE		
Excess of Income over expenditure	260602.00	522246.00
Total	260602.00	522246.00

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

CORPUS FUND ACCOUNT
Receipts & Payments Account for the Financial Year 2017-18

	Amount in Rupees				
	2017-18	2016-17	PAYMENTS	2017-18	2016-17
RECEIPTS					
OPENING BALANCE:					
Cash at Bank	2,293,817.00	1,771,571.00			
IDDS Corpus fund 10%	72000.00	159,200.00	NITTTR Transfer	1,190,000.00	
IDDS Corpus fund 20%	115200.00	204,800.00			
Normal Interest	73402.00	76,993.00			
Indonesian Visit		81,253.00			
CLOSING BALANCE:					
Cash at Bank				1,364,419.00	2,293,817.00
Total	2,554,419.00	2,293,817.00	Total	2,554,419.00	2,293,817.00

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

SWAYAM ACCOUNT

SWAYAM PROJECT ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2018

Liabilities	Amount	Assets	Amount in Rupees	
			Amount	Amount
Opening Balance	49,500,000.00			
Less: Excess of Expenditure over Income	2,255,334.00			
		Equipments		581,414.00
		Cash in Hand		38,000.00
		Balance at Bank		46,625,252.00
Total		Total	47,244,666.00	47,244,666.00

SWAYAM PROJECT ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

	Amount in Rupees	
	Expenditure	Income
	Amount	Amount
Project Expenses	2,240,856.00	
Remuneration Paid	412,868.00	1,113,174.00
Travelling expenses	584,152.00	2,914.00
Honorarium Paid	26,181.00	
General Expenses	54,461.00	2,255,334.00
Workshop	52,564.00	
Misc Expenses	340.00	
Total	3,371,422.00	Total
		3,371,422.00

SWAYAM PROJECT ACCOUNT
RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2017-18

		Amount in Rupees	
Receipts	Amount	Payments	Amount
MHRD - GRANTS	49,500,000.00	Project Expenses	1,915,856.00
		Duties and Taxes	3,716.00
SB Interest	1,113,174.00	Remuneration Paid	412,868.00
Misc Receipts	2,914.00	Travelling expenses	584,152.00
		Honorarium Paid	26,181.00
		General Expenses	7,875.00
		Workshop	52,564.00
		Misc Expenses	340.00
		Sundry Creditors	367,870.00
		Fixed Assets	
		Equipments	581,414.00
		Cash in Hand	38,000.00
		Cash at Bank	46,625,252.00
TOTAL	50,616,088.00	TOTAL	50,616,088.00