

ANNUAL REPORT

2018-19



***National Institute of Technical
Teachers' Training and Research, Kolkata
Block-FC, Sector-III, Salt Lake City, Kolkata – 700 106***

ANNUAL REPORT

(April 01, 2018 – March 31, 2019)



National Institute of Technical Teachers'
Training and Research, Kolkata
Block-FC, Sector-III, Salt Lake City
Kolkata – 700 106

[Website: www.nittrkol.ac.in](http://www.nittrkol.ac.in)

Vision

“NITTTR, Kolkata envisions to be the lead resource institute for promoting excellence in technical education, management education and vocational education & training system”

Mission

- *To introduce emerging scientific technologies for development of effective teaching-learning system in technical education*
- *To increase the outreach of training by adopting flexible & open learning technology*
- *To integrate the World of Work with the Technical Education System*
- *To assist policy makers as a think tank in formulating TVET strategies*
- *To offer extension services and consultancy appropriate to TVET system, in collaboration with industry and community partnership*
- *To develop and introduce Quality Management System*
- *To share experience and collaborate with national and international agencies involved in technical education for mutual benefits*
- *To undertake research in different areas of TVET system.*

Contents

1.	Vision and Mission	i
2.	Director's Report	1
3.	About Us	2
4.	Objectives of The Institute & Campus	3
5.	Management	4-7
	• NITTTR, Kolkata Society	
	• Board of Governors (BOG) of NITTTR, Kolkata	
	• Finance Committee (FC) of NITTTR, Kolkata	
	• Building & Works Committee (B & WC) of NITTTR, Kolkata	
	• Academic Council (AC) of NITTTR, Kolkata	
	• Dates of Meetings of Various Committees	
6.	Administration	8
7.	Achievements	9-28
	• Short-Term Training and E-Learning (ICT Mode) Programmes	
	• M. Tech. Programmes	
	• Educational Video Films for Gyandarshan Channel	
	• Seminars / Conferences / Workshops	
8.	List of Employees	29-30
	• Faculty and Officers	
	• Staff Members	
9.	Publications	31-35
10.	Infrastructure Development	36
11.	Hostels	37
12.	SC/ST/OBC/PWD Filling Position, Matter of Litigation, Raj Bhasha Hindi Diwas, Right To Information Act, Laying of Annual Report & Audited Accounts on The Table of Both The Houses of Parliament	38
13.	Annual Events	39-49
14.	Financials	50
15.	Balance Sheet	50
16.	Income and Expenditure Account	51
17.	Schedules	52-68
18.	Receipts and Payments Accounts	69-70
19.	Provident Fund Account	71-72
20.	Schedules Forming Part of Accounts	73-75
21.	Audit Report	76-82

Director's Report



Prof. Phalguni Gupta
Director

I feel pleased in submitting the annual report of NITTTTR Kolkata for the financial year 2018-19 for kind perusal and consideration of the honourable stakeholders of our Institute. The report contains inter alia the financial statements cast in formats approved by the Ministry of HRD, Govt. of India.

In 2018-19, the Institute conducted 204 short term training programs on different technical and managerial subjects either on contact mode or ICT mode and published papers in reputed journals and conferences. These programmes were attended by 14,305 Trainees engaged in teaching in various polytechnic and engineering degree colleges located across the country. Further, it developed 4 MOOC under SWAYAM and being the National Resource Centre for Mechanical Engineering, it also developed an online course on Engineering

Mechanics. In this year, **56** students received their M. Tech degrees. It produced 21 educational video films for the nationwide broadcast by the Gyan Darshan Channel. The Institute organized 10 workshops to revise course curriculum for states like Sikkim, Manipur and Mizoram and NBA related activities. It also organized a 2-day workshop on Current Challenges in Training and Placement at Polytechnic Colleges in October 2018 at Dirang, Arunachal Pradesh. To create common platform to determine the actual needs of the North Eastern states and to make desired future plan, the Institute conducted 5th Annual Regional Workshop on “Technical Education for North Eastern States” in April at Guwahati, Assam which was attended by 80 Principals of Polytechnic from the north-eastern region and other dignitaries.

It organized successfully the 2nd National Innovation Talent Contest for Polytechnics at Kolkata to ensure motivation in skill training among students, teachers, technical staff members and to foster innovation literacy for improved downstream innovation and productivity in industry. There were 99 teams from 17 states and 1 union territory registered in the contest held in February 2019. Further, it organized the ACM International Collegiate Programming Contest, Asia Region, Kanpur-Kolkata Site in December 2018 and the 2nd International Workshop on Applied Machine Learning in February 2019.

(Phalguni Gupta)

Director

National Institute of Technical Teachers'
Training and Research, Kolkata
Email: director@nittrkol.ac.in



About Us

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata was established in 1965 as Technical Teachers' Training Institute (TTTI), Calcutta at the premises of Jnan Chandra Ghosh Polytechnic, Calcutta. This was the first of four such regional Institutes (other three being at Chandigarh, Bhopal and Chennai) established by then Department of Education, Govt. of India as fully centrally funded autonomous institution. Since 1980, the Institute is located at Salt Lake City. The primary focus of the Institute is to provide in-service training to the teachers and staff of Degree and Diploma level technical institutions and conduct activities related to the quality improvement of the technical education system of the country. NITTTR, Kolkata has been actively involved in improvement of quality of the technical education system in various states including those in the north-east through innovative academic interventions, providing assistance to policy makers at the national and state levels, in formulation of educational plans, projects and their implementation in the fast changing scenario. The Institute has also established two extension centres at Guwahati (in 1999) and at Bhubaneswar (in 2000) for reaching out to its clients in North-Eastern states and Odisha respectively. By virtue of working closely over the last few decades, this institute has developed a thorough understanding of the technical educational needs of the states in the eastern region including those in the North-east. In recognition of its contribution towards development of excellence in the technical education system, Government of India, in October 2003, accorded National status to the Institute along with its 3 sister institutes located at Chandigarh, Bhopal & Chennai and renamed them as National Institute of Technical Teachers' Training & Research.

Some of the notable national level projects in which the Institute is associated are Nodal agency to Centrally Sponsored Community Development through Polytechnic Scheme, Designing & conducting AICTE sponsored "Induction Training Programme" for fresh teachers of engineering colleges and polytechnics, facilitating implementation of centrally sponsored Scheme for Integrating Persons with Disabilities (PWD) in the Mainstream of Technical & Vocational Education etc.

The focal activities of the Institute are Short Term Training, Curriculum Development, Learning Resources Development, Research in the field of Technical Education System, Educational Management and Extension Services. Besides regular activities, the Institute has been offering, since 2003, AICTE approved M. Tech. Degree Programme in 'Manufacturing Technology', affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal (earlier known as WBUT). During 2005-2006 two more M. Tech. Programmes namely 'Multimedia & Software Systems' and 'Mechatronics' Engineering were started. The M. Tech. Programme in 'Structural Engineering' has been introduced since 2011-2012. The Institute has highly qualified faculty and excellent infrastructural support in the form of well-equipped laboratories, Integrated Computer Centre (ICC), Library Welding Centre, CAD/CAM centre and other resources. At present this Institution is focusing among others, Technical Teachers' Training through ICT Mode.



Objectives

The objectives of the Institute include:

- To act as a centre for offering quality training programmes for teachers as per need of the client system, covering the entire gamut of technical, vocational and management education, at regional as also at national levels.
- To arrange for hands-on training to technical teachers in industries on a cooperative education plan
- To undertake systematic research to provide input to develop technical education systems and their management
- To undertake action research to develop innovative methods, processes and practices for improvement of teaching-learning environment in technical and vocational education.
- To design instructional system and strategies to produce 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 specially SAARC & ASEAN countries.
- To collaborate with Community and Industry in organizing Continuing and Non-formal education programmes and providing extension and consultancy services.
- To undertake Consultancy work for industry, technical institutions/ organization
- To provide support services on GOI schemes on technical and vocational education system and as entrusted by MHRD, GOI, from time to time
- To cooperate with educational or other institutions in any part of the world having objects wholly or partially 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.

Campus

The Institute campus extends over an area of about 11 acres. Tastefully laid out with the picturesque landscape and with numerous buildings of various types and with clean and wide roads, the campus presents a natural beauty. 3-D Model of FC Block Campus of the Institute depicting all buildings is presented below.





Management

NITTTR, Kolkata is an autonomous organization of the Government of India. Responsibility for direction and control of the affairs of the Institute is vested in the Board of Governors. The Board functions through its standing committees – the Finance Committee, the Buildings & Works Committee and other committees. The composition of the Board of Governors and its standing committees in 2018-19 is as follows:

List of Members of NITTTR, Kolkata Society

S. No.	Name and Address	Designation
1	Shri Harshavardhan Neotia Chairman AmbujaNeotia Group	Chairman
2	Joint Secretary to the Government of India Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
3	Joint Secretary and Financial Adviser (HRD) IFD, Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
4	Dr. Ajoy Kumar Ray (Representative of Member Secretary, AICTE) Ex-Professor, Electronics and Electrical Communication, IIT, Kharagpur	Member
5	Director Department of Technical Education Government. of Assam	Member
6	Director Department of Science & Technology Govt. of Jharkhand	Member
7	Director Department of Technical Education Government of Manipur	Member
8	Director Department of Technical Education Govt. of Uttar Pradesh	Member
9	Director Department of Technical Education Govt. of Haryana	Member
10	Vice Chancellor Maulana Abul Kalam Azad University of Technology Government of West Bengal	Member
11	Director NITTTR, Kolkata	Member Secretary

**List of Members of Board of Governors, NITTTR, Kolkata**

S. No.	Name and Address	Designation
1	Shri Harshavardhan Neotia Chairman AmbujaNeotia Group	Chairman
2	Joint Secretary to the Government of India Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
3	Joint Secretary and Financial Adviser (HRD) IFD, Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
4	Dr. Ajoy Kumar Ray (Representative of Member Secretary, AICTE) Ex-Professor, Electronics and Electrical Communication, IIT, Kharagpur	Member
5	Director Department of Technical Education Government. of Assam	Member
6	Director Department of Science & Technology Govt. of Jharkhand	Member
7	Director Department of Technical Education Government of Manipur	Member
8	Director Department of Technical Education Govt. of Uttar Pradesh	Member
9	Director Department of Technical Education Govt. of Haryana	Member
10	Vice Chancellor Maulana Abul Kalam Azad University of Technology Government of West Bengal	Member
11	Prof. Virendra Kumar Tewari (With effect from 17/12/2018) Professor, Agricultural and Food Engineering IIT, Kharagpur	Member
12	Shri Sajjan Bhajanka (With effect from 17/12/2018) Chairman and Managing Director Century Plyboards (India) Ltd.	Member
13	Prof. Dipankar Bose Professor, Mechanical Engineering NITTTR, Kolkata	Member
14	Director NITTTR, Kolkata	Member Secretary

**List of Members of Finance Committee, NITTTR, Kolkata**

S. No.	Name and Address	Designation
1	Shri Harshavardhan Neotia Chairman AmbujaNeotia Group	Chairman
2	Joint Secretary to the Government of India Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
3	Joint Secretary and Financial Adviser (HRD) IFD, Ministry of HRD, Dept. of Higher Education, Govt. of India	Member
4	Director Department of Technical Education Government. of Assam	Member
5	Director NITTTR, Kolkata	Member Secretary

List of Members of Building and Works Committee, NITTTR, Kolkata

Sl. No	Name & Address	Designation
1.	Chief Engineer, EZ-III, CPWD, ER	Chairman
2.	Director of Technical Education, Government of Jharkhand	Member
3.	Executive Engineer, KCD-V, CPWD, ER	Member
5.	Group General Manager, RITES, Regional Office, Kolkata	Member
6.	Head, Civil Engineering, NITTTR, Kolkata	Member, Ex-officio
7.	FIC, Estate of the Institute	Member, Ex-officio
8.	Director, NITTTR, Kolkata	Member Secretary

List of Members of Academic Council, NITTTR, Kolkata

Sl. No.	Name	Designation
1.	Dr. Phalguni Gupta, Director	Ex-Officio Chairman
2.	Dr. Samir Roy, Professor	Secretary
3.	Dr. Siddhartha Datta, Professor, Jadvapur University	External Member
4.	Dr. Siddhartha Ray, Professor, Heritage Inst. of Technology	External Member
5.	Dr. Dipankar Bose, Professor	Member
6.	Dr. Sekhar Chakraborty, Professor (upto 31/10/2018)	Member
7.	Dr. Anuradha De, Professor	Member
8.	Dr. Urmila Kar, Professor	Member
9.	Dr. Udai Chand Kumar, Professor	Member
10.	Dr. Jagat Jyoti Mandal, Professor	Member
11.	Dr. Ranjan Dasgupta, Professor	Member
12.	Dr. Sailendra Nath Mandal, Professor	Member
13.	Dr. Samiran Mandal, Professor	Member
14.	Dr. Soumitra Kumar Mandal, Professor	Member
15.	Dr. Prasanta Sarkar, Professor	Member
16.	Shri Nirmal Kumar Mandal, Associate Professor	Nominated Member
17.	Shri Sukanta K. Naskar, Associate Professor	Nominated Member
18.	Shri Rajeev Chatterjee, Assistant Professor	Nominated Member
19.	Mrs. Sheela Yadav Rai, Assistant Professor	Nominated Member

Dates of Meetings

Academic Council Meeting

29th Meeting on 13 June 2018

Finance Committee Meeting

29th Meeting on 2 June 2018

30th Meeting on 27 November 2018

31st Meeting on 25 March 2019

Building & Works Committee Meeting

26th Meeting on 26 April 2018

27th Meeting on 8 September 2018

28th Meeting on 22 February 2019

Board of Governors Meeting

32th Meeting on 2 June 2018

33rd Meeting on 27 November 2018

34th Meeting on 25 March 2019

Annual General Meeting of NITTTR, Kolkata Society

19th Meeting on 27 November 2018

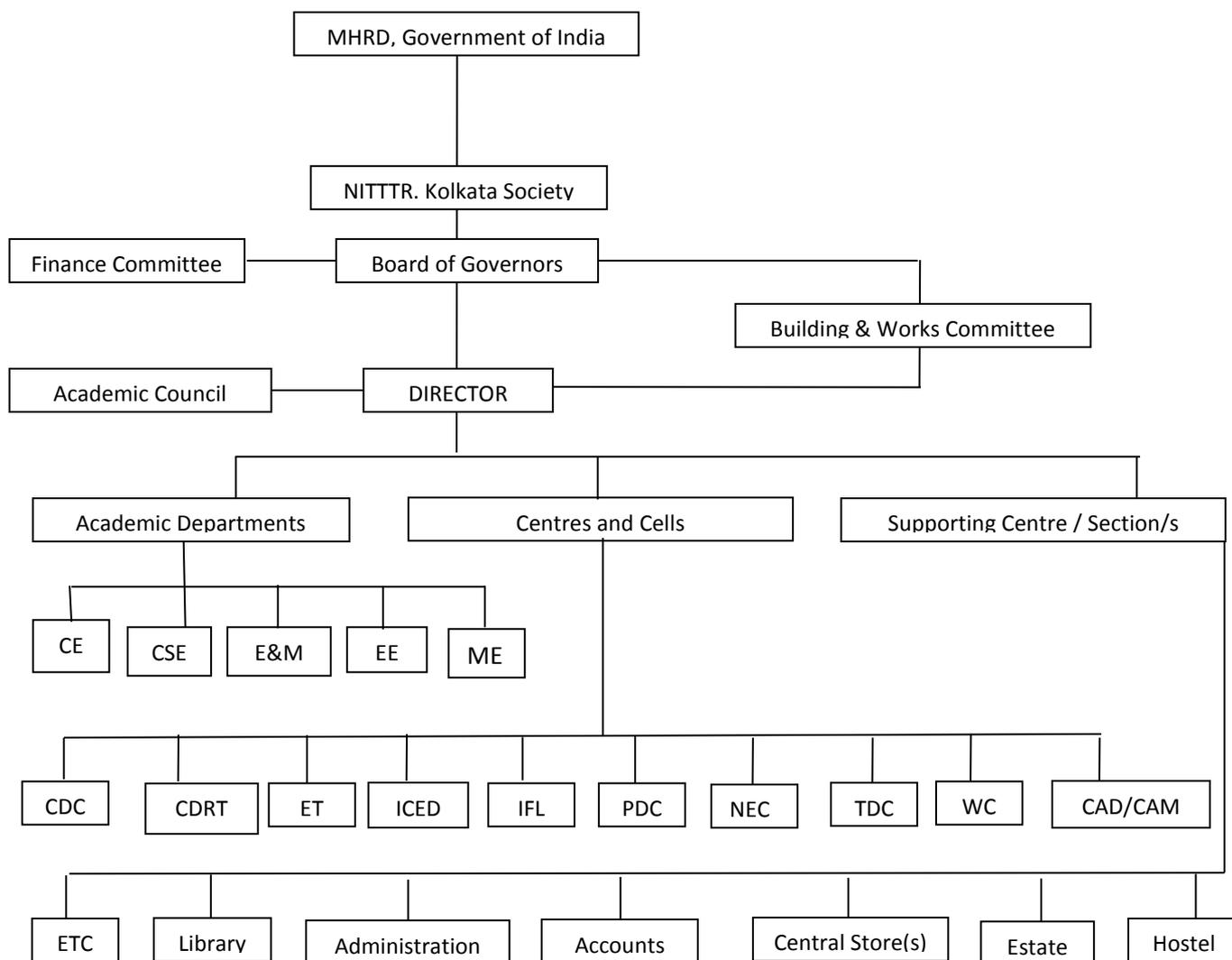


33rd Meeting of BOG and 19th Annual General Meeting



Administration

The Director is the principal academic and executive officer of the Institute. He is responsible for the proper administration of the Institute and for the imparting of instruction and maintenance of discipline therein. He is assisted in his day to day work by Head of the Departments and the senior faculty members of the Institute. As on 31 March 2019, besides the Director, there are 25 faculty members in the Institute. Out of which, there are 13 Professors, 2 Associate Professor and 10 Assistant Professors. Also, the Institute has 2 Group ‘A’ Officers. Organizational structure of the Institute is given below.



CE-Civil Engineering, CSE-Computer Science & Engineering, E&M-Education and Management, EE-Electrical Engineering, ME-Mechanical Engineering, CDC-Curriculum Development Centre, CDRT-Community Development and Rural Technology, ET-Education Technology, ICED-Industrial Consultancy & Entrepreneurship Development, IFL-Institute of Future Learning, PDC-Product Development Cell, NEC-Non-Conventional Energy Cell, TDC-Technology Development Cell, WC-Welding Centre, CAD/CAM Centre



Achievements

Short-Term Training Programmes

During the period (1st April 2018 to 31st March 2019), the Institute has conducted 204 Short-Term, In-House Training and E-Learning (ICT Mode) Programmes to train 14305 faculty members, officers and Staff members of various Polytechnics, Engineering Colleges, Universities and other organizations across the country. Table 1 shows summary of various activities (other than M. Tech. Programmes) organized by the Institute during this academic year.

Table 1: Summary of Target and Achievements

Sl. No.	Institutional Activities	Parameters	Target	Achieved
1.	Education & Training Programmes for Degree & Diploma Level Technical Institutions and Industry	No. of Short Term Training Programmes (STTP)	214	189
		No. of Participants (STTP)	5500	5159
		No. of Short Term Training Programmes (ICT Mode)	17	15
		No. of Participants (ICT Mode)	600	9146
2.	Curriculum Development/ Curriculum Revision for Diploma Courses	As per Demand	-	22 on process
		No. of Participants	-	56
3.	Instructional Materials Development	Educational Video Films for Gyandarshan Channel	20	21
4.	Seminar/Workshop Organised	International Seminar	-	1
		No. of Participants	-	21
		International Workshop	-	1
		No. of Participants	-	21
		Regional Workshop	-	2
		No. of Participants	-	88
		NBA Accreditation	-	7
No. of Participants	-	238		

Table 2 shows the number of STTPs organized under different modes.

Table 2: STTP-wise Target & Achieved

Sl. No	STTPs	Target	Achieved
1	Contact Mode	214	189
2	ICT Mode	17	15
Total		231	204

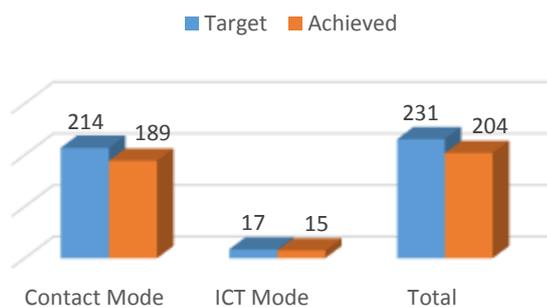


Diagram-1

Table 3 provides the information about the number of participants attended STTPs under various modes.

Table 3: Participant-wise Target & Achieved

Sl. No.	Participants attended	Target	Achieved
1	Contact Mode STTPs	5500	5159
2	ICT Mode STTPs	600	9146
Total		6100	14305



Diagram-2

Comparison on the number of STTPs held in last 5 years has been shown in Figure 1.

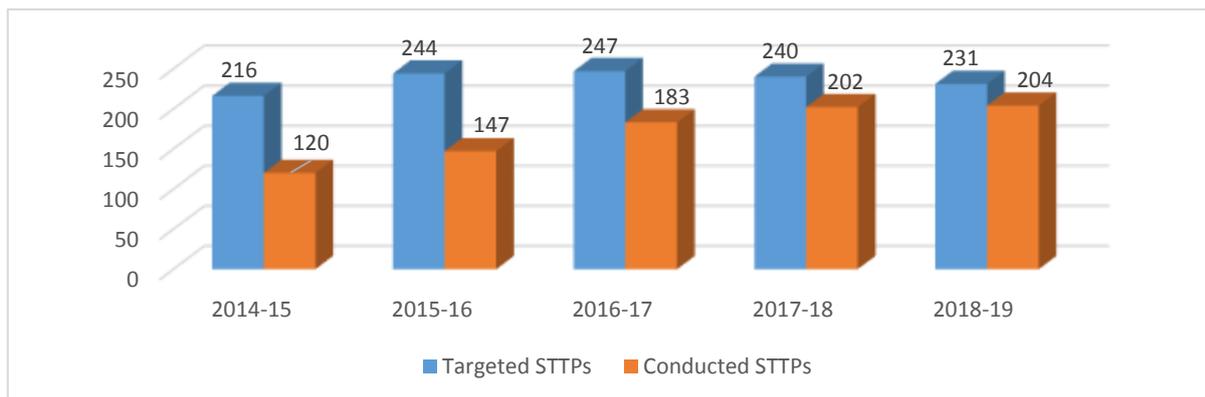


Figure 1: No. of STTPs Targeted Vs Conducted in Last 5 years

Figure 2 shows the comparative study on the number of participants in STTPs conducted in last 5 years. It has been observed that the number has been increased substantially as compared to previous 5 years.

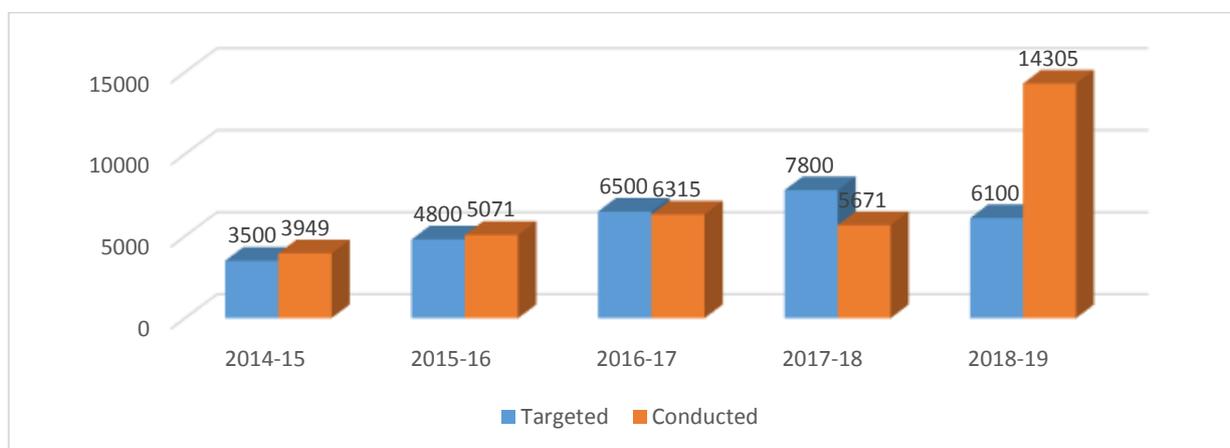


Figure 2: No. of Participants in Targeted Vs Conducted in STTPs in last 5 years

Distribution of STTPs organized in different venues under various modes is shown in Table 4. It also provides information on the number participants attended these programmes. Diagram 3 shows the percentage-wise distribution of number of participants attended in different venues/ modes while that of various STTPs conducted is shown in Diagram 4.

Table 4: Summary of Short-Term Training Programmes (STTP) Venue-Wise

Sl. No.	Summery (STTP)	No. of STTP	No. of Participants
1	NITTTR, Kolkata	112	1757
2	Bhubaneswar Extension Centre	15	227
3	Guwahati Extension Centre	8	85
4	In-House Programmes	54	3090
6	E-Learning (ICT Mode)	15	9146
TOTAL		204	14305

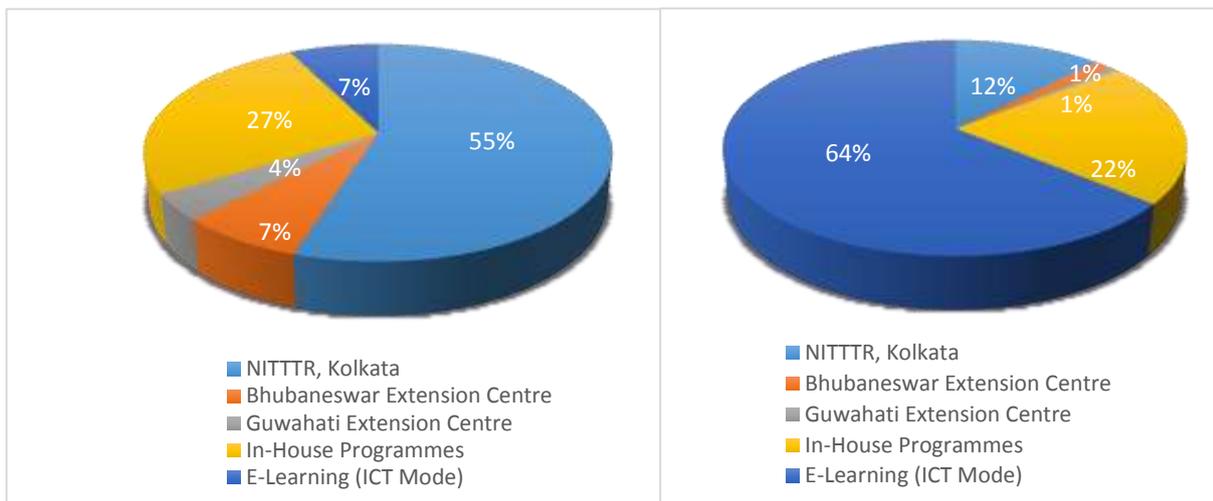


Diagram 3: Percentage of Venue-wise Participation

Diagram 4: Percentage of Venue-wise STTPs

Venue-wise distribution of the number of STTPs under different modes over last 5 years is shown in Figure 3 while that of the number of participants attended the programme is shown in Figure 4. From both the figures, it is seen that there is a steady increase on the number of programmes. On analysis, it is also observed that participants have preferred to attend ICT mode training programmes.

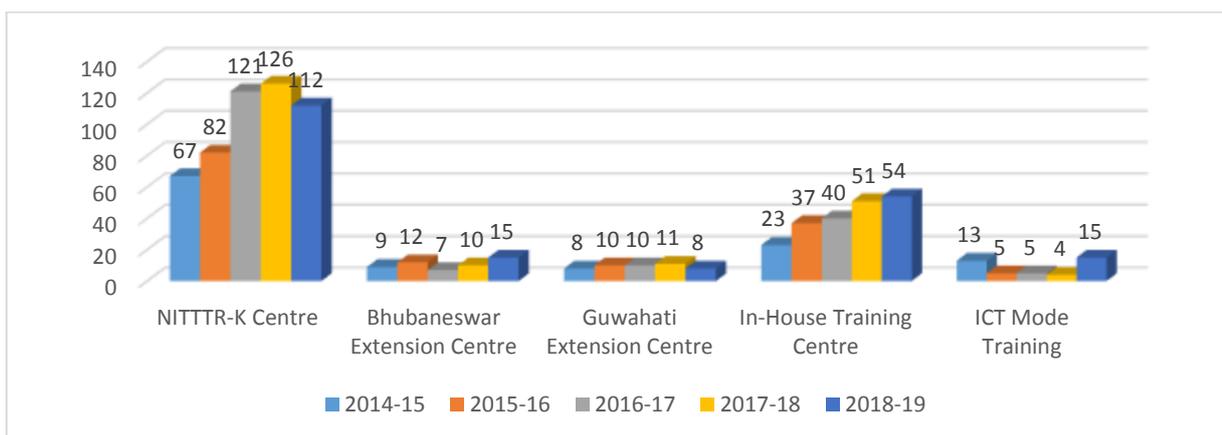


Figure 3: STTPs held in Different Venues / Mode in Last 5 years

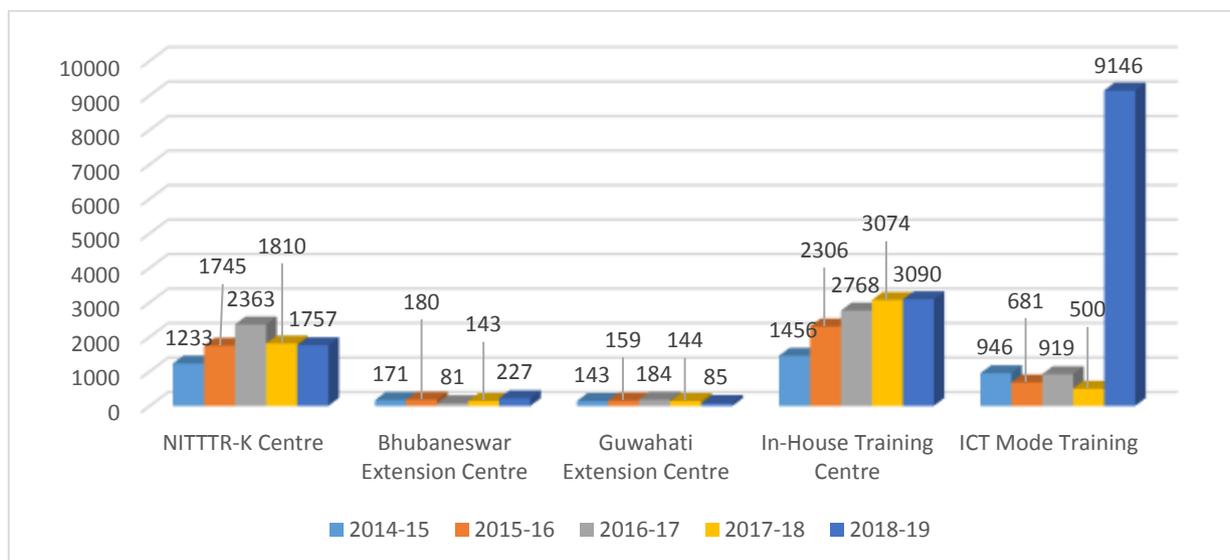


Figure 4: No. of Participants in STTPs held in Different Venues and Mode during last 5 years



Annual Report: 2018-19

Further, in 2018-19, participation of faculty/staff members from Engineering colleges is more than that of polytechnic colleges. Venue-wise participation of faculty/staff members from Polytechnic and Engineering colleges in the conducted STTPs including In-house and ICT-mode programmes has been shown in Table 5 while distribution is shown in Figure 5.

Sl. No.	Programme Venue	Teacher/Staff Participants from Technical Institutions of		Total
		Engineering Colleges	Polytechnics College	
1	NITTTR, Kolkata	901	856	1757
2	Bhubaneswar Extension Centre	121	107	228
3	Guwahati Extension Centre	40	45	85
4	In-House Programmes	941	2149	3090
5	E-Learning Programmes	7630	1515	9145
GRAND TOTAL		9633	4672	14305
Percentage-wise participants				

Table 5: Summary of Short-Term Training Programme: Venue-wise

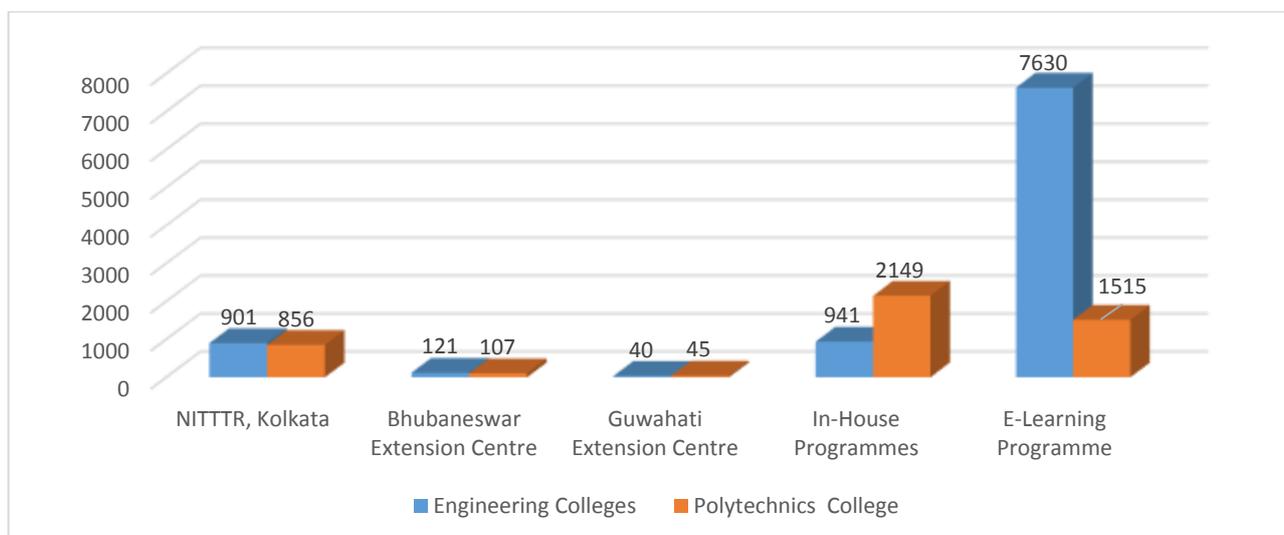


Figure 5: Institute-wise Distribution of Participants

Distribution of the number of STTPs from different types of Institutes (i.e. Engineering and Polytechnic colleges) over last 5 years is given in Figure 5. It can be seen that there is a stiff increase on the number of participants from engineering colleges.

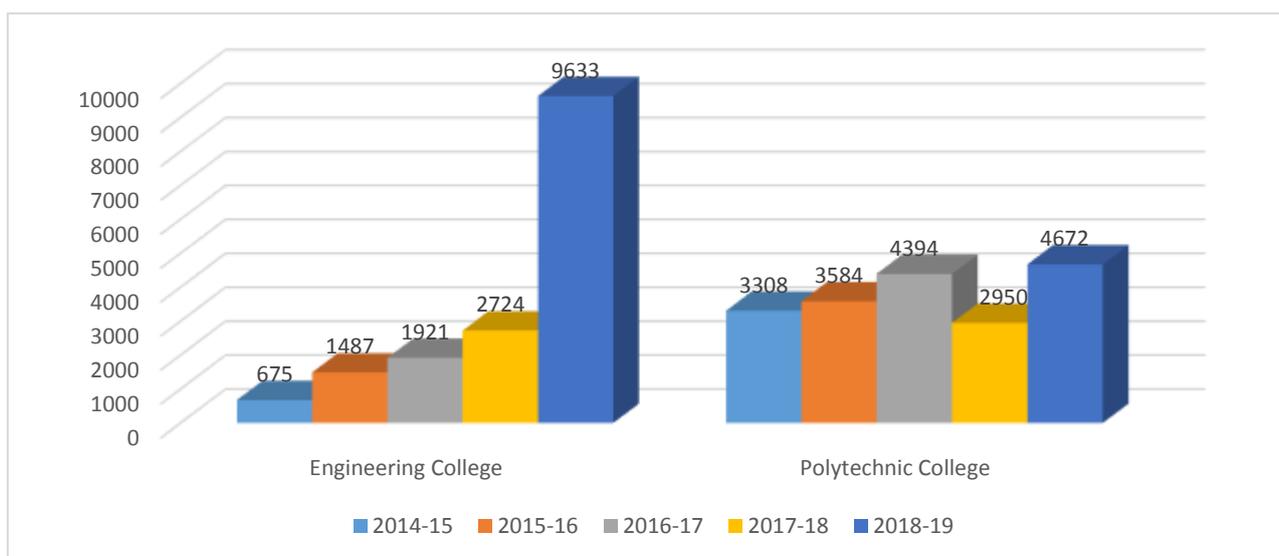


Diagram 5: Institute-wise Distribution of Participants over Last 5 Years



It has also been found that participation from private college is more than that from Government institutes during the academic year 2018-19. The distribution is shown in Table 6 and in Diagram 6.

Table 6: Summary of Short-Term Training Programmes: Venue-Wise

Sl. No.	Programme Venue	Teacher/Staff Participants from Technical Institutions of		Total
		Government College	Private College	
1	NITTTR, Kolkata	1132	625	1757
2	Bhubaneswar Extension Centre	175	53	228
3	Guwahati Extension Centre	79	6	85
4	In-House Programmes	2450	640	3090
5	E-Learning Programme	2103	7042	9145
GRAND TOTAL		5939	8366	14305

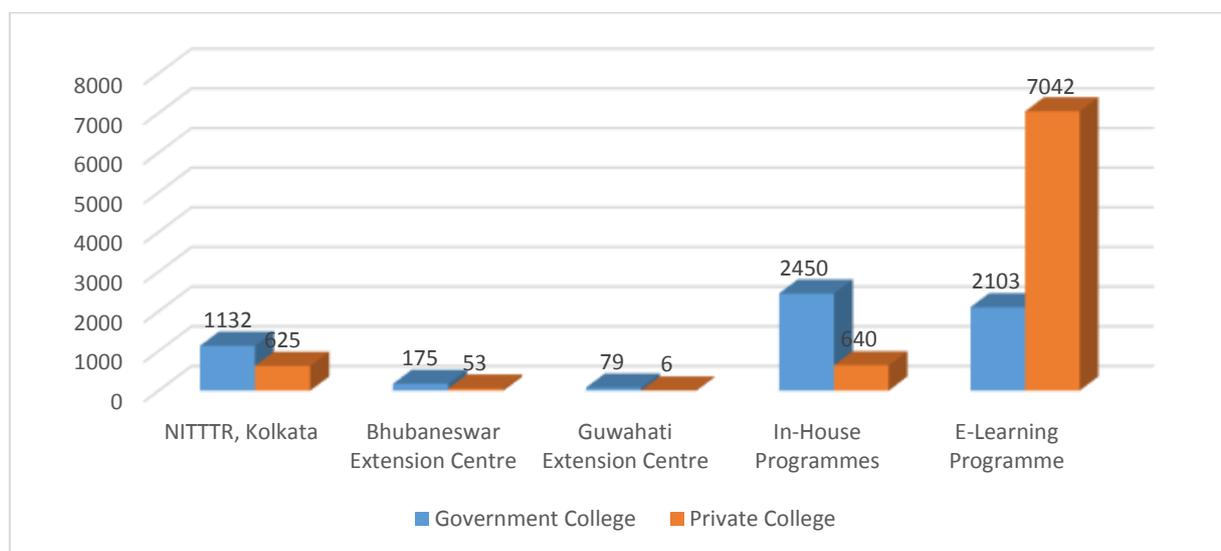


Diagram 6: Distribution of Participants from Government Colleges against Private Colleges

Distribution of participation in STTPs from different types of Institutes (i.e. Government and Private colleges) over last 5 years is given in Figure 6. It can be seen that there is enhancement in the number of participants from both Government institutes and private colleges.

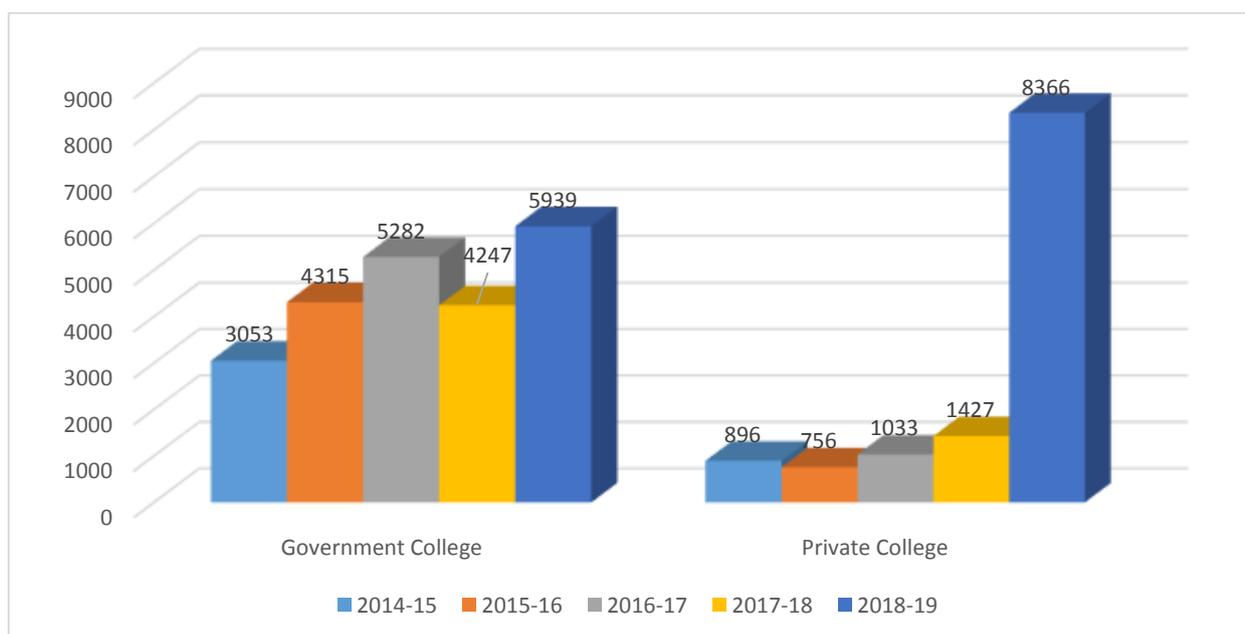


Figure 6: Distribution of Participants from Government Vs Private institutions over Last 5 Years



It can also be noted that the Institute has trained 14305 participants from 30 different States and Union Territories. Table 7 and Diagram 7 represent the state-wise participation in STTPs:

Table 7: Summary of Short-Term Training Programmes: State-wise

Sl. No.	Name of the State	No. of Participants
1	Arunachal Pradesh	72
2	Assam	377
3	Manipur	51
4	Mizoram	32
5	Meghalaya	34
6	Nagaland	8
7	Tripura	60
8	Sikkim	53
9	Bihar	773
10	Jharkhand	713
11	Odisha	1575
12	West Bengal	2304
13	Andhra Pradesh	2237
14	Chhattisgarh	85
15	Delhi	118

Sl. No.	Name of the State	No. of Participants
16	Goa	20
17	Gujarat	184
18	Haryana	279
19	Jammy & Kashmir	6
20	Karnataka	1094
21	Kerala	101
22	Madhya Pradesh	88
23	Maharashtra	1062
24	Puducherry	6
25	Punjab	140
26	Rajasthan	561
27	Tamil Nadu	1111
28	Telangana	755
29	Uttar Pradesh	405
30	Uttarakhand	1
	Total	14305

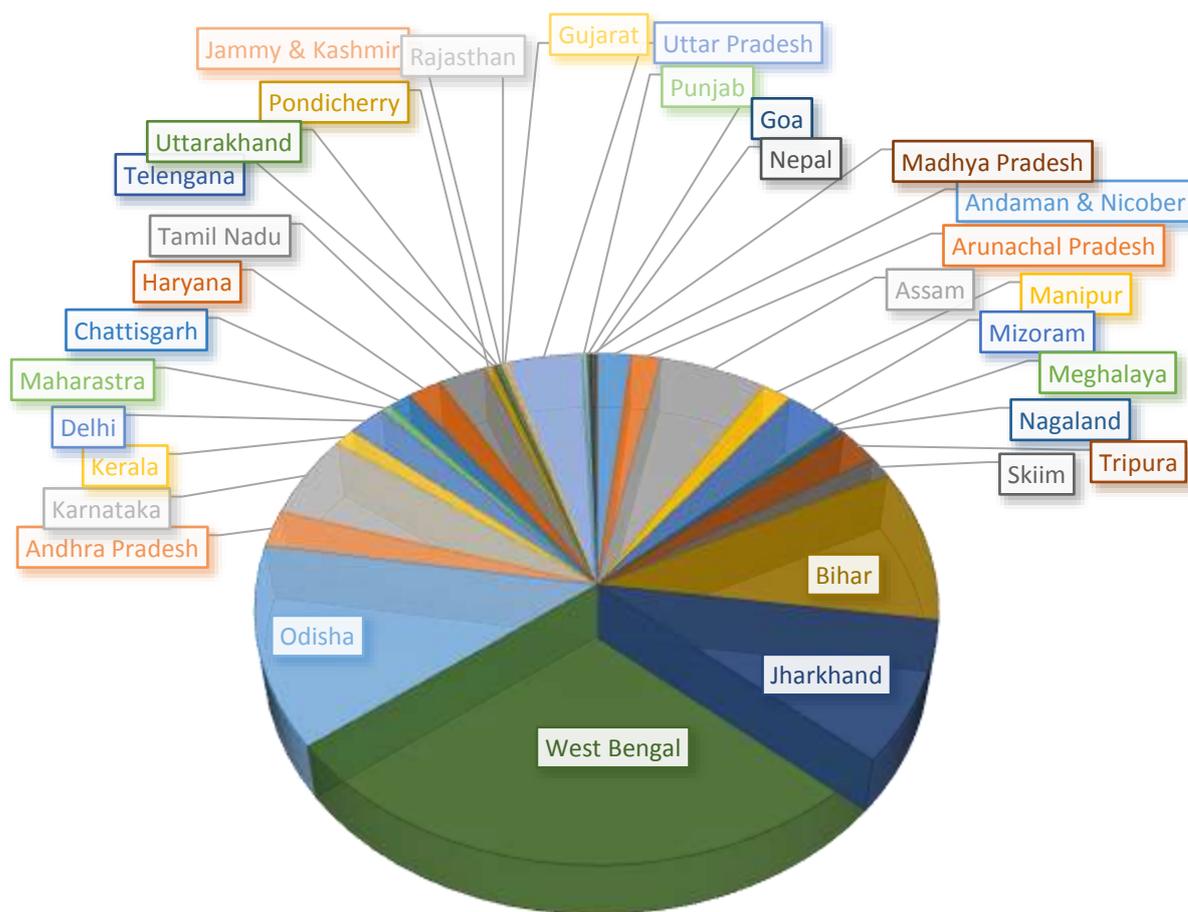


Diagram 7: State-wise Distribution of Participants



Region-wise distribution of participants in STTPs over last 5 years is shown Figure 7.

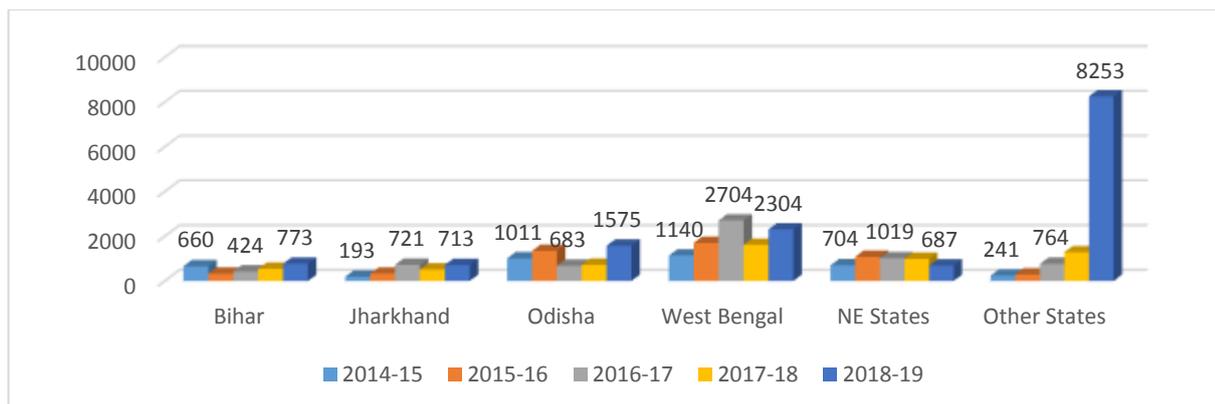


Figure 7: Region-wise Distribution of Participants

Analysis of training data for the year 2018-19 also indicates the well distribution with respect to category-wise participation in the training programmes. Distribution can be visualized from Table 8.

Table 8: Category-wise Participation in STTPs

Category	No. of Participants	Percentage-wise Participants
General Caste	8177	61%
OBC	3886	20%
SC	1476	10%
ST	766	9%
Total	14305	-

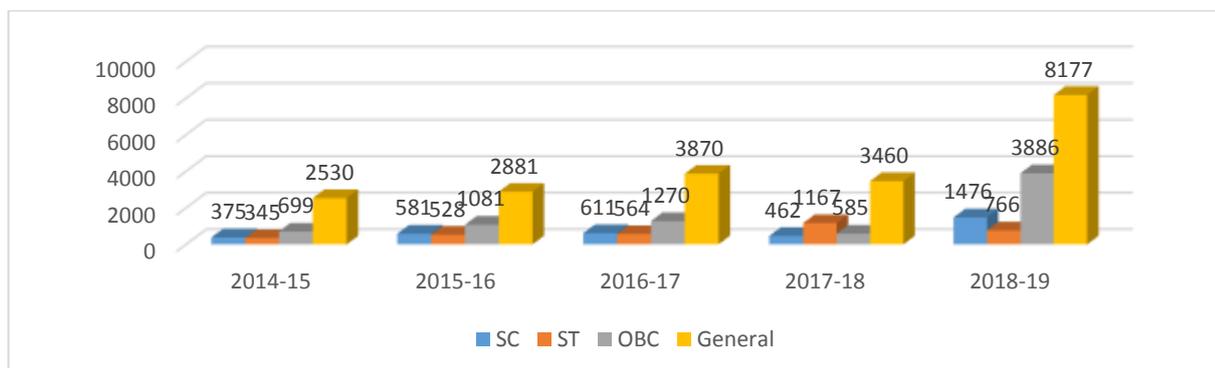


Diagram 8: Distribution of Participants under Different Categories during last 5 years

Gender-wise distribution of participants for last 5 years has been analyzed and is represented in Figure 8. It has been observed that there is a stiff increase in the participation of female participants.

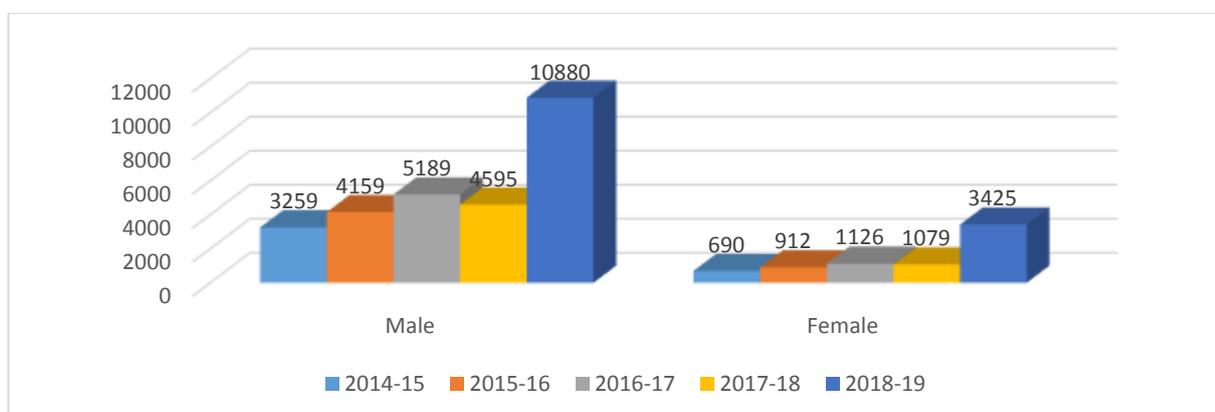


Figure 8: Gender-wise distribution of Participants for last 5 years



D) Workshop

NITTTR, Kolkata conducted total 10 workshops on various topics related to Curriculum Development and Implementation, Training Need Analysis related activities in which 58 participants attended the programs. Distribution of participants in content based STTPs is reflected in the pie-chart below:

Table 9: Workshop participants

Sl. No.	Title of the Workshop	No. of Participants
1	Regional Workshop	160
2	Curriculum Revision Workshop	46
3	International Workshop	19
4	TNA Workshop	58
5	Fostering Reform & Innovation in Engg. Education Workshop	124

Details of Workshops are given in Table 10:

Name of the Programme		Venue	Duration		No. of Day (s)	No. of Trainees
			From	To		
Regional Workshop	4th Regional Workshop on Technical Education System in North Eastern States	Hotel Vivor, Kohima, Nagaland	07/04/2018	09/04/2018	3	56
	Implementation Issues of 4th Regional Workshop (DTE & VC)	NITTTR, Kolkata	02/06/2018	02/06/2018	1	52
	Current Challenges in Training & Placement at Polytechnic Colleges (With Special emphasis for North East Region)	Govt. Polytechnic, Dirang, Arunachal Pradesh	04/10/2018	05/10/2018	2	52
International Workshop	2nd International Workshop on Machine Learning	NITTTR, Kolkata	04/02/2019	08/02/2019	5	19
International Seminar	Fostering Reform and Innovation in Engineering Education	NITTTR, Kolkata	08/06/2018	08/06/2018	1	124
Curriculum Revision & Implementation	Curriculum Revision for the state of Nagaland	NITTTR, Kolkata	13/06/2018	15/06/2018	3	10
	Curriculum Revision for the State of Manipur	Govt. Polytechnic, Imphal	29/08/2018	31/08/2018	3	31
	Curriculum Revision for the State of Sikkim	NITTTR, Kolkata	28/11/2018	30/11/2018	3	5
Training Need Analysis	TNA Workshop for West Bengal	NITTTR, Kolkata	12/03/2019		1	18
	TNA Workshop for North East States	Dispur, Assam	30/11/2018		1	40



LIST OF SHORT TERM TRAINING PROGRAMM (STTP)

Venue: NITTTR, Kolkata

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		No. of Week(s)	Engg	Poly.	Trainees Nos.
			From	To				
CU02	TIG and MIG Welding Processes and Testing of Welds	Dr. A K Mondal	09/04/2018	20/04/2018	2	0	4	4
CU06	Laboratory Experiments and Students' Project	Dr. Sagarika Pal	23/04/2018	27/04/2018	1	0	7	7
CU07	AUTOCAD	Shri N K Mandal	23/04/2018	27/04/2018	1	1	2	3
CU09	Power System Protection and Safety	Dr. Prasanta Sarkar	01/05/2018	05/05/2018	1	1	4	5
CU10	Polymer Composites and Nanocomposites	Dr. Subrata Mondal	01/05/2018	05/05/2018	1	2	1	3
CU11	Design and Development of e-learning Systems	Shri R Chatterjee	01/05/2018	11/05/2018	2	6	0	6
CU12	Mathematical Logic	Dr. Samir Roy	07/05/2018	11/05/2018	1	1	1	2
CU13	Applied Thermodynamics	Dr. R Subbarao	07/05/2018	11/05/2018	1	2	0	2
CU14	Common Contaminants in Drinking Water	Dr. S N Mandal	07/05/2018	18/05/2018	2	0	12	12
CU15	Lab VIEW Architecture, Programming and its applications in Measurement & Control	Dr. S Chattopadhyay	14/05/2018	18/05/2018	1	1	5	6
CU17	Web Design using PHP and MySQL	Dr. I Saha	14/05/2018	25/05/2018	2	6	6	12
CU18	Database Design Theory and Practice	Dr. R Dasgupta	21/05/2018	25/05/2018	1	5	1	6
PS06	Outcome Based Assessment	Dr. H Hussain	21/05/2018	25/05/2018	1	12	5	17
CU21	Numerical and Statistical Methods Using software Tools	Dr. K Giri	28/05/2018	01/06/2018	1	24	5	29
PS07	Induction Training	Dr. H Hussain	28/05/2018	08/06/2018	2	6	16	22
CU23	Microprocessor & Embedded Systems	Dr. S K Mandal	04/06/2018	08/06/2018	1	18	5	23
CU24	Development of Laboratory Instruction and Manual	Dr. Subrata Mondal	04/06/2018	08/06/2018	1	9	24	33
CU25	Fundamentals of Data structures and Algorithms	Dr. Samir Roy	04/06/2018	15/06/2018	2	18	6	24
CU26	Control Systems Analysis & Design using MATLAB	Dr. Prasanta Sarkar	04/06/2018	15/06/2018	2	18	18	36
PS08	Problem Based Learning	Dr. I Saha, Dr. K Giri, Dr. Sagarika Pal & Dr. A K Mondal	04/06/2018	15/06/2018	2	16	20	36
CU27	Refresher Course on Structural Analysis and Design using STAAD.Pro Software with an Introduction to Foundation Design	Dr. Santanu Bhanja	11/06/2018	15/06/2018	1	5	10	15
CU28	CNC Machines: Constructional Features and Programming	Dr. N K Mandal	11/06/2018	15/06/2018	1	13	9	22
MGT02	Human Resource Management - Issues in Technical Education System	Dr. S K Naskar	11/06/2018	15/06/2018	1	24	1	25
CU30	Application of Revised Codes IS 1893-Part 1 : 2016 and IS 13920 :2016 in Earthquake Resistant Design with an Introduction to a sophisticated Shake Table	Dr. Santanu Bhanja	18/06/2018	29/06/2018	2	8	6	14
CU31	Networking Principles Management and Administration	Shri R Chatterjee	18/06/2018	29/06/2018	2	42	0	42
CU32	Hardware Simulation of Electrical and Electronics Circuits	Dr. S K Mandal	18/06/2018	29/06/2018	2	74	2	76
CU33	Mechanical Workshop	Dr. A K Mondal	18/06/2018	29/06/2018	2	4	16	20
MGT03	Laboratory Safety Management	Dr. Subrata Mondal	18/06/2018	29/06/2018	2	8	2	10
PS09	Effective Teaching	Dr. H Hussain	18/06/2018	29/06/2018	2	50	0	50
CU34	Unit Processes in Drinking Water Treatment	Dr. S N Mandal	25/06/2018	06/07/2018	2	14	8	22
CU35	Testing of Brick, Cement, Aggregates, Concrete including Destructive and Semi Destructive Test	Dr. U C Kumar	25/06/2018	29/06/2018	1	9	6	15


Annual Report: 2018-19

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		No. of Week(s)	Engg	Poly.	Trainees Nos.
			From	To				
CU37	Software Engineering Fundamentals & Application Development	Dr. R Dasgupta	02/07/2018	13/07/2018	2	4	6	10
CU38	Mechanical Testing of Materials	Dr. A K Mondal	02/07/2018	13/07/2018	2	28	8	36
PS10	Evaluating Students' Performance & Designing Question Papers	Dr. H Hussain	02/07/2018	13/07/2018	2	12	24	36
CU39	Renewable Energy Sources and Emerging Technologies	Smt. S Y Rai	09/07/2018	13/07/2018	1	5	1	6
CU40	Solar PV Module & Smart Grid	Dr. S K Mandal	09/07/2018	13/07/2018	1	18	5	23
CU41	Identification, Classification, Laboratory & In-situ Testing of Soil	Dr. J J Mandal	09/07/2018	20/07/2018	2	28	16	44
CU42	Fundamentals and Applications of Nanomaterials	Dr. Subrata Mondal	09/07/2018	20/07/2018	2	32	28	60
CU43	Laboratory Experimentation in Engineering Chemistry	Dr. S N Mandal	16/07/2018	20/07/2018	1	0	5	5
CU44	Data Analysis using MATLAB	Dr. I Saha	16/07/2018	20/07/2018	1	4	1	5
CU45	Measurement and Control for Industrial Automation	Dr. Sagarika Pal	16/07/2018	20/07/2018	1	2	3	5
CU46	Thesis and Research Paper Writing	Dr. R Subbarao	16/07/2018	20/07/2018	1	5	3	8
CU47	Recent Trends in Optimization Theory and Applications	Dr. K Giri	23/07/2018	27/07/2018	1	4	2	6
CU49	Power System Instrumentation	Dr. S Chattopadhyay	23/07/2018	27/07/2018	1	2	1	3
CU50	Computer Fundamentals for Faculty and Staffs	Dr. A K Mondal	23/07/2018	03/08/2018	2	30	8	38
CU51	Laboratory Experiments in Electrical and Electronics Engineering	Dr. S K Mandal	30/07/2018	03/08/2018	1	1	2	3
CU52	Application of MATLAB Control System, Image Processing and Fuzzy Logic Toolbox	Dr. Sagarika Pal & Dr. Urmila Kar	30/07/2018	10/08/2018	2	0	14	14
CU53	Power Generation from Energy Resources	Smt. S Y Rai	06/08/2018	10/08/2018	1	0	2	2
CU54	Engineering Thermodynamics and its Applications	Dr. R Subbarao	06/08/2018	10/08/2018	1	0	2	2
PS13	Student Friendly Methods of Instruction	Dr. U C Kumar	06/08/2018	10/08/2018	1	27	58	85
CU57	Development of Interactive Presentation using Multimedia Tools	Dr. I Saha	20/08/2018	31/08/2018	2	0	20	20
CU58	Testing of Concrete Materials & Design of Concrete Mixes	Dr. J J Mandal	27/08/2018	31/08/2018	1	5	0	5
CU61	Laboratory methods for Water and Air Quality Analysis	Dr. S N Mandal	27/08/2018	07/09/2018	2	0	10	10
CU62	Hands on Practice on PLC Programming	Dr. Sagarika Pal	27/08/2018	07/08/2018	2	0	6	6
CU64	Waste Water Treatment: Pollution Control and Reuse	Dr. Subrata Mondal	03/09/2018	07/09/2018	1	2	1	3
CU65	Drawing, Analysis and Design of Structures by Limit State Method using Software	Smt. M Dey	03/09/2018	14/09/2018	2	2	2	4
CU67	Application of MATLAB in Engineering	Dr. Prasanta Sarkar	10/09/2018	14/09/2018	1	1	7	8
CU68	Analysis of Nonlinear Control Systems	Dr. Urmila Kar	10/09/2018	14/09/2018	1	6	0	6
CU70	Environmental Awareness	Dr. S N Mandal	10/09/2018	21/09/2018	2	0	14	14
PS14	Role of Polytechnics in implementing Governmental Scheme e.g. CDTP, PWD, Community College, Unnata Bharat Abhiyan	Dr. U C Kumar	10/09/2018	14/09/2018	1	0	79	79
CU72	Image Processing using MATLAB	Dr. I Saha	17/09/2018	28/09/2018	2	6	4	10
CU74	Advanced Materials Science and Engineering	Dr. Subrata Mondal	24/09/2018	28/09/2018	1	1	2	3
CU75	Problem Solving Using SCILAB	Dr. K Giri	01/10/2018	12/10/2018	2	12	10	22
CU76	IP Networking	Shri R Chatterjee	01/10/2018	12/10/2018	2	2	8	10
PS15	Designing Teaching under Outcome Based Education	Dr. Urmila Kar	08/10/2018	12/10/2018	1	10	4	14
CU79	PLC Programming and Interfacing	Dr. S K Mandal	22/10/2018	26/10/2018	1	2	5	7
CU81	Analysis & Disposal of Solid Waste and Wastewater	Dr. S N Mandal	22/10/2018	02/11/2018	2	12	0	12



Annual Report: 2018-19

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		No. of Week(s)	Engg	Poly.	Trainees Nos.
			From	To				
CU82	Concept Teaching in Engineering Mechanics	Dr. Dipankar Bose & Dr. Samiran Mandal	22/10/2018	02/11/2018	2	2	20	22
CU83	Analysis and Design of Seismic Resistant Buildings using STAAD.Pro with an Introduction to Shake Table Testing	Dr. Santanu Bhanja	29/10/2018	02/11/2018	1	2	1	3
CU84	An Outline of the Theory of Computation	Dr. Samir Roy	29/10/2018	02/11/2018	1	2	0	2
CU86	Introduction to ETABS - Structural Analysis and Design Software for Buildings	Dr. Santanu Bhanja	12/11/2018	16/11/2018	1	6	3	9
CU87	Introduction to Coding Theory	Shri R Chatterjee	12/11/2018	16/11/2018	1	7	0	7
CU90	Solar Energy and Smart Grid	Dr. S K Mandal	12/11/2018	16/11/2018	1	4	2	6
CU91	Thermodynamics	Dr. R Subbarao	12/11/2018	16/11/2018	1	1	0	1
CU92	Design of Payroll Systems using ORACLE	Dr. R Dasgupta	19/11/2018	30/11/2018	2	4	4	8
CU93	Experiments on Sensors & Transducers	Dr. Sagarika Pal	26/11/2018	30/11/2018	1	3	2	5
CU94	Estimating & Costing of Non-Conventional Energies	Smt. S Y Rai	26/11/2018	30/11/2018	1	4	0	4
CU95	CAD/CAM	Shri N K Mandal	26/11/2018	30/11/2018	1	0	1	1
CU96	Engineering Metrology	Dr. Dipankar Bose & Dr. Samiran Mandal	26/11/2018	07/12/2018	2	0	6	6
PS17	Preparation of Effective Report and Presentations	Dr. A K Mondal	03/12/2018	07/12/2018	1	0	3	3
CU99	Mix Design of Concrete theory and Practice	Dr. U C Kumar	10/12/2018	14/12/2018	1	5	6	11
CU101	LABVIEW & MATLAB Applications in Engineering	Dr. S K Mandal	10/12/2018	21/12/2018	2	8	0	8
PS18	Leadership & Team Building in Academia	Dr. H Hussain	10/12/2018	21/12/2018	2	0	12	12
CU102	Surveying by Total Station with an Introduction to GPRS	Dr. Santanu Bhanja	17/12/2018	21/12/2018	1	0	2	2
CU103	Renewable Energy Sources and Emerging Technologies	Smt. S Y Rai	17/12/2018	21/12/2018	1	3	5	8
CU104	Laboratory Manual Preparation	Dr. Dipankar Bose	17/12/2018	21/12/2018	1	1	0	1
CU105	Engineering Optimization with MATLAB	Shri N K Mandal	17/12/2018	28/12/2018	2	10	40	50
PS19	Research Methodology in Engineering and Technical Writing using LaTeX	Dr. K Giri & Dr. I Saha	17/12/2018	28/12/2018	2	12	18	30
CU107	Mathematics and Computations	Dr. Samir Roy & Dr. K Giri	31/12/2018	11/01/2019	2	16	8	24
CU109	Testing of Pavement Materials	Dr. J J Mandal	07/01/2019	11/01/2019	1	8	5	13
CU110	LABVIEW and MATLAB Application in Engineering	Dr. Sagarika Pal	07/01/2019	11/01/2019	1	10	5	15
CU111	8085 & 8086 Microprocessor	Dr. S K Mandal	07/01/2019	11/01/2019	1	4	7	11
CU112	Advanced Manufacturing Processes	Dr. Dipankar Bose	07/01/2019	18/01/2019	2	8	6	14
PS20	Effective Communication	Dr. H Hussain	07/01/2019	11/01/2019	1	9	8	17
CU113	Health Assessment and Rehabilitation of RCC Structures	Dr. Santanu Bhanja & Dr. U C Kumar	14/01/2019	18/01/2019	1	10	10	20
CU114	Power System Protection	Smt. S Y Rai	14/01/2019	18/01/2019	1	4	2	6
CU115	Introduction to Soft Computing	Dr. Samir Roy & Dr. I Saha	14/01/2019	25/01/2019	2	22	6	28
CU116	Modelling and Optimization of Engineering Systems	Shri N K Mandal	14/01/2019	25/01/2019	2	8	0	8
CU117	Introduction to DBMS	Dr. R Dasgupta	21/01/2019	01/02/2019	2	2	8	10
CU118	MATLAB and Simulink Fundamentals	Dr. Urmila Kar	28/01/2019	01/02/2019	1	5	2	7
CU119	Basics of Thermodynamics and Lab	Dr. R Subbarao	28/01/2019	01/02/2019	1	2	4	6
CU122	Total Station Survey and Introduction to GPS	Dr. J J Mandal & Dr. U C Kumar	04/02/2019	15/02/2019	2	12	30	42
CU123	MATLAB & LABVIEW Applications in Electrical, Electronics and Instauration Engineering	Dr. S K Mandal	04/02/2019	15/02/2019	2	8	8	16
CU124	Discrete Mathematics	Dr. K Giri	11/02/2019	15/02/2019	1	0	5	5



Annual Report: 2018-19

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		No. of Week(s)	Engg	Poly.	Trainees Nos.
			From	To				
CU125	Application of AutoCAD in Engineering & Basic Sciences	Smt. M Dey & Dr. U C Kumar	18/02/2019	22/02/2019	1	8	9	17
CU127	Skill Development in Workshops and Laboratories	Dr. Dipankar Bose	18/02/2019	01/03/2019	2	0	20	20
MGT06	Training & Placement Cell Management	Dr. A K Mondal	18/02/2019	22/02/2019	1	0	3	3
CU128	Laboratory Practices on Civil Engineering Materials (Road Material)	Smt. M Dey & Dr. U C Kumar	04/03/2019	08/03/2019	1	2	5	7
CU130	Computer Aided Design with Ansys	Shri N K Mandal	04/03/2019	08/03/2019	1	4	0	4
CU131	Operation and Maintenance of Environmental Pollution Monitoring Equipment	Dr. S N Mandal	04/03/2019	15/03/2019	2	0	16	16
CU133	Topics on Computer Architecture & Organization (Theoretical Discussion)	Dr. R Dasgupta	25/03/2019	29/03/2019	1	4	1	5
PS22	Teaching Methodologies	Dr. A K Mondal	25/03/2019	29/03/2019	1	21	0	21

E-Learning Training Programme (ICT Mode)

Prog. Code	Programme Title	Programme Co-ordinator	Duration		Nos. of Week	Engg	Poly	No. of trainees
			From	To				
ICT01	Laboratory and Workshop Management Issues	Dr. Dipanakar Bose	09/04/2018	13/04/2018	1	145	114	259
ICT (SPL)	Problem Based Learning	Dr. I Saha, Dr. K Giri, Dr. Sagarika Pal & Dr. A K Mondal	25/06/2018	29/06/2018	1	141	119	260
ICT02	Arc Welding Processes & Physics of Welding	Dr. A K Mondal	06/08/2018	10/08/2018	1	167	51	218
ICT03	Static And Dynamic Analysis of Seismic Resistant RCC Buildings with an Introduction to Load and Capacity Design	Santanu Bhanja	10/09/2018	14/09/2018	1	93	40	133
ICT04	Outcome Based Education and Accreditation	Dr. Urmila Kar	24/09/2018	28/09/2018	1	922	322	1244
ICT07	Organizational Behaviour	Smt. M Dey	12/11/2018	16/11/2018	1	559	123	682
ICT08	Indian Electricity Rule and Code of Practices	Dr. Prasanta Sarkar	26/11/2018	30/11/2018	1	313	20	333
ICT09	Introduction to Network Security	Dr. I Saha	03/12/2018	07/12/2018	1	404	29	433
ICT10	Problem Solving and Decision Making	Dr. S K Naskar	31/12/2018	04/01/2019	1	632	30	662
ICT11	Advanced Process Control & Instrumentation System	Dr. S Chattopadhyay	07/01/2019	11/01/2019	1	386	4	390
ICT12	Development of Laboratory Instruction and Manual	Dr. Subrata Mondal	04/02/2019	08/02/2019	1	1466	305	1771
ICT (SPL1)	Problem Based Learning	Dr. I Saha, Dr. K Giri, Dr. Sagarika Pal & Dr. A K Mondal	11/02/2019	15/02/2019	1	818	114	932
ICT13	Modern Manufacturing Systems	Shri N K Mandal	18/02/2019	22/02/2019	1	336	10	346
ICT14	Evaluating Students' Performance & Designing Question Papers	Dr. H Hussain	25/02/2019	01/03/2019	1	875	138	1013
ICT16	Measurement and Control for Industrial Automation	Dr. Sagarika Pal	11/03/2019	15/03/2019	1	374	96	470



Venue: Bhubaneswar Extension Centre

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		Nos. of Week(s)	Engg	Poly.	No. of Trainees
			From	To				
BBSR01	Control Systems Analysis & Design using MATLAB	Dr. Prasanta Sarkar	16/04/2018	20/04/2018	1	4	5	9
BBSR04	Induction Training	Dr. S Chattopadhyay	04/06/2018	08/06/2018	1	33		33
BBSR08	Concept Mapping in Teaching Learning	Dr. Samiran Mandal	16/07/2018	20/07/2018	1	11	11	22
BBSR10	Introduction to Coding Theory	Shri R Chatterjee	06/08/2018	10/08/2018	1	7	4	11
BBSR11	Topics in Discrete Mathematics	Dr. K Giri	27/08/2018	31/08/2018	1	2	3	5
BBSR12	Power Generation from Energy Resources	Smt. S Y Rai	03/09/2018	07/09/2018	1	2	5	7
BBSR13	Arc Welding Processes	Dr. A K Mondal	24/09/2018	28/09/2018	1	2	12	14
BBSR14	MATLAB Application in Engineering	Dr. Sagarika Pal	29/10/2018	02/11/2018	1	2	7	9
BBSR15	Management Issues of Laboratory and Workshop Classes	Dr. Dipankar Bose	12/11/2018	16/11/2018	1		12	12
BBSR03	Principles of RCC Design up to and beyond Limit States Highlighting the Shortcomings of IS:456-2000 with application of Software	Dr. Santanu Bhanja	03/12/2018	07/12/2018	1	7	3	10
BBSR17	Development & Implementations of Technical Curricula	Dr. S K Naskar	10/12/2018	14/12/2018	1	5	1	6
BBSR19	Developments of Laboratory Instructions	Shri N K Mandal	31/12/2018	04/01/2019	1	17	1	18
BBSR23	Introduction to Cyber Security	Dr. I Saha	04/02/2019	08/02/2019	1	20	10	30
BBSR24	Induction Training	Dr. S K Naskar & Dr. S Chattopadhyay	25/02/2019	01/03/2019	1	8	16	24
BBSR28	Engineering Drawing using Software	Mrs. Mithu Dey	25/03/2019	29/03/2019	1	1	17	17

Venue: Guwahati Extension Centre

Prog. Code	Programme Title	Programme Co-ordinator(s)	Duration		Nos. of Week(s)	Engg	Poly.	No. of trainees
			From	To				
G UW03	MATLAB Application in Engineering	Dr. Sagarika Pal	28/05/2018	01/06/2018	1	8	9	17
G UW04	Essentials of Strategic Management	Dr. S K Naskar	04/06/2018	08/06/2018	1	2	8	10
G UW06	Introduction to Coding Theory	Shri R Chatterjee	02/07/2018	06/07/2018	1	3	6	9
G UW07	Modelling of Engineering Systems	Shri N K Mandal	16/07/2018	20/07/2018	1	7	3	10
G UW09	Principles of RCC Design up to and beyond Limit States Highlighting the Shortcomings of IS:456-2000 with application of Software	Dr. Santanu Bhanja	03/09/2018	07/09/2018	1	4	5	9
G UW11	Student Mentorship	Dr. H Hussain	24/09/2018	28/09/2018	1	4	10	14
G UW18	Advanced Control System with MATLAB Simulation	Dr. Prasanta Sarkar	04/02/2019	08/02/2019	1	10	2	12
G UW24	Power Electronics	Dr. S K Mandal	18/03/2019	22/03/2019	1	2	2	4



In-House Training Programme

Prog. Code	Programme Title	Programme Co-ordinator	Venue	Duration		Nos. of Week(s)	No. of Trainees
				From	To		
IHP01	Application of MATLAB in Engineering	Dr. Prasanta Sarkar	North Tripura District Polytechnic	23/04/2018	27/04/2018	1	32
IHP02	Quality Improvement	Dr. S Chakraborty & Dr. A K Mondal	Govt. Polytechnic, Dhanbad	30/04/2018	04/05/2018	1	51
IHP03	MATLAB in Engineering and its Applications	Dr. Sagarika Pal	Nalanda College of Engineering, Chandi	07/05/2018	11/05/2018	1	48
IHP04	Induction Training - Phase I	Dr. S K Naskar	Govt. Girls Polytechnic, Bayron Bazar, Raipur, Chhattisgarh	07/05/2018	11/05/2018	1	11
IHP05	Induction Training	Dr. Urmila Kar & Dr. H Hussain	Jorhat Engineering College	07/05/2018	17/05/2018	2	78
IHP06	Application of Soft Tools in Engineering and Basic Sciences	Mrs. Mithu Dey	Women's Polytechnic, Chandannagar	07/05/2018	19/05/2018	2	108
IHP07	NBA Accreditation	Dr. R Subbarao	Govt. Polytechnic, Washim	15/05/2018	19/05/2018	1	29
IHP08	Application of Innovative Approach for Effective Teaching Management and Research Practices	Dr. S Chattopadhyay	S.C.S. (Autonomous) College, Puri	21/05/2018	25/05/2018	1	59
SPL02	Modern Accounting System	Dr. S K Naskar	NITTTT, Kolkata	28/05/2018	08/06/2018	1	8
IHP09	NBA Accreditation and SAR Preparation	Dr. R Subbarao	Central Institute of Plastics Engineering & Technology, Bhubaneswar	28/05/2018	01/06/2018	1	25
IHP10	Elements of Vibration Analysis	Dr. J J Mandal	Government Engineering College, Haveri	11/06/2018	15/06/2018	1	60
IHP11	Managing Lab Instructions	Dr. Dipankar Bose & Dr. S K Naskar	Government Polytechnic, Koderma	11/06/2018	20/06/2018	2	124
IHP12	Renewable Energy Sources and Emerging Technologies	Smt. S Y Rai	Govt. Polytechnic, Tekari, Gaya	12/06/2018	16/06/2018	1	61
IHP13	NBA Accreditation	Dr. Urmila Kar	Govt. Polytechnic, Imphal	18/06/2018	22/06/2018	1	40
IHP14	Pedagogy	Dr. Urmila Kar & Dr. Samiran Mandal	Central Institute of Plastics Engineering & Technology, Bhubaneswar	25/06/2018	29/06/2018	1	22
IHP15	Designing Question Paper	Dr. Samir Roy, Dr. Sagarika Pal & Shri N K Mandal	MIT, Pune	25/06/2018	29/06/2018	1	52
IHP16	Pedagogy	Dr. S Chakraborty, Dr. R Subbarao & Dr. Indajit Saha	Meghnad Saha Institute of Technology, Kolkata	28/06/2018	04/07/2018	1	42
IHP17	Outcome Based Education and Accreditation	Dr. Urmila Kar	Techno India, Salt Lake	03/07/2018	07/07/2018	1	71
IHP18	Machine Learning & its Application	Dr. I Saha & Dr. Samir Roy	Cooch Behar Govt. Engineering College	09/07/2018	13/07/2018	1	21
IHP19	Induction Training – Phase II	Dr. Urmila Kar	CCCT	09/07/2018	13/07/2018	1	36
IHP20	Problem Solving and Decision Making	Dr. S K Naskar & Shri N K Mandal	Gargi Memorial Institute of Technology, Baruipur, Kolkata	09/07/2018	13/07/2018	1	33


Annual Report: 2018-19

Prog. Code	Programme Title	Programme Co-ordinator	Venue	Duration		Nos. of Week(s)	No. of Trainees
				From	To		
SPL05	Induction Training	Dr. Urmila Kar	NITTTTR, Kolkata (Rajib Gandhi Govt. Poly., Arunachal Pradesh)	16/07/2018	20/07/2018	1	20
IHP21	Application of Soft Tools in Engineering & Science	Mrs. Mithu Dey	M.B.C. Institute of Engineering & Technology, Burdwan	16/07/2018	27/07/2018	2	76
SPL03	Refrigeration and Air Conditioning (Special Class Railway Apprentices – 2014 Batch)	Dr. Dipankar Bose & Dr. R Subbarao	Indian Railways Institute of Mechanical & Electrical Engineering, Jamapur	23/07/2018	27/07/2018	1	23
IHP22	Principles and Practices of Management	Dr. S K Naskar	Cooch Behar Govt. Engineering College	13/08/2018	18/08/2018	1	16
IHP23	Fundamental of Computer Application for Engineering & Basic Sciences	Dr. K Giri & Shri R Chatterjee	Govterment Polytechnic, Ranchi	13/08/2018	24/08/2018	2	80
IHP24	Computer Fundamentals for Faculty and Staffs	Dr. A K Mondal	Government Polytechnic, Dhanbad	20/08/2018	31/08/2018	2	142
IHP25	NBA Accreditation	Dr. R Subbarao	Divine Institute of Engg. & Technology, Baripada	27/08/2018	31/08/2018	1	34
IHP26	Effective Communication and Influencing	Dr. H Hussain	Thanthai Periyar E. V. Ramasamy Govt. Polytechnic College, Vellore	03/09/2018	07/09/2018	1	47
IHP27	Refreshers Course on Application of MATLAB in Engineering	Dr. Sagarika Pal & Dr. Prasanta Sarkar	Govt. College of Engineering & Textile Technology, Berhampore	03/09/2018	14/09/2018	2	70
IHP28	Problem Solving and Decision Making	Dr. S K Naskar & Shri N K Mandal	Medinipur Sadar Govt. Polytechnic, Paschim Medinipur	24/09/2018	05/10/2018	2	92
IHP29	Paper Setting, Question Banking & Student Evaluation	Dr. S Chattopadhyay	S.C. S. (Autonomous) College, Puri	24/09/2018	28/09/2018	1	50
IHP30	Research Methodology in Technical Education & Documentation using LaTaX	Dr. K Giri & Dr. H Hussain	Dibrugarh Institute of Technology	25/09/2018	06/10/2018	2	80
IHP31	PLC and its Applications	Dr. Sagarika Pal	Techno India University, Salt Lake, Kolkata	08/10/2018	12/10/2018	1	33
IHP32	NBA Accreditation	Dr. R Subbarao	North Eastern Hill University, Shillong	29/10/2018	02/11/2018	1	15
IHP33	Induction Training	Dr. Urmila Kar	Tura Polytechnic, Tura	26/11/2018	30/11/2018	1	14
SPL06	Induction Training	Dr. H Hussain	NITTTTR, Kolkata	26/11/2018	07/12/2018	2	70
IHP34	NBA Accreditation	Dr. R Subbarao	North Calcutta Polytechnic	03/12/2018	07/12/2018	1	30
SPL07	Induction Training	Dr. H Hussain	NITTTTR, Kolkata	03/12/2018	13/12/2018	2	72
IHP35	Renewable Energy Emerging Technology and Estimating Costing of Non-Conventional Energies	Smt. S Y Rai	Govt. Polytechnic, Katihar	07/12/2018	16/12/2018	2	156
IHP36	Office Management	Dr. S K Naskar	Govt. Polytechnic, Koderma	10/12/2018	21/12/2018	2	130
SPL08	Induction Training	Dr. H Hussain	NITTTTR, Kolkata	14/12/2018	23/12/2018	2	50
SPL09	Induction Training	Dr. S K Naskar	Govt. Polytechnic, Bhubaneswar	14/12/2018	23/12/2018	2	76



Prog. Code	Programme Title	Programme Co-ordinator	Venue	Duration		Nos. of Week(s)	No. of Trainees
				From	To		
SPL10	Leadership and Team Building in Academia	Dr. H Hussain	NITTTTR, Kolkata (College of Engineering & Management, Kolaghat)	02/01/2019	06/01/2019	1	31
IHP37	Networking Infrastructure and Management	Shri R Chatterjee	JSS Polytechnic for Women, Mysore	07/01/2019	12/01/2019	1	42
IHP38	How to Write Thesis or Research Paper	Dr. R Subbarao	Thanthai Periyar E. V. Ramasamy Govt. Polytechnic College, Vellore	07/01/2019	11/01/2019	1	77
IHP39	Strategic Management	Dr. S K Naskar	Purulia Polytechnic, Purulia	07/01/2019	17/01/2019	2	88
IHP40	NBA Accreditation and SAR Preparation	Dr. R Subbarao	University College of Engineering, Acharya Nagarjuna University	21/01/2019	25/01/2019	1	72
IHP41	Computer Networking	Shri R Chatterjee	North Eastern Regional Instt. Of Sc. & Tech. (NERIST)	28/01/2018	01/02/2018	1	30
IHP42	Environmental Pollution and Health	Dr. S N Mandal	West Bengal Survey Institute, Bandel, Hooghly	28/01/2019	07/02/2019	2	102
IHP43	NBA Accreditation	Dr. R Subbarao	Birla Institute of Technology, Mesra Patna Campus	04/02/2019	14/02/2019	2	80
SPL12	Induction Training	Dr. H Hussain	Bhubaneswar Extension Centre	04/02/2019	14/02/2019	2	82
IHP44	NBA Accreditation	Dr. R Subbarao	Contai Polytechnic	11/03/2019	15/03/2019	1	47
SPL13	Training of Trainers in Construction Sector under CSS-VSHSE Scheme of NSQF in West Bengal	Dr. J J Mandal & Dr. H Hussain	NITTTTR, Kolkata	25/03/2019	29/03/2019	1	52



Lab based STTP at NITTTTR, Kolkata



ICT Training Programme

**B) M. Tech. Programmes**

The Institute launched Full Time (2 year) M. Tech programme in 2002-03 affiliated to Maulana Abul Kalam Azad University of Technology. At present, M. Tech. programmes are offered in four disciplines. Various statistics of M. Tech. programmes for the year 2018-19 are given in Tables 11-13. The number of students enrolled in both the batches are evenly distributed. Further, all final year students who appeared the viva-voce examination could complete their courses successfully.

Table 11: Student Enrolment Status**Student Enrolment Status**

Sl. No.	Name of Programme	Students admitted		
		2018-20 Batch	2017-19 Batch	Total
1.	Manufacturing Technology	14	22	36
2.	Mechatronics Engineering	13	19	32
3.	Structural Engineering	08	09	17
4.	Multi Media and Software System	05	03	08
Grand Total :		40	53	93

Table 12: Student distribution under different Categories

Sl. No.	Name of Programme	No. of Students on Roll							
		2017-19 Batch				2016-18 Batch			
		SC	ST	OBC	Minority	SC	ST	OBC	Minority
1.	Manufacturing Technology	4	-	2	5	3	1	5	3
2.	Mechatronics Engineering	4	-	3	1	-	1	2	2
3.	Multi Media and Software System	-	1	-	-	-	-	-	1
4.	Structural Engineering	1	1	2	1	1	1	2	-
Total :		9	2	7	7	4	3	9	6

Table 13: Students Performance

Sl. No.	Name of the Department	No. of M.Tech Students Appeared (2016-18)	No. of Students Awarded M.Tech (2016-18)
1.	Manufacturing Technology	18	17
2.	Mechatronics Engineering	12	12
3.	Multi Media and Software System	09	08
4.	Structural Engineering	05	05
Total :		44	42



List of M. Tech Thesis

Mechatronics Engineering

1. Wasim Ahmed, Analysis and Simulation of Three-Link Robot Manipulator, [Supervisor: **Dr. S. K. Mandal**].
2. Subhajit Basistha, Smart Grid Control Using Microcontroller, [Supervisor: **Dr. S. K. Mandal**].
3. Sk Md Faroque, QR Code Application in Automation, [Supervisor: **Dr. S. K. Mandal**].
4. Santu Shit, Periodic Output Feedback Control in discrete-shift and Delta Domain – A Comparative Study, [Supervisor: **Dr. P. Sarkar**].
5. Manoj Kumar Garain, Solar Power Monitoring and Control Using Arduino Based GSM System, [Supervisor: **Dr. S. Pal**].
6. Manish Kumar, Comparison between Infrared Sensor and Ultrasonic Sensor Based Obstacle Avoiding Robotic Vehicle, [Supervisor: **Dr. S. Pal**].
7. Imran Ali, Rational Approximation of Fractional Order System in Delta Domain, [Supervisor: **Dr. P. Sarkar**].
8. Chandan Mukherjee, Design, Development and Testing of a Non-Contact Type of Capacitive Level Sensor for Conducting Liquid, [Supervisor: **Dr. S. Pal**].
9. Arunava Choudhury, Design and Development of Octagonal Strain Ring Based Load Cell, [Supervisor: **Dr. S. Pal**].
10. Anupam Ghosh, Fractional Order PI^α Controller Tuning and Optimization using PSO, [Supervisor: **Dr. P. Sarkar**].
11. Aliprio Hazra, PI Control of Induction Motor in Continuous, Discrete and Delta Domain and its Comparative Study, [Supervisor: **Dr. P. Sarkar**].
12. Anupam Biswas, Speed Control of Permanent Magnet DC Motor using Labview, [Supervisor: **Dr. S. Pal**].

Multimedia and Software System

1. Parinita Dutta, An Approach of Backup and Restoration System in SDN Implementation, [Supervisor: **Mr. Rajeev Chatterjee**].
2. Pritisha Sarkar, An Intelligent Technique to Find Fuzzy Bicliques and its Application to Optimum Matching Problem, [Supervisor: **Dr. Samir Roy**].
3. Tanay Ghosh, Object Identification using Machine Learning, [Supervisor: **Dr. Indrajit Saha**].
4. Ankita Majumder, Job Migration Policy in a Structured Cloud Framework, [Supervisor: **Dr. R. Dasgupta**].
5. Nandita Gautam, Comparative Study between Largest Empty Circle and K-means Clustering: Implementation with Python Programming, [Supervisor: **Dr. Kinsuk Giri**].
6. Subhasankar Chakraborty, Integrated Genome-wide analysis of Multi-omics Data to Identity Breast Cancer Subtype Specific Epigenetic Biomarkers, [Supervisor: **Dr. Indrajit Saha**].
7. Sanchari Ghatak, Design and Implementation of Elevator Control System Using Software Engineering Approach, [Supervisor: **Dr. R. Dasgupta**].
8. Sonam Biswas, Design and Implementation of an Intrusion Detection System with Self-Learning, [Supervisor: **Dr. Samir Roy**].

Manufacturing Technology

1. Ujjwal Karmakar, Study of the Effect of Copper on the Mechanical and Tribological Properties of Iron-Copper Alloy Steel Produced by Powder Metallurgy, [Supervisor: **Dr. Samiran Mandal**].
2. Sutanu Mondal, Investigation of Tool Flank Wear and Cutting temperature in High Speed Turning of AISI D2 Steel, [Supervisor: **Mr. Nirmal Kumar Mandal**].
3. Suman Kr. Mandal, Study of the Effect of Machining Parameters on Machining Performances in End-Milling Operation of Titanium Alloy, [Supervisor: **Dr. Samiran Mandal**].
4. Sujay Majumder, Analysis of Underwater Friction Stir Welding of Aluminum AA6061, [Supervisor: **Dr. Arpan Kumar Mandal**].
5. Sourath Ghosh, Estimation of Residual Life of Cutting Tool in CNC Turning Process, [Supervisor: **Dr. Sukanta Kumar Naskar & Co-guide: Nirmal Kumar Mandal**].
6. Sk Tohidul Box, Influence of Chemical Treatment on Mechanical Properties of Pineapple Leaf Fiber Reinforced Polymeric Composites, [Supervisor: **Dr. Arpan Kumar Mandal**].
7. Rathijit Dey, Design and analysis of lathe spindle using finite element method, [Supervisor: **Dr. Rayapati Subba Rao**].
8. Rajesh Roy, Fabrication and Characterizations of Graphene Reinforced Aluminium Matrix Nanocomposites Prepared by Using Powder Metallurgy Method, [Supervisor: **Dr. Subrata Mondal**].
9. Nityananda Mahato, Modeling and Analysis of Gas Turbine Blade made of Nickel Based Super-alloys, [Supervisor: **Dr. Rayapati Subba Rao**].
10. Moubassir Mondal, Power Assessment of a CNC Vertical Machining Centre, [Supervisor: **Mr. Nirmal Kumar Mandal**].
11. Md. Sakib Iqbal, Experimental Investigation of the Mechanical Properties of Pulse TIG Welded Mild Steel Joints, [Supervisor: **Dr. Arpan Kumar Mandal**].
12. Kunal Kumar, Processing and characterizations of carbon nanotubes reinforced copper matrix nanocomposites, [Supervisor: **Dr. Subrata Mondal**].
13. Dhiraj Kumar, Experimental Study on Improving MRR and Surface Roughness in Wire-Cut EDM of Low Conductive Material, [Supervisor: **Dr. Dipankar Bose**].
14. Biswajit Mondal, Study of Performance of Alumina and Alumina-Graphene Hybrid Nano Fluid in MQL Turning of AISI 316, [Supervisor: **Dr. Samiran Mandal**].
15. Arun Kumar, Study of Effect of ternary fluxes on improving mechanical properties of a TIG Welded joints of ASTM A335 Alloy steel plates, [Supervisor: **Dr. Dipankar Bose**].
16. Aparesh Pati, Experimental Investigation and Comparison of the Effect of Process Parameters on Dry, Near Dry and Wet WEDM of Inconel 601 alloy, [Supervisor: **Dr. Dipankar Bose**].
17. Anirban Mitra, Measurement and Analysis of Machining Performance of a CNC End Milling Process, [Supervisor: **Mr. Nirmal Kumar Mandal**].
18. Anand Ranjan, Optimization of process parameters for machining of Inconel 718 using surfactant added PMEDM, [Supervisor: **Dr. Dipankar Bose**].

Structural Engineering

1. Sourav Dutta, Determination of Natural Time Periods of Different Lumped Mass Models by Free and Forced Vibration using Shake Table and by Theoretical Analysis, [Supervisor: **Dr. Santanu Bhanja**].
2. Shuvra Saha, Evaluation of Responses of SDOF Systems by Experimentation with Shake Table and Validation by Theory and Soft Tool, Monojit Mondal, [Supervisor: **Dr. Santanu Bhanja**].
3. Analysis and Design of Cost Effective Foundation System for medium Rise Residential Building on Typical Kolkata Soil, [Supervisor: **Dr. Jagat Jyoti Mandal**].
4. Indrajit Pahari, Seismic Analysis of Vertically irregular RC Frame Building, [Supervisor: **Dr. Uday Chand Kumar**].
5. Ashis Kumar Dutta, Response analysis of Beams on Vlasov Foundation, [Supervisor: **Dr. Jagat Jyoti Mandal**].

C) Educational Video Films for Gyandarshan Channel

Following list of video films has been developed by NITTTR, Kolkata and these films have been sent to Gyandarshan TV Channel for telecasting.

1. Current Electricity Lecture-I, [Dr. N P Nayak, Professor, HIT, Kolkata]
2. Current Electricity Lecture-II, [Dr. N P Nayak, Professor, HIT, Kolkata]
3. Current Electricity Lecture-III, [Dr. N P Nayak, Professor, HIT, Kolkata]
4. Current Electricity Lecture-IV, [Dr. N P Nayak, Professor, HIT, Kolkata]
5. Current Electricity Lecture-V, [Dr. N P Nayak, Professor, HIT, Kolkata]
6. Current Electricity Lecture-VI, [Dr. N P Nayak, Professor, HIT, Kolkata]
7. Thermodynamics Series Lecture-VI [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
8. Thermodynamics Series Lecture-VII [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
9. Thermodynamics Series Lecture-VIII [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
10. Thermodynamics Series Lecture-IX [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
11. Thermodynamics Series Lecture-X [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
12. Thermodynamics Series Lecture-XI [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
13. Thermodynamics Series Lecture-XII [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
14. Thermodynamics Series Lecture-XIII [Dr. R Subbarao, Assistant Professor, NITTTR, Kolkata]
15. Basic Statistics Part-I, [Dr. Kinsuk Giri, Assistant Professor, NITTTR, Kolkata]
16. Basic Statistics Part-II, [Dr. Kinsuk Giri, Assistant Professor, NITTTR, Kolkata]
17. Classroom Management, [Dr. S K Naskar, Associate Professor, NITTTR, Kolkata]
18. SWOT Analysis, [Dr. S K Naskar, Associate Professor, NITTTR, Kolkata]
19. Automated Manufacturing System Lecture-I, [Mr. N K Mandal, Associate Professor, NITTTR, Kolkata]
20. Automated Manufacturing System Lecture-II, [Mr. N K Mandal, Associate Professor, NITTTR, Kolkata]
21. Automated Manufacturing System Lecture-III, [Mr. N K Mandal, Associate Professor, NITTTR, Kolkata]





Faculty and Officers in Position

Civil Engineering

Professor

Jagat Jyoti Mandal, Ph.D
Sailendra Nath Mandal, Ph.D
Santanu Bhanja, Ph.D
Uday Chand Kumar, Ph.D

Assistant Professor

Mithu Majhi, M.Tech

Computer Science & Engineering

Professor

Ranjan Dasgupta, Ph.D
Samir Roy, Ph.D

Assistant Professor

Indrajit Saha, Ph.D
Kinsuk Giri, Ph.D
Rajeev Chatterjee, M.Tech

Electrical Engineering

Professor

Prasanta Sarkar, Ph.D
Subrata Chattopadhyay, Ph.D
Soumitra Kumar Mandal, Ph.D

Assistant Professor

Sagarika Pal, Ph.D
Sheela Yadav Rai, M.Tech

Education and Management

Professor

Sekhar Chakraborty, Ph.D (31/10/2018)
Urmila Kar, Ph.D

Associate Professor

Sukanta Kumar Naskar, Ph.D

Assistant Professor

Habiba Hussain, Ph.D

Mechanical Engineering

Professor

Samiran Mandal, Ph.D
Dipankar Bose, Ph.D

Associate Professor

Nirmal Kumar Mandal, M.Tech

Assistant Professor

Arpan Kumar Mondal, Ph.D
Rayapati Subharao, Ph.D
Subrata Mondal, Ph.D

Officers

Sr. Administrative Officer

Subir Basak, MBA

Technical Officer

Yagamaya Das, B.Sc
Avijit Kundu, M.Tech
Asadur Rahaman, B.Tech



Staff Members in Position

- | | | | |
|----|--|----|--|
| 1 | Ashoke Paul, LDC | 31 | Praveen C. D. Siodiya, Sr. Technical Assistant |
| 2 | Animesh Shome, UDC | 32 | Paresh Sardar, MTS |
| 3 | Anokhe Lal Balmiki, MTS | 33 | Pradeep Kumar Nayak, Senior Technician |
| 4 | Anup Kumar Saha, Assistant | 34 | Prasanta Paul, Sr. Technical Assistant |
| 5 | Ashis Dogra, UDC | 35 | Priyatosh Dey, MTS |
| 6 | Ashish Kumar Das, Sr. Technical Assistant | 36 | Radhanath Rout, MTS |
| 7 | Bapi Sadhukhan, Technician | 37 | Rajendra Singh Bisht, MTS |
| 8 | Bhanu Prasad, Assistant | 38 | Rajpal Balmiki, MTS |
| 9 | Bijoy Chandra Guchhayut, MTS | 39 | Ramanuj Dutta Roy, Section Officer Gr. II |
| 10 | Bisan Bahadur Pradhan, MTS | 40 | Sanjit Kumar Dutta, MTS |
| 11 | Bishu Das, MTS | 41 | Sanjoy Sen, LDC |
| 12 | Chandi Das Mondal, MTS | 42 | Sati Nath Mitra, Technical Assistant Gr. II |
| 13 | Chinmoy Jana, Senior Technician | 43 | Satyaki Kar Gupta, Technical Assistant Gr. II |
| 14 | Dipali Paramanik, UDC | 44 | Shyamal Murari, MTS |
| 15 | Dasharath Mandi, MTS | 45 | Shyamapada Mandi, UDC |
| 16 | Debashis Shaw, Senior Technician | 46 | Siris Mandal, MTS |
| 17 | Dipak Gupta, Assistant | 47 | Siru Murmu, MTS |
| 18 | Dulal Chandra Naskar, MTS | 48 | Soma Bhattacharjee Samadder, UDC |
| 19 | Ganesh Mandal, MTS | 49 | Sofiul Anam, Sr. Technical Assistant |
| 20 | Gobardhan Mandal, Assistant | 50 | Sourav Roy Choudhury, LDC |
| 21 | Indrajit Nandy, UDC | 51 | Subrata Mitra, Section Officer Gr. II |
| 22 | Joseph Bhutia, UDC | 52 | Sumit Roy Chowdhury, Senior Technician |
| 23 | Joydeb Patra, MTS | 53 | Swapan Dey, Section Officer Gr. II |
| 24 | Joydeep Bandopadhyay, Section Officer Gr. II | 54 | Swapan Kumar Halder, MTS |
| 25 | Kallol Modok, Sr. Technical Assistant | 55 | Swapan Majumdar, MTS |
| 26 | Khokon Mandal, MTS | 56 | Swarup Chand Bala, Assistant |
| 27 | Mainak Mandal, Senior Technician | 57 | Tapas Jana, MTS |
| 28 | Nontu Hazra, MTS | 58 | Tapas Sarkar, Technical Assistant Gr. II |
| 29 | Nitai Kumar Sarkar, Technical Assistant Gr. II | 59 | Utpal Chakraborty, Technical Assistant Gr. II |
| 30 | Nirmal Kumar Sarkar, MTS | 60 | Uttam Kumar Dutta, MTS |



NITTR Family



Publications

Book Chapter:

1. Kinsuk Giri, 'Formation of Two Component Flows by Numerical Simulations Around Black Holes', Astrophysics and Space Science Proceedings, Volume 53, Springer International Publishing AG, Springer Nature, 2018.
2. Aditya Nigam, Phalguni Gupta, 'Finger knuckle based Multi-biometric Authentication Systems, in Biometric-Based Physical and Cybersecurity Systems (Chapter 23)', Mohammad S. Obaidat, Issa Traore, Isaac Woungang (eds), Springer, 2018.
3. De-Shuang Huang, Vitoantonio Bevilacqua, Prashan Premaratne, Phalguni Gupta (Eds), 14th International Conference on 'Intelligent Computing Theories and Application', 2018, Part I, Lecture Notes in Computer Science book series (LNCS, volume 10954).

Journals

1. Suman Chatterjee, Siba Sanakr Mahapatra, Arpan Kumar Mondal and Abhishek Kumar, 'An experimental study on drilling of titanium alloy using CO2 laser', Sādhanā, Springer, Vol. 43(131), pp-1-14, 2018.
2. Amit Ratan Biswas, Sadananda Chakraborty, Partha Sarathi Ghosh, Dipankar Bose, 'Study of Parametric Effects on Mechanical Properties of Stainless Steel (AISI 304) and Medium Carbon Steel (45C8) Welded Joint using GMAW', Materialstoday: Proceedings, Elsevier, Vol.5(5P2), pp. 12350-12359, 2018.
3. Indrajit Saha, J. P. Sarkar and U Maulik, 'Integrated Rough Fuzzy Clustering for Categorical data Analysis', Fuzzy Sets and Systems, Vol. 361, pp-1-32, 2019.
4. S. S. Bhowmick, I. Saha, D. Bhattacharjee, L. M. Genovese and F. Geraci, 'Genome-wide analysis of NGS data to compile cancer-specific panels of miRNA biomarkers', Plos One, Vol. 13, 2018.
5. J. Swarnakar, P. Sarkar and L. J. Singh, 'A unified direct approach for discretizing fractional-order differentiator in delta-domain', International Journal of Modeling, Simulation and Scientific Computing, World Scientific Publishing, vol. 9(6), 2018.
6. Phalguni Gupta, Kamlesh Tiwari, Geetika Arora, 'Fingerprint Indexing Scheme – A Survey', Neurocomputing, Volume 335, pp-352-365, 2019.
7. Puneet Gupta and Phalguni Gupta, 'Multi-biometric Authentication System using Slap Fingerprints, Palm Dorsal Vein and Hand Geometry', IEEE Transactions on Industrial Electronics, 65(12): 9777-9784, 2018.
8. Puneet Gupta, Phalguni Gupta, 'A Slap Fingerprint based Verification System invariant to Halo and Sweat Artifacts', Applied Mathematical Modelling, 54, pp-413-428, 2018.
9. Ashok Bragadeshwaran, Nanthagopal Kasianantham, Saravanan Balusamy, SenthilKumar Muniappan, Dandu MadhuSudan Reddy, Randive Vishal Subhash, Nashte Adarsh Pravin and Rayapati Subbarao, 'Mitigation of NOx and smoke emissions in a diesel engine using novel emulsified lemon peel oil biofuel environmental science and pollution research', Environmental Science and Pollution Research, Volume 25(25), pp-25098–25114, 2018.



10. Rayapati Subbarao, A. Ramesh, B. Ashok, K. Nanthagopal, M. Ramesh Pathy, Abhijeet Tambare, Prajwal Mali, Pratik Phuke and Sumit Patil, 'Influence of Hexanol as Additive with Calophyllum Inophyllum Biodiesel for CI Engine Applications', Fuel, 249, pp-472–485, 2019.
11. Joydeep Bhattacharya and Sailendra Nath Mandal, 'Batch adsorption study on removal of fluoride from aqueous solution by Darjeeling Tea Ash', Res. J. Chem. Environ, Vol. 23(2), pp-71-79, 2019.
12. Maitra Chakraborty Gargi, Das Saroj Kumar and Sailendra Nath Mandal, 'Removal of Fluoride from Ground Water by Adsorption using Agricultural Waste (Rice Husk Ash)', Res. J. Chem. Environ, Vol. 22(3), pp-1-7, 2018.
13. J.P Khatick and S. K. Mandal, 'Database Interaction by Using Natural Language', International Journal of Advances in Electronics and Computer Science, Vol.5(10), 2018.
14. S. K. Mandal and S. K. Dolui, 'Utilizing of Renewable Power in Smart Grid', International Journal of Industrial Electronics and Electrical Engineering, Vol.6(10), pp-23-26, 2018.
15. S. K. Mandal and S. Das, 'Multi-header Pulse Interval Modulation (MH-PIM) for Visible Light Communication System', Progress in Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing, vol.714, pp.281-290, 2018.

Conferences

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2. Sadananda Chakraborty, Souren Mitra and Dipankar Bose, 'Modeling & Analysis of B4C Powder Mixed Wire EDM Process for Improving Performance Criteria of Ti6Al4V', Conference on Advances in Materials and Manufacturing Engineering, 2019.
3. Anand Ranjan, Sadananda Chakraborty, Dhiraj Kumar and Dipankar Bose, 'Multi-objective Optimization of a Hybrid Machining Process Abrasive Powder Mixed WEDM of Inconel 718 using Particle Swarm Optimization Technique', 9th Conference of Materials Processing and Characterization, 2019.
4. Dhiraj Kumar, Sadananda Chakraborty, Anand Ranjan and Dipankar Bose, 'Experimental Study on Improving Material Removal Rate and Surface Roughness in Wire Cut EDM of Low Conductive Material', Conference on All India Manufacturing Technology, Design and Research, 2018.
5. S. Rakshit, I. Saha, S. S. Chakraborty and D. Plewczynski, 'Deep Learning for Integrated Analysis of Breast Cancer Subtype Specific Multi-omics Data', IEEE Region 10 Conference TENCON, South Korea, 2018.
6. R. Ramkumar, R. Jayanthi, A. Ghousia Jabeen and Habiba Hussain, 'Conceptual Maps: New First Year Engineering Students Perception on Sustainable Development', National Teachers Science Congress, Ahmedabad, December 2018.
7. Indrajit Saha, S. Rakshit and T. Ghosh, 'Machine Learning for Object Labelling', IEEE Region 10 Conference TENCON, South Korea, 2018.
8. Jagat Jyoti Mandal and Sayandip Ganguly, 'Free Vibration analysis of Piled Raft Foundation by FE – BE Coupling method', Proceedings of 9th European Conference on Numerical Methods in Geotechnical Engineering, Porto, Portugal, June, 2018.



9. Ashis Kumar Dutta and Jagat Jyoti Mandal, 'Analysis of Beams on Vlasov Foundation', Proceedings of 11th Structural Engineering Convention, Kolkata, India, December 2018.
10. Tapobrata Roy, Subhashish Roychowdhury and Jagat Jyoti Mandal, 'Behaviour of Piled Raft System with optimal Arrangement of Piles', Proceedings of 11th Structural Engineering Convention, Kolkata, India, December 2018.
11. Kinsuk Giri and Sandip K. Chakrabarti, 'Segregation of Disc, Halo and Outflow from a Transonic Flow around a Black hole', 42nd COSPAR Scientific Assembly, California, USA, July 2018.
12. Kinsuk Giri and Sayan Kundu, 'Higher Order Stability Analysis for Astrophysical Accretion Processes', 42nd COSPAR Scientific Assembly, California, USA, July 2018
13. Kinsuk Giri, Sandip K. Chakrabarti and Arka Chatterjee, 'Possible Images of Sgr A* in Two Component Advective Flow Paradigm', 42nd COSPAR Scientific Assembly, California, USA, July 2018.
14. Arnab Deb, S. K. Chakrabarti and Kinsuk Giri, 'Vertical Oscillation in thick accretion flow and its effect on outflows', 42nd COSPAR Scientific Assembly. Held 14-22 July 2018, California, USA.
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Infrastructure Development

Sl. No.	Name of work	Value of work	Status of work up to 31/03/2019
1	External repairing and painting of Staff qtrs. Type-I-2 Blocks, Type-II-1 Block, plinth protection & Miscellaneous work at FC Block	13.05	Completed
2	Outside damage repairing and painting including miscellaneous work of Welding Centre, NITTTR, Kolkata	6.475	Completed
3	Supplying and installation of Children Park equipment including development of field at FC & DN Block Campus.	5.23	Completed
4	SITC of VRF type Air-Conditioning units in the Academic Building for NITTTR, Kolkata	72.85	Completed
5	Laying paver tiles on the walkways surrounding the playground and rest portion of the Executive Hostel courtyard and around the staff quarters at FC Block Campus.	39.34	Completed
6	Renovation/ repairing of staircase including landing area, toilet block shaft area etc. of Old Admin. Building	18.12	Completed
7	Internal repairing & painting of 07 nos, Type-II and 03 nos. Type-I Staff qtrs. at FC Block	17.17	Completed
8	Repairing/Up gradation of existing auditorium –Providing sound reinforcement system, stage lighting, fire alarm system, air-conditioning including general lighting in Auditorium hall.	73.08	Completed
9	Repairing/Up gradation of auditorium approach road and its surrounding	44.32	Completed
10	Providing and fixing exterior Facade (Louvers) to existing Auditorium.	57.36	Completed
11	Renovation of existing Auditorium – Providing stage Drapery.	10.71	Completed
12	Renovation of existing Auditorium – Synthetic sports surface flooring.	11.22	Completed
13	Renovation/ repairing of Structural Lab in the Civil Engineering Deptt. at ground floor of New Building.	17.465	Works in progress.
14	Construction of (G+2) Ladies Hostel at FC Block Campus	556.54	Works in progress.
15	Renovation of 6 nos. Professor's quarter at DN-61 Campus, NITTTR, Kolkata	81.77	Works in progress.
16	Providing additional amenities/ features to the Auditorium, like HD-LED Display unit, exit signage, façade lighting, inverter unit etc. at NITTTR, Kolkata	33.75	Works in progress.
17	Renovation /Upgradation including providing aluminium work of Mechanical Engineering Deptt. Laboratory in the ground floor of Old Building.	30.24	Works in progress.
18	Construction of Toilet Block at the back side of Auditorium, NITTTR, Kolkata	10.455	Works in progress.
19	Construction of Toilet Block at the back side of Auditorium, NITTTR, Kolkata	10.455	Works in progress.
20	Renovation /Upgradation of Hostel No.-I at NITTTR, Kolkata.	150.65	Works in progress.
21	Electrical renovation work for the Hostel No.-I	19.86	Works in progress.



Hostels

(A) Executive Hostel:

Institute has a modernized executive hostel to provide lodging facility to STTP trainees and guests. The executive hostel has 37 rooms. All rooms of Executive Hostel are well equipped, each with a television, refrigerator, AC, geyser. Keeping in view the needs of the inmates and visitors, an arrangement has been made for common facilities which include Desktop computer, and one printer; 24x7 wi-fi connection. Though during the period under report one block of the hostel underwent major renovation, services from the executive hostel were smoothly provided.

During period, 908 trainees from various polytechnics and engineering colleges stayed in the Executive Hostel. Other than these, there were 123 officials and guests who stayed in the hostel.



Executive Hostel

(B) PG Hostel:

Statistics of Boarders at M. Tech. Students' Hostel

Academic Year	Number of Boarders		
	Boys	Girls	Total
1 st Year	18	4	22
2 nd Year	33	4	37
Grand Total			59



Matter of Litigation

During the year 2018-19, no legal notice was served to the Institute.

Raj Bhasha Hindi Diwas

Like every year, NITTTR, Kolkata celebrated the month of September 2018 as of the Official Language Month through various language activities programmes. On this occasion, two levels of “Hindi Essay Writing Competitions, were organized – one for Group “A”, “B” & “C” category of employees and another only for “MTS” employees of the Institute. The winners of the first level of competition were Prof. R. Subbrao, Shri Satyaki Kar Gupta, Shri P. D. Siodiya, Shri Radhanath Rout, Shri Gobardhan Mondal and Shri Animesh Shome. The winners of the second level of competition were Shri Radhanath Rout, Shri Rajpal Balmiki, Shri Ganesh Mondal, Shri Chandi Das Mondal and Shri Pratap Jana.

Right to Information Act, 2005

During the year 2018-19, the Public Information Officer of the Institute received a total 8 (Eight) applications under RTI Act, 2005 seeking information related to the Institute. There was nil RTI application pending.

Laying of Annual Report

Annual Reports/Audited Accounts of the Institute for the year 2018-19 were sent to the Ministry of Human Resource Development, Government of India and the same were laid on the table of both the Houses of Parliament on the dates as indicated hereunder:

Name of the House	: Lok Sabha	Date on which laid	: 11/02/2019
Name of the House	: Rajya Sabha	Date on which laid	: 07/02/2019

Annual Events

4th Regional Workshop on Technical Education for North Eastern States

In order to improve the quality of polytechnic education system of North Eastern states, like previous years, NITTTR Kolkata organized the fourth regional workshop in collaboration with the Government of Nagaland at Kohima during 7th to 9th April 2018. The theme of the work shop was “Challenges in Achieving Excellence through Accreditation in Polytechnics of North Eastern States”.



The Workshop was inaugurated by the Honorable Minister for Higher & Technical Education, Government of Nagaland, Shri Temjen Imna along as Chief Guest in presence of Prof. Phalguni Gupta, Director, NITTTR, Kolkata, Shri Madhu Ranjan Kumar, Joint Secretary, Ministry of Human Resource Development, Government of India, Smt. Dally Rose, Commissioner & Secretary, Higher Technical Education, Government of Nagaland and Er. Arjun Singh, Director, Directorate of Technical Education, Government of Nagaland, Secretary, HE & DTE, Government of Assam, OSD, Technical Education, Government of Manipur, DTE, Government of Bihar, DTE, Government of Mizoram, DTE, Government of Madhyapradesh and DTE, Government of Jharkhand and Shri Ajit Balakrishnan, CEO, Rediff.com.

Total number of 64 participants participated in the workshop. The 4th Regional Workshop has been concluded with several recommendations on preparation for Accreditation by NBA; feasibility study for Establishment of New Polytechnics and for Introducing New Programme in Existing Polytechnics; provision for Skill based Short Term Training for Faculty members and Technical Staffs of Polytechnic Institutes; role of AICTE in Enhancing Polytechnic Education System in North Eastern States; Internship of Polytechnic Students in NITs; and Industry Exposure to pass out of Polytechnic Students through BOPT/BOAT etc.



Anti-Terrorism Day

NITTT, Kolkata observed Anti-Terrorism Day on 21st May 2018 in a befitting manner. The pledge led by Prof. Sekhar Chakraborty, Director-in-Charge was taken by faculty, staff and students of the Institute. The objective behind observance of this day was discussed by various members.



Meeting-cum-Workshop of BOG Members, DTEs and Vice Chancellors of Technical Universities:

To improve the quality of Technical Education with specific reference to contemporary Polytechnic Education a Meeting-cum-Workshop of BOG Members, DTEs and Vice Chancellors of Technical Universities was organized on 2nd June 2018. Hon'ble Chairman, Board of Governors, Shri Harshavardhan Neotia chaired the meeting.





World Environment Day

Like last few years this year also the World Environment Day was celebrated in the Institute on 5th June 2018, Tuesday at 5:00 PM onwards. Director, faculty members, staff members, trainees, students and others took part for the tree plantation activity in the campus. The celebration was started with talks on the importance of the event and awareness of plastic pollution. The Director, NITTTR Kolkata conveyed his views on reduction for the consumption of plastics in our daily life. Several other participants also talked on alarming issue like significant increase of global plastic consumption and subsequent generation of large volume of plastic wastes.



Prime Minister's address during his interaction with the beneficiaries of Digital India

The Institute participated in the discussion the Hon'ble Prime Minister, Shri Narendra Modi, had with the beneficiaries of various Digital India Mission schemes from across the country, through video bridge on 15th June 2018.

The Prime Minister enlightened the beneficiaries, the steps Government is planning to make this possible which consist of connecting villages through fibre optic, digitally educating citizens, providing service delivery through mobiles and promoting electronic manufacturing.



International Yoga Day



The 4th International Yoga Day was celebrated at National Institute of Technical Teachers' Training & Research, Kolkata on 21st June 2018. About 100 participants participated in that event. Two professional yoga teachers conducted the yoga practice. The Yoga session started on scheduled time with Prayer and methodical practice of different poses under the supervision of Yoga teachers. The Yoga teachers also narrated the usefulness of different "ASANAS" to prevent from various diseases and the benefit of Yoga in the overall wellbeing of a human being.

72nd Independence Day

The Institute celebrated 72nd Independence Day in its Campus which was attended by the Faculty, Staff and Students with a great spirit. Contributions of great leaders in making the country free were discussed at length by various dignitaries. The gathering concluded with National Anthem.



Condolence meeting in memory of former Prime Minister Shri Atal Bihari Vajpayee, on 17 August, 2018



The Institute condoled the death of Shri Atal Bihari Vajpayee, former Prime Minister of India in befitting manner on 17th August 2018 in the Mini Auditorium. The Institute was remain closed after the condolence meeting as per the proclamation of Government of India.

Surgical Strike Day

The first ever “Surgical Strike Day” was observed on 26th September 18 at NITTTR, Kolkata as per guidelines issued by Ministry of Human Resource Development, Govt. of India to all Higher Education Institution. At NITTTR, Kolkata “Surgical Strike Day” was celebrated with great enthusiasm and vitality. The response among students were overwhelming and almost 96% of existing students participated in that event.

Ex-Brigadier of Indian Army Mr. Prabir Sanyal was invited to share his valuable experience of military operations for the sake of our country. Mr. Sanyal during his one-hour session described the contributions and sacrifices made by Indian soldiers to protect our country and the hardships often faced by them for doing this holistic job. His speech was sensational and mind blowing. It conquered the heart of students, faculty, officers, staff and trainees who took part in that event. At the end of his speech, he interacted with audience and answered all the questions made by the audience. The Programme was ended with a prayer for “Bharatmata”.



Teachers’ Day

To mark the tribute to the valuable contribution of teachers to the society, the students of the Institute celebrated the ‘Teachers Day’ on 5th September 2018 in the Institute. This is also the birthday of Dr. Sarvapalli Radhakrishnan, the President of India. Prof. Phalguni Gupta, Director of the Institute discussed on what Hon’ble Prime Minister, Narendra Modi said, ‘Teaching is not a profession but a way of life’. The students of the Institute performed memorable events exclusively for teachers.



Swacch Bharat

In pursuant to the vision of Swachhta Pakhwada, NITTTR, Kolkata organized a special cleanness drive. With a motivational speech delivered by Prof. Phalguni Gupta, Director of the Institute, NITTTR, Kolkata family along with students started cleaning drive immediately after distribution of equipment's on 29th September 2018. Cleanliness has become regular activities of NITTTR, Kolkata. On the occasion, all the employees of the Institute took pledge in this regard.

Apart from regular activities, Institute organized a seminar in association with Ministry of Housing and Urban Affairs, Government of India to enlighten the society in the following: Segregation of waste at source and use of blue and green bins, decentralized solid waste management, Importance of composting- how to compost at home, Anti-littering and Importance of 3R (reduce, reuse and recycle) and its application in our daily lives.



Workshop on Current Challenges in Training & Placement at Polytechnic Colleges (with special emphasis for North Eastern Region):

In line with the recommendation of the 4th Regional Workshop held at Kohima, the Institute organized the workshop on “Current Challenges in Training & Placement at Polytechnic Colleges (with special emphasis for North Eastern Region)” on 4th to 5th October 2018 in Government Polytechnic, Dirang, Arunachal Pradesh.

The Workshop was inaugurated by the Honorable Minister for Higher & Technical Education, Government of Arunachal Pradesh, Shri Honchun Ngandam as Chief Guest in presence of Prof. Phalguni Gupta, Director, NITTTR, Kolkata, Guest of Honor, Member of the legislative assembly, Sri Phurpha Tsering, Deputy Commissioner, West Kameng District (Arunachal Pradesh), Dr. Sonal Swaroop, Additional Deputy commissioner Dirang, Sri Toko Babu, Director, Higher & Technical Education, Govt. of Arunachal Pradesh, Dr. Tayek Talom, BOG members of National Institute of Technical Teachers' Training and Research Kolkata, MAKAUT VC Prof. Saikat Maitra and Sri. Arun Kumar, DTE Jharkhand, Representative of Chairman, BoG, NITTTR Kolkata, Mr. Debashis Bhattacharya, other dignitaries and training & placement officers (TPOs) and Principals of



Polytechnics of North Eastern Region. Total forty-nine (49) participants have been participated in the workshop.

- The workshop concluded with the following recommends:
- Creation of Common Platform for Enhancing Training and Placement Activities,
- Provision of Skill based Training for TPOs,
- Encouraging Students to be ready to sacrifice Native Place for Better Opportunities,
- Creation of Alumni Database, and
- Motivate Students to become Entrepreneur



Vigilance Awareness Week



As per the communication of Government of India, the Institute observed the vigilance Awareness Week on 30th October 2018. All the faculty and staff members took the pledge. Dr. Sekhar Chakraborty, Chief Vigilance Officer of the Institute initiated the programme.

Rashtriya Ekta Diwas

The Institute observed 31st October 2018 as Rashtriya Ekta Diwas (National Unity Day) to commemorate the birth anniversary of 143rd birth anniversary of Sardar Vallabhbhai Patel.

On the occasion, Institute organized 'Run for Unity' to pay tribute to the Iron Man of India. To spread the thinking of the Iron Man of India, pledge taking ceremony was also organized. Students, faculty and staff members took part in the programme.





Foundation Day



NITTTR, Kolkata celebrated its 55th Foundation Day on 11th January 2019. Shri Harshavardhan Neotia, Chairman of the Board of Governors was the Chief Guest at the function.

The function commenced by the hosting of the National Flag and the singing of the national anthem. In his address to the audience, the Director highlighted the institutional achievement and future aspect of the Institute.

The day also saw the recognition of employees who completed continuous service of 25 years in the Institute and also the award to the Best Performer of the Institute for 2018. This year Shri Bhanu Prasad and Shri Shyamapada Mandi got the award jointly for their outstanding performance.

On this auspicious occasion, the Chairman, BOG inaugurated the Executive Hostel II which would be used by the lady participants of the short term training and programme and long term programme and also Exhibition Centre where institutional activities were displayed.

In the evening, a cultural programme was organized on the occasion.





Republic Day



The 70th Republic Day of India was celebrated in the Institute in a befitting manner on 26th January 2019. The Director the Institute hoisted the tri colour to mark the day. Various activities such as debate, cultural programme, sports were organized in this occasion. Participation in the programme all across the society of NITTTR, Kolkata fraternity were excellent.



Pariksha Pe Charcha



Hon'ble Prime Minister, Shri Narendra Modi interacted with several students from across the country and shared his personal experiences with the young audience on 29th January 2019. The programme was telecasted in the Institute which was attended by the students of the Institute.

2nd National Innovation Talent Contest for Polytechnics:

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata, is engaged in uplifting of the polytechnic education system of the country by imparting training to polytechnic teaching fraternity. To ensure motivation in skill training among the students, teachers, technical staff members and to foster innovation literacy for improved downstream innovation and productivity in the industries, the Institute has organized 1st National Innovation Talent Contest (1st NITCP) among various polytechnics in the country in February 2017. After successfully conducting 1st NITCP, NITTTR Kolkata has recently organized 2nd National Innovation Talent Contest for Polytechnics (2nd NITCP), 23rd and 24th February 2019.

One of the major objective for 2nd NITCP was to identify the levels of skills and innovation potentials of students, teachers, and technical staff members of polytechnic institutes in the potential areas for the applications of mainly rural technology. Emphasis has been given in the potential areas for the application of rural technology in different sectors, such as: (i) **Agriculture**: Mobile application and or device for precision agriculture and farming, improved techniques of cultivation, agricultural machines and tools etc.; (ii) **Health**: Pure drinking water, improvement in sanitation, Cloud Computing Technology for Health etc.; (iii) **Energy**: Development of practical application of renewable sources like solar, wind, tidal, geothermal, water power, bio-mass/gas, urban waste etc. for lighting and motive power; (iv) **Low cost housing and technology village**: Developing rural housing towards designing, constructing and fabricating cheap and affordable houses in rural areas using locally available materials and resources, technology village etc.; (v) **Roads and communication**: improvement in village roads, transport and communication systems.

Total 99 teams from 17 states and NCR Delhi have been registered for the contest. While, total 42 teams from 14 states and NCR Delhi participated in the Grand Finale of 2nd NITCP 2019 in five major disciplines such as Civil Engineering, Computer Science and Engineering, Electrical Engineering, Interdisciplinary and Mechanical Engineering. Core committee of the contest has selected judges from industry and academia in various domain areas. Judges selected total 14 teams for prizes in various category, such as: (a) Grand Winner: 01 team (Prize money Rs. 50,000/-), (b) Joint Runner Up: 3 teams (Prize money Rs. 20,000/- per team), (c) Directors' Choice: 2 teams (Prize money Rs. 15,000/- per team), and (d) Consolation Prize: 8 teams (Prize money Rs. 5,000/- per team). An "Honorable Mention" of rupees two thousand only (per team) has been approved for remaining all participated teams in the Grand Finale.





2nd International Workshop on Applied Machine Learning:

The International Workshop on Applied Machine Learning was held from 4th to 8th February 2019 at NITTTR, Kolkata in collaboration with BITS, Pilani. Participants from different institutes and speakers from top organizations over the country participated in this workshop. The workshop was inaugurated in the presence of Prof. Ranjan Dasgupta, Professor and Head, Computer Science & engineering, Dr. Indrajit Saha, NITTTR, Kolkata (Coordinator) and Dr. Kamlesh Tiwari, Convener, BITS, Pilani and staff members of NITTTR, Kolkata. Dr. Kamlesh Tiwari presented the overview of the course and briefly discussed aim of the course. Dr. Indrajit Saha, Coordinator enlightened the importance and purpose of the workshop.

There were 19 participants across the country attend the programme. Apart from Coordinator and Co-Coordinator of the workshop, Dr. A K Bhateja, Director, DRDO, Dr. Suresh K Choudhary, Data Scientist, NDS, Dr. Aditya Nigam, Assistant Professor, IIT, Mandi, Dr. Surya Prakash, Assistant Professor, IIT, Indore, Dr. Mitesh M Khapra, Assistant Professor, IIT, Madras, Dr. Filippo Geraci, IIT, CNR, Italy and Dr. Arun Chauhan, IIIT, Dharwad, delivered lectures on the related topics such as Data Mining, Statistics, Feature, Curse of dimensionality, Bayesian Inference using graphical models, generative models, MAP/ML Hypothesis, Monte Carlo Simulations etc.





Financials

The Institute is financed by the Department of Higher Education, Ministry of Human Resource Development, Government of India. During 2018-19, the Institute received a grant of Rs. 2070.00lakhs from the Ministry of Human Resource Development to meet its yearly expenses. The Institute receives funds for sponsored research projects and for consultancy assignments being undertaken by the Institute from several funding agencies and Industries. The financial year of the Institute corresponds with that of Govt. of India i.e. 1st April to 31st March. The accounts of the Institute are annually audited by the Office of the Principal Director of Audit, Central Kolkata, Indian Audit and Accounts Department of the Balance Sheet of the Institute, Income and Expenditure Statement, Grants Received are shown in tabulated format below.

BALANCE SHEET AS AT 31ST MARCH, 2019

SOURCE OF FUNDS	Schedule	Current Year	Previous Year
CORPUS/CAPITAL FUND	1	5776,76,877	5286,29,966
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	196,98,693	178,08,511
CURRENT LIABILITIES & PROVISIONS	3	4061,99,134	4417,57,828
TOTAL		10035,74,704	9881,96,305
APPLICATION OF FUNDS	Schedule	Current Year	Previous Year
FIXED ASSETS			
Tangible Assets	4	2140,03,185	2223,81,059
Intangible Assets	4	18,42,343	4,14,313
Capital Works-in-Progress	4	1428,56,405	977,56,065
INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	5	39,75,929	47,65,723
Long Term			
Short Term			
INVESTMENTS - OTHERS	6		
CURRENT ASSETS	7	5888,73,660	3723,20,756
LOANS, ADVANCES & DEPOSITS	8	520,23,182	2905,58,389
TOTAL		10035,74,704	9881,96,305
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	24		



INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED
31ST MARCH, 2019

Amount in Rupees

Particulars	Schedule	Current Year	Previous Year
INCOME			
Academic Receipts	9	61,99,425	57,89,932
Grants / Subsidies	10	2396,01,284	3709,31,250
Income from Investments	11	393,34,488	181,75,082
Interest earned	12	12,76,679	3,40,383
Other Income	13	34,20,311	13,72,803
Prior Period Income (Liabilities W/Back)	14	-	-
Deferred Income AS 12 [Corresponding to Sch 4(i)]	4	131,92,709	379,02,797
TOTAL (A)		3030,24,896	4345,12,247
EXPENDITURE			
Staff Payments & Benefits (Establishment Expenses)	15	1867,62,087	1542,95,214
Academic Expenses	16	202,01,198	158,86,504
Administrative and General Expenses	17	289,13,631	283,26,992
Transportation Expenses	18	6,31,035	8,06,043
Repairs & Maintenance	19	30,21,787	114,73,235
Finance Costs	20	19,830	45,892
Depreciation	4	131,92,709	379,02,797
Other Expenses	21	-	-
Prior Period Expenses	22	51,716	(1,333)
TOTAL(B)		2527,93,993	2487,35,344
Balance being excess of Income over Expenditure (A - B)		502,30,903	1857,76,903
Unspent balance of Grants transferred to Other Current Liabilities [Sch.3(A)(6)(d)]		-	1786,14,168
Balance Being Surplus / (Deficit) Carried to Capital Fund		108,96,415	71,62,735

Significant Accounting Policies 23

Contingent Liabilities and Notes to Accounts 24





SCHEDULE - 1: CORPUS / CAPITAL FUND

Amount in Rupees

	Particulars	Current Year	Previous Year
	Balance at the beginning of the year	5286,29,966	5205,69,746
Add:	Contributions towards Corpus/Capital Fund	-	-
Add:	Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure	513,43,205	480,88,240
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:	Other Additions :		
	Deferred Income AS-12	(313,31,529)	(379,03,424)
	Old provisions written back	181,38,820	628
Add:	Excess of Income over Expenditure transferred from the Income & Expenditure Account	108,96,415	71,62,735
	Total:	5776,76,877	5379,17,925
(Deduct)	Capital of OBC EXPANSION transferred to Schedule -2	-	92,87,958
(Deduct)	Deficit transferred from the Income & Expenditure Account	-	-
(Deduct)		-	-
	Balance:	5776,76,877	5286,29,966





Annual Report: 2018-19

SCHEDULE - 2: DESIGNATED / EARMAKRD / ENDOWMENT FUNDS

Amount in Rupees

Particulars	PDMTVE	MOD/ MECH (II)	COMPU- TER LAB	DST- Comp. Sc.-2	SKILL CONTEST	DST CSE	IWAML- 2018	OBC EXPAN.	CPSC	QIP- AICTE	MOOC	NRC	Current Year	Previous Year
A.														
a) Opening Balance	18,75,150	42,249	67,236	-	55,96,450	2,08,829	1,99,713	96,37,181	29,703	1,52,000			178,08,511	183,73,814
b) Additions during the year				1,75,900	-	2,63,946	3,14,000				6,87,500	14,70,000	29,11,346	14,23,400
c) Income from Investments made of the funds					3,83,426								3,83,426	8,13,200
d) Accrued Interest on Investments/Advances	1,32,040				-			1,54,124					2,86,164	1,797
e) Interest on Savings Bank A/c		1,499	2,384			13,644	12,743	1,539		2,876	38,042	46,884	1,19,611	75,079
f) Other additions/Advance										6,000	15,00,000	15,00,000	30,06,000	14,800
Total (A)	2,007,190	43,748	69,620	1,75,900	59,79,876	4,86,419	5,26,456	97,92,844	29,703	160,876	2,225,542	30,16,884	24,515,058	207,02,090
B. Utilization/Expenditure towards objectives of funds														
i) Capital Expenditure						-							-	-
ii) Revenue Expenditure				1,75,900	18,21,298	2,03,705	2,49,052			98,281	7,05,075	63,054	33,16,365	28,93,579
iii) Others (Advance)						-						15,00,000	15,00,000	-
Total (B)		-		1,75,900	18,21,298	2,03,705	2,49,052		-	98,281	7,05,075	15,63,054	48,16,365	28,93,579
Closing balance at the year end (A - B)	2,007,190	43,748	69,620	-	41,58,578	2,82,714	2,77,404	97,92,844	29,703	62,595	1,520,467	14,53,830	19,698,693	178,08,511
Represented by														
Cash and Bank Balances		43,748	69,620		41,53,778	1,75,003	2,77,404	49,455	25,703	62,595	15,20,467	14,53,830	78,31,603	62,68,925
Investments	18,75,150							21,00,779					39,75,929	47,65,723
Advances/TDS					4,800	70,500		44,712	4,000				1,24,012	36,921
Capital work in progress/assets						37,211		65,63,000					66,00,211	65,83,642
Interest accrued but not due	1,32,040							34,898					1,66,938	1,53,300
Others								10,00,000					10,00,000	
Total	2,007,190	43,748	69,620	-	41,58,578	2,82,714	2,77,404	97,92,844	29,703	62,595	1,520,467	14,53,830	18,698,693	178,08,511



SCHEDULE - 3: CURRENT LIABILITIES & PROVISIONS

Amount in Rupees

Particulars	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. Deposits form Staff		
2. Deposits from Students		
3. Sundry Creditors		
a) Others	1,82,654	88,265
4. Deposit - others (including EMD, Security Deposit)	25,84,265	25,92,090
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS)		
a) Overdue		
6. Other Current Liabilities		
a) Salaries		
b) Receipts against sponsored projects		
c) Receipts against sponsored fellowships & Scholarships		
d) Unutilised Grants [as per Sch.3 (c)]	3632,33,715	4078,43,716
e) Grants in advance		
f) Other Funds		
g) Other Liabilities		
i) Book credit with SBI	152,42,673	82,88,262
ii) Others	55,30,778	53,02,909
Total (A)	3867,74,085	4241,15,242
B. PROVISIONS		
1. For Taxation		-
2. Gratuity	-	
3. Superannuation Pension	-	
4. Accumulated Leave Encashment	-	
5. Trade Warranties/Claims		
6. Others (Specify) (Liabilities for expenses)	194,25,049	176,42,586
Total (B)	194,25,049	176,42,586
Total (A + B)	4061,99,134	4417,57,828

Note: Unutilized grants 6 (d) will include grants received in advance for next year.



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

Amount in Rupees

A.1	Plan Grants: Government of India	Current Year	Previous Year
a)	Plan Capital (Non-Recurring)		
	Balance B/F	1477,54,205	358,42,445
	Add: Receipts during the year	300,00,000	1600,00,000
	Total (a)	1777,54,205	1958,42,445
	Less: Utilized for Capital Expenditure(b)(Sch.4)	513,43,205	480,88,240
	Total (b)	513,43,205	480,88,240
	Unutilized carried forward (a - b)	1264,11,000	1477,54,205
b)	Plan General (Recurring)(OH-31)		
	Balance B/F	618,46,162	199,05,953
	Add: Receipts during the year	695,00,000	1195,56,250
	Add: Interest earned from Investment/Bank(Sec.11)	335,18,265	132,59,463
	Total (a)	1648,64,427	1527,21,666
	Less: Utilized for Recurring Expend.(b)(Sch.15,16,17,18,19,20 & 22)	1156,08,015	908,75,504
	Total (b)	1156,08,015	908,75,504
	Unutilized carried forward (a - b)	492,56,412	618,46,162
A.2	Non Plan Grants : Government of India		
a)	Non Plan (Salary)(OH-36)		
	Balance B/F	1130,38,247	(185,75,698)
	Add: Receipts during the year	1075,00,000	2463,75,000
	Total (a)	2205,38,247	2277,99,302
	Less: Utilized for Recurring Expenditure(b) (Sch.15)	1151,37,320	1147,61,055
	Unutilized carried forward (a - b)	1054,00,927	1130,38,247
A.3	Plan Grants(North Eastern Region): Government of India		
a)	Plan Capital, NER (Non-Recurring)(OH-35)		
	Balance B/F	599,02,124	599,02,124
	Add: Receipts during the year		
	Total (a)	599,02,124	599,02,124
	Less: Utilized for Capital Expenditure(b)	-	-
	Unutilized carried forward (a - b)	599,02,124	599,02,124
b)	Plan General, NER (Recurring)(OH-31)		
	Balance B/F	253,02,978	202,42,964
	Add: Receipts during the year		50,00,000
	Add: Interest on Investment/Bank(Sch.11 & 12)	58,16,223	52,56,002
	Total (a)	311,19,201	304,98,966
	Less: Utilized for Recurring Expenditure(b)(Sch.15, 16 & 17)	88,55,949	51,95,988
	Unutilized carried forward (a - b)	222,63,252	253,02,978
B.	UGC Grants: Plan	Nil	
C.	UGC Grants: Non Plan	Nil	
D.	Grants from State Government	Nil	
	* Grand Total (A + B + C + D)	3632,33,715	4078,43,716

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 Balance,
 Short Term Deposits with Banks and advances on Capital Account.



Annual Report: 2018-19

SCHEDULE - 4: FIXED ASSETS

Sl. No	Assets Heads	Gross Block				Depreciation for the year 2018-19				Amount in Rupees Net Block	
		Opening Balance 01.04.2018	Additions	Deductions	Closing Balance	Opening Balance	Depreciation for the year	Deductions/ Adjustment	Total Depreciation	31.03.2019	31.03.2018
1	Land	40,48,117			40,48,117					40,48,117	40,48,117
2	Site Development									-	
3	Buildings				-					-	
	i) Office Building	1533,19,277			1533,19,277	758,06,979	30,66,386	-	788,73,365	744,45,912	775,12,298
	ii) Residential Building	451,37,548			451,37,548	207,15,232	9,02,751		216,17,983	235,19,565	244,22,316
	iii) Hostel Building	289,89,108			289,89,108	156,73,766	5,79,782	-	162,53,548	127,35,560	133,15,342
4	Roads & Bridges				-					-	
5	Tubewells & Water Supply	1,18,815			1,18,815	7,814	2,376		10,190	1,08,625	1,11,001
6	Sewerage & Drainage				-					-	-
7	Electrical Installation and Equipment	202,07,668	4,36,050		206,43,718	37,99,452	10,32,186		48,31,638	158,12,080	164,08,216
8	Plant & Machinery	1152,67,646			1152,67,646	944,78,067	57,63,382		1002,41,449	150,26,197	207,89,579
9	Scientific & Laboratory Equipment	495,82,154	17,02,833		512,84,987	85,08,958	41,02,799		126,11,757	386,73,230	410,73,196
10	Office Equipment	48,95,008	11,00,496		59,95,504	8,14,535	4,49,663		12,64,198	47,31,306	40,80,473
11	Audio Visual Equipment	54,21,734	6,72,115		60,93,849	15,15,143	4,57,039		19,72,182	41,21,667	39,06,591
12	Computers & Peripherals	764,90,431	3,51,238		768,41,669	694,85,586	107,18,555	159,14,944	642,89,197	125,52,472	70,04,845
13	Furniture, Fixtures & Fittings	262,50,158	7,56,511		270,06,669	193,20,070	20,25,500		213,45,570	56,61,099	69,30,088
14	Vehicles	34,25,139			34,25,139	8,26,829	3,42,514	-	11,69,343	22,55,796	25,98,310
15	Library Books & Scientific Journals	98,32,728	1,67,496		100,00,224	96,52,040	36,625		96,88,665	3,11,559	1,80,688
16	Small Value Assets				-					-	-
	Total (A)	5429,85,531	51,86,739	-	5481,72,270	3206,04,471	294,79,557	159,14,944	3341,69,085	2140,03,185	2223,81,059
17	Capital Work in Progress(B)	977,56,065	451,00,340		1428,56,405					1428,56,405	977,56,065
	Intangible Assets				-						
18	Computer Software	105,20,430	10,56,126		115,76,556	101,06,117	18,51,972	22,23,876	97,34,213	18,42,343	4,14,313
19	E-Journals				-						
20	Patents				-						
	Total (C)	105,20,430	10,56,126	-	115,76,556	101,06,117	18,51,972		97,34,213	18,42,343	4,14,313
	Grand Total (A + B + C)	6512,62,026	513,43,205	-	7026,05,231	3307,10,588	313,31,529	181,38,820	3439,03,297	3587,01,933	3205,51,437

Note: The figures 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" "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 - 6: INVESTMENTS - OTHERS

Sl. No.	Funds	Amount in Rupees	
		Current Year	Previous Year
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

Sl. No.	Particulars	Amount in Rupees	
		Current Year	Previous Year
1	Stocks		
	a) Stores and Spares		
	b) Loose Tools		
	c) Publications		
	d) Laboratory Chemicals, Consumables and Glass ware		
	e) Building Materials		
	f) Electrical Material		
	g) Stationery		
2	h) Water Supply Materials		
	Sundry Debtors		
	a) Debts Outstanding for a period exceeding six months		
3	b) Others		
	Cash and Bank Balance		
	a) With Scheduled Banks		
	* In Current Accounts		-
	* In Term Deposit Accounts	5776,01,636	3611,01,421
	* In Savings Account	112,72,024	112,19,335
	b) With Non-Scheduled Bank		
* In Term Deposit Accounts			
* In Savings Account			
4	Cash in Hand		
Total:		5888,73,660	3723,20,756

Note: Term deposit includes Rs. 18,96,440 /- is kept as margin money with SBI, Salt Lake Branch against Bank Guarantee (Pr. Yr. Rs. 17,93,744/-).



SCHEDULE - 8: LOANS, ADVANCES & DEPOSITS

Amount in Rupees

Sl. No.	Particulars	Current Year	Previous Year
1	Advances to employees: (Non-interest bearing)		
	a) Salary		
	b) Medical Advance		
	c) Other (to be specified)		
2	Long-Term Advances to employees: (Interest bearing)		
	a) Vehicle Loan(Motor/Scooter Advance)		
	b) Home Loan	22,88,578	8,57,148
	c) Other (Computer Advance)	86,300	56,700
3	Advances and other amounts recoverable in cash or in kind or for value to be received)		
	a) On Capital Account		
	b) To Suppliers	112,66,008	56,63,108
	c) Others	29,72,833	9,31,738
4	Prepaid Expenses		
	a) Insurance		
	b) Other Expenses		
5	Deposits		
	a) Telephone		
	b) Lease Rent		
	c) Electricity		
	d) AICTE, if applicable		
	e) Others (to be specified)	82,532	61,141
6	Income Accrued		
	a) On Investments from Earmarked/Endowment Funds		
	b) On Investments - Others	273,44,184	39,31,967
	c) On Loans and Advances	4,72,747	4,81,587
	d) Others (includes Income due unrealized)		
7	Other - Current Assets receivable from UGC/ sponsored Projects		
	a) Debit Balances in Sponsored Projects		
	b) Debit Balances in Sponsored Fellowships & Scholarships		
	c) Grants Receivable		
	d) Other receivables from UGC		
8	Claims Receivable	75,10,000	2785,75,000
	Total	520,23,182	2905,58,389

Note: 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

Sl. No.	Particulars	Current Year	Previous Year
FEES FROM STUDENTS			
1	Tuition Fee(Course fees)	12,04,500	9,11,000
	i) M.Tech. Course fees	49,94,925	47,84,532
2	Admission Fee		
3	Enrolment Fee		
4	Library Admission Fee		
5	Laboratory Fee		
6	Art & Craft Fee (M.Tech. Cultural Fees)		
7	Registration Fee		
8	Syllabus Fee		
	Total (A):	61,99,425	56,95,532
EXAMIANATIONS			
1	Admission Test Fee		
2	Annual Examination Fee		-
3	Mark Sheet, Certificate Fee		
4	Entrance Examination Fee		
	Total (B):		-
OTHER FEES			
1	Identify Card Fee		
2	Fine/Miscellaneous Fee		
3	Medical Fee		
4	Transportation Fee		
5	Hostel Fee		
	i) M.Tech. Sports fees		
	Total (C):	-	-
SALE OF PUBLICATIONS			
1	Sale of Admission Forms		
2	Sale of Syllabus and Question Paper, etc.		
3	Sale of Prospectus including Admission Forms		
	Total (D):		
OTHER ACADEMIC RECEIPTS			
1	Registration Fee for Workshops, Programmes(TEQIP-II, IRG)		94,400
2	Registration Fees (Academic Staff College)		
	Total (E):	-	94,400
GRAND TOTAL (A+B+C+D+E):		61,99,425	57,89,932

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 incorporation in this schedule.



Annual Report: 2018-19

SCHEDULE 10: GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in Rupees

Particulars	Plan		Total Plan	Non Plan UGC (MHRD) (OH-31)	Non Plan UGC (MHRD) (OH-36)	Non Plan UGC (MHRD) (OH-31-NER)	Current Year Total	Previous Year total	
	Govt. of India (OH-35)	UGC							
		Plan							Specific Schemes
Balance B/F									
Add: Receipts during the year									
i) Plan Recurring (General)(OH-31)				637,25,000			637,25,000	1102,86,249	
ii) Plan Recurring (SC)(OH-31)				40,75,000			40,75,000	64,13,001	
iii) Plan Recurring (ST)(OH-31)				17,00,000			17,00,000	28,57,000	
iv) Non Plan Recurring (Salary)(OH-36)					1025,00,000		1025,00,000	2277,69,250	
iv) Non Plan Recurring (Salary) (SC) (OH-36)					35,00,000		35,00,000	122,96,000	
iv) Non Plan Recurring (Salary) (ST) (OH-36)					15,00,000		15,00,000	63,09,750	
vii) Plan Recurring (General)(NER)							-	50,00,000	
viii) Plan Recurring (ST)(NER)							-		
IX) Capital(OH-35)	227,00,000		227,00,000						
IX) Capital(OH-35-SC)	51,00,000		51,00,000						
IX) Capital(OH-35-ST)	22,00,000		22,00,000						
Total	300,00,000		300,00,000	695,00,000	1075,00,000		1770,00,000	3709,31,250	
Less: Refund to UGC									
Balance									
Less: Utilised for Capital expenditure (A)	513,43,205		513,43,205						
Balance	(213,43,205)		(213,43,205)						
Less: Utilized for Revenue Expenditure (B)				1156,08,015	1151,37,320	88,55,949	2396,01,284		
Balance C/F (C)	(213,43,205)		(213,43,205)	(461,08,015)	(76,37,320)	(88,55,949)	(626,01,284)		

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 Accounts

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

(ii) Represented by Bank balances, Investments and Advances on gthe assets side.



SCHEDULE-11: INCOME FROM INVESTMENT

Amount in Rupees

Sl. No.	Particulars	Earmarked / Endowment Funds		Other Investments	
		Current Year	Previous Year	Current Year	Previous Year
1	Interest				
	a) On government Securities				
	b) Other Bonds/Debentures				
2	i) Interest on Term Deposits	2,86,164	-	335,18,265	129,32,003
	ii) Interest on Term Deposits (NER)			58,16,223	52,43,079
3	Income accrued but not due on Term Deposits/ Interest bearing advances to employees				
4	Interest on Savings Bank Accounts				
5	Others (specify)				
	TOTAL:	2,86,164	-	393,34,488	181,75,082
	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 fund (EMP) for such advances have been set up.

SCHEDULE-12: INTEREST EARNED

Amount in Rupees

Sl. No.	Particulars	Current Year	Previous Year
1	On Savings Accounts with Scheduled Banks	11,92,629	2,33,972
2	On Loans		
	a) Employees/Staff		
	i) Interest on House Building Advance	77,529	84,419
	ii) Interest on Computer Advance	6,521	14,949
	iii) Interest on Motor Cycle Advance		7,043
	b) Others		
	Total	84,050	1,06,411
3	On Debtors and Other Receivables		
	TOTAL	12,76,679	3,40,383

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

Sl. No.	Particulars	Amount in Rupees	
		Current Year	Previous Year
A.	Income from Land & Buildings		
1	Hostel Room Rent/Accommodation Charges	12,63,473	7,69,130
2	License Fee	1,65,954	2,34,397
3	Hire Charge of Auditorium/Play Ground/Convention Centre, etc.		
4	Electricity Charges Recovered		
5	Water Charges recovered		
	Total:	14,29,427	10,03,527
B.	Sale of Institute's Publications		
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 fates		
	Less: Direct expenditure incurred on the fates		
3	Gross Receipts for educational tours		
	Less: Direct expenditure incurred on the tours		
4	Others (to be specified and separately disclosed)		
	Total:		
D.	Others		
1	Income from consultancy (Institute IRG)	21,000	11,930
2	RTI fees		
3	Income from Royalty	1,126	5,509
4	Sale of application form	1,42,000	16,200
5	Misc. receipts (sale of Tender Form Waste paper etc.)	11,000	18,000
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)		
8a	i) Hostel Meal Charges	3,83,520	3,13,277
	ii) Meter Rent	4,200	4,080
	iii) Misc. Reciept	1,17,050	280
	iv) Sale of News Paper		
8b	i) Gratuity Contribution	2,70,465	
	ii) Leave Salary Contribution	6,57,897	
	iii) Pension Contribution	3,82,626	
	Total:	19,90,884	3,69,276
	GRAND TOTAL (A+B+C+D):	34,20,311	13,72,803



SCHEDULE-14: PRIOR PERIOD INCOME

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
1	Academic Receipts						
2	Income from Investment						
3	Interest earned						
4	Other Income		-	-			
	Total		-	-			

SCHEDULE-15: STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

Amount in Rupees

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

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
a)	Salaries and Wages						
	i) Salary to Teaching Staff	656,67,866		656,67,866	657,99,690		657,99,690
	ii) Salary to Non-Teaching Staff	446,04,825		446,04,825	439,23,690		439,23,690
b)	Allowance and Bonus			-			-
	i) Bonus			-			-
	ii) Encashment of Leave(LTC)	9,98,681		9,98,681	9,56,674		9,56,674
	iii) Professional Development Allowances	7,36,985		7,36,985	12,08,408		12,08,408
c)	LTC facility	10,89,101		10,89,101	16,04,344		16,04,344
d)	Medical facility	14,82,198		14,82,198	7,86,821		7,86,821
e)	Children Education Allowance	5,57,664		5,57,664	4,81,428		4,81,428
	Total:	1151,37,320	-	1151,37,320	1147,61,055	-	1147,61,055
f)	Contribution to Provident Fund						-
g)	Contribution to Other Fund (NPS)		22,15,355	22,15,355		24,71,582	24,71,582
h)	Staff Welfare Expenses			-			
i)	Retirement and Terminal Benefits			-			
	i)Leave Encashment		29,77,801	29,77,801		23,88,033	23,88,033
	ii)Commuted value of Pension		84,90,778	84,90,778		27,72,847	27,72,847
	iii) Retirement Gratuity		32,44,462	32,44,462		16,86,200	16,86,200
	iv) Leave Salary Contribution		8,56,769	8,56,769		7,30,654	7,30,654
j)	Teaching Assistant			-		9,53,194	9,53,194
k)	Others (specify)			-			-
	i) Pension		529,65,990	529,65,990		278,73,403	278,73,403
	ii) Pension Contribution		8,73,612	8,73,612		6,58,246	6,58,246
	Total:	-	716,24,767	716,24,767		395,34,159	395,34,159
	Grand Total	1151,37,320	716,24,767	1867,62,087	1147,61,055	395,34,159	1542,95,214



SCHEDULE-16: ACADEMIC EXPENSES

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
a)	Laboratory Expenses			-			-
b)	Field Work/Participation in Conferences			-			-
c)	Expenses on Seminars/Workshops		38,525	38,525		4,41,049	4,41,049
d)	Payment to Visiting Faculty(Expert Exp.)		3,69,712	3,69,712		3,92,767	3,92,767
e)	Examination			-			-
f)	Student Welfare Exp.(Medical Insurance to trainees)		1,58,000	1,58,000		92,815	92,815
g)	Admission Expenses			-			-
h)	Convocation Expenses			-			-
i)	Publications			-			-
j)	Stipend/Means-cum-merit Scholarship			-			-
k)	Subscription Expenses			-			-
l)	Others (specify)			-			-
	i) Teaching Staff (Contractual)		6,58,538	6,58,538			-
	ii) In-house Training Programme		25,19,201	25,19,201		18,79,300	18,79,300
	iii) Short Term Training Programme		82,51,269	82,51,269		83,12,023	83,12,023
	v) Curriculum Development		20,814	20,814			-
	vi) M.Tech Course fees(MAKAUT)		2,58,600	2,58,600			-
	TOTAL:	-	122,74,659	122,74,659	-	111,17,954	111,17,954
c.1)	Expenses on Seminars/Workshops						
	i) Expenses on Workshop(NER)		55,97,777	55,97,777		21,34,118	21,34,118
	ii) Short Term Training Programme(NER)		22,91,301	22,91,301		26,16,414	26,16,414
	iii) Curriculum Development(NER)		37,461	37,461		18,018	18,018
	TOTAL:	-	79,26,539	79,26,539	-	47,68,550	47,68,550
	GRAND TOTAL:	-	202,01,198	202,01,198	-	158,86,504	158,86,504



SCHEDULE 17: ADMINISTRATIVE AND GENERAL EXPENSES

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
A.	Infrastructure						
	a) Electricity and Power		73,35,384	73,35,384		80,14,340	80,14,340
	b) Water Charges		2,60,059	2,60,059		3,25,714	3,25,714
	c) Insurance			-			
	d) Rent, Rates and Taxes (including property tax)			-		4,43,684	4,43,684
B.	Communication						
	a) Printing and Stationary (consumption)		5,04,119	5,04,119		6,40,225	6,40,225
	b) Travelling and Conveyance Expenses		8,94,396	8,94,396		18,89,814	18,89,814
	c) Hospitality			-			
	d) Auditors Remuneration		3,92,420	3,92,420		3,29,025	3,29,025
	e) Professional Charges(Expert Expenses)			-			-
	f) Advertisement and Publicity		4,43,225	4,43,225		1,34,641	1,34,641
	g) Magazines & Journals		45,735	45,735		44,323	44,323
C.	h)1. Others (specify)As per Sub-Schedule 17C (n)	-	181,08,883	181,08,883	-	160,77,788	160,77,788
	Total	-	279,84,221	279,84,221	-	278,99,554	278,99,554
	2. Others (specify)As per Sub-Schedule 17C (n)(NER)	-	9,29,410	9,29,410	-	4,27,438	4,27,438
	Total	-	289,13,631	289,13,631	-	283,26,992	283,26,992



SUB-SCHEDULE 17C (h) Others							
Amount in Rupees							
1.	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
i)	Consultant Fees		6,53,969	6,53,969		7,80,838	7,80,838
ii)	Consultant Fees(BBSR)		2,05,807	2,05,807			-
iii)	Legal Expenses		6,200	6,200		25,930	25,930
iv)	Postage & Telegraph		1,58,124	1,58,124		1,39,013	1,39,013
v)	Telephone and Broadband		2,26,715	2,26,715		2,65,320	2,65,320
vi)	Contractual Staff		81,03,979	81,03,979		74,38,092	74,38,092
vii)	Staff Development		21,360	21,360		38,000	38,000
viii)	Internal Audit Fees		3,77,600	3,77,600		3,90,150	3,90,150
ix)	Security Guard		21,26,724	21,26,724		18,45,073	18,45,073
x)	Annual Event & Similar Expenses(sports)		85,705	85,705		67,854	67,854
xi)	Hostel Expenses		23,23,652	23,23,652		23,24,646	23,24,646
xii)	Misc. Working Expenses		16,45,283	16,45,283		7,15,795	7,15,795
xiii)	Misc. Working Expenses(BBSR)		32,925	32,925		3,499	
xiv)	Office Books		3,814	3,814		3,284	3,284
xv)	Consumable Materials		21,34,227	21,34,227		20,39,121	20,39,121
xvi)	Misc. Office Contingencies		2,799	2,799		1,173	1,173
	TOTAL:	-	181,08,883	181,08,883	-	160,77,788	160,77,788
2	NER EXPENSES						
xvii)	Consultant Fees(NER)		2,77,926	2,77,926		1,83,333	1,83,333
xviii)	telephone and Broadband(NER)			-			-
xix)	Contractual Staff(NER)		1,58,452	1,58,452		1,62,749	1,62,749
xx)	misc. working Expenses(NER)		4,93,032	4,93,032		36,356	36,356
xxi)	Electric Rent(NER)			-		45,000	45,000
	TOTAL:	-	9,29,410	9,29,410	-	4,27,438	4,27,438
	GRAND TOTAL (A+B):	-	190,38,293	190,38,293	-	165,05,226	165,05,226



SCHEDULE-18: TRANSPORTATION EXPENSES

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
1	Vehicles (owned by Institution)						
	a) Running Expenses						
	b) Repairs & Maintenance						
	c) Insurance Expenses						
2	Vehicles taken on rent/lease						
	a) Rent/lease expenses	-	6,31,035	6,31,035		8,06,043	8,06,043
3	Vehicle (Taxi) hiring expenses						
	Total:	-	6,31,035	6,31,035	-	8,06,043	8,06,043

SCHEDULE 19: REPAIRS & MAINTENANCE

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
a)	Building						
b)	Furniture & Fixtures						
c)	Plant & Machinery						
d)	Office Equipment						
e)	Computers						
f)	Laboratory & Scientific Equipment						
g)	Audio Visual Equipment						
h)	Cleaning Material & Services						
i)	Book Binding Charges						
j)	Gardening(Campus Development)			-		44,84,249	44,84,249
k)	Estate Maintenance(Operation & Maint.)		30,21,787	30,21,787	-	69,88,986	69,88,986
l)	Others (specify)						
	Total	-	30,21,787	30,21,787	-	114,73,235	114,73,235

Notes:

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss and sale of Investments, loss of Fixed Assets and loss on sale of Fixed Assets etc., and disclosed accordingly.



SCHEDULE 20: FINANCE COSTS

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
a)	Bank Charges		19,830			45,892	45,892
b)	Others (specify)						
	Total		19,830	19,830		45,892	45,892

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

SCHEDULE 21: OTHER EXPENSES

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
a)	Previous for Bad and Doubtful Debts/Advances						
b)	Irrecoverable Balance Written - off						
c)	Grants/Subsidies to other Institutions / Organizations						
d)	Others (specify)						
	Total		-	-	-	-	-

Notes: Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss and sale of Investments, loss of Fixed Assets and loss on sale of Fixed Assets etc., and disclosed accordingly.

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in Rupees

	Particulars	Current Year			Previous Year		
		OH-36	OH-31	Total	OH-36	OH-31	Total
1	Establishment Expenses						
2	Academic Expenses						
3	Administrative Expenses						
4	Transportation Expenses						
5	Repairs & Maintenance						
6	Others Expenses					-	-
	i) Pension Contribution	-	51,716	51,716	-		-
	ii) Course fee/others					8,000	
	iii) Library Books					(9,333)	
	Total	-	51,716	51,716	-	(1,333)	(1,333)



Annual Report: 2018-19

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2019

Amount in Rupees

RECEIPTS		Current year	Previous year	PAYMENTS		Current year	Previous year
I.	Opening balances			I.	Expenses		
	a) Cash Balance	-	21,287		a) Establishment Expenses	1860,60,960	1515,00,683
	b) Bank Balances				b) Academic Expenses	189,34,819	155,58,579
	i) In Current account		-		c) Administrative Expenses	289,88,252	336,63,933
	ii) In Savings account	29,31,073	(158,09,309)		d) Transportation Expenses	5,16,711	10,75,519
	iii) In deposit account				e) Repairs & Maintenance	29,00,802	56,26,706
					f) Prior period expenses	51,716	
II.	Grants Received			II.	Payments against Earmarked/ Endowment Funds	33,16,365	28,93,579
	a) From Government of India		2523,56,250				
	i) Grant-in-aid Capital(OH-35-Main)	256,15,000					
	ii) Grant-in-aid Capital(NER-OH-35)	-					
	iii) Grant-in-aid(OH-31)(Main)	691,25,000					
	vi) Grant-in-aid(OH-31)(NER)	-					
	v) Grant-in-aid(OH-36)(Main)	1047,50,000					
	vi) Grant Receivable (OH-31)	502,00,000					
	vii) Grant Receivable (OH-35-Capital)	650,00,000					
	viii) Grant Receivable(OH-36)	1633,75,000					
	b) From State Government						
	c) From other sources(details) (Grants for capital & revenue exp./ to be shown seperately if available)						
III.	Academic Receipts	62,02,625	62,80,600	III.	Payments against Sponsored Projects/Schemes		
IV.	Receipts against Earmarked/ Endowment Funds	29,17,346	14,38,200	IV.	Payments against Sponsored Fellowships/Scholarships		



Annual Report: 2018-19

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2019

Amount in Rupees

RECEIPTS		Current year	Previous year	PAYMENTS		Current year	Previous year
V.	Receipts against Sponsored Projects/Schemes			V.	Investments and Deposits made		
VI.	Receipts against sponsored Fellowships and Scholarships			a)	Out of Earmarked/Endowments funds		
VII.	Income on Investments from			b)	Out of own funds (Investments-Other)		
	a) Earmarked/Endowment funds			VI.	Term Deposits with Scheduled Banks	8131,91,829	3871,45,669
	b) Other investments						
				VII.	Expenditure on Fixed Assets and Capital Works-in-progress		
				a)	Fixed Assets	60,60,211	184,02,100
				b)	Capital Works-in-progress	461,00,340	295,94,420
VIII.	Interest received on			VIII.	Other Payments including Statutory payments	195,19,348	147,96,800
	a) Bank Deposits	159,35,909	302,85,926				
	b) Loans and Advances	90,120	53,967				
	c) Savings Bank Accounts	16,95,666	7,28,412	IX.	Refunds of Grants		
IX.	Investments encashed			X.	Deposits and Advances	192,84,908	106,87,178
X.	Term Deposits with Scheduled Banks encashed	5977,45,278	3671,78,193	XI.	Other Payments	221,52,206	310,14,624
XI.	Other Income(including peior period income)	26,23,283	13,90,923	XII.	Closing balances		
XII.	Deposits and Advances	120,79,499	143,28,064	a)	Cash in hand	-	-
XIII.	Miscellaneous Receipts including Statutory Receipts	417,29,741	371,30,206	b)	Bank balances		
XIV.	Any Other Receipts	10,92,277	95,08,144		In Current account	-	
					In Savings account	(39,70,650)	29,31,073
					In deposit account		
		11631,07,817	7048,90,863			11631,07,817	7048,90,863



PROVIDENT FUND ACCOUNT
BALANCE SHEET AS AT MARCH 31, 2019

Amount in Rupees

Amount 31/Mar/18	Liabilities	Amount 31/Mar/19	Amount 31/Mar/18	Assets	Amount 31/Mar/19
	GPF		894,90,902	Investment	959,47,306
759,50,774	Opening Balance	902,80,557	22,61,519	Int. accrued as on 31/03/19	26,19,077
-	Less: Subscription adjustment			Subscription Due for March, 2019	
145,16,274	Add: Subscription in the Year	142,40,900		GPF	
1,48,950	Add: Recovery of GPF Advance		5,27,400	GPF Advance	11,41,700
	Add: Sub for March 2018			CPF	
62,62,834	Add: Interest Credited	72,06,142		UC due to CPF	
65,98,275	Less: Advance/withdrawal	88,86,116		NPS-II	
902,80,557	Closing Balance	1028,41,483			
	CPF			Tax recovered from interest on Investments Pending refund from Income Tax Department	
	Opening Balance			Cash at Bank	
	Less: Sub. For March 2017		3,41,544	SBI, Branch-I	34,29,046
	Add: Subscription in the Year			SBI, Branch-II	
	Add: Sub. For March 2018			Cash in hand	
	Add: Interest Credited				
	Less: Advance/withdrawal				
	Closing Balance				
	University Contribution (CPF)				
	Opening Balance				
	Less: Contribution for March 2017				
	Add: Subscription in the Year				
	Add: Contribution for March 2018				
	Add: Interest Credited				
	Less: Advance/withdrawal				
	Closing Balance				
	NPS Tier-II Account				
	Opening Balance				
	Less: Sub. For March 2014				
	Add: Subscription in the Year				
	Add: Sub. For March 2015				
	Add: Interest Credited				
	Less: Advance/withdrawal				
	Closing Balance				
	Interest Reserve				
26,49,552	Opening Balance	21,74,421			
-	Add, subscription adjustment				
	Add, Excess of Income over Expenditure	-			
4,75,131	Less, Excess of Expenditure over Income	20,45,162			
21,74,421	Closing Balance	1,29,259			
1,66,387	Cheque Cancellation	1,66,387			
926,21,365	Total	1031,37,129	926,21,365	Total	1031,37,129



PROVIDENT FUND ACCOUNT
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2019

Amount in Rupees

Amount 31/Mar/18	Expenditure	Amount 31/Mar/19	Amount 31/Mar/18	Income	Amount 31/Mar/19
	Interest Credited to :				
62,62,834	GPF Account	72,06,142		Interest earned on Investment	
	CPF Account		57,18,762	Add: Interest accrued on 31/3/19	50,78,398
	University Contribution (CPF)		68,941	Add, Interest on savings account	81,067
	NPS Tier-II Account			Add: Interest on Subscription	1,515
		-			
	Excess of Income over Expenditure	-		Less: Interest accrued for March-19	
			4,75,131	Excess of Expenditure over Income	20,45,162
62,62,834	Total	72,06,142	62,62,834	Total	72,06,142

PROVIDENT FUND ACCOUNT
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2018-19

Amount in Rupees

Amount 31/Mar/18	Receipts	Amount 31/Mar/19	Amount 31/Mar/18	Payments	Amount 31/Mar/19
	Opening Balance as on 1/4/18		71,25,675	GPF Adv./Withdrawal	87,85,166
34,89,279	SBI, Branch-I	3,41,544		CPF Adv./Withdrawal	10,77,500
	SBI, Branch-II			NPS Tier-II	
145,16,274	GPF Subscription	142,40,900		University Contribution Withdrawal	
1,48,950	GPF Adv./Withdrawal	3,62,250			
	CPF Subscription			Bank Charges	
	CPF University Contribution		140,00,000	Investment during the year	75,00,000
	NPS Tier-II Account				
29,54,285	Investment Encashed	53,63,353	3,41,544		
3,58,431	Interest Received				
	Accrued intt. On investment	2,13,880			
	Intt. On investment SBI	1,84,744			
	Intt. On investment HUDCO	2,459		Closing Balance:-	
	Intt. On Savings Bank SBI	81,067		SBI, Branch-I	34,29,046
	Interest on Subscription	1,515		SBI, Branch-II	
214,67,219	Total	207,91,712	214,67,219	Total	207,91,712



SCHEDULES FORMING PART OF ACCOUNTS

SCHEDULE 23 – ACCOUNTING POLICIES

a	<i>The Basis of preparation of Accounts</i>	<p>1) The financial statements are prepared on the basis of historical cost convention, unless otherwise stated and on the accrual method of accounting.</p> <p>2) This Institute financed by the Govt. of India, Ministry of Human Resource Development receives grants and compiles the accounts with proper Schedules:</p> <ul style="list-style-type: none"> ➤ Balance Sheet ➤ Income and Expenditure Account ➤ Receipts and Payments Account. 																														
b	<i>Revenue Recognition</i>	Gratuity and Leave Encashment are accounted for on cash basis																														
c	<i>Accounting for income from and expenditure on specialized activities such as Research</i>	No income and expenditure on research.																														
d	<i>Conversion or translation of foreign currency (in case of organization receiving foreign funds/Incurring expenditure in Foreign Exchange on import).</i>	Earning In foreign currency – Nil																														
e	<p><i>Method(s) of depreciation</i></p> <p>Depreciation is provided on straight line basis as per rates specified by the Ministry of Human Resource Development, Department of Higher Education, New Delhi.</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Fixed Assets</th> <th style="text-align: right;">Rate of Depreciation</th> </tr> </thead> <tbody> <tr> <td>Residential Building</td> <td style="text-align: right;">2%</td> </tr> <tr> <td>Office Building</td> <td style="text-align: right;">2%</td> </tr> <tr> <td>Hostel Building</td> <td style="text-align: right;">2%</td> </tr> <tr> <td>Plant & Machinery</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Furniture & Fixtures</td> <td style="text-align: right;">7.5%</td> </tr> <tr> <td>Computer & Peripherals</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>Library Books and Scientific Journals</td> <td style="text-align: right;">10%</td> </tr> <tr> <td>Electric Installation and Equipment</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Audio visual Equipment</td> <td style="text-align: right;">7.5%</td> </tr> <tr> <td>Office Equipment</td> <td style="text-align: right;">7.5%</td> </tr> <tr> <td>Scientific and Laboratory Equipment</td> <td style="text-align: right;">8%</td> </tr> <tr> <td>Tube Wells and Water Supply</td> <td style="text-align: right;">2%</td> </tr> <tr> <td>Computer Software</td> <td style="text-align: right;">40%</td> </tr> <tr> <td>Office vehicles</td> <td style="text-align: right;">10%</td> </tr> </tbody> </table> <p>The corresponding amount of current depreciation is deemed as deferred income and deducted from current capital fund as per guidelines specified in AS-12 relating to Accounting Treatment of Government Grant.</p>		Fixed Assets	Rate of Depreciation	Residential Building	2%	Office Building	2%	Hostel Building	2%	Plant & Machinery	5%	Furniture & Fixtures	7.5%	Computer & Peripherals	20%	Library Books and Scientific Journals	10%	Electric Installation and Equipment	5%	Audio visual Equipment	7.5%	Office Equipment	7.5%	Scientific and Laboratory Equipment	8%	Tube Wells and Water Supply	2%	Computer Software	40%	Office vehicles	10%
Fixed Assets	Rate of Depreciation																															
Residential Building	2%																															
Office Building	2%																															
Hostel Building	2%																															
Plant & Machinery	5%																															
Furniture & Fixtures	7.5%																															
Computer & Peripherals	20%																															
Library Books and Scientific Journals	10%																															
Electric Installation and Equipment	5%																															
Audio visual Equipment	7.5%																															
Office Equipment	7.5%																															
Scientific and Laboratory Equipment	8%																															
Tube Wells and Water Supply	2%																															
Computer Software	40%																															
Office vehicles	10%																															



f	<i>Valuation of inventories</i>	No Inventory
g	<i>Valuation of investments</i>	<ul style="list-style-type: none"> ➤ Investments classified as “long term investments” are carried at cost. Provision for decline, other than temporary, is made in carrying cost of such investments. ➤ Investments classified as “current” are carried at lower of cost and fair value. Provision for shortfall on the value of such investments is made for each investment considered individually and not on a global basis. ➤ Cost includes acquisition expenses like brokerage, transfer stamps.
h	<i>Treatment of employee benefits</i>	<ul style="list-style-type: none"> ➤ Payment to employees are accounted for on accrual basis ➤ Gratuity and Leave Encashment benefits at retirement are paid on Death/Retirement of Employees on cash basis.
I	<i>Valuation of fixed assets</i>	Fixed Assets are stated at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition. In respect of projects involving construction, related pre-operational expenses, form part of the value of the assets capitalized.
j	<i>Treatment of Contingent liabilities</i>	Disclosed in Notes On Accounts.
k	<i>Expenditure during construction</i>	Accounted for as Work-in- progress which is Rs. 1428.56 Lacs as on 31.03.2019.
l	<i>Assets of small value</i>	Assets has been considered with value and life of asset.
m	<i>Accounting treatment of leasehold land</i>	Leasehold land appears in accounts at cost. The lease period is of 999 years.
n	<i>Accounting of Earmarked funds and Endowment Funds with a brief description of each fund.</i>	Disclosed in Schedule 2 of statement of accounts.
o	<i>Amortization of wasting assets</i>	No amortization of wasting assets.
p	<i>Accounting treatment of Plan/Non-plan Grants received from Govt.</i>	<ul style="list-style-type: none"> ➤ Government grants of the nature of contribution towards capital cost of setting up projects are treated as Capital Fund. ➤ Grants in respect of specific fixed assets acquired are shown as a deduction from the cost of the related assets. ➤ Government grants/subsidy are accounted on accrual basis.
q	<i>Accounting treatment of sponsored Projects/Schemes/Programmes (Receipts and expenditure) and income from such schemes (Overhead recoveries, institutional charges/project management fees etc.)</i>	Disclosed in Schedule 2 of statement of accounts
r	<i>Accounting treatment of Assets acquired out of sponsored project funds and earmarked Funds</i>	Capitalized as asset.
s	<i>Accounting treatment of Fellowships and Scholarships</i>	No such money is received.
t	<i>Classification and treatment of Deferred Revenue Expenditure</i>	Revenue Expenditure are accounted for the year.
u	<i>Treatment of Assets acquired by the Grantee institutions out of grants given to them by the institutions (if applicable).</i>	No such asset acquired.
v	<i>Taxation status</i>	In view of there being no taxable income under section 10(23iiiab) of Income Tax Act,1961, no provision for Income tax has been considered necessary.



SCHEDULES FORMING PART OF ACCOUNTS

SCHEDULE 24 – CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

A. CONTINGENT LIABILITIES		
1	<i>Claim against the Entity not acknowledge as debts</i>	Nil
2	<i>Guarantees and Letters of credit outstanding</i> <ul style="list-style-type: none"> ➤ Bank guarantees given by/on behalf of the Institute ➤ Letters of Credit opened by Bank on behalf of the Institute ➤ Bills discounted with banks - 	Rs.18,96,440/- NIL NIL
3	<i>Other items for which the entity is contingently liable</i>	NIL
B. NOTES ON ACCOUNTS		
1	<i>Commitments on capital Account not provided for</i>	Rs. 667.23 Lacs
2a	<i>Educational institutions should host following information in public domain so as to enable all other stakeholders to have a bird's eye view of educational institution's capacity and capability:</i> <ul style="list-style-type: none"> i. <i>No. of students: STTP-14,315, M.Tech - 82 (1ST and 2ND year)</i> ii. <i>Number of teachers: 33 and Director</i> iii. <i>Collection on account of building fund and expenditure thereof: Nil</i> iv. <i>Collection for sports activities and expenditure thereof: Nil</i> v. <i>Collection for co-curricular activities and expenditure thereof: Nil</i> vi. <i>Collection on account of development charges and expenditure thereon: Nil</i> vii. <i>Collection for medical expenses and expenditure thereon: Nil</i> viii. <i>Compliance with statutory dues like EPF and ESI: Complied with.</i> ix. <i>Salary structure of teachers : As per UGC guidelines</i> 	
2b	<i>Number of Library Books in hand as on 31.03.2019 (previous year 23,782)</i>	24,214
2c	<i>An amount of Rs. 10.00 lakh was transferred by the State Bank of India from our Bank Account (OBC) to the CPWD Kolkata Division-III which has not yet been confirmed by the recipient.</i>	
3	<i>Related Party Disclosures</i> <ul style="list-style-type: none"> i. <i>As per Accounting standard (AS) 18, Related Party Disclosures, issued by the Institute of Chartered Accountants of India.:</i> ii. <i>The transaction between the educational institution and the trust or society managing the educational institution.</i> iii. <i>Transaction between the educational institution and the trustees or the members of the governing body of the educational Institution</i> iv. <i>Transaction between the educational institution with another educational institution or any other educational entity managed by the same trust or society, if permitted by the relevant legislation/bye-laws etc.</i> v. <i>Transaction between the educational institution and the relatives of the trustees, or members of the governing body managing the educational institution or the author of the trust or the founder of the institution. For this purpose, a relative, in the context of an individual, means "the spouse, son, daughter, brother and other who may be expected to influence, or influenced by, that individual in his/her dealing with the educational institution".</i> vi. <i>Transaction between the educational institution and its 'key management personnel' or the relatives of the management personnel. Key management personnel would represent those persons in the educational institution who have the authority and responsibility for planning, directing and controlling the activities of the educational institution, an example of key management personnel is the principal/Vice Chancellor.</i> 	Nil Nil Nil



सत्यमेव जयते

दीपक नारायण
Deepak Narain

CONFIDENTIAL

महानिदेशक लेखापरीक्षा, केन्द्रीय, कोलकाता
गवर्नमेंट ऑफ़ इण्डिया प्रेस बिल्डिंग (इस्ट विंग), प्रथम तल
8, किरण शंकर रॉय रोड, कोलकाता-700 001

Director General of Audit, Central, Kolkata
Government of India Press Building (East Wing), 1st Floor
8, Kiran Sankar Roy Road, Kolkata-700 001

D.O No. OAI (AB)/AR/2018-19/NITTTR/229
Date: 24.04.2020

Dear Prof. Gupta,

I have audited the annual accounts of the National Institute of Technical Teachers' Training and Research, Kolkata, for the financial year 2018-19, and have issued the Audit Report thereon, vide letter dated During the course of audit, the following deficiency was noticed, but was not included in the Audit Report. This is, however, brought to your notice, for corrective and remedial action:

- i. "As prescribed in the MHRD format of accounts, the amount of caution money refundable to students, during 12 months from the Balance Sheet date, should be shown separately for current students and ex-students. The Institute did not, however, disclose the details of the caution money, although this is prescribed in the format of accounts."
- ii. The heads 'Current Liabilities and Provisions' and 'Fixed Assets' were understated by ₹ 0.13 crore each, as the Institute had not booked liability for payment to the CPWD.

with regards,

Yours sincerely,

Deepak Narain

Prof. Phalguni Gupta,
Director,
National Institute of Technical Teachers' Training and Research,
Block FC, Sector III, Salt Lake,
Kolkata-700106.



Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of the National Institute of Technical Teachers' Training and Research, Kolkata, for the year ended 31 March 2019

We have audited the attached Balance Sheet of the National Institute of Technical Teachers' Training and Research, Kolkata, as at 31 March 2019, the Income and Expenditure Account and Receipts and Payments Account, for the year ended on that date, under Section 20(1) of the Comptroller and Auditor General's (Duties, Power and Conditions of Service) Act, 1971. The audit has been entrusted for the period up to the financial year 2022-23. These financial statements include the accounts of two Extension Centres of the Institute. 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, in regard to compliance with the Law, Rules and Regulations (Propriety and Regularity) and efficiency-cum-performance aspects etc, if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and



significant estimates made by the management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:
 - i. We have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purpose of our audit;
 - ii. The Balance Sheet and Income and Expenditure Account/Receipts and Payments Account, dealt with in this report, have been drawn up in the format prescribed by the Ministry of Human Resource Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015.
 - iii. In our opinion, proper books of accounts and other relevant records have been maintained by the National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata, as required under the rules and regulations of the Institute, insofar as it appears from our examination of books.
 - iv. We further report that:

Comments on Accounts

A. Balance Sheet

1.1 Assets

1.1.1 Loans, Advances & Deposits (Schedule -8) ₹5.20 crore

- a) The above head was understated by ₹4.20 lakh, due to non-consideration of prepaid expenses on maintenance charges, for the period from April 2019 to July 2020. This further resulted in understatement of the 'Capital Fund' by the same amount. Despite this having been highlighted in the previous years' Audit Report as well, the Institute had not taken any corrective action in this regard.



₹14.96 lakh towards liabilities for payment of time-barred cheques pending for more than five years. The Institute may review the cases for taking appropriate action.

3.2 Although the Institute had made provision of ₹ 33.57 lakh for various expenses in the financial year 2016-17, it had not taken any action to settle these provisions.

3.3 Despite mention in previous years' Audit Report, in violation of Accounting Standards-5, the impact on annual accounts was not disclosed in the notes on accounts, even though the method of depreciation had been changed from the written down value method, to the straight line method, since the financial year 2014-15.

3.4 Despite mention in the previous years' Audit Report, no provisions for retirement benefits such as gratuity, pension and leave encashment were made on actuarial valuation basis, in contravention of Accounting Standard-15.

3.5 'Current Liabilities & Provisions' included ₹7.35 lakh, payable by the Institute to the PWD, although the actual liability was only ₹ 2.46 lakh. This discrepancy may be reconciled.

3.6 The MHRD format of Accounts stipulates that recovered electricity charges need to be disclosed under the head 'Other Income' in Schedule-13. The Institute, in violation of the provision, had shown the adjusted figure of ₹73.35 lakh towards electricity charges paid, without considering the recovery of electric charges, amounting to ₹3.05 lakh, from its staff, as Income. This resulted in understatement of the above mentioned head. Consequently, there was understatement of Excess of Income over Expenditure by ₹3.05 lakh.



D. Grants-in-Aid

The Institute is mainly financed by grants from the Government of India. At the end of the financial year 2017-18, the Institute had an unspent balance of ₹40.78 crore, including NER grants of ₹8.52 crore. During the financial year 2018-19, it received grants of ₹20.70 crore (Creation of Capital Assets: ₹3.00 crore, General: ₹6.95 crore and Salaries: ₹10.75 crore) and earned interest of ₹3.93 crore. Out of the total available grants of ₹ 65.41 crore (including the unspent balance of the financial year 2017-18), it utilized grants of ₹ 29.09 crore (Creation of Capital Assets: ₹5.13 crore, General: ₹11.56 crore, Salaries: ₹11.51 crore and NER: ₹0.89 crore), leaving an unspent balance of ₹36.32 crore.

E. Net Effect

The net impact of the comments given in the preceding paragraphs is that the Liabilities and Assets of the Institute were understated by ₹4.20 lakh, as at 31 March 2019, and the Excess of Income over Expenditure was overstated by ₹4.28 lakh for the year ended 31 March 2019.

F. Management Letter

Deficiencies not included in the Audit Report have been brought to the notice of the Director, NITTTR, Kolkata, through a management letter, issued separately, for remedial/corrective action.

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure Account and Receipts and Payments Account, dealt with in 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 the accounting principles generally accepted in India:

- a. insofar as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technical Teachers' Training and Research, Kolkata, as at 31 March 2019, and
- b. insofar as it relates to Income and Expenditure Account of the surplus, for the year ended on that date.

For and on behalf of the C&AG of India

**Place:-Kolkata
Date:- 24.04.2020**

Deepak Narain
**(Deepak Narain)
Director General of Audit
Central :: Kolkata**



Annexure

A. Adequacy of Internal Audit System

The Internal Audit System is inadequate, as there was no internal audit wing / sanctioned post for Internal Auditor in the Institute. Internal Audit was, however, conducted by engaging a Chartered Accounts Firm.

B. Adequacy of Internal Control System

The Internal Control System is inadequate in the following areas:

- i. Security Deposits/Fidelity Guarantees were not obtained in respect of employees handling valuables, such as cash and stocks.
- ii. Cheque Protectors were not being used.
- iii. All suppliers' invoices were not being routed through the accounts department.
- iv. The heads of account were not coded.
- v. The bank reconciliation statement is drawn by same person, who is also in charge of cash receipts and disbursement.

C. System of Physical Verification of Fixed Assets

The Institute has conducted physical verification of its Fixed Assets during the financial year 2018-19.

D. Regularity in payment of Statutory Dues:

The Institute was regular in payment of its Statutory Dues.



Joining

Annual Report: 2018-19



Shri Subir Basak
Senior Administrative Officer

Retirement



Dr. Sekhar Chakraborty
Professor

Dr. Sekhar Chakraborty joined the Institute on 06/06/1996. He has retired from the Institute as Professor on 31/10/2018.



Shri Nirmal Kumar Sarkar
MTS

Shri Nirmal Kumar Sarkar joined the Institute on 06/02/1990. He has retired from the service as MTS on 31/03/2019.

Obituary



30/04/1995
27/07/2018

Shri Arunava Gangulee joined the Institute on 28/04/1980. He was retired on superannuation from the service as LDC on 28/02/2002.



Contact

NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH, KOLKATA

Block- FC, Sector III, Salt Lake City, Kolkata 700 106

Phone: +91-33-66251900, Email: director@nitttrkol.ac.in

Visit us at www.nitttrkol.ac.in

How to Reach NITTTR, Kolkata

The Institute is located near Labony Bus Stand (Sector-III), FC Block in Salt Lake City, Kolkata 700106 and can be reached by taxi from Netaji Subhas Chandra Bose International Airport and also from Howrah, Shalimar, Sealdah and Kolkata Railway Stations.



Distance:

- From Howrah Railway Station: **42 min** (8.1 km) via Maniktala Main Road
- From Sealdah Station: **26 min** (7.4 km) via Beliaghata Main Road and Broadway Road
- From Kolkata Railway Station: **16 min** (4.8 km) via Canal Circular Road
- From Shalimar Station: **38 min** (18.8 km) via Parama Island Flyover
- From Netaji Subhas Chandra Bose International Airport: **27 min** (11.5 km) via Kazi Nazrul Islam Sarani/VIP Road

Google map link: <https://goo.gl/maps/WPQ3pbaPjpQ2>