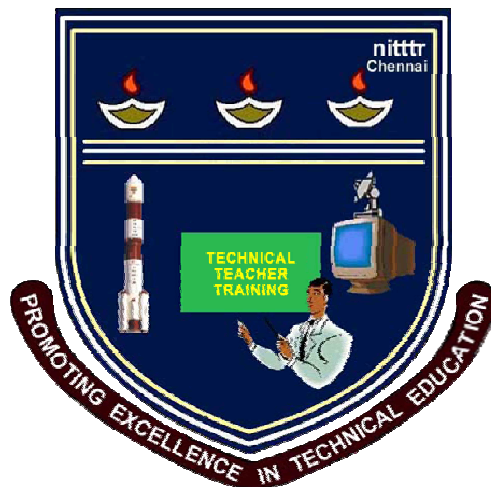


ANNUAL REPORT

2015-16

(ENGLISH VERSION)



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

FROM THE DIRECTOR



National Institute of Technical Teachers Training and Research, Chennai –NITTTR, Chennai is glad to present the treatise on 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 2015-16. This report reflects the accomplishments made in the areas of technical teacher training (Polytechnics and Engineering colleges, industry), research, curriculum development, overseas training programmes along with other various training programs and activities by the dedicated work of our faculty members. This report also incorporates the Vision, Mission and

Objectives of the Institute and its functions, co-ordination with State, National and Regional 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 faculty members have the same reliable 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 through beautification also added pleasant learning experience.

The year 2015-16 represented another period of expansion and development. During this year the following were achieved:

- *Training of 2830 technical teachers and personnel from industries*
- *Training of 150 teachers, policy makers and educational administrators from 38 countries through 9 Overseas Trainees Courses*
- *Doctoral and Master's Programmes with 41 candidates*
- *Curricula of 43 programmes consisting of 330 courses were revised.*
- *Development of 62 instructional resources (print type materials and videos)*

Although we serve many tens of thousands of individuals worldwide, perhaps the most gratifying part of our work at NITTTR is when we hear directly from individual faculty members who have undergone training in our institute. They participate in discussions and send email to our faculty members. We set out with a commitment and broad vision for our future programmes through your valuable support. It is hoped that the faculty and the management of the polytechnics/engineering institutions will come forward in large numbers to participate in the programmes and derive maximum benefit from our common effort towards improving the quality of technical education.

The Institute has received incessant motivation and direction from Dr. Allam Appa Rao, Chairman, BoG, and other eminent members of the BoG, as well as the Secretary, Additional Secretary, Director, Deputy Educational Advisor and other officials from Ministry of Human Resource Development, Govt. of India. I see this opportunity to express our gratefulness towards them. I would also thank all those who inspired and encouraged us in our search of 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, Government of India in the year 1964 to improve the quality of Technical and Vocational Education and Training (TVET) 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 the core engineering area and also in the inter disciplinary area of Engineering Education and offers consultancy and extension 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 technical and vocational education and training.

VISION

NITTTR, Chennai envisions to be a leading institute in promoting excellence in Technical and Vocational Education and Training (TVET) systems by planning, designing, developing, implementing and evaluating quality training programmes, learning resources, research studies and extension services for Technical educational institutions, Industry and Community.

Our Short Vision Statement:

"Promoting Excellence in Technical Education"

MISSION

NITTTR, Chennai is a resource Institution established by the Government of India for quality improvement of Technical and Vocational Education and Training (TVET) 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 including web based one.
- * To demonstrate leadership by organising dynamic and leading edge programmes to meet the changing needs of the Industry and the Community.
- * To develop into a Deemed University in order to provide effective and efficient services to the technical teachers.
- * To help in solving problems in Engineering and Education through research, development and extension activities.
- * To establish and foster collaboration with 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 teachers and in turn to students.

- ◆ Quality Education and Training
- ◆ Teamwork
- ◆ Staff Development for continuous learning
- ◆ Openness and Transparency
- ◆ Cliental focus
- ◆ Social responsibility

2.0 OBJECTIVES

The objectives of the institute are:

- ✓ To act as a centre for offering quality training programmes for teachers as per needs of the client system, covering the entire gamut of technical education including engineering colleges, polytechnics, vocational and management education, at regional and national levels.
- ✓ To arrange for training of technical personnel in industries on a cooperative education plan.
- ✓ To undertake systemic research to provide inputs for 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 and vocational education 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 and vocational institutions and other organisations.
- ✓ To offer programmes for Technical and Vocational 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 and award fellowships, scholarships, prizes and medals.
- ✓ To collaborate with Community and Industries in organising Continuing and Non-formal vocational education programmes and providing extension and consultancy services.
- ✓ To undertake Consultancy and Extension work for industry, technical institutions/organisations.
- ✓ To establish 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 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.

3.0 FOCUS OF ACTIVITIES DURING 2015-2016

As a dynamic organisation, the institute periodically reorients its programmes and activities to proactively respond to the changing needs of the clientele system. During the year 2015-2016 the institute undertook programmes, projects and activities under five major areas namely: (i) Faculty Development, (ii) Curriculum Development, (iii) Instructional Resources Development, (iv) Research Projects and (v) Consultancy Projects.



The institute focused on the following activities during the year 2015-2016:

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, Educational Technology, Accreditation, Human Resource Development, Curriculum Development and Entrepreneurship Development.
2. Conducting seminars/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. Training of teachers of Engineering colleges, Polytechnics and others through long term programmes like M.Tech. (HRD).
5. Providing expertise to overseas participants through specially designed training programmes.
6. Developing curricula for education and training programmes and revising the curricula of existing programmes.
7. Developing / revising instructional resources (materials and media) needed for effective implementation of Polytechnic and Engineering College Curricula.
8. Undertaking research and development projects relevant to technical education system.
9. Providing extension & 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
 - d. Expert committee visit to facilitate accreditation
 - e. Technical and consultancy service in the area of engineering / technology
 - f. Need based Human Resource Development programmes and projects for Industries, Govt. Departments and Service organizations

4.0 FACULTY DEVELOPMENT PROGRAMMES

Faculty Development Programmes for teachers of Engineering Colleges and Polytechnics is a priority area of the institute. In recognition of this, the institute planned and conducted a variety of short term and long-term training programmes for teachers and staff of the Polytechnics, Engineering Colleges as well as teachers from overseas to enable them to acquire competencies relevant to their respective areas of work.



4.1 LONG TERM TRAINING PROGRAMMES

a) DOCTORAL RESEARCH PROGRAMME

The institute continued to vigorously 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 Anna University, Chennai and University of Madras.

Thus as on date, 37 candidates are pursuing Ph.D. Programme in this Institute. Four scholars were awarded Ph.D. degree in Engineering Education by the University of Madras during this year and one scholar has enrolled for the Ph.D. programme as detailed below:

Table 1: Details of Research scholars who have been awarded the Degree during the year

S. No.	Name & Institutional affiliation of the candidate	Title of the Thesis	Supervisor	Date of Viva Voce
1.	Ms.C.Sharmila Lecturer Institute of Hotel Management CIT Campus, Taramani, Chennai – 113.	Study of Attitude Towards Technology Enabled Learning on the Academic Performance of Hotel Management Students	Viva Voce exam convened by Dr. S. Dhanapal Thesis work supervised by Dr. R. Rajendran	06.05.2015

S. No.	Name & Institutional affiliation of the candidate	Title of the Thesis	Supervisor	Date of Viva Voce
2.	Ms .E. Srividya Full Time Research Scholar Dept. of Correspondence Courses NITTTR, Chennai – 113.	An Evaluation of Computer Science/ Information Technology Curricula with respect to Software Engineering Skills	Dr. V. Thanikachalam, Former Professor and Head, Dept. of Correspondence Courses	24.06.2015
3.	Mr. R. Parthiban Full Time Research Scholar Curriculum Development Centre NITTTR, Chennai – 113.	Evaluation of Usage of e-learning Resources for Computer Science and Engineering Programmes and Development of an Appropriate Pedagogical Structure for e-learning	Dr. S.Dhanapal Director i/c and Professor and Head Curriculum Development Centre	30.06.2015
4.	Mr. Sekar Viswanathan Sekar Vice-President VIT University, Vellore.	Impact of Job Characteristics, Training and Empowerment on the Motivation of Computer Science and Engineering Faculty	Dr.S.Renukadevi Professor and Head Dept. of Education	18.03.2016

Table 2: Details of the Research scholar enrolled:

S. No.	Name of the candidate	Title of the Thesis	Supervisor	Date of Joining
1.	Mr. Farid Babu R.	Analysis and effective implementation of Mechatronics Engineering	Dr. S.Dhanapal Director incharge and Professor & Head Curriculum Development Centre	18.06.2015

So far a total number of 70 scholars have been awarded Ph.D. degree.

b) M.Tech. (Human Resource Development) PROGRAMME

This master's programme of four semesters aims to produce competent human resource developers for the technical education sector. The programme of study comprises of 13 core courses, a dissertation (equivalent to two courses), seven electives, two soft skills courses and an internship.

This programme includes core subjects of Principles of Management, Organizational Behaviour, Industrial Sociology, Industrial Psychology, Research Methodology in HRD, Information and Communication Technology for HRD, Organizational Development, Legal Aspects of Human Resource Management, Human Resource Management, Soft Skills 1 & 2, Human Resource Development, International Human Resource Management, Training and Development and Financial Management. Students have been provided with several elective subjects namely Institutional Evaluation and Development, Management Information System, Planning and Production of Video Programmes for HRD, Project Management, Marketing Management, Enterprise Resource Planning, Performance Management,

Knowledge Management and Total Quality Management. An Internship has been included as a compulsory requirement and is to be carried out in the summer vacation of the second semester.

At present in the X Batch four candidates are pursuing M. Tech (HRD) programme.

c) **OVERSEAS TRAINEES COURSES**

During the year 2015-16, the institute organized Nine training programmes for the overseas participants under the ITEC scheme and its corollary SCAAP (Special Commonwealth African Assistance Programme).

It is fully-funded by the Government of India, for training civilians from 158 countries in Asia, East Europe (including former USSR), Central Asia, Africa, and Latin America, the Caribbean as well as Pacific and Small Island countries. As a result, NITTTR Chennai is actively involved in conducting specially designed training



programmes under ITEC and SCAAP schemes for the past 34 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 Ministry of External Affairs, Govt. of India has generated immense goodwill and substantive cooperation among the developing countries. 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: Eight Weeks OTC Programmes during the year 2015-16

Courses	Subject Coordinators
IT, Web Designing, Pedagogy and English Communication Skills	Dr. S. Renukadevi, Dr. P. Malliga & Dr. K.S. Girdharan
Women Empowerment through Technical and Vocational Education	Dr. S. Renukadevi
Sustainable Development and Environmental Management	Dr. G. Janardhanan
Modern Library Practices	Dr. R. Ravichandran
Spatial Information Technology for Urban Planning and Management	Dr. E.S.M. Suresh and Er. K.S.A. Dinesh Kumar
Curriculum Design and Instructional Material Development	Dr. S. Dhanapal & Dr. G. A. Rathy
Information & Communication Technology in Education Training	Dr. V. Shanmuganeethi
Electronics for Industry	Dr. G. A. Rathy & Dr. P. Sivasankar
Educational Media Production for E-Learning	Dr. P. Malliga

Table 4: Enrolment by Nation: 2015-16

Countries	No. of Participants Enrolled	Countries	No. of Participants Enrolled	Countries	No. of Participants Enrolled
ANTIGUA AND BARBUDA	1	GHANA	8	PHILLIPINES	2
AFGHANISTAN	8	INDONESIA	3	SEYCHELLES	4
ARGENTINA	1	IVORY COAST	3	SRILANKA	2
BANGLADESH	42	KENYA	2	SOUTH AFRICA	1
BHUTAN	10	LEBANON	1	SUDAN	4
CAMEROON	1	MALAYSIA	3	SURINAME	1
CUBA	1	MALAWI	1	SWAZILAND	1
CONGO	1	MAURITIUS	9	TANZANIA	3
ECUADOR	1	MONGOLIA	4	UGANDA	2
EGYPT	1	NAMIBIA	1	UKRAINE	1
ETHIOPIA	3	NEPAL	1	VIETNAM	6
FIJI	3	NIGERIA	2	ZIMBABWE	9
GAMBIA	2	PALESTINE	1		
Total candidates					150

i. Special Training Programme on IT, Web Designing, Pedagogy and English Communication Skills

National institute of Technical Teachers Training and Research, Chennai conducted a tailor made programme on “Information Technology, Web Design, Pedagogy and English Communication Skills” for the participants from Bangladesh. The first batch of the programme was attended by 39 participants including seven women participants. The participants were teachers from Universities; Engineering Colleges; Polytechnic Colleges, Schools and Officials of the Ministry of Education, Government of Bangladesh. The Programme was coordinated by the Educational Media Centre from 04.05.2015 to 29.06.2015. The objectives of the programme were a) to obtain adequate proficiency in English language communication, b) to employ ICT features in their day to day teaching activities, c) to design a suitable web for their regular requirements and d) to adopt appropriate pedagogical skills in the regular teaching learning process. The programme consisted of four modules on Information and Communication Technology (ICT) in Education, Web Design, Pedagogy and English communication skills. In order to familiarize with the concepts and tools discussed during the theoretical sessions, practice sessions and several visits were organized. Several guest lectures were delivered by eminent persons from reputed institutions and Industries. They had hands on practice with many Web 2.0 tools, Learning Management system, Web design –HTML, Dream Weaver and Joomla.



An interactive session was arranged with Sri Ramakrishna College of Engineering Coimbatore. They had the privilege to interact with the faculty members and visited English communication Lab, Cloud Computing Lab, Virtual Labs Demo, Nano-technology laboratory and other facilities.

ii. Advanced Certificate Course on “Women Empowerment through Technical and Vocational Education”

The course was designed to enable the participants to evolve appropriate strategies for women empowerment in their respective countries and use these strategies. The course objectives are:

1. Understand the aims and ideals of Women Education in developed and developing countries
2. Appreciate the policies and planning strategies involved in Women empowerment through technical education
3. Analyze the implications of technology for women education
4. Comprehend the strategies of balancing work, education and home
5. Develop soft skills and leadership skills to manage technical institutions
6. Evolve specific strategies for women empowerment through technical & Vocational education in their respective countries



The Ninth batch of this course was conducted by the Department of Education of this institute from 22nd July to 15th September 2015. Five participants from three countries viz. Ghana, Seychelles and Sri Lanka, attended this course. So far (including the ninth batch), a total number of 93 overseas participants are trained by the institute through this course.

iii. **Advanced Certificate course on “Sustainable Development and Environmental Management”**

The main objective of this course is to inculcate the values, behaviors and lifestyles required for a sustainable future and for positive societal transformation.

The enabling objectives are:

- a. To provide an understanding on the methods and approaches for sustainable environmental development and understand the interrelationships among socio, economic and environmental issues;
- b. To provide the modes of assessing the impact of developmental projects on environment and to suggest appropriate remedial measures; and
- c. To foster an increased quality of teaching and learning in education for sustainable development;



This is the sixth batch, coordinated by the Centre for Environmental Management from 22nd July to 15th September 2015. Eighteen participants from 9 countries viz., Bangladesh, Afghanistan, Egypt, Bhutan, Sudan, Ghana, Seychelles, Mauritius and Nigeria attended this Programme.

So far (including the sixth batch), a total number of 114 overseas trainees are trained by the institute through this course.

iv. **Advanced Certificate course on Modern Library Practices**

The main objective of this course was to develop competencies for facilitating e-access to IT based knowledge – streamlining library processes,



promoting and enhancing reading habits among the users – managing and developing collections, services and facilities. The eighth batch of this course was conducted by the Resource Centre of this institute from 23rd September to 17th November 2015. Twenty two participants from 14 countries viz., Bangladesh, Philippines, Vietnam, Palestine, Nepal, Cote d'Ivoire, Antigua and

Barbuda, South Africa, Uganda, Ghana, Gambia, Zimbabwe and Mauritius. So far (including the eighth batch), a total number of 179 overseas trainees are trained by the institute through this course.

v. **Advanced Certificate Course on Spatial Information Technology for Urban Planning and Management**

The second batch of this course was conducted by Civil Engineering Department from 23rd September to 17th November 2015. Seven participants from 6 countries viz., Lebanon, Fiji, Ethiopia, Mongolia, Zimbabwe and Mauritius participated in this course. The programme objectives are

- Grasp the fundamental concepts of GIS.
- Digitize the given map with suitable scale.
- Obtain the map of an area in the raster format from satellite imagery or by scanning.
- Convert the maps from raster format to vector format.



- Execute the map corrections to improve the accuracy levels.
- Generate the necessary attribute data using suitable software tools.
- Link the geographic and attribute data using appropriate packages.
- Create appropriate GIS topology in the given package.
- Operate the identified queries for decision making.
- Work with GIS modeling phenomena.
- Develop capabilities to work with standard and open source software in GIS.
- Present results in appropriate formats using multimedia.
- Develop the GIS data base for various application of Urban planning and management

This programme integrates land management, civil engineering, water conservancy, traffic management, urban planning, construction and information technology and also provides the participants to a more professional application to geographic information system theory. So far (including the second batch), a total number of 20 overseas trainees are trained by the institute through this course.

vi. Advanced Certificate Course on “Curriculum Design and Instructional Materials Development”

The course aims at developing competencies needed for curriculum design and development of appropriate instructional materials. The 34th batch of this course was conducted by the Curriculum Development Centre of the institute from 25th November 2015 to 19th January 2016. 20 participants from fifteen countries viz., Afghanistan, Argentina, Cuba, Ecuador, Fiji, Malaysia, Mongolia, Philippines, Sudan, Kenya, Mauritius, Nigeria, Swaziland, Tanzania and Zimbabwe attended this course. A total number of 601 overseas trainees, so far are trained by the institute through this course.

vii. Advanced Certificate Course on Information and Communication Technology in Education and Training

The third batch of this course was conducted by Educational Technology and Multimedia Media centre from 25th November 2015 to 19th January 2016. Sixteen participants from 12 countries viz., Bhutan, Cote D'Ivoire, Sudan, Congo, Vietnam, Malaysia, Ghana, Malawi, Namibia, Tanzania and Zimbabwe participated in this course. Information and Communication Technology (ICT) in Education and training programme allows to integrate technology into the teaching, e-content development, delivery and provide leadership in

technology integration. The programme objectives are to understand the concepts of IT applications in the area of training and administration, to provide sufficient knowledge in Database Management System, to Understand Intranet / Internet Environment, to appreciate the use of e-learning technologies, to understand the principles of Learning Management System (LMS) and to understand Information security and Information retrieval. So far (including the third batch), a total number of 46 overseas trainees are trained by the institute through this course.

viii. Advanced Certificate Course on Electronics for Industry

The first batch of programme was conducted by Department Electrical and Electronics from 27th January to 22nd March 2016. The programme aims to train the participants in the emerging electronics areas such as Micro controllers, PLC & SCADA, LabVIEW, Industrial Instrumentation, Automation and Renewable Energy.



The main objectives of the programme:

- ◆ Use PLC for electrical control applications
- ◆ Apply graphical programming tool LabVIEW for solving industrial instrumentation problems
- ◆ Design an industrial application using 8051 Microcontroller
- ◆ Understand the working of sensors and instruments in Industry
- ◆ Appreciate industrial automation practices using Robotics
- ◆ Use pneumatic systems for automation
- ◆ Utilize effectively solar energy sources
- ◆ Understand the factors involved in the design of Wind Power Plants
- ◆ Design project work

Five participants from 4 countries viz. Bangladesh, Mauritius, Suriname and Ukraine attended this programme. By attending the programme, the participants gained knowledge and skills in latest technologies to meet the challenges of industrial automation in their Countries.

ix. Advanced Certificate Course on Educational Media Production for E-Learning

The first batch of the course was coordinated by Educational Media Centre from 27.01.2016 to 22.03.2016. Eighteen participants from Afghanistan, Bhutan, Ethiopia, Indonesia, Cameroon, Tanzania and Zimbabwe attended the programme. The programme consisted of eight units of lessons on E-learning, Multimedia, Perspective of Educational Video Programs, Designing and Planning of Educational Video Programmes, Video Production techniques, Writing Script for Educational Video Programmes, Directing Educational Video Programmes and Production Projects.

As part of the course they learnt how to write a script for a theme, targeting a precise audience. They also learnt how to transform this script into educational video programme. For this purpose hands on practice on the techniques of shooting, lighting, recording, editing, graphics, animation with special effects and many others were provided. They learnt how to make these contents available online and accessed by all through the Learning Management System (LMS) and Video Content Management System (VCMS). For this, several computer applications were studied: Audacity, CamStudio, Photoshop CS6, Macromedia Flash, Hot potatoes, Clipbucket and Moodle.



In order to familiarize with the concepts and tools discussed during the theoretical session, several visits were organized. Through the Visit to NPTEL Studio, IIT Madras, they learnt how the education video lectures are produced, organised and stored and made available online. News Production for TV and Radio was demonstrated in Asian college of Journalism, Chennai. Video Production and Radio transmission was demonstrated by the Visual Communications Dept. of MOP Vaishnav College for Women. During the visit to Rathinam College of Arts and Science in Coimbatore, they had the privilege of attending a full generation (video recording, editing and presentation of the result). Visits were arranged to Lalit Kala Akadami, Chennai, AEL DATA, Chennai, M.G.R. Film Institute, Taramani, Chennai, Puducherry Doordarshan, Govt. Fine Arts College, Govt. Museum, Scenic City, Planetarium, Anna Centenary Library and Semozhi Poonga. Participants attended a one day Conference on ICTACT – Bridge at Chennai Trade Centre organised by ICT Academy of Tamil Nadu.

Four video projects were produced during the course by the participants. They are Television - Impact on Education, Climate Change – A real threat, Marina Beach, Waste Management in Chennai.

Highlights of the Overseas Trainees Courses

- Sponsored by the Indian Technical and Economic Cooperation Scheme (ITEC) and the Special Commonwealth Africa Assistance Programme (SCAPP) of the Ministry of External Affairs and Technical Corporation Scheme (TCS) of Colombo Plan of Ministry of Finance of Government of India.
- A total of 150 participants (teachers and administrators) from 38 countries
- Individual presentation in the seminars by the participants and carrying out project work individually.
- Exposure to Indian culture and tradition through visits.
- Positive feedback received regarding 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.

4.2 SHORT TERM TRAINING PROGRAMMES

a) 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 improving the competencies of a large number of teachers in a relatively short period through short-term staff development courses of one to two weeks duration. Recognizing the need for teachers and other staff to enrich their knowledge and keep themselves abreast with the latest technologies, the institute organised training and re-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.

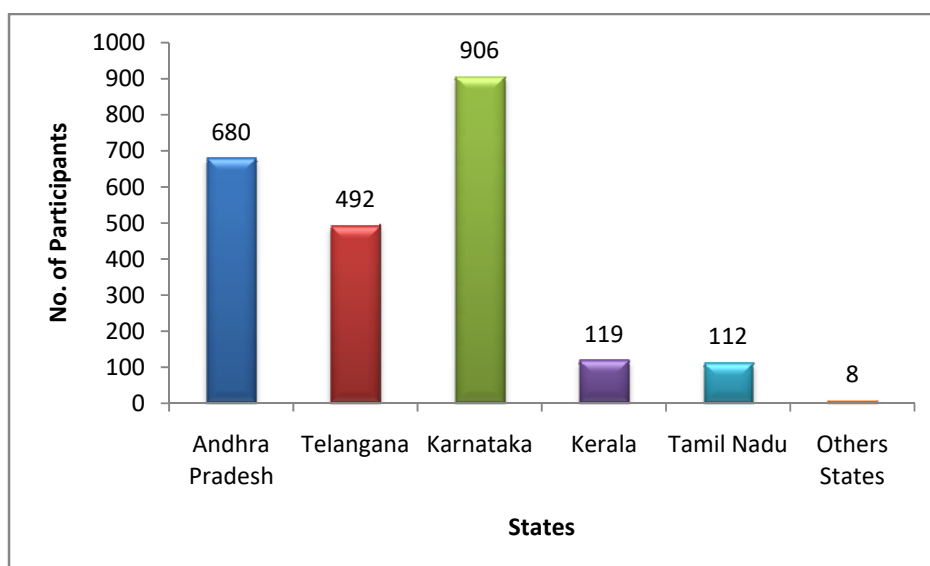
The specific training needs of the teachers of the polytechnics in each of the southern states were identified through customized workshops. Four such workshops were conducted – one in each state. The course details, duration and venue were finalized in Programme Development Committee meetings attended by the representatives of Directorates of Technical Education and Principals of selected Polytechnics. These meetings ensured that the courses planned, designed and conducted catered to the training needs of teachers. These staff development courses were organized at the institute, its Extension Centres and also in selected polytechnics. 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
- ▶ Instructional Design and Delivery System (Basic and Advanced Pedagogy)
- ▶ Evaluation of Students Performance
- ▶ Instructional Content Development for Electronic Media
- ▶ Use of free and open source software
- ▶ ICT Tools for Teachers
- ▶ Research Methodology
- ▶ TQM Practices in Industry
- ▶ Curriculum Revision for Diploma Programmes.

The performance in this area during the year under report had been impressive as 107 courses were conducted involving a total of **2317** participants (Male: **1610**, Female: **707**) from the polytechnics. Thus to date **71,424** teachers have been trained through **3794** courses.



Number of faculty trained during 2015-16

Table 5: Enrolment in Polytechnic courses 2015-16

Sl. No.	TOPIC	No. of Participants
1.	Curriculum Revision Review Workshop of Mechanical and Allied Branches, Applied Science, Applied Mathematics, English	25
2.	Curriculum Frame work and Revision Workshop of Electronics and Allied Branches	29
3.	Induction Training Programme	43
4.	Induction Training Programme	44
5.	Circuit Simulation and PCB Design using MULTISIM	22
6.	Curriculum Revision and Content Development Workshop of Mechanical and Allied Branches	30
7.	Industrial Training on Modern Trends in Automobile Engineering	22
8.	8051 Micro Controller and its Applications	28
9.	Electrical CAD	19
10.	Curriculum Revision and Content Development Workshop of Electronics & Communication and Allied Branches	27
11.	Induction Training Programme	49
12.	Limit State Design of Steel Structures as per I.S. 800-2007	19
13.	CNC Machines	25
14.	Arm Controller LPC 2148 and its Interfacing	28
15.	Non Conventional Energy Sources	21
16.	Educational Technology Tools for Teachers	23
17.	VHDL Programming and Implementation using FPGA	28
18.	Instructional Design & Delivery System	15
19.	Construction Techniques and Management	22
20.	Nano-Technology and Applications	36
21.	Oracle - SQL & PL/SQL	25
22.	Arduino Board Programming	29
23.	Curriculum Revision and Content Development Workshop of Aeronautics and Allied Branches	21
24.	CAD Lab Practice	26
25.	Computer Aided Design and Manufacturing	24
26.	Educational Video Production Workshop for Mechanical and Allied Branch Teachers	15
27.	Library Automation using Open Source Software - KOHA	16
28.	LabVIEW Programming	21
29.	Preparation of Evaluation items for e-Content	21
30.	Repairs and Renovations of Structures	15
31.	Advanced Manufacturing Techniques	19

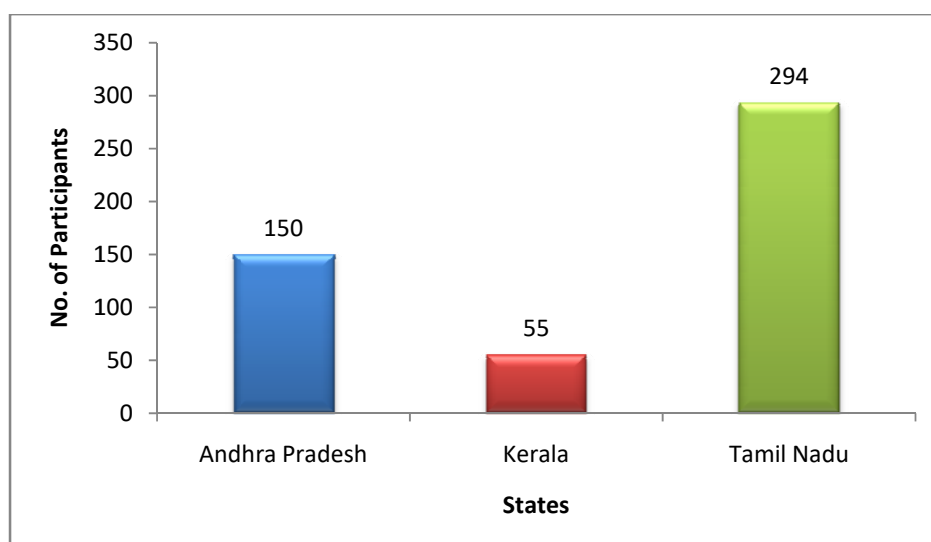
Sl. No.	TOPIC	No. of Participants
32.	Software Engineering	20
33.	PLC and SCADA	27
34.	Curriculum Revision & Content Development Workshop of CSc. & Allied Branches	20
35.	Refresher Course on Refrigeration & Air conditioning	17
36.	Design of Earthquake Resistant Structures	19
37.	Operating System Laboratory Manual Preparation	17
38.	Data Communication and Networking	22
39.	Refresher Course for Physical Education Directors	30
40.	Computer Applications in Project Management	13
41.	e-Content Publishing	16
42.	Special Machines and Control in Electrical Engineering	20
43.	Accounting Package (Tally - Basic Features)	11
44.	Curriculum Revision and Content Development Workshop of Electrical and Electronics and Allied Branches	22
45.	Induction Programme for newly recruited Teachers	50
46.	TQM Practices in Industry	16
47.	Cloud Computing for Collaboration	14
48.	Learning Management System (LMS) for e-Learning	11
49.	Industrial Instrumentation and Automation	19
50.	Modern Surveying using Total Station & GPS	20
51.	Educational Video Production Workshop for Circuit Branch Teachers	13
52.	Multimedia for e-Learning	17
53.	Mobile Computing	23
54.	Curriculum Revision and Content Development Workshop of Civil and Allied Branches	28
55.	Library Automation using Open Source Software - KOHA	11
56.	Geographical Information System and its Applications	19
57.	Computer Aided Manufacturing and Metrology	17
58.	ASP .Net	15
59.	Computer Application in Business	14
60.	Industrial Training on Modern Trends in Automobile Engineering	20
61.	Life Skills - Preparation of Teachers' Support Material	25
62.	Curriculum Revision Workshop of Commercial Practice and Allied Branches III&IV Semester	22
63.	Induction Training Programme	7

Sl. No.	TOPIC	No. of Participants
64.	Induction Programme for newly recruited Teachers	43
65.	Instructional Graphic Design	18
66.	Electrical and Electronic Systems for Wind and Solar Applications	6
67.	Induction Training Programme	39
68.	NBA Accreditation Procedures	42
69.	Electrical Technology Lab Practice	26
70.	Environmental Science and Disaster Management	31
71.	Life Skills	15
72.	Robotics and Mechatronics for Industrial Automation	16
73.	Object Oriented Programming using Java	8
74.	Presentation Tools for Classroom Teaching	17
75.	Field Practices - Preliminary Workshop (Preparation of Teachers Support Material)	50
76.	Curriculum Revision and Content Development Workshop of Printing and Allied Branches III&IV Semester	14
77.	Computer Aided Design and Manufacturing	15
78.	MATLAB Programming	20
79.	Hydraulics & Pneumatics	9
80.	Non Traditional Machining	17
81.	J2EE	15
82.	"Developing Activities/Assessment for Integrating attributes to III and IV Semester Courses." Civil Engg. and Allied Branches	26
83.	Optical Fiber Communication	19
84.	Free and Open Source Software in Civil Engineering	8
85.	Thermal Engineering	12
86.	PHP and MySQL	10
87.	"Developing Activities/Assessment for Integrating attributes to III and IV Semester Courses." Electrical and Electronics and Allied Branches	20
88.	Advances in Heat Treatment & Non Destructive Testing	6
89.	Networking Programming Manual Development	7
90.	Curriculum Revision Review Workshops of Mechanical Engg. (General) and Allied Branches	36
91.	Field Practices - Final Workshop	26
92.	Training Programme on 'Module on Office Management'	18
93.	Advances in Welding and Manufacturing	10
94.	Accounting Package (Tally - Advanced Features)	18
95.	Induction Training Programme for New Recruited Teachers	47

Sl. No.	TOPIC	No. of Participants
96.	Curriculum Revision Review Workshops of Electronics & Communication Engg. and Allied Branches	50
97.	ICT Tools for Teachers	20
98.	Developing Course outcomes to achieve Programme Outcomes as Desired – Mechanical Engineering	34
99.	Practices in Community Pharmacy	23
100.	Computer Applications in Structural Engineering	12
101.	Computer Integrated Manufacturing	10
102.	Python Programming	13
103.	Developing Activities/Assessment for Integrating attributes to III and IV Semester Courses Electronics & Communication Engg. and Allied Branches	21
104.	Techniques of Teaching Engineering Mechanics	10
105.	Evolving Trends in e-learning	17
106.	Developing Activities/Assessment for Integrating attributes to III and IV Semester Courses Computer Science and Engg. and Allied Branches	21
107.	Modelling and Animation using 3DS Max	12
Total		2317

b) ENGINEERING COLLEGE PROGRAMMES

The institute has also focused its activities to improve the quality of education in engineering colleges through training of teachers. Ten short term courses covering **499** participants (Male: 289, Female: 210) were organised.



Thus to date, **23,503** teachers have been trained through **590** courses during the past fifteen years.

Table 6: Enrolment in Engineering courses - 2015-16

Sl. No.	Venue	No. of Participants
INSTRUCTIONAL DESIGN AND DELIVERY SYSTEM (IDDS)		
1.	TJS Engineering College, Tiruvallur Dt., TN	53
2.	Kingston College of Engineering, Vellore, TN	50
3.	Anil Neerukonda Institute of Technology & Sciences, Sangivalasa, Visakhapatnam, AP	50
4.	Kongunadu College of Engineering and Technology, Thottiam, Trichy, TN	50
5.	KCG College of Technology, Karapakkam, Chennai, TN	37
6.	Annamacharya Institute of Technology & Science, Tirupati, Chittoor Dt., AP	50
7.	Ganadipathy Tulsi's Jain Engineering College, Kaniyambadi, TN	54
8.	Tirumala Engineering College, Narsaraopet, AP	50
INSTRUCTIONAL TECHNOLOGIES NETGEN		
1.	Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala	55
OUTCOME BASED EDUCATION - SAR PREPARATION		
1.	Jerusalem College of Engineering, Chennai, TN	50
Total		499

4.3 INDUSTRIES AND OTHER ORGANISATION PROGRAMMES

The institute has established good collaboration with government organisation and industries. The government organisation and industries are also availing the experience, expertise and resources of institutions for getting their engineers and staff trained. During 2015-16, the Extension Centre, Bangalore of this institute conducted a unique training programme on training trainers programme for Deccan Charters and HAL. A total of 14 participants attended the training programme. Thus to date, 2511 persons had been trained through 116 courses during the past fourteen years.

4.4 INTERNATIONAL SEMINAR/SYMPOSIUM /WORKSHOPS CONDUCTED

A total of ten Seminar/Symposium/workshops were conducted during this year. A total of 489 participants from Engineering colleges, Polytechnic colleges, Industries, Government departments and professionals participated in them. The details of each of these programmes are given below.

a) **UKIERI – AICTE workshop on Further Education Leadership Development programme**

The National Institute of Technical Teachers Training and Research (NITTTR), Chennai served as a delivery partner for UKIERI AICTE Further Education Leadership Development programme (FELDP). This programme focused on identifying and exploring key issues and challenges in the leadership and management of technical and vocational institutions and in turn application of effective leadership and management techniques and their

beneficial impact on departmental and institutional performance. The major learning objective for this training is to develop managerial skills to respond proactively both at the functional and unit levels to achieve the goals of the department and meet the global standards. Under the programme, the four workshops were conducted.



COHORT - 1

Workshop	Duration	No. of Participants
Workshop - 1	October 8-9, 2015	56
COHORT - 2		
Workshop – 1	April 27-29, 2015	41
Workshop - 2	October 5-7, 2015	37
Workshop - 3	March 18-19, 2016	35



These workshops were a part of a comprehensive leadership development programme jointly funded by AICTE and UKIERI. In the workshops, faculty from Dudley College UK served as a resource person. The programme includes face to face training workshops, online resource development with exclusive LMS.

Throughout the workshop, participants are encouraged and empowered to view the training through the lens of their own institution's context, with assessment activities being based around the practical application of their new skills within their organisation.

b) International Symposium on Women Empowerment through Technical and Vocational Education

An International Symposium on “Women Empowerment through Technical and Vocational Education” was organised by National Institute of Technical Teachers Training and Research, Chennai in collaboration with Avinashilingam Institute for Home Science and Higher Education for Women University, Coimbatore on 3rd September, 2015 at Avinashilingam Institute for Home Science and Higher Education for Women University, Coimbatore. The main objective of the seminar was to create awareness on Women Empowerment through Technical and Vocational Education.



A total of 15 Participants from different countries namely Ghana, Seychelles and Sri Lanka in addition to Indian delegates attended this Seminar. Mr. V. Balasubramanian, Director, Avinashilingam Jan Shikshan Sansthan, Coimbatore; Ms. Reshma Srijay, Entrepreneur, Coimbatore and Ms. Ranjana Singhal, Entrepreneur, Coimbatore were served as resource persons for this seminar. The seminar enabled the participants to understand the importance of technical and vocational education for women empowerment.

c) One day workshop on E-learning solutions for Instructional Design and Delivery

A one day workshop on E-learning Solutions for Instructional Design and Delivery was organised by National Institute of Technical Teachers Training and Research, Chennai for the faculty members of AMET University on 19th September 2016. A total of 49 participants attended the workshop. The objective of the workshop was to explore E-learning solutions for Instructional design and delivery in Teaching –Learning process. Dr. Mangala Sunder Krishnan, Professor, NPTEL Web Coordinator, Dept. of Chemistry, IIT Madras delivered lecture on Use of ICT in teaching & NMEICT Products; Mr. Mohammed Kasim Khan, Training Coordinator, NMEICT, IIT Bombay delivered lecture on Learning FOSS through Spoken Tutorials; Dr. V. Shanmuganeethi, Asst. Professor, NITTTR Chennai delivered lecture on Learning Management systems and Dr. P. Malliga, Sr. System Analyst, NITTTR Chennai delivered lecture on MOOCs for Higher Education.

d) One day Symposium on Swami Vivekananda Maharaj and Indian Culture

In commemoration of Swami Vivekananda birthday, the National Institute of Technical Teachers Training and Research, Chennai organised a one day symposium on 'Swami Vivekananda Maharaj and Indian Culture' on 15.03.2016. A total of 100 participants attended the programme. The participants consisted of polytechnic teachers of various disciplines from the states of Andhra Pradesh, Karnataka, Tamil Nadu, overseas participants and faculty members and staff members of NITTTR, Chennai.

Prof. Dr. S. Dhanapal, Director, NITTTR, Chennai, presided over the inaugural programme and welcomed the dignitaries and the participants. Shri K.S.



Sripathi I.A.S. (Retd.), Former Chief Secretary and Former State Chief Information Commissioner, Government of Tamilnadu, delivered the address in an effective way on "Swami Vivekananda Maharaj and Personality Development. Pravrajika Yatindraprana Mataji Sarada Math, Chennai delivered a motivating address, where in, she brought out the need for this programme and explained the topic on

Swami Vivekananda Maharaj and Women Development and Empowerment. Swami Geetasarananda Maharaj of Sri Ramakrishna Math and Mission, Chengalpattu, delivered an inspiring lecture on "Swami Vivekananda Maharaj and Education. Dr. S. Krishnaswami, Founder and Managing Director, Krishnaswami Associates, Chennai delivered the special address on "Swami Vivekananda Maharaj and Indian Culture and Dr. T. Jagathrakshakan, Professor & Head, Centre for International Affairs, NITTTR, Chennai, proposed the vote of thanks for all, concerned with symposium.

The speakers and participants expressed happiness and satisfaction over the programme and felt the importance of marching forward in their professional and personal life, in the path laid out by Swami Vivekananda Maharaj.



e) **Constitution Day Celebration**

The 1st Constitution day was celebrated in the National Institute of Technical Teachers Training and Research, Chennai on 26 November 2015. The day marks the anniversary of the adoption of the Constitution of India by the Constituent Assembly of India on 26 November 1949. The year of 2015 also witnessed the 125th birth anniversary of Dr. Bhimrao Ramji Ambedkar who had chaired the Constituent Assembly and played a pivotal role in the drafting of the Constitution.



The Constitution day celebration started with an invocation song. The Director delivered the welcome address and highlighted the importance of constitution day celebration. The Chief Guest Shri.V.Murthy IAS (Retd.) explained the importance of the constitution and elucidated its prominence in a democratic country. He enlightened the gathering by highlighting some of the path-breaking societal transformation feats and achievements made in the republic India, that have been acclaimed internationally. The former bureaucrat explained the salient features of our constitution and highlighted Political freedom and civil liberty are the keystones of the Indian Constitution which is primarily shaped and moulded for the common man. He also made an appeal to the community to uphold the professional integrity and national priority along with self-discipline in all their actions to make the country really world-class. About 40 participants attended the function. The Constitution day ended with vote of thanks and national anthem.

f) **In-country Programme on “Accreditation and Certification of TVET Institutions”**

The institute conducted an In-Country programme on “Accreditation and Certification of TVET Institutions” from 26th October to 30th October 2015 in collaboration with Colombo Plan Staff College (CPSC), Manila, Philippines.



A total of 41 participants comprising teachers of engineering colleges and polytechnic colleges, and industry personnel attended the programme.

Prof. Dr. S. Dhanapal, Director In-charge, NITTTR, Chennai; Prof. Dr. D. Brahadeeswaran, former Professor and Head, Department of Policy Planning & Educational Research, NITTTR, Chennai; Prof. Dr. G. Kulanthaivel, Officer-in-Charge, CPSC, Manila and Dr. C. Muthamizhchelvan, Director of Engineering and Technology, SRM University, Chennai served as resource persons for the programme.

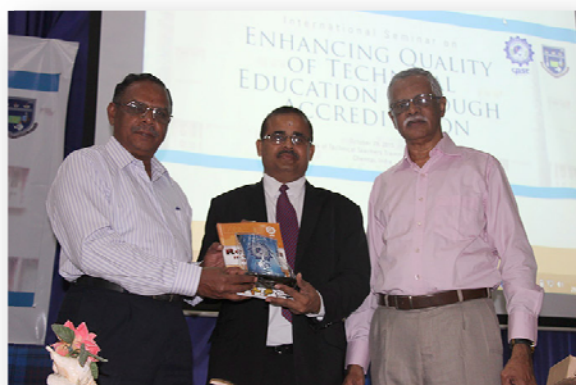
The program mainly aimed to provide knowledge on quality assurance mechanism based on quality system's standard of TVET Institutions that promotes exchange and recognition of standards and criteria. The program had been a platform for discussions on building TVET excellence through accreditation and certification system.

The program also intended to make the participants appreciate the need for and importance of accreditation and certification of TVET programs and institutions to respond to the national, regional, and global labour market through the understanding of concepts and components of accreditation. The program communicated the nature and significance of various criteria and parameters used for accreditation as a tool for improving the quality of TVET Institutions. It also raised participants' comprehension on the steps leading to processes of accreditation and its evaluation procedures for certification and identify issues and intervention areas in accreditation and certification of TVET program and institutions. Lastly, the participants prepared an action plan for accreditation of the institutions.

g) International Seminar on Enhancing Quality of Technical Education through Accreditation"

A one day International Seminar on "Enhancing Quality of Technical Education through Accreditation" was conducted by the institute in collaboration with Colombo Plan Staff College (CPSC), Manila, Philippines on 29th October, 2015. A total of 75 participants comprising of Deans, Principals, Professors of Technical Universities, Engineering Colleges & Polytechnics were attended the programme.

Prof. Dr. G. Kulanthaivel, Officer-in-Charge, CPSC, Manila, Philippines; Dr. K. Sundaramoorthy, Additional Director of Technical Education, Directorate of Technical Education, Chennai; Prof. Dr. S. Dhanapal, Director In-charge, NITTTR, Chennai; Prof. Dr. G. Jayaraman, Professor,



School of Bio Sciences and Technology & IQAC Coordinator, VIT University, Vellore; Prof. Dr. D. Brahadeeswaran, Former Professor and Head, Department of Policy Planning & Educational Research, NITTTR, Chennai and Shri. B. Nandagopal, Former Principal of Murugappa Polytechnic College, Chennai were served as resource persons for this seminar.

Areas covered include the role of APACC in regional mobilization highlighting the experience of the Philippines and Malaysia, the experience of other institutions subscribing to alternative accreditation bodies and issues and intervention areas in accreditation and certification, focusing on India's experience. A case study of the Murugappa Polytechnic College in Chennai, which was recently granted an accreditation, was also discussed. This is to spark the interest of the participants on the benefits of accreditation and encourage them to work towards obtaining this distinction for their institutions.

5.0 CURRICULUM DEVELOPMENT

Curriculum Development Centre 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, in furtherance of this objective, 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 2015-16, Curricula of 35 programmes consisting of 250 courses were revised for the polytechnics of Karnataka state. Curricula of 8 programmes consisting of 80 courses were revised for the polytechnic of Kerala State.

6.0 INSTRUCTIONAL MATERIALS DEVELOPMENT

During 2015-16, the institute has developed seven lab manuals and updated the 46 course materials in various Engineering subjects, Pedagogy and Management for use by teachers of technical institutions.

7.0 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 under report 9 video programmes were produced for teachers and students of technical education institutions.

8.0 RESEARCH PROJECTS AND CONSULTANCY PROJECTS

During 2015-16, the following 4 projects sponsored by various agencies were undertaken by the faculty of the Institute:

Table 7: Particulars of Research Projects

S. No.	Title of the Project	Sponsoring agency	Coordinators/ Members	Status	Funds allotted
i.	Demonstrating Environmentally Sound Technologies for management of open dumpsites of MSW and transition towards controlled land filling practices.	TNPCB, Chennai.	Dr. G. Janardhanan Er. K. S. A. Dinesh Kumar	Ongoing	716950

Table 8: Particulars of Consultancy Projects

S. No.	Title of the Project	Sponsoring agency	Coordinators/ Members	Status	Funds allotted
i.	Computation of Volume using total station & GPS for Athipattu Site	TNSCB, Chennai.	Dr. S. Mohan Dr. G. Janardhanan Er. K. S. A. Dinesh Kumar	Completed	146068

S. No.	Title of the Project	Sponsoring agency	Coordinators/ Members	Status	Funds allotted
ii.	Tamil Nadu Road Sector Project Training Program	TNRSP Highways, Chennai	Dr. S. Mohan Dr. G. Janardhanan Er. K. S. A. Dinesh Kumar	Ongoing	2372000
iii.	Checking the Design & Monitoring the land fill Phase II & Phase III	TNWML Chennai	Dr. G. Janardhanan	Ongoing	950000
TOTAL					3468068

9.0 SCHEME OF COMMUNITY DEVELOPMENT THROUGH POLYTECHNICS

As a Direct Central Assistance Scheme, the scheme of Community Development Through Polytechnic (CDTP) sponsored by MHRD, Govt. of India, New Delhi in February 2009 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 table:

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:

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

Role of NITTTR

To enable the project personnel associated with the implementation of the Scheme in their respective polytechnics, the Centre for Sustainable Development (CSD) 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 CSD assists the MHRD in preparation of various progress Reports and the Expenditure related matters.

During the Year 2015-16, the Operational Plan Proposals for the Scheme of CDTP submitted by the Polytechnics in the Southern Region were scrutinized and approved. Also the Utilisation Certificates (UC's), Statement of Accounts (SOA's) and the Physical Achievement Reports (PAR) submitted by the polytechnics for the year 2014-15 were compiled and forwarded to the Ministry.

Besides, the Expenditure details and the Annual Report (PAR) relating to each of the Polytechnic in the region for the year 2014-15 were prepared and submitted to the Ministry.

During the year 2015-16, the Nodal Officers meeting for Karnataka, Tamil Nadu and Kerala State was conducted separately on preparation of success stories based on skill development training activity. The success stories prepared by the polytechnics cover the areas of activities of skill development training, transfer of technology and technical service under the scheme of CDTP. The candidates who had successfully started self employment ventures, got wage employment in various concerns and candidates who got job in abroad were participated in this programme.

10.0 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.

Objectives of the Scheme

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

- Networking and collaborating with resource institutions and other organizations and take their assistance for manpower training, guidance and effective implementation of the scheme.
- Sensitizing 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.
- Developing innovative educational technologies and approaches for education, training and rehabilitation of youth with disabilities.
- Strengthening 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.
- Evolving suitable methods and practices for monitoring the scheme.

Polytechnics in the Southern region implementing the Scheme

- Dr. Dharmambal Govt. Polytechnic College for Women, Chennai
- Government Polytechnic College for Women, Coimbatore
- Arasan Ganesan Polytechnic College, Sivakasi
- Women's Polytechnic, Lawspet, Pondicherry
- Government Polytechnic, Kottayam
- Sree Rama Government Polytechnic, Thriprayar
- Smt. LV 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 2015 - 16 are given below:

PWD STUDENTS	
FORMAL DIPLOMA PROGRAMMES (Admitted)	NON- FORMAL COURSES (Trained)
32	152

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

- Art and Handicraft
- Artificial Jewellery Making
- Basic Computer Skills

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

The implementation of the scheme was monitored through constant interaction with the officials of the concerned project polytechnics.

11.0 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:-

The Official Language Implementation Committee of MHRD (O.L.), Department of Hr. Education, New Delhi – selects the Office for Official Language Shield for Best Implementation every year. Accordingly, NITTTR, Chennai has been chosen consecutively for the second time “Rajbhasha Shield” for the Year 2014 for its “excellent performance” in the implementation of Official Language.



Accordingly, Shri. J. Ramesh Kumar representing NITTTR, Chennai received the “Rajbhasha Shield” at the All India Official Language Seminar held on 14th & 15th May, 2015 at Sardar Vallabhai National Institute of Technology, Ichanath, Surat (Gujarat) under the auspicious of MHRD (O.L.). New Delhi.

1. A one day Hindi workshop was organized by Hindi Cell of our Institute on 25/05/2015. 17 participants attended this Workshop.
2. A one day Hindi workshop was organized by Hindi Cell of our Institute on 23/09/2015. 19 participants attended this Workshop.
3. On 01/09/2015 a Painting, Elocution & Essay Competition in Hindi on "Dr. A.P.J. Abdul Kalam's Vision & Mission of India 2020" for School Children's in and around Chennai was invited. Around 10 Schools and 129 students participated and the prizes for the winners were awarded on the occasion of celebration (Hindi Day) held on 11/09/2015.
4. Hindi Pakhwadas were conducted in the Institute from 1st to 3rd September 2015 and Hindi Day was celebrated on 11th September 2015. Various Competitions viz. Hindi – Essay Writing, Copying a given paragraph in Neat Handwriting (for Group 'D'), Hindi Anthakshari & Hindi Debate (Topic: Modernity & Tradition) - were conducted for the Faculty, staff members and trainees of the Institute. Shri. S.M. Saleem, Deputy Commissioner, Kendriya Vidyalaya Sangathan (KVS), RO, Chennai - was the Chief Guest for the Function.
5. A one day Hindi workshop was organized by Hindi Cell of our Institute on 27/10/2015. 20 participants attended this Workshop.
6. On account of "Mother Tongue Day" celebrated on 03/03/2016, Competitions viz. Debate, Elocution and Essay (Hindi & Tamil languages) were conducted for the Faculty and staff members of the institute. Around 19 persons participated and the winners were awarded prizes.
7. A one day Hindi workshop was organized by Hindi Cell of our Institute on 30/03/2016. 16 participants attended this Workshop.



12.0 FACULTY NEWS

Most of the Faculty members of the institute have served as members of various expert committees constituted by AICTE, MHRD, ISTE, Directorates of Technical Education, Universities and Autonomous Colleges.

Training Programmes / Seminar / Conference and Workshops attended:

1. Dr. R. Ravichandran attended the National Workshop On "Open Source Software: Koha, DSpace and Joomla" organized by IIT, Roorkee from 04.05.2015 to 08.05.2015.
2. Dr. G.A. Rathy attended two week training programme on "Solar Photovoltaic System Design, Installation, Project Engineering and Management" conducted by MSME Development Institute, Chennai from 07.09.15 to 18.09.15.
3. Er. K.S.A. Dinesh Kumar attended a one day seminar on "ESRI Technology Exposition" organized by ESRI India at Chennai on 22.09.15,
4. Dr. S. Somasundaram attended an International Conference on Advances in Mechanical Engineering conducted by University College of Engineering, Villupuram from 15.10.2015 to 16.10.2015.
5. Dr. G. A. Rathy attended the 18th National Training Course on "Wind Energy Technology" at National Institute of Wind Energy, Chennai from 26.10.15 to 30.10.15.
6. Er. K.S.A. Dinesh Kumar attended the 8th KSTA Annual Conference on "Science and Technology for GenNext Urban Space, organized by Karnataka Science and Technology Academy & Bangalore Institute of Technology on 05.11.15 to 06.11.15.
7. Dr. P. Sivasankar attended a seminar on 'RF & Microwave Test' conducted by National Instruments at Chennai on 15.03.16
8. Dr. P. Sivasankar attended a one day seminar on 'Engineering Education & Research' conducted by National Instruments at Chennai on 22.03.16

Papers Presented in Conferences:

1. Rathy, G. A. (2015, July). *Curriculum development through industry institute interaction*. Paper presented at National Workshop on 3rd Annual Summit on 'Sustainable Institute Interaction Partnership & SIIP Awards - 2015', Chennai, Tamil Nadu
2. Rathy, G. A. (2015, November). *Solar LED street light controller with 24W LED lamp driver and 75 Wp battery charger based on arduino programming – A real-time application*. Paper presented at the International Conference on 'Alternate Energy Technologies', Coimbatore, Tamil Nadu.
3. Rathy, G. A. and Sivasankar, P. (2015, April). Speed control of PMBLDC motor using LPC 2148 – A practical approach. Paper presented at the international conference on 'Electronics Design Innovations & Technologies, Chandigarh, Punjab.
4. Sivasankar, P. and Rathy, G. A. (2015, April). Implementing energy efficient strategies in the MANET on-demand routing protocols and comparing their performances. Paper presented at the international conference on 'Electronics Design Innovations & Technologies', Chandigarh, Punjab.
5. Umashanker, Sahu. (2015, December). *Compensation of fiber non linear impairments using optical back propagation*. Paper presented at the International Conference on Microwave, Optical and Communication Engineering, Bhubaneswar, Odisha.

Papers published in Proceedings:

1. Janardhanan, G. (2016). Enhancing the attainment of environmental engineering laboratory course outcomes through Virtual Laboratories, *Proceedings of the third World Summit on Accreditation*. New Delhi.
2. Janardhanan, G. (2016). Redefining the evaluation of internship programme for enhancing the quality of course outcome, *Proceedings of the third World Summit on Accreditation*. New Delhi.

Papers published in Journals:

1. Rathy, G. A. (2015). Solar LED street light controller with 24W LED lamp driver and 75 Wp battery charger based on arduino programming – A real-time application. *International Journal of Applied Engineering Research*, 10(88), 130-134.
2. Shankar, T., Sivasankar, P., Karthikeyan., A. & Rajeev Ranjan Neha. (2015). Implementation of smart sleep mechanism and hybrid data collection technique for maximizing network lifetime in WSN's. *Indian Journal of Science and Technology*, 8(9), 1-8.
3. Ruso, T., Chellappan, C., & Sivasankar, P. (2015). Ppsm:push/pull smooth video streaming multicast protocol design and implementation for an overlay network. *Multimedia Tools and Applications Springer Journal*, 75(24), 1-23, doi: 10.1007/s11042-015-2979-5.
4. Sivasankar, P. and Rathy, G. A. (2015). Implementing energy efficient strategies in the manet on-demand routing protocols and comparing their performances. *International Journal of Electrical and Electronics Engineering*, 2(1), 111-115.
5. Rathy, G. A. and Sivasankar, P. (2015, April). Speed control of PMLDC motor using LPC 2148 – A practical approach. . *International Journal of Electrical and Electronics Engineering*, 1(1), 128-131.
6. Renukadevi, S. and Sidhan Mohan. (2015). Impact of learning java design patterns on the design competency of computer science and engineering students. *Indian Journal of Applied Psychology*, 52, 49-55.
7. Renukadevi, S., Sidhan Mohan., Panneerselvam Karthikeyan., Boulanger David., & Seanosky Jeremie. (2015). Learning analytics: Proficiency and confidence levels of novice java programmers. *Journal of Psychological Researches*, 59(2), 57-62.
8. Krishnaraj, G. and Renukadevi, S.(2015). Textile executive perception towards interpersonal skill requirements for entry level textile graduates in India, *International Journal of Engineering Science Invention Research and Development*, 2(1), 73-80.
9. Janardhanan, G., Dinesh Kumar, K. S. A., & Karthigeswari, S. (2015). Spatial analysis to ascertain the induced development in the east coast road, Tamil Nadu. *Journal of Advanced Research in Geo Sciences & Remote Sensing*, 2(3), 128-137.

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.

13.0 ACKNOWLEDGEMENTS

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

- The Government of India, Ministry of Human Resource Development (Department of Secondary Education & Higher Education) for its continued support to all its programmes and activities;
- The Board of Governors and its sub-committees for their contribution to the Governance of the institute;
- 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;
- Industries and their managements for their cooperation and assistance in conducting various programmes effectively;
- The faculty and staff of the institute for their hard work and dedication in making the reporting year an eventful one;
- The Press, All India Radio, Doordarshan for publicity and support for the institute's programmes and activities.

14.0 BOARD AND SUBCOMMITTEES

The composition of the Board of Governors, Finance Committee and the various committees of the Board are given in Appendices (i), (ii) and (iii) of this report.

APPENDICES

Appendix I

NITTTR CHENNAI SOCIETY AND BOARD OF GOVERNORS

(As on 31.03.2016)

Chairman

Prof. Dr. Allam Appa Rao

Chairman – BOG of NITTTR, Chennai

Director

CR Rao Advanced Institute of Mathematics, Statistics & Computer Science (AIMSCS),

University of Hyderabad Campus,

Central University Post office, Hyderabad -500 046, AP, India

Member-Secretary

Prof. Dr. S. Dhanapal

Director in-charge

National Institute of Technical Teachers Training and Research

Taramani, Chennai-600 113

MEMBERS

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

Joint Secretary (TEL)

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

Dr. Avinash S Pant

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

Faculty Representative

Dr. S. Dhanasekaran

Professor & Head
Department of Electronics Engineering
NITTTR, Chennai – 600 113

FINANCE COMMITTEE

Chairman

Prof. Dr. Allam Appa Rao

Chairman – BOG of NITTTR, Chennai
Director,
CR Rao Advanced Institute of Mathematics, Statistics &
Computer Science (AIMSCS),
University of Hyderabad Campus,
Central University Post office
Hyderabad - 500 046, AP, India

Members

Joint Secretary (TEL)

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. S. Dhanapal

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

SUB COMMITTEES OF THE BOARD**1. STAFF SELECTION COMMITTEE**
[As per AICTE Norms]**Members**

Chairman
Board of Governors
NITTTR, Chennai – 600 113

Director
NITTTR, Chennai – 600 113

Head of the Department in the rank of Professor
NITTTR, Chennai – 600 113

Nominees of University of Madras in the rank of Professor

Two subject Experts

2. BUILDINGS COMMITTEE**Chairman**

Commissioner of Technical Education
Directorate of Technical Education
Government of Tamil Nadu
Guindy, Chennai-600 025

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 In-Charge / Administration
NITTTR, Chennai -600113

Members

Dr. S Dhanasekaran
Professor & Head
Department of Electronics
NITTTR, Chennai -600113

Dr. P Malliga
Sr. System Analyst
NITTTR, Chennai -600113.

Dr. K.S. Giridharan
Assistant Professor
Centre for Sustainable Development
NITTTR, Chennai – 600 113.

External Members

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

1. ACADEMIC COUNCIL

Chairman

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

Members

All Professors / Heads of Departments

Two Associate Professors

Two Assistant Professors

Two Eminent persons from the field of Technical education

2. BOARD OF STUDIES FOR ALL ACADEMIC PROGRAMMES

- | | | |
|---------------------------|---|------------------|
| 1. Dr. S. Dhanapal | - | Chairman |
| 2. Dr. C.R. Nagendra Rao | - | Member Secretary |
| 3. Dr. S. Dhanasekaran | - | Member |
| 4. Dr. V.K. Natarajan | - | Member |
| 5. Dr. S. Renukadevi | - | Member |
| 6. Dr. T. Jagathrakshakan | - | Member |
| 7. Dr. E.S.M. Suresh | - | Member |
| 8. Dr. R. Ravichandran | - | Member |
| 9. Dr. G.A. Rathy | - | Member |
| 10. Dr. V. Shanmuganeethi | - | Member |
| 11. Dr. P. Malliga | - | Member |
| 12. Dr. G. Janardhanan | - | Member |

GRIEVANCE REDRESSAL COMMITTEE

Dr. V.K. Natarajan
Professor & Head,
Centre for Rural Development

Chairman

Dr. T. Jagathrakshakan
Professor & Head i/c
Centre for International Affairs (CIA)

Member

Dr. G.A. Rathy
Assistant Professor
Dept. of Electrical Engineering

Member

PUBLIC INFORMATION OFFICER

Dr. R. Ravichandran
Sr. Librarian
Resource Centre

**COMMITTEE FOR PREVENTION OF SEXUAL HARASSMENT
OF WOMAN AT WORK PLACE**

Dr. S. Renukadevi
Professor & Head i/c of Education

Chairperson

Dr. S. Dhanapal
Director in-charge

Member

Smt. R. Vanajakumari
Senior P.A. to Director

Member

PARTICULARS OF COMMITTEE MEETINGS

	No.	
Board of Governors	32 nd	24.08.2015
	33 rd	19.09.2015
Finance Committee	31 st	24.08.2015
	32 nd	19.09.2015

LIST OF FACULTY AND STAFF

DIRECTOR IN-CHARGE	Prof. Dr. S. Dhanapal, B.E., M.Sc. (Engg.) Ph.D.
Centre for Environmental Management	Dr. G. Janardhanan, M.E., Ph.D. (USA) Associate Professor
Centre for Sustainable Development	Dr. V.K. Natarajan, M.A., M.A., Ph.D., Professor & Head Dr. K.S. Giridharan, B.E., M.Tech., Ph.D. Assistant Professor
Centre for International Affairs	Dr. T. Jagathrakshakan, B.E (Hons.), M.E., Ph.D., Professor of Civil Engineering and Head i/c CIA
Civil Engineering	Dr. E.S.M. Suresh, B.E., M.E., Ph.D., Professor of Civil Engineering and Head Dr. R. Santhakumar, M.E., Ph.D. Associate Professor in Engineering
Curriculum Development Centre	Er. K.S.A. Dinesh Kumar, M.E., Assistant Professor Dr. C.R. Nagendra Rao, M.Tech., Ph.D., B.Tech., PGDTCA Professor & Head in-charge Shri. D.V. Suryanarayana, B.E., Programmer
Education	Dr. S. Renukadevi, B.Sc, MCA, M.Phil., Ph.D., Professor of Education and Head i/c Dr. S. Rajasekar, B.E. M.Tech (HRD) Ph.D. Research Assistant in Education
Educational Media Centre	Dr. P. Malliga, B.E., M.S., Ph.D. Sr. System Analyst

Educational Technology & Multimedia

Dr. V. Shanmuganeethi, M.E., Ph.D.
Assistant Professor and Head in-charge

Shri A. P. Felix Arokiya Raj, B.Sc., M.Sc., D.F.Tech.,
Assistant Professor

Electrical Engineering

Dr. G.A. Rathy, M.E., PGDCA., Ph.D.,
Assistant Professor

Electronics Engineering

Dr. S. Dhanasekaran, B.E., M.Sc. (Engg.), Ph.D.
Professor & Head

Dr. P. Sivasankar, M.E., Ph.D.
Assistant Professor

Extension Centre, Bangalore

Dr. P. Arunkumar, M.Sc., M.Ed., Ph.D.
Professor & Head

Shri. V. Sivakumar, M.E.
Assistant Professor

Extension Centre, Hyderabad

Shri. U.S. Sahu, B.E., M.Tech.,
Associate Professor

Extension Centre, Kalamassery

Shri. Philip Kurian, M.Sc. (Engg.)
Associate Professor & Head in-charge

Mechanical Engineering

Dr. S. Somasundaram, M.E., Ph.D.,
Assistant Professor

Shri. M. Senthilkumar, B.E., M.Tech.,
Assistant Professor

Resource Centre

Dr. R. Ravichandran, M.Sc., M.LIS., M.Ed., M.B.A., Ph.D.,
Sr. Librarian

HOSTEL

Warden

Prof. Dr. S. Dhanapal
Director in-charge

Deputy Warden

Dr. P. Malliga
Sr. System Analyst
Education Media Centre

Assistant Warden

Dr. V. Shanmuganeethi
Asst. Professor
Dept. of Educational Technology and Multimedia

Dr. R. Ravichandran (Guest House)
Sr. Librarian
Resource Centre

Medical Officer (Part-time)

Dr. N.B. Anand, M.D. D.M.R.D.,
Dr. D. Parthasarathy, B.Sc., M.B.B.S.,D.A.,
(From 02.03.2016 onwards)

Part – II

REPORT ON ACCOUNTS 2015-16

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

**Separate Audit Report of the Comptroller & Auditor General of India on the
Accounts of National Institute of Technical Teachers Training and Research,
Chennai for the year ended 31 March 2016**

We have audited the attached Balance Sheet of National Institute of Technical Teachers' Training and Research, Chennai as at 31 March 2016, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 20 (1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. The audit has been entrusted for the period up to 2017-2018. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

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

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

4 Based on our audit, we report that:

i We have obtained all the information and explanations (except mentioned in comment No C-4 to C-7 and Annexure 2 (iii)), which to the best of our knowledge and belief were necessary for the purpose of our audit.

ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the format approved by Ministry of Human Resource Development.

iii In our opinion, proper books of accounts and other relevant records have been maintained by National Institute of Technical Teachers' Training and Research, Chennai as required in the rules and regulations of the Institute in so far as it appears from our examination of such books.

iv We further report that:

A Balance Sheet

1 Application of Funds – Schedule 4 - Fixed Assets Rs 17.07 crore

The Net Block of the Assets have been revised as per Straight Line Method. However, since Gross Block and Depreciation have not been revised, audit could not verify the figure. The Point No. 4 Schedule 24 (Major Accounting Policy) depreciation calculated as per WDV method needs to be corrected and depreciation should be charged retrospectively on the original cost of Assets and its impact should be disclosed in Notes on Accounts. Further disclosure made in Schedule 24 should be revised accordingly (i.e) Depreciation was provided on the basis of Straight Line Method.

2 Schedule 3 – current Liabilities A. Rs 18.17 crore

As per Ledger account, Tax deducted at source amounting to Rs 71,498 was neither accounted as Liability nor remitted to Government Account.

B. Receipts and Payments Account

VIII Plan General Expenditure Rs 2.04 crore

An amount of Rs.2,75,400 pertaining to IDDS project which was incorrectly accounted as 'Plan General Expenditure' in Schedule 23 of Income and Expenditure Account had been reduced from the schedule. However, in the Receipts & Payments Account, the above amount was not reduced from "VIII- Plan General Expenditure" head resulting in overstatement of Payments to the above extent.

C General

1 Institute's accounting policies not in conformity with the MHRD format of accounting

The Institute has mentioned in Schedule 24 - 'Significant Accounting Policies' that the Financial Statements have been prepared in the format prescribed by MHRD.

Whereas in Schedule 25 'Notes on accounts', it has been stated that the Financial Statements are prepared on cash basis and the interest on deposits are accounted on cash basis.

However, in contrary to the above disclosure, provision was created for certain outstanding expenses like salary payable, pension payable, vehicle and electrical maintenance payable and Audit Fees payable under Schedule – 3 current liabilities in balance sheet.

Thus the Financial Statements should be prepared by the Institute in conformity with the format prescribed by MHRD, (i.e) accrual basis.

2 Retirement benefits were not provided on Actuarial Valuation basis

Further, Provision for retirement benefits has not been made on actuarial valuation basis required as per Accounting Standards 15.

3 General

Out of Grant-in-aid sanctioned under Non-Plan (General) during the financial year 2015-16 as third instalment amounting to Rs.1.70 core, only an amount of Rs 1.65 crore was released to the Institute as on 31.3.2016.

However, the Institute had accounted Rs.1.65 crore as 'Grant' in their accounts resulting in understatement of 'Income' as well as understatement of 'current assets' – 'Grants receivable' to the tune of Rs 0.05 crore.

4 Bank Reconciliation statements not furnished

In respect of Project Account, Bank Reconciliation Statement explaining the difference of Rs 2.19 lakhs between the closing Balance as per Financial Statement (Rs 85.72 lakh) and the closing Balance as per Bank Statement (Rs 83.53 lakh) was not furnished.

5 GPF Balance Sheet –Liabilities and NPS Balance Sheet – Assets – Contra entries - Rs 14,69,721

Contra entries were not reconciled and rectified resulting in deviated picture of the respective Balance Sheets of GPF and NPS Accounts.

6 Schedule 3 – current Liabilities A. Rs 18.17 crore

Deposits from students, Sundry creditors, statutory liabilities and other current liabilities amounting to Rs 10.39 lakh were not identified and reconciled.

7 GPF Balance Sheet

The following Liabilities and assets of GPF Balance sheet were not identified and reconciled:

S. No.	Liabilities	Amount (Rs.)
1.	Unclaimed Balance	3,286
2.	Employer's Contribution	2,31,862
3.	CPF UC due to CPF	6,816

D Effect of Revision in Accounts

Based on audit observations, accounts of National Institute of Technical Teachers' Training and Research, Chennai were revised. As a result of revision, Assets and Liabilities were increased by Rs. 2.02 crore and deficit was decreased by Rs 1.99 crore.

E Grants-in-aid

Out of the Grants-in-aid of Rs 22.83 crore received for the year 2015-16 and Rs 7.04 crore being unspent balance of the previous year, the Institute could utilize only Rs 13.94 crore leaving a balance of Rs 15.93 crore as unutilized grant as on 31st March 2016.

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.

vi In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

a. In so far as it relates to the Balance Sheet, of the state of affairs of National Institute of Technical Teachers' Training and Research, Chennai as at 31 March 2016; and

b. In so far as it relates to Income & Expenditure Account, of the deficit for the year ended on that date.

For and on behalf of the C&AG of India

Place : Chennai
Date : 9.2.2017

Principal Director of Audit (Central),
Chennai

Annexure to Separate Audit Report

1 Adequacy of Internal Audit System:

No internal audit system exists in the institute.

2 Adequacy of Internal Control System:

Internal control system exists but needs to be strengthened as no approved Internal Control manual available.

- (i) Certain items of liabilities and assets in GPF and NPS Balance sheets and certain items of Deposits from students, Sundry creditors, statutory liabilities and other current liabilities were not traced out/identified/reconciled.
- (ii) No internal audit system exist.
- (iii) Bank Reconciliation Statement in respect of Project Account was not furnished.
- (iv) Internal controls were not adequate as accounts of the Institute were revised due to significant findings of audit and its impact on Balance Sheet was Rs. 2.02 crore and on Income and Expenditure Account was Rs 1.99 crore.

3 System of Physical verification of Fixed Assets:

Physical verification of Fixed Assets was done for 2015-16.

4 System of Physical verification of Inventory:

Physical verification of Inventory was done for 2015-16.

5 Regularity in payment of statutory dues

Amount recovered as Tax Deducted at Source was not remitted to Government.



Director/ CAB

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

ANNUAL ACCOUNTS 2015-16

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI CHENNAI -600113
BALANCE SHEET AS AT 31.03.2016

SOURCES OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2015-16	Previous Year 2014-15
CORPUS/CAPITAL FUND	1	201629248.58	205061587.33
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	360151.00	360151.00
CURRENT LIABILITIES & PROVISIONS	3	190124638.00	96211912.00
TOTAL		392114037.58	301633650.33

APPLICATION OF FUNDS	Schedule	Amount in Rs.	
		Current Year 2015-16	Previous Year 2014-15
FIXED ASSETS	4	170689912.00	167902092.00
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	127584774.58	24252938.33
ADVANCES & DEPOSITS	8	93839351.00	109478620.00
TOTAL		392114037.58	301633650.33

SIGNIFICANT ACCOUNTING POLICIES 24

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS 25

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

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31.03.2016

		Amount in Rs.	
Particulars	Schedule	Current Year 2015-16	Previous Year 2014-15
INCOME:			
Academic Receipts	9	811001.00	1273300.00
Grants / Subsidies	10	130927161.00	140346291.00
Income from investments	11	1038479.00	2493431.00
Interest earned	12	56468.27	42507.00
Other Income	13	4043050.39	5881431.33
Increase/Decrease in Stock WIP			
Prior Period Income	14	0.00	0.00
TOTAL (A)		136876159.66	150036960.33
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	110846575.00	116182235.00
Academic Expenses	16	0.00	0.00
Administrative and General Expenses	17	11242119.41	9647433.00
Transportation Expenses	18	196842.00	214115.00
Repairs & Maintenance	19	1388701.00	2310330.00
Finance costs	20	0.00	0.00
Depreciation	4	4670824.00	21028711.00
Other Expenses	21	0.00	0.00
Prior Period Expenses	22	0.00	0.00
Plan General Expenses	23	20095119.00	24164056.00
TOTAL (B)		148440180.41	173546880.00
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		-11564020.75	-23509919.67

Significant Accounting Policies

Contingent Liabilities and Notes to Accounts

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SCHEDULE -1 CORPUS/CAPITAL FUND

		Amount in Rs.	
Particulars		Current Year 2015-16	Previous Year 2014-15
Balance at the beginning of the year		205061587.33	221508138.00
Add:	Contributions towards Corpus/Capital Fund		
Add:	Grants from UGC, Government of India and State Government to the utilized for capital expenditure	8485097.00	9372154.00
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		
Add:	CPWD Deposit Difference	1,53,973.00	
Total		213700657.33	230880292.00
Less:	Ommision on Opening Plan General		-239945.00
	Income Receivable W/off		-2193640.00
	Outstanding Expenses 2014-15 Opening Diff	-507388.00	
	Corpus Fund 10 & 20%		124800.00
Add:	Plan Grant Revenue Expenditure		
Add:	Excess of Income over expenditure trasferred from the Income & Expenditure Account	-11564020.75	-23509919.67
Total		201629248.58	205061587.33
(Deduct)Deficit transferred from the Income & expenditure Account			
Balance at the year end			

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Amount in Rupees

Particulars	Total				
	PWD	AICTE	Rajiv Gandhi	Current	Previous
	Scheme	SDP	N F/W	Year	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					
iii) Revenue Expenditure					
Total (B)	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. Sl.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	
		Endowment	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 2015-16	Previous Year 2014-15
A. CURRENT LIABILITIES		
1. Deposits from Staff		
Caution Deposit for staff Quarters	60,000.00	20,000.00
Staff Quarters	40,582.00	39,400.00
2. Deposits from Students		
Caution Deposit for Ph.D	25,500.00	25,500.00
Scholarship for M. Tech - HRD Deposit	2,24,875.00	2,24,875.00
Boarding Charges - Hostel	42,480.00	42,480.00
Research Scholar - FIP	1,70,000.00	1,70,000.00
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	2,55,456.00	2,55,356.00
4. Deposit- Others (including EMD, Security Deposit)		
AICTE UKIERI Work shop	39,787.00	39,787.00
Earnest Money Deposit	5,08,245.00	13,36,754.00
Community Hall Deposit	38,265.00	29,565.00
Caution Deposit for Canteen	8,000.00	6,000.00
Security Deposit	4,83,751.00	5,11,684.00
GSLIS	10,971.00	10,971.00
5. Statutory liabilities (GPF, TDS WC TAX, CPF, GIS, NPS):		
a) Overdue		
b) Others		
Property Tax Payable	1,30,382.00	1,30,382.00
Duties and Taxes	12,085.00	1,71,695.00

6. Other Current Liabilities		
a) Salaries		72,35,005.00
b) Receipts against Sponsored Projects OTC	1,18,51,364.00	82,14,248.00
Project Account 2013-14	82,14,248.00	
c) Receipts against sponsored fellowships & Scholarships		
d) Unutilised Grants	15,93,45,346.00	7,04,25,604.00
e) Grants in advance		
f) Other funds : Corpus Fund	1,04,000.00	1,04,000.00
g) Other Liabilities : IDDS	70,699.00	
Total (A)	18,16,82,869.00	8,90,79,926.00
B. PROVISIONS		
1. For Taxation		
2. Gratuity		
3. Superannuation Pension		
4. Accumulated Leave Encashment		
5. Trade Warranties /Claims		
6. Outstanding Expenses:		
Staff Salary	58,63,643.00	49,95,081.00
Pension Payments	24,73,799.00	19,63,778.00
Vehicle Maintenance	3,570.00	3,570.00
Electrical Maintenance	5,657.00	5,657.00
Audit Fees Payable	95,100.00	1,63,900.00
Total (B)	84,41,769.00	71,31,986.00
Total (A+B)	19,01,24,638.00	9,62,11,912.00

SCHEDULE - 3 (a) SPONSORED PROJECTS

1. Sl. No.	2. Name of the Project	Opening Balance		5. Receipts/Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance	
		3. Credit	4. Debit				8. Credit	9. Debit
	IDDS	4,50,000.00	2,14,601.00			1,64,700.00	70,699.00	
	Total	4,50,000.00			-		70,699.00	-

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

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

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

SCHEDULE 3 (b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

1. Sl No	2. Name of Sponsor	Opening Balance As On 01.04.2015		Transactions During the year			Closing Balance As On 31.03.16	
		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 2015-16	Previous Year 2014-15
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 2015-16				Net Block	
		Op Balance 01.04.2015	Additions	Deductions	Closing Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.16 31.03.15
1	Land :Free Hold	268500			268500				0	268500
2	Site Development				0				0	0
3	Buildings	66662345			66662345	9779227	1333247		11112474	65329098
4	Roads & Bridges				0				0	0
5	Tubewells & Water Supply				0				0	0
6	Sewerage & Drainage				0				0	0
7	Electrical Installation and equipment	99629			99629	29169	4981		34150	94648
8	Plant & Machinery	11834761	179025		12013786	3464931	600689		4065620	11413097
9	Scientific & Laboratory Equipment				0				0	0
10	Office Equipment	3370554	3494133		6864687	571310	273140		844450	6591547
11	Audio Visual Equipment				0				0	0
12	Computers & Peripherals	5547737	2294161		7841898	3968374	1568380		5536754	6273518
13	Furniture, Fixtures & Fittings	4733056	73860		4806916	871493	360519		1232012	4446397
14	Vehicles	290902			290902	111158	29090		140248	261812
15	Lib. Books & Scientific Journals	2129009	301076		2430085	813524	243009		1056533	2187076
16	Smart Classroom				0	500268		500268	0	0
17	Small Value Assets	1294078	2142842		3436920	431460	257769		689229	3179151
	Total (A)	96230571	8485097	0	104715668	20540914	4670824	500268	24711470	100044844
18	Capital Work in Progress									
	Class Room Construction WIP	71668545		1028453	70642092				0	70642092
	Total (B)	71668545			70642092					71668545
S.No.	Intangible Assets	Op Balance 01.04.2015	Additions	Deductions	CI Balance	Dep Opening Balance	Amortization for the Year	Deductions / Adjustments	Total Depreciation	31.03.16 31.03.15
19	Computer Software								-	
20	E-Journals	2976			2976	487797		487797	-	2976
21	Patents								-	
	Total (C)	2976	0		2976	487797	0	487797	-	2976
	Grand Total (A+B+C)	167902092	8485097	0	175360736	21028711	4670824	988065	24711470	170689912
										167902092

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 01.04.2015	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciati on for the Year	Deductions / Adjustment	Total Deprecia-tion	31.03.2016	31.03.2015
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)										
Total (C)											
S.No	Intangible Assets	Op Balance 01.04.2015	Additions	Deductions	CI Balance	Dep Opening Balance	Amortizati on for the Year	Deductions/ Adjustments	Total Amortization/ Adjustments	31.03.16	31.03.15
18	Computer Software										
19	E-Journals				Nil						
20	Patents										
Total (C)											
Grand Total (A+B+C)											

SCHEDULE 4B NON - PLAN

Amount in Rupees

		Gross Block		Depreciation for the Year 2015-16			Net Block		
Sl. No.	Assets Heads	Op Balance 01.04.2015	Additions	Deductions	Ci Balance	Dep Opening Balance	Depreciat on for the Year	Total Depreciation	
1	Land								31.03.15
2	Site Development								
3	Buildings								
4	Roads & Bridges								
5	Tubewells & Water Supply								
6	Sewerage & Drainage								
7	Electrical Installation & equipment								
8	Plant & Machinery								
9	Scientific & Laboratory Equipment								
10	Office Equipment				Nil				
11	Audio Visual Equipment								
12	Computers & Peripherals								
13	Furniture, Fixtures & Fittings								
14	Vehicles								
15	Lib. Books & Scientific Journals								
16	Small Value Assets								
Total (A)									
17	Capital Work in Progress (B)								
Sl. No.	Intangible Assets	Op Balance 01.04.2015	Additions	Deductions	Ci Balance	Dep Opening Balance	Amortizati on for the Year	Total Amortization/ Adjustments	31.03.15
18	Computer Software								
19	E-Journals-								
20	Patents				Nil				
Total (C) -									
Grand Total (A+B+C)									

SCHEDULE 4 C- INTANGIBLE ASSETS

Amount in Rupees

Sl. No.	Asset Heads	Gross Block				Depreciation Block				Net Block	
		Op. Balance 01.4.2015	Additions	Deductions	Cl. Balance	Depreciation/ Amortizations Opening Balance	Depreciation/ Amortization for the year	Deductions/ Adjustment	Total Depreciation/ Amortization	31.03.16	31.03.15
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 2015-16	Net Block 2014-15
A. Patents Granted						
1 Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs..../-) 2			Nil			
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 2015-16	Net Block 2014-15
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 2015-16				Net Block	
		Op Balance 01.04.2015	Additions	Deductions	CI Balance	Dep Opening Balance	Depreciation for the Year	Deductions / Adjustment	Total Depreciation	31.03.16	31.03.15
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 2015-16	Previous Year 2014-15
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 (2015-16)	Previous Year (2014-15)
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 2015-16	Previous Year 2014-15
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 2015-16	Previous Year 2014-15
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		2,14,750.00	14,500.00
g) Stationery			
h) Water supply material			
i) Postage		28,296.00	18,939.00
2. Sundry Debtors:			
a) Debts Outstanding for a period exceeding six months			
b) Others			
3. Closing Cash and Bank Balances :			
a) With Scheduled Banks:			
- In Current Accounts			
- In term deposit Accounts			
- In Savings Accounts			
In Cash Balance (Permanent Advance)		1,39,600.00	1,23,600.00
In Cash Balance (Temp Advance)		3,29,500.00	7,09,752.00
In Bank Balance		12,68,37,263.31	2,33,52,935.33
In Bank Balance Rajiv Gandhi National Fellowship		4,376.00	4,100.00
In Bank Balance Athletic		24,613.27	22,736.00
b) With non-Scheduled Banks:			
- In term deposit Accounts			
- In Savings Accounts			
4. Post Office- Savings Accounts			
TOTAL		12,75,84,774.58	2,42,52,938.33

Note: Annexure A shows the details of Bank Accounts

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

Amount in Rupees		
	Current Year 2015-16	Previous Year 2014-15
1. Advances to employees: (Non-interest bearing)		
a) Salary		
b) Festival	2,58,949.00	2,42,749.00
c) Medical Advance		14,533.00
d) Other (to be specified)		
Computer Advance	5,64,800.00	8,28,800.00
Conveyance Advance	3,22,850.00	6,06,090.00
Flood Loan Advance	3,11,300.00	3,800.00
Persons with Disabilities	13,893.00	13,893.00
2. Long Term Advances to employees: (Interest bearing)		
a) Vehicle loan		
b) Home loan : House building advance	2,06,113.00	2,66,593.00
c) Others (to be specified)	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) to Suppliers		
c) AICTE UKIERI Work shop	2,99,722.00	
d) Others	92,242.00	53,258.00
4. Prepaid Expenses		
a) Insurance	46,607.00	46,607.00
b) E Journal Subscription	4,50,615.00	4,50,615.00
c) AMC Lab and Office Equipment	1,86,913.00	1,86,913.00

5. Deposits			
a) Telephone	93,308.00		1,08,893.00
b) Lease Rent			
c) Electricity			
d) AICTE, if applicable			
e) Others (to be specified)			
Security Deposit with Industry	275.00		275.00
Security Deposit with MES	4,11,969.00		4,11,969.00
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	20,000.00		20,000.00
Deposit with CPWD	8,95,69,099.00		5,43,88,673.00
Deposit with Indian Oil Corporation	9,000.00		500.00
Deposit with Post Office	100.00		100.00
Deposit with Fuel Firm	15,000.00		15,000.00
Deposit with Court	9,36,688.00		9,36,688.00
Deposit - Stationery	5,000.00		
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 HBA Accrued			
7. Other - Current assets receivable from UGC/sponsored projects			
a) Debit balances in Sponsored Projects			
b) Debit balances in Sponsored Fellowships & Scholarships			
AICTE Summer School			
AICTE Winter School			
Board of Apprentices Training	1,968.00		1,968.00

AICTE induction Training Programme		
c) Grants Receivable		5,08,67,000.00
d) Other receivables from UGC		
8. Claims Receivable		
Consultancy Charges Receivable		
TOTAL	9,38,39,351.00	10,94,78,620.00

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 2015-16	Previous Year 2014-15
FEES FROM STUDENTS		
Academic		
1. Tuition fee Ph D	3,90,000.00	6,80,000.00
Tuition fee M. Tech	2,01,600.00	4,25,400.00
2. Admission fee Ph D	2,000.00	2,000.00
Admission fee M.Tech		79,000.00
3. Enrolment fee/Course Fees	1,65,800.00	24,100.00
4. Library Admission fee		
5. Laboratory fee		
6. Art& Craft fee		
7. Registration fee		
8. Syllabus fee		
Total (A)	7,59,400.00	12,10,500.00
Examinations		
1. Admission test fee		10,250.00
2. Annual Examination fee		
3. Mark sheet, certificate fee		
4. Entrance examination fee		
Total (B)	-	10,250.00

Other Fees			
1. Identity card fee			
2. Fine/ Miscellaneous fee			
3. Medical fee			
4. Transportation fee			
5. Hostel fee			
Total (C)			
Sale of Publications			
1. Sale of Admission/Application forms		6,700.00	
2. Sale of syllabus and Question Paper, etc.			
3. Sale of prospectus including admission forms			
Total (D)			
Other Academic Receipts			
1. Registration fee for workshops, programmes			
2. Registration fees (Academic Staff College)			
3. IDDI Receipts		44,901.00	52,550.00
Total (E)		51,601.00	52,550.00
GRAND TOTAL (A+B+C+D+E)		8,11,001.00	12,73,300.00

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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 2015-16	Previous Year Total 2014-15
	UGC	Plan	Capital	Plan General	UGC	Non Plan Salary	Non Plan General			
Balance B/F		4,87,17,369.00		43,85,889.00		1,56,94,971.00	16,27,375.00	1,73,22,346.00	7,04,25,604.00	1,53,35,049.00
Add: Receipts during the year		8,34,47,000.00		1,71,65,000.00		8,91,96,000.00	3,85,24,000.00	12,77,20,000.00	22,83,32,000.00	20,48,09,000.00
Total		13,21,64,369.00		2,15,50,889.00		10,48,90,971.00	4,01,51,375.00	14,50,42,346.00	29,87,57,604.00	22,01,44,049.00
Less: Refund to UGC										
Balance		13,21,64,369.00		2,15,50,889.00		10,48,90,971.00	4,01,51,375.00	14,50,42,346.00	29,87,57,604.00	22,01,44,049.00
Less: Utilised for Capital expenditure (A)		84,85,097.00			84,85,097.00			-	84,85,097.00	93,72,154.00
Balance		12,36,79,272.00		2,15,50,889.00	14,52,30,161.00	10,48,90,971.00	4,01,51,375.00	14,50,42,346.00	29,02,72,507.00	21,07,71,895.00
Less: utilized for Revenue Expenditure (B)				2,00,95,119.00	2,00,95,119.00	7,07,95,667.00	4,00,36,375.00	11,08,32,042.00	13,09,27,161.00	14,03,46,291.00
Balance C/F (C)		12,36,79,272.00		14,55,770.00	12,51,35,042.00	3,40,95,304.00	1,15,000.00	3,42,10,304.00	15,93,45,346.00	7,04,25,604.00

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

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

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

SCHEDULE 11 - INCOME FROM INVESTMENTS

Particulars	Amount in Rupees			
	Earmarked / Endowment Funds		Other Investments	
	Current Year 2015-16	Previous Year 2014-15	Current Year 2015-16	Previous Year 2014-15
1. Interest				
a. On Government Securities				
b. Other Bonds/Debentures				
2. Interest on Term Deposits/SFD			10,38,479.00	24,93,431.00
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees				
4. Interest on Savings Bank Accounts				
5. Others:				
Total			10,38,479.00	24,93,431.00
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 2015-16	Previous Year 2014-15
1. On Savings Accounts with scheduled banks	2,213.27	
2 On Loans		
a. Employees/Staff		
b. Others : i) Interest on Conveyance Advance	45,457.00	40,207.00
ii) Interest on Computer Advance	8,798.00	2,300.00
3. On Debtors and Other Receivables		
Total	56,468.27	42,507.00

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 2015-16	Previous Year 2014-15
A. Income from Land & Buildings			
1.	Hostel Room Rent	5,59,953.00	2,84,730.00
2.	License fee	1,62,684.50	1,00,626.00
3.	Hire Charges of Auditorium/Play ground/Convention Centre, etc		
4.	Electricity charges recovered		
5.	Water charges recovered		
6.	Tender Fees	15,275.00	7,805.00
7.	Staff Quarters Rent	10,54,722.50	9,04,946.00
8.	Guest House Room Rent	16,92,492.00	36,19,110.00
9.	Rent for Institute Premises	1,88,680.00	5,55,366.00
10.	Community Hall Rent	600.00	
Total		36,74,407.00	54,72,583.00
B. Sale of institute's publications			
1.	Sale of Books and CD's	51,405.00	20,852.00
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		
	Institute Overhead Project		20,324.00
	OTC Income		
	IDDS		1,06,555.00
	Misc Revenue Receipts	2,00,738.00	22,135.00
Total		39,26,550.00	56,42,449.00

D. Others	Current Year 2015-16	Previous Year 2014-15
1. Income from consultancy		
2. RTI fees	230.00	180.00
3. Income from Royalty	1,07,662.39	1,70,713.33
4. Sale of application form (recruitment)		
5. Misc. receipts (Sale of tender form, waste paper, etc.)		
6. Profit on Sale/disposal of Assets		
a) Owned assets		
b) Assets received free of cost		
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations		
8. Others (specify)		
STD	8,608.00	
6th PCP Pay Recovery Salary		68,089.00
Total	1,16,500.39	2,38,982.33
Grand Total (A+B+C+D)	40,43,050.39	58,81,431.33

SCHEDULE 14 - PRIOR PERIOD INCOME

Particulars	Amount in Rupees	
	Current Year 2015-16	Previous Year 2014-15
1. Academic Receipts		
2. Income from Investments		
3. Interest earned		
4. Other Income		
Total	-	-

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 2015-16			Previous Year 2014-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Salaries and Wages	-	7,07,95,667.00	7,07,95,667.00		6,74,30,645.00	6,74,30,645.00
b) Allowances and Bonus(Adhoc Bonus)		2,06,088.00	2,06,088.00		2,14,147.00	2,14,147.00
c) Contribution to Provident Fund			-			-
d) Contribution to Other Fund (specify)			-			-
e) Staff Welfare Expenses			-			-
f) Retirement and Terminal Benefits			-			-
g) LTC facility		2,38,062.00	2,38,062.00		5,35,901.00	5,35,901.00
h) Medical facility/Reimbursement		19,33,507.00	19,33,507.00		26,54,455.00	26,54,455.00
i) Children Education Allowance		8,91,197.00	8,91,197.00		9,86,907.00	9,86,907.00
j) Others			-			-
1) Others: Professional Development Allowance		4,48,568.00	4,48,568.00		3,76,114.00	3,76,114.00
TOTAL		7,45,13,089.00	7,45,13,089.00		7,21,98,169.00	7,21,98,169.00

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

Amount in Rupees

Opening Balance as on 1.4.2015	Pension	Gratuity	Leave Encashment	Total
Addition: Capitalized value of Contributions Received from other Organizations				
Total (a)				
Less: Actual Payment during the Year (b)	2,96,81,031.00	24,58,823.00	18,84,585.00	3,40,24,439.00
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	8,91,155.00			8,91,155.00
C. Medical Reimbursement to Retired Employees				-
D. Travel to Hometown on Retirement				-
E. Deposit Linked Insurance Payment				-
F. Commutation of Pension	14,17,892.00			14,17,892.00
	3,19,90,078.00	24,58,823.00	18,84,585.00	3,63,33,486.00
Total (A+B+C+D+E)				

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 2015-16			Previous Year 2014-15		
	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

	Current Year 2015-16			Previous Year 2014-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure			-			-
a) Electricity and power		41,43,236.00	41,43,236.00		28,08,188.00	28,08,188.00
b) Water charges		10,32,369.00	10,32,369.00		7,14,033.00	7,14,033.00
c) Insurance			-			-
d) Rent, Rates and Taxes (including property tax)			-			-
Property Tax			-		65,191.00	65,191.00
Service Tax			-			-
Water Tax		27,173.00	27,173.00		54,416.00	54,416.00
B Communication			-			-
e) Postage and Stationery		1,05,129.00	1,05,129.00		63,414.00	63,414.00
f) Telephone, Fax and Internet Charges		3,32,191.00	3,32,191.00		3,49,665.00	3,49,665.00
C Others			-			-
g) Printing and Stationery (consumption)			-			-
h) Travelling and Conveyance Expenses		29,499.00	29,499.00		2,15,116.00	2,15,116.00
i) Hospitality			-			-
j) Auditors Remuneration		95,100.00	95,100.00		2,56,600.00	2,56,600.00
k) Professional Charges : Legal Charges		3,81,500.00	3,81,500.00		16,90,900.00	16,90,900.00
i) Advertisement and Publicity		2,93,457.00	2,93,457.00		4,38,799.00	4,38,799.00
m) Magazines & Journals			-			-
n) Others :			-			-
Contingencies		10,42,564.41	10,42,564.41		6,95,852.00	6,95,852.00
Security Charges		37,57,050.00	37,57,050.00		22,95,259.00	22,95,259.00
Misc Expenditure		2,851.00	2,851.00			-
TOTAL		1,12,42,119.41	1,12,42,119.41		96,47,433.00	96,47,433.00

SCHEDULE 18- TRANSPORTATION EXPENSES

Particulars	Amount in Rupees					
	Current Year 2015-16			Previous Year 2014-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)			-			-
a) Running expenses			-			-
b) Repairs & maintenance		1,96,842.00	1,96,842.00		2,08,866.00	2,08,866.00
c) Insurance expenses			-		5,249.00	5,249.00
2 Vehicles taken on rent/lease			-			-
a) Rent/lease expenses			-			-
3 Vehicle (Taxi) hiring expenses			-			-
Total		1,96,842.00	1,96,842.00		2,14,115.00	2,14,115.00

SCHEDULE 19 - REPAIRS & MAINTENANCE

Particulars	Current Year 2015-16			Previous Year 2014-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings			-			-
b) Furniture & Fixtures			-			-
c) Plant & Machinery			-			-
d) Office Equipment			-			-
e) Computers			-			-
f) Laboratory & Scientific equipment			-			-
g) Audio Visual equipment			-			-
h) Cleaning Material & Services			-		14,34,376.00	14,34,376.00
i) Book binding charges			-			-
j) Gardening			-			-
k) Estate Maintenance			-			-
l) Others : Guest House Expenditure		2,22,707.00	2,22,707.00		3,32,808.00	3,32,808.00
m) Electrical Maintenance		8,78,312.00	8,78,312.00		27,150.00	27,150.00
n) Hostel Expenditure		2,87,682.00	2,87,682.00		5,15,996.00	5,15,996.00
TOTAL		13,88,701.00	13,88,701.00		23,10,330.00	23,10,330.00

SCHEDULE 20 - FINANCE COSTS

Particulars	Amount in Rupees					
	Current Year 2015-16			Previous Year 2014-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Bank charges						
b) Others: Interest on Service Tax			-			-
Total					-	-

Note:-

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

SCHEDULE 21 - OTHER EXPENSES

Particulars	Amount in Rupees					
	Current Year 2015-16			Previous Year 2014-15		
	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

Particulars	Current Year 15-16			Previous Year 14-15		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses						
2 Academic expenses						
3 Administrative expenses						
4 Transportation expenses						
5 Repairs & Maintenance						
6 Other expenses						
Total	-	-	-	-	-	-

Amount in Rupees

SCHEDULE 23: PLAN GENERAL EXPENSES

	Particulars	CY 2015-16	PY 2014-15
	Plan General Expenditure:		
	Staff Development Programme	11845457.00	8138287.00
	Stipend to Apprenticeship Trainees	177305.00	39203.00
	Stipend to Long Term Trainees		
	Building Maintenance (Plan)	3498043.00	11623975.00
	Development Expenses	1285975.00	1257914.00
	Development Expenses (Hindi Sahalkar)		
	GSI Mapping Tools		
	Membership Fees for Teaching Faculty		
	Furniture Maintenance	11200.00	2625.00
	Periodicals	113579.00	109347.00
	Printing & Stationery	392242.00	301609.00
	Maintenance of Lab / Office Equipments	1378145.00	955275.00
	Research Fellowship		45000.00
	Community Polytechnics		
	Contingent Grant to Trainees		
	TA & DA National Conferences		
	Remuneration to Guest Lecturers	964500.00	213500.00
	Review Committee Meeting		
	Consumables for Lab		
	National Seminar		
	National Symposium		
	WIDDS		109750.00
	Course Fees Receivable		
	VNITTTTR Edusat		
	Web Charges	258610.00	109551.00
	IDDS		124800.00
	Inter Sports Meet	170063.00	166131.00
	Workshop on NMEICT		967089.00
	TOTAL	20095119.00	24164056.00

NATIONAL INSTITUTE OF TECHINICAL TEACHERS TRAINING AND RESEARCH
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 actuarial valuation from the year 2016-17.
6. The value of land is not known as the State Government has not assigned the land to the Institute.

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

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 31.03.2016 and Income and Expenditure.
5. NPS amount with interest has been uploaded and remitted in NSDL account.
6. Financial statements are prepared on cash basis.
7. The interest on deposits are accounted on cash basis.

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FORM GFR 19A
(See Rule 212(1) of GFR 2005)

**UTILISATION CERTIFICATE
FOR 2015-16 – NON – PLAN (SALARY)**

FINAL

Sl. No	Lr.No. and Date	Amount Rs.	Certified that out of Rs.8,91,96,000 of Grant in-aid sanctioned during the year 2015-16 in favour of Director, NITTTR, Chennai under this Ministry /Department Letter No. given in the margin and Rs. 1,56,94,971/- on account of unspent balance of the previous year, a sum of Rs.7,10,01,755/- has been utilized for the purpose of meeting the Non- Plan (Salary) expenditure for which it was sanctioned and that the balance of Rs.3,38,89,216/- remaining unutilized Non-Plan (Salary) Grant will be adjusted towards the Grant-in-aid payable during the next year 2016-17.
1	Lr.No.6-4/2015 TS.IV,dt:08.06.2015	1,50,00,000	
2	Lr.No 6-4/2015 TS.IV,dt 11.08.2015	1,50,00,000	
3	Lr.No.6-4/2015 TS.IV,dt: 03.11.2015	2,30,00,000	
4	Lr.No.6-4/2015 TS.IV,dt: 04.03.2016	3,61,96,000	
	Total	8,91,96,000	

Certified that I have satisfied myself that the conditions on which the Grant-in-aid as sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Monthly Expenditure
2. Quarterly Expenditure
3. Bank Reconciliation

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

FORM GFR 19A
(See Rule 212(1) of GFR 2005)

**UTILISATION CERTIFICATE
FOR 2015-16 – NON – PLAN (GENERAL)**

FINAL

Sl. No	Lr.No. and Date	Amount Rs.	Certified that out of Rs.3,85,24,000/- of Grant in-aid sanctioned during the year 2015-16 in favour of Director, NITTTR, Chennai under this Ministry /Department Letter No. given in the margin and Rs.16,27,375/- on account of unspent balance of the previous year, a sum of Rs.3,98,30,287/- has been utilized for the purpose of meeting the Non- Plan (General) expenditure for which it was sanctioned and that the balance of Rs.3,21,088/- remaining unutilized Non-Plan (General) Grant will be adjusted towards the Grant-in-aid payable during the next year 2016-17.
1	Lr.No.6-4/2015 TS.IV,dt:08.06.2015	1,20,00,000	
2	Lr.No 6-4/2015 TS.IV,dt 11.08.2015	1,00,00,000	
3	Lr.No.6-4/2015 TS.IV,dt: 03.11.2015	1,65,24,000	
	Total	3,85,24,000	

Certified that I have satisfied myself that the conditions on which the Grant-in-aid as sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Monthly Expenditure
2. Quarterly Expenditure
3. Bank Reconciliation

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

FORM GFR 19A
(See Rule 212(1) of GFR 2005)

**UTILISATION CERTIFICATE
FOR 2015-16 – PLAN GENERAL
(RECURRING)**

PROVISIONAL

Sl. No	Lr.No. and Date	Amount Rs.	Certified that out of Rs.1,71,65,000/- of Grant-in-aid sanctioned during the year 2015-16 in favour of Director, NITTTR, Chennai under this Ministry/ Department Letter No. given in the margin and Rs.43,85,889/- on account of unspent balance of the previous year, a sum of Rs.2,00,95,119/- has been utilized for the purpose of meeting the Plan (General) expenditure for which it was sanctioned and that the balance of Rs.14,55,770/- remaining unutilized Plan (General) Grant will be adjusted towards the Grant-in-aid payable during the next year 2016-17.
1	Lr.No.6-3/2015 TS.IV, dt: 09.06.2015 (General) Rs.33,26,000 (SC) Rs. 6,43,000 (ST) Rs. 3,22,000	42,91,000	
2	Lr.No.6-3/2015 TS.IV, dt: 13.08.2015 (General) Rs.33,26,000 (SC) Rs. 6,43,000 (ST) Rs. 3,22,000	42,91,000	
3	Lr.No.6-3/2015 TS.IV, dt: 01.12.2015 (General) Rs.33,26,000 (SC) Rs. 6,43,000 (ST) Rs. 3,22,000	42,91,000	
4	Lr.No.6-3/2015 TS.IV, dt: 04.03.2016 (General) Rs.33,25,000 (SC) Rs. 6,46,000 (ST) Rs. 3,21,000	42,92,000	
	Total	1,71,65,000	

Certified that I have satisfied myself that the conditions on which the Grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Monthly Expenditure
2. Quarterly Expenditure
3. Bank Reconciliation

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FORM GFR 19A
(See Rule 212(1) of GFR 2005)

**UTILISATION CERTIFICATE
FOR 2015-16 – PLAN CAPITAL ASSETS
(NON-RECURRING)**

FINAL

Sl. No	Lr.No. and Date	Amount Rs.	Certified that out of Rs.8,34,47,000/- of Grant-in-aid sanctioned during the year 2015-16 in favour of Director, NITTTR, Chennai under this Ministry / Department Letter No. given in the margin and Rs.57,17,369/- on account of unspent balance of the previous year, and a sum of Rs.4,24,85,097/- has been utilized for the purpose of meeting the Plan (Capital Assets) expenditure for which it was sanctioned and that the balance of Rs.4,66,79,272/- remaining unutilized Plan Grant (Capital Assets) will be adjusted towards the Grant-in-aid payable during the next year 2016-17.
1	Lr.No.6-3/2015 TS.IV, dt: 09.06.2015 (General) Rs.88,93,000 (SC) Rs.17,21,000 (ST) Rs. 8,61,000	1,14,75,000	
2	Lr.No.6-3/2015 TS.IV, dt: 13.08.2015 (General) Rs.88,93,000 (SC) Rs.17,21,000 (ST) Rs. 8,61,000	1,14,75,000	
3	Lr.No.6-3/2015 TS.IV, dt: 01.12.2015 (General) Rs.2,78,98,000 (SC) Rs. 54,00,000 (ST) Rs. 27,00,000	3,59,98,000	
4	Lr.No.6-3/2015 TS.IV, dt: 04.03.2016 (General) Rs.1,89,52,000 (SC) Rs. 36,75,000 (ST) Rs. 18,72,000	2,44,99,000	
	Total	8,34,47,000	

Certified that I have satisfied myself that the conditions on which the Grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Monthly Expenditure
2. Quarterly Expenditure
3. Bank Reconciliation

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

RECEIPTS AND PAYMENTS ACCOUNT

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
TARAMANI, CHENNAI - 600 113
RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2015-16

Amount in Rupees					
RECEIPTS	Current Year 2015-16	Previous Year 2014-15	PAYMENTS	Current Year 2015-16	Previous Year 2014-15
I. Opening Balances			I. Expenses		
a) Cash Balances	8,33,353.00	4,34,100.00	a) Establishment Expenses	10,80,55,505.00	10,92,68,058.00
b) Bank Balance			b) Academic Expenses		
i) In Current Amounts			c) Administrative Expenses	1,30,37,269.41	1,19,84,219.00
ii) In Deposit Accounts			d) Transportation Expenses		
iii) Savings Accounts	2,33,79,771.33	5,68,79,206.00	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	14,48,85,000.00	9,66,43,000.00			
for Capital Expenditure	8,34,47,000.00	5,72,99,000.00			
c) From other sources (details) Grants Recivable 2014-15	5,08,67,000.00				
(Grants for capital & revenue exp/ to be shown separately if available)					
III. Academic Receipts			III. Payments against Sponsored Projects/Schemes		
IV. Receipts against Earmarked/Endowment Funds i	8,11,001.00		IV. Payments against Sponsored Fellowships/Scholarships	2,14,601.00	
			- IDDS Payments		
V. Receipts against Sponsored j Projects/Schemes	4,50,000.00	68,97,106.00	V. Investments and Deposits made		
			a) Out of Earmarked/Endowments funds		
			b) Out of own funds (Investments - Others)		
VI. Receipts against sponsored Fellowships and Scholarships			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	84,85,097.00	96,78,945.00
b) Other investments	10,38,479.00	24,93,431.00	VIII. Plan General Expenditure	2,03,70,519.00	2,42,17,711.00

VIII. Interest received on				VIII. Other Payments including statutory payments		
a) Bank Deposits				Outstanding Expenses, TDS & Service Tax etc.,	55,24,526.00	68,80,534.00
b) Loans and Advances						
c) Savings Bank Accounts	56,468.27		42,507.00			
IX. Investments encashed				IX. Refunds of Grants		
X. Term Deposits with Scheduled Banks encashed				X. Deposits and Advances	5,64,073.00	53,258.00
				Deposits with CPWD	3,40,00,000.00	4,30,00,000.00
				Deposits Refund		
XI. Other income (including Prior Period Income)				XI. Other Payments/Liabilities		
i) Duties and Taxes TDS, Service Tax etc	4,45,648.00		1,05,090.00	i) Sundry Creditors		
				ii) Duties and Taxes		
XII. Deposits and Advances	15,62,585.00		7,85,023.00	XII. Closing balances		
i) Other Liabilities	56,56,887.00		72,35,005.00	a) Cash in hand	4,69,100.00	8,33,352.00
ii) Sundry Creditors			2,24,755.00	b) Bank balances		
				In Current Accounts		
				In Savings Accounts	12,68,66,252.58	2,33,79,771.33
				In Deposit Accounts		
XIII. Miscellaneous Receipts including Statutory Receipts	41,53,750.39		2,57,625.00			
XIV. Any Other Receipts						
TOTAL	31,75,86,942.99	22,92,95,848.00		TOTAL	31,75,86,942.99	22,92,95,848.33

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

GPF ACCOUNT

PROVIDENT FUND ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2016

	Liabilities	2015-16	Assets	Amount in Rupees 2015-16
GPF				
Opening Balance	3,05,09,237.76		Investment Int. accrued as on 31/03/16	
Less: Subscription for March 2015			Subscription Due for March 2016:	
Add: Subscriptions in the year	83,92,815.00		GPF	
Add: Sub for March 2016			CPF UC due to CPF	6,816.00
Add: Interest Credited	22,51,002.00	4,11,53,054.76	NPS-II	
Less: Advance/withdrawal/Part Final		56,29,111.00	Temporary Advance	
Closing Balance <u>CPF</u>		3,55,23,943.76	Tax recovered from interest on Investments Pending refund from	41,65,810.30
Unclaimed Balance		11,170.00	Income Tax Department	
Employers Contribution		(2,31,862.00)	Cash at Bank	1,02,91,127.41
Opening Balance		3,286.45	Fixed Deposit	2,79,49,110.00
Less: Sub. for March 2015				
Add: Subscriptions in the year				
Add: Sub for March 2016				
Add: Interest Credited				
Less: Advance/withdrawal/Part Final				
NPA Contra		14,69,721.00		
Closing Balance				

	<u>University Contribution (CPF)</u> Opening Balance Less: Contribution for March 2015 Add: Subscriptions in the year Add: Contribution for March 2016 Add: Interest Credited Less: Advance/withdrawal Closing Balance <u>NFS Tier-II Account</u> Opening Balance Less: Sub. for March 2015 Add: Subscriptions in the year Add: Sub for March 2016 Add: Interest Credited Less: Advance/withdrawal Closing Balance <u>Interest Reserve</u> Opening Balance Add: Excess of Income over Expenditure Closing Balance Total	51,47,598.50 4,89,006.00	56,36,604.50 4,24,12,863.71	4,24,12,863.71
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PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016

Amount in Rupees			
Expenditure	Amount	Income	Amount
Interest Credited to:		Interest earned on Investment	27,40,008.00
GPF Account	22,51,002.00	Add; Interest accrued on 03/16	
CPF Account		Add: Tax recovered on interest - Refund to be obtained	
University Contribution (CPF)		Less Interest accrued for March 15	
NPSTier-II Account	4,89,006.00	Excess of Expenditure over Income	
Excess of Income over Expenditure			
Total	27,40,008.00	Total	27,40,008.00

PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2015-16

Receipts		Payments		Amount in Rupees	
		Amount		Amount	Amount
Opening Balance IOB		59,39,066.41	GPF Adv./Withdrawal/Part Final		56,29,111.00
FIXED DEPOSIT:					
IOB SPECIAL DEPOSIT	2804732.00				
SBI SPECIAL DEPOSIT	2620393.00				
IOB PF	21372334.00	2,67,97,459.00			
SBI, Branch- 1					
SBI, Branch -II					
Bank					
GPF Subscription		83,92,815.00	Investment during the year		
CPF Subscription			<u>Closing Balance:-</u>		
CPF University Contribution			SBI, Branch- 1		
NPSTier-II Account			FD		2,67,97,459.00
PF FD INTEREST		8,29,741.00	IOB		1,02,91,127.41
SPECIAL DEPOSIT INTEREST		4,71,986.00			
SB NORMAL INTEREST		2,86,630.00			
Total		4,27,17,697.41	Total		4,27,17,697.41

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

NPS ACCOUNT

NPS TIER-I ACCOUNT

BALANCE SHEET AS AT MARCH 31, 2016

		Amount in Rupees	
Liabilities	Amount	Assets	Amount
NPS Tier-I Account		NPS Tier -I Account	
Opening Balance	36,07,721.00	Subscription and Contribution due for 3/16	
Less: NSDL Remit	42,54,723.00		
	(6,47,002.00)		
Add: Sub + U Contribution	21,17,664.00	GPF Contra Balance at Bank	14,69,721.00 47,454.00
Add: Interest Credited	14,70,662.00		
Less: Transferred to NSDL			
Add: Sub+UC for 3/2016			
Excess of Income over Expenditure	46,513.00		
Balance as on 01.04.2015			
Add: During the year			
Total	15,17,175.00	Total	15,17,175.00

NPS TIER-I ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016

		Amount in Rupees	
Expenditure	Amount	Income	Amount
Bank Charges	234.00	Normal Interest	46,747.00
Excess of Income over Expenditure	46,513.00		
Total	46,747.00	Total	46,747.00

NPS TIER- I ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE FINANCIAL YEAR 2015-16

		Amount in Rupees	
Receipts	Amount	Payments	Amount
Opening Balance as on 1/04/2015	21,38,000.00	Investment	
NPS Tier-I Account		Withdrawal / Refund to NSDL	42,54,723.00
Own Subscription	8,91,155.00		
University Contribution	12,26,509.00	NEFT Charges	234.00
Interest on Saving Bank A/C	46,747.00		
		Closing Balance	47,454.00
TOTAL	43,02,411.00	TOTAL	43,02,411.00

**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 31.03.2016

LIABILITIES	Amount in Rupees				
	Current Year 2015-16	Previous Year 2014-15	ASSETS	Current Year 2015-16	Previous Year 2014-15
CAPITAL FUND:					
Add: Excess	52102457.00	43142388.00	DEPOSITS:		
	10894863.00	8960069.00	SDR		28000000.00
Duties and Taxes	1,477.00	759.00	LOANS & ADVANCES		825650.00
			Temporary Advances		
			NITTTR Contribution	2919985.00	2919985.00
			Closing Balance	0.00	
			Canara Bank	23498123	
			Axis Bank	36580689.00	20357581.00
TOTAL	62998797.00	52103216.00	TOTAL	62998797.00	52103216.00

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

Overseas Training Course (OTC)
Income & Expenditure Account for the year ended 31.03.2016

	EXPENDITURE	2015-16	2014-15	INCOME	2015-16	2014-15
	Books & Periodicals			Project Receipts		
	OTC Expenses	5549713.00	8797099.00	Interest Bank	23484573.00	20196661.00
	CDIMD - XXIX Batch		36780.00		843562.00	3848761.00
	CDIMD - XXXII Batch		9273.00			
	Sundry Creditors					
	DTEM DG					
	LIVING allowance	5233819.00	3223545.00			
	GISARP					
	ICT-III		26978.00			
	MLP OTC					
	MLPM-VI					
	Guest House Boarding & Lodging		2802750.00			
	Room Rent	1554000.00	69300.00			
	OTC WETE Course					
	Bank charges	275.00				
	Project Allowance	359162.00	33419.00			
	SDEM Batch					
	Book allowance	736303.00	71989.00			
	Travelling & Conveyance		14220.00			
	WETTVE					
	WQA-1 Batch					
	Excess of Income over Expenditure	10894863.00	8960069.00			
	Total	24328135.00	24045422.00	Total	24328135.00	24045422.00

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

Overseas Training Course (OTC)

Receipts & Payments Account for the Financial Year 2015-16

Amount in Rupees						
	RECEIPTS	2015-16	2014-15	PAYMENTS	2015-16	2014-15
	OPENING BALANCE:					
	Cash at Bank	48357581.00	39113213.00	Duties & Taxes		
	Cash in Hand	825650.00	1109190.00	Sundry Debtors	6400.00	9273.00
	Duties & Taxes		759.00	Temporary Advance		
	OTC Grands Receipts	23484573.00	20196661.00	OTC Expenses	5549713.00	8797099.00
	Bank Interest AXIS	429692.00	662886.00	Travelling & Conveyance		14220.00
	SDR Interest AXIS	413870.00	3185875.00	Book Allowance	736303.00	71989.00
	NITTTR Contribution			Project Allowance	359162.00	33419.00
	Sundry Creditors	7118.00		ICT III		26978.00
				CDIMD XXXII		36780.00
				Room Rent	1554000.00	69300.00
				Guest House Expenses		2802750.00
				Living Allowance	5233819.00	3223545.00
				Bank Charges	275.00	
				CLOSING BALANCE		
				AXIS BANK	36580689.00	48357581.00
				CANARA BANK	23498123.00	
				Cash	0.00	825650.00
	Total	73518484.00	64268584.00	Total	73518484.00	64268584.00

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

PROJECT ACCOUNT

PROJECT ACCOUNT
Balance Sheet as at 31.03.2016

LIABILITIES	2015-16		ASSETS	2015-16	
Project Fund: Opening	112261.00				
Add: Excess of Income over income	303351.00	415612.00			
PROJECT WIP					
FY 2009-10	999032.00		40/CEM/RAY/TVL/SMOH/2011-12	566792.00	1457939.00
FY 2010-11	2411197.00		41/CEM/RAY/TRY/SMOH/2011-12	891147.00	
FY 2011-12	4825819.00				
FY 2012-13	304711.00				
FY 2013-14	395006.00				
FY 2014-15	713358.00	9649123.00			
Duties and Taxes		4231.00			
			CLOSING BALANCE:		
			Cash in Hand		39000.00
			Cash at Bank		8572027.00
		10068966.00			10068966.00

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

PROJECT ACCOUNT
Income & Expenditure Account for the year ended 31.03.2016

		Amount in Rupees	
EXPENDITURE	2015-16	INCOME	2015-16
Project Expenses	490102.00	Project Income	778174.00
		SDR Interest	15279.00
Excess of expenditure over income	303351.00		
Total	793453.00	Total	793453.00

PROJECT ACCOUNT
Receipts & Payments Account for the Financial Year 2015-16

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

CORPUS FUND ACCOUNT

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

CORPUS FUND ACCOUNT

Income & Expenditure Account for the year ended 31.03.2016

		Amount in Rupees	
RECEIPTS	2015-16	PAYMENTS	2015-16
IDDS Corpus fund 10% IDDS Corpus fund 20% Normal Interest	49000.00 78400.00	Excess of Income over expenditure	127400.00 65327.00 192727.00
Total		Total	192727.00

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

CORPUS FUND ACCOUNT

Receipts & Payments Account for the Financial Year 2015-16

		Amount in Rupees	
RECEIPTS	2015-16	PAYMENTS	2015-16
OPENING BALANCE: Cash at Bank			
	1578844.00		
IDDS Corpus fund 10%	49000.00		
IDDS Corpus fund 20%	78400.00		
Normal Interest			
	127400.00		
	65327.00		
		CLOSING BALANCE:	
		Cash at Bank	1771571.00
Total		Total	1771571.00