

# Annual Report & Audited Accounts 2014-15



**NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR**



## Vision

*The institute aims to provide the best infrastructure and amenities to the students. The institute envisions being one of the best technical institutions in South-East Asia. The institute aims to attract students from the neighbouring south-east Asian countries in view of the Look-East Policy of the Government of India. The institute strongly believes that the success of an institute lies in the faculty and will leave no stone unturned to attract the best faculty available in the country.*

## Mission

*The institute being accorded the status of 'An Institute of National Importance' aspires to be a knowledge hub for the region. The institute through its academic and research activities would act as an incubation centre for aspiring 'Technopreneurs'. The institute provides an ideal platform for national integration through educational integration as half the students are from outside the state. It envisions being an institute producing human resource of world class standard who will contribute significantly to the well being of mankind.*

## Objectives

- *To nurture and develop talented young minds, encouraging creativity with academic excellence.*
- *To provide a platform to young entrepreneurs and technocrats to experiment their dreams and aspirations.*
- *To encourage faculty and students to conduct research of international standard.*
- *To produce students fulfilling the employability criteria of MNCs.*
- *To set up Laboratories with latest equipments and other facilities.*
- *To set up international standard infrastructure for extra curriculum activities.*

## Foreword

*It is deemed an honour for me to present before you the 5th Annual Report along with the Annual Accounts and the Audited Report of the National Institute of Technology Manipur, Imphal, Manipur for the year 2014-15.*

*NIT Manipur is one of the 10 new NITs set up by the Central Government in 2010 during the 11<sup>th</sup> Five Year Plan in the State/UTs which are not having NITs. Initially, the Institute offered only three B.Tech programmes in EEE, ECE and CSE streams.*

*NIT Manipur has introduced several new programmes during 2014-15. B.Tech programmes in Civil Engineering and Mechanical Engineering were introduced from the academic session 2013-14. In addition PhD programme in CSE, EEE, ECE, CE, Physics, Chemistry, Mathematics and English were also introduced. The institute has started shifting to the permanent campus. A boys hostel and Department of Basic sciences and humanities, Civil Engineering and*



*Mechanical Engineering have also started functioning in the permanent campus from the academic session 2014-15. The construction of a multipurpose buildings and Boys Hostel at permanent site was entrusted to CPWD, under an MOU signed between CPWD and NIT Manipur. New streams of PG Courses will also be gradually added. Several regular faculty members and non-faculty members have also been recruited during 2014-15. All efforts are being made to fill all vacant positions at the earliest. The placement for the first two batches have been very encouraging. The institute has also setup Center of Excellence in collaboration with HP India and Powai labs, Mumbai for imparting industry standard training to the students.*

*In addition to the academic activities, the students have been actively involved in organising several cultural, technical and sports activities. The Annual Report highlights the various activities and the present status of the Institute.*

*I would like to take this opportunity to express my sincere appreciation to all stakeholders of the Institute who has contributed in every possible way to make NIT Manipur an Institute of repute.*

**Dr. S. Birendra Singh**  
**Director, NIT Manipur**

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## 1. INTRODUCTION

### *1.1. Mission*

The institute being accorded the status of ‘*An Institute of National Importance*’ aspires to be a knowledge hub for the region. The institute through its academic and research activities would act as an incubation centre for aspiring ‘Technopreneurs’. The institute provides an ideal platform for national integration through emotional integration as half the students are from outside the state. It envisions being an institute producing human resource of world class standard who will contribute significantly in the wellbeing of mankind.

### *1.2 Vision*

The institute aims to provide the best infrastructure and amenities to the students. The institute envisions being one of the best technical institutions in South-East Asia. The institute aims to attract students from the neighbouring south-east Asian countries in view of the Look-East Policy of the Government of India. The institute strongly believes that the success of an institute lies in the faculty and will leave no stone unturned to attract the best faculty available in the country.

### *1.3. Objectives*

- To nurture and develop talented young minds, encouraging creativity with academic excellence.
- To provide a platform to young entrepreneurs and technocrats to experiment their dreams and aspirations.
- To encourage faculty and students to conduct research of international standard.
- To produce students of industry standard.
- To set up Laboratories with latest equipments and other facilities.
- To set up international standard infrastructure for extra curriculum activities.

### ***1.4 The System***

The Institute offers four years full time Bachelor of Technology degree courses in Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Civil Engineering and Mechanical Engineering. The academic session is divided into two semesters, July-Dec and Jan-May. Five days week period with at least 90 working days in each semester.

## **2.0 AN OVERVIEW**

### ***2.1 Profile***

National Institute of Technology, Manipur has been set up by the Ministry of Human Resource Development, Govt. of India to cater to the needs of the thousands of students from the North East and outside in the field of Technical Education. With the support from the Govt. of Manipur, NIT Manipur started its first session on 2nd August, 2010 in Government Polytechnic, Takyel Campus. The National Institute of Technology Act, 2007, ammended in 2012 declared 20 existing and 10 new NITs as Institutes of National Importance. The National Institute of Technology Manipur was one of the new NITs established. The institute is governed by the NIT Act 2007 and its statutes, and under the overall guidance of the Board of Governors and the Hon'ble President of India functions as the Visitor of the Institute.

In status it is regarded equivalent to a Central University. Half of students admitted to NITs are reserved for the students from the state where they are located and the other 50% is taken from the rest of the country through Central Seat Allocation Board on the basis of their JEE (Main) ranking and marks obtained in Class XII Board examination.

### ***2.2 Temporary Campus***

The temporary campus is located at Government Polytechnic Campus, Takyel, Imphal. The campus has two boys hostels, one girls hostel and a multi storey academic block. The campus is hardly 4 km from the main market. The institute shares the existing facility of playgrounds, indoor stadium, basket ball court etc with Government Polytechnic College.

## ***2.3 Permanent Campus***

The first boys hostel with a capacity of 150 was inaugurated on 21st Feb 2014 by the hon'ble Chief Minister of Manipur. The campus is located at the foot hills of the picturesque Langol hills at Lamphelpat in the outskirts of Imphal measuring an area of 341 acres. The campus is around 4 km from the main market of Imphal.



The Imphal Tuliha International Airport is located at a distance of 7 km from the campus. It is just 15 minutes drive from the campus and is well connected by multiple daily flights with Delhi, Kolkata and Guwahati. Imphal can be reached through National Highways no.2 and 37. The nearest railway station is Dimapur in Nagaland. Imphal can also be reached through Silchar Railway Station in Assam and Jiribam in Manipur. It takes around 8 hrs by bus from Dimapur to reach Imphal. The academic block including library in the permanent campus will be fully functional by January 2015. The Administrative block will also be ready by April 2015.

## **2.4 Administration**

National Institute of Technology is an autonomous Institute under the Ministry of Human Resource Development (MHRD), Govt. of India. The Institute functions under the overall guidance of the Board of Governors. The other statutory bodies are the Finance Committee, Building and Works Committee and the Senate. The Director is the principal academic and executive officer of the Institute.



### **Administrative Staff:**

Sl. No.	Employee Name	Designation	Date of Joining
1	Dr. S. Birendra Singh	Director	08/04/2013
2	R.K. Lalit Singh	Registrar	29/08/2013
3	L. Dorendro Singh	Assistant Registrar	17/02/2012
4	Th. Robita Devi	Stenographer	17/10/2014
5	Dr. I. Bidhanchandra	Assistant Registrar	15/02/2012
6	M. Biren Singh	Account Officer	05/08/2013

7	H. Somorendro Singh	Accountant	21/07/2010
8	Suchitra Wangkhem	Superintendent	01/06/2012
9	L. Somokanta	Superintendent i/c Academic	14/10/2011
10	L. Jenifer	Junior Assistant	21/07/2010
11	Kh. Narmada Devi	Junior Assistant	18/08/2010
12	Ng. Binoi Singh	Junior Assistant	08/04/2013
13	H. Monorama Devi	Account Assistant	10/02/2014
14	Fanny Khangembam	Office Assistant	10/02/2014
15	N. Nabakumar Singh	Electrician	13/12/2013
16	G. Ranita Devi	Store Keeper	31/05/2013
17	Kh. Saikya Singh	System Analyst	03/08/2011

### ***2.5 Academic Programmes***

The Institute at present offers Undergraduate programmes. Postgraduate programmes and PhD programmes. The Institute offers four years full time Bachelor of Technology degree courses in Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Civil Engineering and Mechanical Engineering. M.Tech programmes are also offered in CSE, EEE and ECE. In addition the institute offers M.Sc programme in Physics, Chemistry and Mathematics. The academic session is divided into two semesters, July-Dec and Jan-May. Five days a week working with at least 90 working days in each semester.

### ***2.6 Admission Procedure***

All admissions to National Institute of Technology Manipur are through Joint Entrance Examination (JEE) Main. Candidates interested in seeking admission in any NITs have to appear in JEE (Main) conducted by Central Board of Secondary

Education (CBSE) on behalf of Government of India and fulfill all formalities of the CBSE. Counseling centres are set up throughout the country so that every aspirant is provided equal opportunity. The counseling takes place in a very transparent system. The Government of India has fixed 50% quota of seats for Manipur and 50% quota for other states based on their JEE (Main) ranks, normalized by taking into account marks obtained in the Class XII Board examination.

## ***2.7 Examination***

The Under graduate examinations of the Institute are conducted centrally by the Examination Cell of the Institute. Students are continuously evaluated through a continuous grading process. The academic performance of a student is assessed in terms of two indices viz; the Semester Grade Point Average (SGPA) for a semester and Cumulative Grade Point Average (CGPA) which is the Grade Point index for all the completed semesters at any point of time.

## ***2.8 Training and Placement***

The Institute's Training and Placement Cell (T&P Cell) handles all issues related to students internship and final placements. The T&P Cell regularly organized industrial tour for the students thereby providing an opportunity to relate classroom teachings with reality. Workshops are also organized on regular basis thereby providing an interface between academic and industry.

## ***2.9 Academic Calendar***

The Academic Calendar prepared by the Institute and approved by the BOG is notified for the students and staff. The Academic Calendar reflects the various activities that are conducted in the Institute in an academic year

***The Academic Calendar for the session 2013-2014 is as follows***

**ACADEMIC CALENDAR, 2013-14**

ODD SEMESTER-2013		
SL. NO.	EVENTS	DATE
1.	Registration for odd Semesters (3 <sup>rd</sup> , 5 <sup>th</sup> & 7 <sup>th</sup> )	10-12 July, 2013
2.	Commencement of Odd Semester classes ( excluding 1 <sup>st</sup> semester, 2013 UG	15 <sup>th</sup> July, 2013
3.	Registration of 1 <sup>st</sup> semester UG	As per JEE guidelines
4.	1 <sup>st</sup> class test to be completed within	12-16 August, 2013
5.	2 <sup>nd</sup> class test to be completed within	9-13 September, 2013
6.	Mid-Term examination (Odd Semester 2013)	23-30 September, 2013
7.	To show answer scripts of Mid-term examinations of Odd semester to students	7 <sup>th</sup> October, 2013
8.	3 <sup>rd</sup> class test to be completed within	28-31 October, 2013
9	Last date of completing practical examinations by the Departments	12 <sup>th</sup> November, 2013
10	End Term Examination (theory)	15-25 November, 2013
11	Last date of submission of grades by HOD to Examination-in-charge	28 <sup>th</sup> November, 2013
12	Declaration of result	3 <sup>rd</sup> December 2013
13	Winter Vacation (for students)	26 Nov. - 23 Dec.2013
14	Winter Vacation ( for teaching faculties)	4-20 Dec. 2013
EVEN SEMESTER 2014		
SL. NO.	EVENTS	DATE
1	Registration for Even Semester	23-27 Dec. 2013
2	Commencement of Even Semester classes	30 <sup>th</sup> Dec. 2013

3	Assignment I	20 January 2014
4	First Project Progress Review of BTech VIII Semester	24 January
5	Unit Test I	27-29 January 2014
6	Game & Sport	30-Jan-2014 – 01-Feb-2014
7	Assignment II	24 February 2014
8	Unit test II	03 March 2014 -05 March 2014
9	Second Project Progress Review of BTech VIII Semester	07 March
10	Mid Semester Examination (MSE)	10 March 2014 – 14 March 2014
11	Cultural & Technical Festival (Ougri)	17 March 2014 – 20 March 2014
12	Result of MSE	21 March 2014

### **2.10 Students**

The Institute attracts students from various parts of the country giving it a national character. The Institute encourages students to actively take part in all cultural programmes so that students get an exposure of the culture and tradition of other parts of the country.

### **2.11 Games & Sports**

The Institute is keen to provide opportunities to the students for their all round development. Though located in the temporary campus, the Institute is able to provide the following sports infrastructure:

- (i) Football Ground
- (ii) Volley ball Court
- (iii) Basket Ball Court
- (iv) Badminton Court
- (v) Table Tennis and other indoor games

The Institute also organizes Annual Sports Meet in a grand way. The sports meet is a multi-sporting events where both boys and girls are provided an opportunity to test their mettle in sports.

**2.12 Staff Position**

<b>No of Faculty Post Sanctioned</b>		<b>Sanctioned Post of NIT Manipur as on 01-03-2014</b>						
<b>Sl. No.</b>	<b>Post</b>	<b>Year 2010</b>	<b>Year 2011</b>	<b>Year 2012</b>	<b>Year 2013</b>	<b>Total</b>	<b>Filled Position</b>	<b>Vacant Position</b>
1	Professor	1	1	1	2	5	0	5
2	Associate Professor	2	2	2	5	11	0	11
3	Assistant Professor	4	5	4	9	22	12	10
	<b>Total</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>16</b>	<b>38</b>	<b>12</b>	<b>26</b>
	<b>No. of Non-Faculty post sanctioned</b>							
<b>Sl. No.</b>	<b>Post</b>	<b>Year 2010</b>	<b>Year 2011</b>	<b>Year 2012</b>	<b>Year 2013</b>	<b>Total</b>	<b>Filled Position</b>	
1	Registrar	1	0	0	0	1	1	0
2	Asst. Registrar	1	0	0	0	1	1	0
3	Deputy Librarian/Asst.Librarian	0	1	0	0	1	0	1
4	Nurse	0	1	0	0	1	0	1
5	Sports Officer	0	1	0	0	1	0	1
6	Executive Engineer	0	1	0	0	1	0	1
7	Technical Assistant	1	1	0	0	2	0	2
8	Technical Assistant (System)	0	1	0	0	1	0	1
9	Technical Assistant/Junior Engineer	0	0	1	2	3	0	3
10	Superintendent/	1	0	1	0	2	0	2

	Accountant							
11	Stenographer	1	0	0	0	1	1	0
12	Junior Assistant	2	0	2	1	5	0	5
13	Technician	2	2	0	0	4	0	4
14	Technician/Laboratory Assistant/ Lab Work Assistant	0	0	1	2	3	1	2
15	Multitasking Staff	0	0	2	1	3	0	3
	<b>Total</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>30</b>	<b>4</b>	<b>26</b>

### 3.0 ACADEMIC STATISTICS

#### 3.1 Courses Offered

(i) A four year B.tech programme in the following branches of Engineering and Technology was offered during the period:

Computer Science & Engineering  
 Electrical & Electronics Engineering  
 Electrical & Communication Engineering  
 Civil Engineering  
 Mechanical Engineering

(ii) In addition PhD programme in English, Chemistry, Physics, Mathematics, CSE, ECE was also offered.

#### 3.2 Admission Details

##### **B.Tech**

Year/Batch	Seat available	Actual admitted					Vacant Seat
		ST	SC	OBC	OP	Total	
2010-11	90	5	10	34	28	77	13
2011-12	90	7	16	35	24	82	8
2012-13	90	6	11	17	38	72	18
2013-14	150	16	20	48	31	115	35

Reservation: 15% for SC; 7.5% for ST; 27% for OBC

**3.3 Category-wise Strength:**

**B.Tech**

Sl. No.	Batch	General	OBC	SC	ST	Total
1	2011-12	21	29	16	6	72
2	2012-13	27	21	14	6	68
3	2013-14	32	50	20	16	118
4	2014-15	38	67	30	12	147
<b>Grand Total</b>		<b>118</b>	<b>167</b>	<b>80</b>	<b>40</b>	<b>405</b>

**3.4 Branch-wise Strength:**

**B.Tech**

Sl. No.	Batch	CSE	EEE	ECE	ME	CE	Total
1	2011-12	23	27	22	0	0	72
2	2012-13	21	22	25	0	0	68
3	2013-14	25	19	18	29	27	118
4	2014-15	46	22	24	25	30	147
<b>Grand Total</b>		<b>115</b>	<b>90</b>	<b>89</b>	<b>54</b>	<b>57</b>	<b>405</b>

**3.5 Gender-wise Strength:**

**B.Tech**

Sl. No.	Batch	Male	Female	Total
1	2011-12	61	11	72
2	2012-13	63	5	68
3	2013-14	102	16	118
4	2014-15	131	16	147
<b>Grand Total</b>		<b>357</b>	<b>48</b>	<b>405</b>

**3.6 M.Tech Students Details:**

Sl.No	Batch	CSE	ECE	EEE	CE	Total
1	2014-15	15	14	13	0	42

**3.7 M.Sc. Students Details:**

Sl.No	Batch	Physics	Chemistry	Mathematics	Total
1	2014-15	13	13	10	36

**CSE, NIT MANIPUR ANNUAL REPORT, (2014-2015)****1. Academic Department:**

- (a) Name of the Department : Computer Science and Engineering  
 (b) Year of establishment : 2010  
 (c) Phone No. (Deptt. / Office) : 09774137312, 09856753856  
 (d) E – mail address : [hodcse@nitmanipur.ac.in](mailto:hodcse@nitmanipur.ac.in),  
[thongam@gmail.com](mailto:thongam@gmail.com)

**2. Brief Introduction of the Department:**

Department of Computer Science and Engineering offers 4 years B.Tech programme with annual intake of 60. It had already graduated 2 batches of B.Tech programme. Other than B.Tech programme the department offers 2 years M.Tech programme in Computer Science and Engineering with annual intake of around 15 and 9 research scholars are currently pursuing Doctoral Programme in Computer Science and Engineering. The departmental research is focused in the areas of Image Processing and Computer Vision, Information Security (Cryptography, Watermarking, Steganography, Cyber Security), Artificial Intelligence & Robotics, Pattern Recognition. The department has state of the art laboratory and research facilities. The department attracts various talented students from all parts of the country. Placements for our graduates are the best sought in the Institute.

*Most of the Alumni are pursuing successful career in the industry and some have opted for higher studies. For further development of the department our alumni remain in constant touch with us and are contributing actively. The department has 11 experienced and sincere faculty members and 5 non faculty members.*



### 3. Highlight of research activities:

Image Processing, Cryptography, Watermarking, Steganography, Artificial Intelligence, Machine Learning, Intelligent System Design, soft Computing, Networking, Network Security, Pattern Recognition, Speech Processing.

### 4. Faculty Details:

Sl.No.	Name of Faculty	Designation	Degree & University/Institute	Subject Specialization
1.	Khumanthem Manglem Singh	Associate Professor	<b>B.Tech-</b> DEI, Agra <b>M.E.-</b> DU <b>M.S.-</b> BITS <b>Ph.D-</b> IIT Guwahati	Image Processing, Digital Watermarking, Cryptography, Steganography
2.	Khelchandra Thongam	Assistant Professor	<b>B.Tech-</b> CSE, NERIST <b>M.Tech-</b> CSE, University of Aizu, Japan <b>Ph.D-</b> CSE, University of Aizu, Japan (Thesis Submitted)	Intelligent System Design, soft Computing, Hybrid Intelligent System
3.	Prakash Choudhary	Assistant Professor	<b>B.Tech-</b> IT, Rajasthan University <b>M.Tech-</b> CSE, NIT Nagpur <b>Ph.D-</b> CSE, NIT Jaipur	Image Processing, Pattern Recognition, Computer Vision
4.	Jina Yambem	Assistant Professor	<b>B.Tech-</b> IT, Anna University, Chennai <b>M.Tech-</b> IT, Vellore	Image Processing, Steganography

			Institute of Technology University <b>Ph. D-</b> CSE, NERIST University	
5.	Khundrakpam Johnson Singh	Assistant Professor	<b>B.E.-</b> CSE, KBNCE, Karnataka <b>M.Tech-</b> CSE, Dayananda Sagar College of Engineering, Bangalore <b>PhD-</b> CSE, NIT Durgapur (Pursuing)	Network Security
6.	<u>Chingakham Neeta Devi</u>	Assistant Professor	<b>B.E.-</b> CSE, Manipur University <b>M.Tech-</b> CSE, Visvesvaraya Technological University	Parallel Computing, Image Processing
7.	<u>Anuradha Laishram</u>	Teaching Assistant	<b>B.E.-</b> CSE, VTU, Belgaum, Karnataka <b>M.E.-</b> CSE, Bangalore University	Network Security
8.	<u>Sanabam Bineswor Singh</u>	Teaching Assistant	<b>B.Tech-</b> IT, Anna University, Coimbatore Karnataka <b>M.Tech-</b> CSE, SRM University, Kattankulathur, Chennai University	Networking
9.	<u>Maibam Mangalleibi Chanu</u>	Teaching Assistant	<b>B.E.-</b> CSE, Anna University, Chennai <b>M.E.-</b> CSE, Anna University, Chennai	Networking
10.	<u>Khumanthem Jayanta Singh</u>	Teaching Assistant	<b>B.E.-</b> VTU <b>M.Tech-</b> Manipal Institute of Technology, Manipal University	Information Security
11.	<u>Teressa Longjam</u>	Teaching Assistant	<b>B.E.-</b> CSE, Manipur University <b>M.Tech-</b> CSE, Rajasthan Technical University	Networking, NLP

**5. Staff Details:**

Sl.No.	Name of Staff	Designation	Date of joining	Degree & University/Institute	Subject Specialisation
1.	Ksh Merina Devi	Technical Assistant	3 <sup>rd</sup> August 2011	<b>B.E.-</b> CSE, North Maharashtra University, Jalgaon <b>M.S.-</b> CSE, BITS Pilani	Information Security, Graph theory
2.	<u>Ngangbam Herojit Singh</u>	Technical Assistant	16 <sup>th</sup> September 2013	<b>B.E.-</b> Anna University, Chennai <b>M.Tech-</b> CSE, Anna University Chennai	Networking
3.	<u>Nirvana Thokchom</u>	Technical Assistant	9 <sup>th</sup> October 2013	<b>B.Tech-</b> CSE, Sikkim Manipal Institute of Technology, Sikkim Manipal University	Data Mining
4.	<u>Sanasam Renubala Devi</u>	Technical Assistant	1 <sup>st</sup> September, 2014	<b>B.E.-</b> CSE, MANIPUR UNIVERSITY	Data Compression

**6. Publications:**

**Conferences**

1. L. Dolendro Singh and Kh. Manglem Singh, Implementation of Text Encryption using Elliptic Curve Cryptography, Elsevier Procedia Computer Science- IMCIP, vol. 54, pp. 73-82, 2015
2. L. Dolendro Singh and Kh. Manglem Singh, Image Encryption using Elliptic Curve Cryptography, Elsevier Procedia Computer Science- IMCIP, vol. 54, pp. 472--481, 2015
3. N. Dhanachandra Singh, Kh. Manglem Singh and Y. Jina Chanu, Image Segmentation using K-means Clustering Algorithm and Subtractive Clustering Algorithm, Elsevier Procedia Computer Science- IMCIP, vol. 54, pp. 764-771, 2015
4. Y. Jina Chanu, Kh. Manglem Singh and Th. Tuithung, Steganalysis of  $\pm k$  steganography using noncausal linear predictor, Proc IRF Conf, pp. 11-15, 2014.
5. Y. Jina Chanu and Kh. Manglem Singh, Rank-conditioned and threshold median filter for gray-scale images, Proc IRF Conf, pp. 22-27, 2014.
6. Sudipta Roy, A. S. Gupta, Kh. Manglem Singh and Dalton Meitei, Video Shot Boundary Detection: A Review, Proc ICECCT, vol. 2, pp. 920-926, 2015.
7. Arambam Neelima and Kh Manglem Singh, A Short Survey on Perceptual Hash Function, Proc EGTET, 2014.
8. Rajeev RK, Kh. Manglem Singh and Sudipta Roy, Copy-Move Forgery Detection Approaches Survey, Proc. EGTET, 2014.
9. Y. Jina Chanu, Kh. Manglem Singh and Th. Tuithung, Adaptive Edge Steganography for Images, Proc. ACSITEET, 2014.

10. Singh, K.J.; De, T., "DDOS Attack Detection and Mitigation Technique Based on Http Count and Verification Using CAPTCHA," *2015 International Conference on Computational Intelligence and Networks (CINE)*, IEEE, vol., no., pp.196-197, 12-13 Jan. 2015
11. Singh, Khundrakpam Johnson, De, Tanmay, "An Approach of DDOS Attack Detection Using Classifiers" *2015 International Conference on Emerging Research in Computing, Information, Communication and Applications*, Springer, vol., no., pp. 1, 429-437, 30-31 Aug 2015.
12. Khundrakpam Johnson Singh, Tanmay De, "A Novel Approach of Detection and Mitigation of DDOS Attack" *Int'l Conference on Computer Science, Data Mining & Mechanical Engineering (ICCDMMME'2015)* , Bangkok (Thailand), pp. 61-66, April 20-21, 2015
13. Prakash Choudhary and Neeta Nain, "An Annotated Urdu Corpus of Handwritten Text Image and Benchmarking of Corpus", *37<sup>th</sup> International ICT Convention MIPRO*, Croatia, IEEE, Page(s) 1409-1414, 2014.
14. Prakash Choudhary and Neeta Nain, "CALAM: Linguistic Structure to Annotate Handwritten Text Image Corpus". *Proceeding of the International Conference on CIDM, Odisha*, Lecture notes in computer science springer. Page(s) 449-460. 20-21 December 2014.
15. Prakash Choudhary, Neeta Nain and Mushtaq Ahmed, "A unified approach for development of Urdu Corpus for OCR and demographic purpose", *Proceeding of 7<sup>th</sup> International Conference on Machine Vision (ICMV 2014)*, SPIE, Page(s) 26-30. 2014.
16. Prakash Choudhary, Neeta Nain and Mushtaq Ahmed, "A Structure for Annotation and Ground-truthing of Urdu Handwritten Text Image Corpus", *Proceeding of 7<sup>th</sup> International Conference on Corpus Linguistics (CILC2015)*, Elsevier, University of Valladolid Spain, Page(s) 84-88. 2015.
17. Prakash Choudhary, Neeta Nain, "Adaptive Semantics Web-based Approach for Education using the Static Annotated Corpus", *Proceeding of the 2<sup>nd</sup> International Conference on Education Technologies and Computers (ICETC2015)*, IEEE, University of the Thai Chamber of Commerce Thailand. (Forthcoming) 2015.

### Journals

1. T. Romen Singh, Sudipta Roy and Kh. Manglem Singh, *Histogram Domain Adaptive Power Law Transformations in Image Enhancement Technique*, *International Journal of Computer Science and Information Technologies*, Vol. 5 (3), 3972-3978, 2014.
2. Kh. Manglem Singh, Yambem Jina Chanu and Themrichon Tuithung, Steganalysis of  $\pm k$  Steganography based on Noncausal Linear Predictor, *International journal of computers communications & control*, vol. 9, no. 5, pp. 565-573, 2014 (SCIE).
3. Y. Jina Chanu, Kh. Manglem Singh and Th. Tuithung, A Robust Steganographic Method based on Singular Value Decomposition, *International Journal of Information & Computation Technology*, vol. 4, no. 7, pp. 717-726, 2014.
4. Y. Jina Chanu, Kh. Manglem Singh and Th. Tuithung, Adaptive Edge Steganography for Images, *International Journal of Information & Computation Technology*, vol. 4, no. 7, pp. 777-786, 2014.
5. Rajeev Rajkumar, Kh. Manglem Singh and Sudipta Roy, Copy- Move Forgery Detection in Digital Images – A Survey, *International Journal of Research in Computer Science and Information Technology*, vol. 2, no. 2, pp. 26-31, 2014.

6. Kh. Manglem Singh and Prabin K. Bora, Switching vector median filters based on non-causal linear prediction for detection of impulse noise, *Imaging Science Journal*, vol. 62, no. 6, pp. 313-326, 2014 (SCI).
7. Kh. Manglem Singh, Yambem Jina Chanu and Th. Tuithung, Edge steganography for images, *WJ*, vol. 21, no. 4, pp. 20-26, 2014.
8. B. Pushpa Devi, Kh. Manglem Singh, Sudipta Roy and Yambem Jina Chanu, Watermarking Scheme for Images based on Singular Value Decomposition, *WJ*, vol. 21, no. 5, pp. 124-136, 2014.
9. Arambam Neelima and Kh Manglem Singh, A Short Survey on Perceptual Hash Function, *ADBU Journal of Engineering Technology*, vol. 1, pp. 1-6, 2014.
10. U. Robinchandra Singh, Kh. Manglem Singh and Sudipta Roy, Energy Efficient Key Management Analysis using AVL Trees in Wireless Sensor Network, *International Journal of Engineering Science Invention*, vol. 4, no. 5, pp. 59-70, 2015.
11. Ch. Neeta Devi, K. Pritamdas, "*Switching Median Filter Based on Iterative Clustering Noise Detection*", *International Journal of Science and Research*, Vol. 3, Issue 1, pp. 202-206, Jan 2014.
12. Thongam Khelchandra, Jie Huang, Somen Debnath, "Path Planning of Mobile Robot with Neuro-Genetic-Fuzzy Technique in Static Environment", *International Journal of Hybrid Intelligent systems*, IOS Press, Volume 11, Number 2, 2014, pp. 71 - 80
13. Thongam Khelchandra, Jie Huang, " Robot Motion Planning with Neuro-Genetic-Fuzzy Approach in Dynamic Environment", *International Journal of Information Technology*, Singapore Computer Society, Volume 21, Number 1, 2015
14. Prakash Choudhary and Neeta Nain, "A Four Tier Annotated Urdu Handwritten Text Image Dataset for Multidisciplinary Research on Urdu Script", *ACM Transaction of TALLIP*, 2014. (Accepted)
15. Teressa Longjam, "*Comparative Study of Destination Sequenced Distance Vector and Ad-hoc On-demand Distance Vector Routing Protocol of Mobile Ad-hoc Network*", *IJSRP*, Volume 3, Issue 2, Feb 2013.

### Book Chapter

1. Dalton Meitei Thounaojam, Amit Trivedi, Kh. Manglem Singh and Sudipta Roy, A Survey on Video Segmentation, D. P. Mohapatra and S. Patnaik (eds.), *Springer Intelligent Computing, Networking, and Informatics, Advances in Intelligent Systems and Computing*, 903-912, 2014.

7. Details of seminars/ conference/ workshop/symposium/STTP attended by teaching faculty.

Jina Yambem:

- Intellectual Property Rights (IPR), 29-1-2014 organised by NIELIT Manipur.
- E-Learning Technologies and Practices (NPTEL-NMEICT) 1-3-2014 TO 2-3-2014 organised by NIT Manipur.
- North-East ISI-MU Spring School on Algorithms: Theory, Application & Implementation 20-02-2013 to 22-02-2013 organised by Indian Statistical Institute & Manipur University.
- National Workshop on Nanotechnology and its Applications in Science and Engineering (NASE -2013) 23-3-2013 to 24-3-2013 organised by NIT Manipur.
- Workshop on Cyber Forensic 27-3-2013 organised by NIT Manipur.

Chingakham Neeta Devi:

- T10KT Two week Main Workshop on Control Systems, Dec. 2-12, 2014, organised by IIT Kharagpur.
- T10KT Two - Week ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education, Jan. 2015, organised by IIT Bombay.

Prakash Choudhary:

- Short Term Course on "Pattern Recognition Techniques" Department of Computer Engineering at MNIT Jaipur from May 13-17, 2013.
- Faculty Development Programme on "Image Processing, Computer Vision and Pattern Recognition" NIT Delhi from June 18-22, 2013.
- Workshop on "Biometrics and Privacy Protection" Department of Computer Engineering at MNIT Jaipur from December 23 – 25, 2013.
- National workshop on "National Board of Accreditation" at The Institute of Engineers (India) Udaipur from August 28 to 30, 2015.
- Present a seminar on "Support for Entrepreneurial and Managerial Development of SMEs through Incubators" at Nirmal Bhawan, New Delhi on 28/05/2015.

Teressa Longjam:

- T10KT Two week Main Workshop on Control Systems, Dec. 2-12, 2014, organised by IIT Kharagpur.
- TWO - WEEK ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education, Jan. 2015, organised by IIT Bombay.
- Two Week ISTE Short Term Training Programme (STTP) on Introduction to Design of Algorithms, May 2015, organised by IIT Kharagpur.

Sanabam Bineshwar Singh:

- Participated in a two-week ISTE STTP workshop on *Introduction to Design of Algorithms*, May 2015, conducted by Indian Institute of Technology Kharagpur.
- Participated and presented the paper entitled *Efficient protection of multitier web applications using container based IDS* in the conference ICCTRD '14 at SCAD College of Engineering and Technology.

8. Any event organized by the Department during **(2013-14 & 2014-15)** (seminar, symposia, conference, workshop etc.):

- i) Winter Internship Program on "*Robotics and Embedded C*" by Robosapiens, Noida from 5<sup>th</sup> February 2013 to 19<sup>th</sup> February 2013.
- ii) Workshop on "*RC Aircraft Design, Fabrication and Flying*" by Aerotrix on 13<sup>th</sup> and 14<sup>th</sup> of March 2014
- iii) Workshop on "*Animation and 3D-designing*" by Innovians Technologies on 19<sup>th</sup> and 20<sup>th</sup> of March 2014
- iv) Workshop on "*Basic and Advanced concepts of JAVA(JDK 8) and its applications*" GeeksLab Technologies Pvt. Ltd, on 4<sup>th</sup> and 5<sup>th</sup> of September 2015

**9. Research projects:**

Name of the project	Sponsoring agency	Amount (Rs in lakh)	Duration	Principal Investigator

**10. Students enrolled**

Degree	Intake Capacity	Year	ST		SC		OBC		Gen		Total	
			M	F	M	F	M	F	M	F	M	F
B. Tech.	60	First Year									<b>40</b>	<b>4</b>
	60	Second Year	4	0	10	3	18	1	8	2	<b>40</b>	<b>6</b>
	30	Third Year	1	2	3	1	9	3	6	0	<b>19</b>	<b>6</b>
	30	Fourth Year	2	0	4	0	3	1	11	0	<b>20</b>	<b>1</b>
M.Tech.	15	First Year									<b>10</b>	<b>5</b>
	05	First Year (Part Time)									<b>1</b>	<b>3</b>
	15	Second Year	0	0	1	0	4	5	1	3	<b>6</b>	<b>8</b>

**11. Ph.D. Scholars:**

- Arambam Neelima
- Hidangmayum Saxena Devi
- L. Dolendro
- Angom Buboo
- Ngangbam Herojit Singh
- Anuradha Laishram
- Maibam Mangalleibi Chanu
- Rajkumari Bidyalakshmi Devi
- Ratischandra Huidrom

**Annual Report – 2014 to 2015**

**Name of Department:** Electronics & Communication Engineering



**A. Academic Information**

**(1) Faculty**

<b>Faculty</b>	<b>2014 to 2015</b>
Professor	0
Associate Professor	0
Assistant Professor	2
on contract	2
Teaching Assistant	6
<b>Total</b>	<b>10</b>

**(2) Non – Faculty Staff**

<b>Non – Teaching Data</b>	<b>2014 to 2015</b>
Regular	1
On Contract	4
<b>Total</b>	<b>5</b>

**(3) B.Tech Program**

<b>No. of students Admitted</b>	<b>1year</b>	<b>2<sup>nd</sup> year</b>	<b>3<sup>rd</sup> year</b>	<b>4<sup>th</sup> year</b>
Admitted	18	23	11	25
Intake	30	30	30	30
<b>Total</b>	<b>48</b>	<b>53</b>	<b>41</b>	<b>55</b>

**(4) Ph.D Program**

	<b>2014 to 2015</b>
No. of part-time admitted	3
No. of Full-time admitted	1
<b>Total</b>	<b>4</b>
Degree Awarded	0

**B. Research Information**

**(1) Faculty Visited Abroad**

	<b>2014 to 2015</b>
No.	0

**(2) Sponsored Research project from Govt. /Semi. Govt. Agencies**

<b>Sponsored Research project</b>	<b>2014 to 2015</b>	
	<b>No.</b>	<b>Rs. (in lakhs)</b>
	0	

**(3) Research Publications (attached additional sheet giving detailed information)**

<b>Publication</b>	<b>2014 to 2015</b>
National Journal	0

International Journals	<b>3</b>
National Conference	0
International Conference	<b>1</b>
No. of Book published	0

**C. Industry Institute Interaction Information**

**(1) Short Term Course/ Workshop/ Seminar/Conference conducted by Faculty**

	<b>2014 to 2015</b>
STTP	<b>2 (Under the <i>Workshop Coordinator</i> of K. Pritamdas, Asst. Prof. NIT Manipur)</b>
Workshop	<b>1 (Under the <i>Remote Center Coordinator</i> of K. Pritamdas, Asst. Prof., NIT Manipur )</b>
Seminar	0
Conference	0
Symposia	0

**(2)**

<b>Patents</b>	<b>2014 to 2015</b>
No. of patents acquired	0

**(3)**

<b>Record of result in various competitive examination like (GATE/GRE/CAT , etc)</b>	<b>2014 to 2015</b>
• <b>GATE</b>	<b>4</b>
• <b>GRE</b>	0
• <b>CAT</b>	0

**(4) Sponsored Research projects from Industry**

<b>Sponsored Research projects</b>	<b>2014 to 2015</b>	
	<b>No.</b>	<b>Rs.</b>
	<b>0</b>	

**D. Any other information not covered above (Industrial visit, extracurricular activities etc) for 2014 – 15.**

**List of Publications (2014 to 2015)**

**International Journal**

1. **Chitralekha Ng.**, Anirudha Mondal and Bijit Choudhuri “*Efficient photon management with Ag nanoparticles coated TiO<sub>2</sub> nanowire clusters for photodetector application*” , The Journal Electronic Material Letter (Accepted on 15<sup>th</sup> Jan., 2015) (*SCI Expanded*).
2. C.P. Singh, Rekha Sharma, V. Shukla, **Pinky Kh.**, Rajneesh Misra, K.S. Bindra and Rama Chari “*Optical limiting and nonlinear optical studies of ferrocenyl substituted calixarenes*” The Journal of Chemical Physics Letters, Elsevier, Vol: 616-617 (2014), pp: 189-195.

3. **Pinky Khundrakpam**, Arun Kumar “Design of a thermally tunable optical filter based on one-dimensional ternary photonic band gap material” *Optik-International Journal for Light and Electron Optics*, [doi:10.1016/j.ijleo.2015.07.046] (*SCI*)
4. **Y. Shantikumar Singh**, B. Pushpa Devi and Kh. Manglem Singh “*Image Compression with Haar Wavelet Transform*”, *International Journal of Computer Applications (IJCA)*, Vol: 121(9), pp: 15-18, July, 2015.

**International Conference**

1. **Chitralkha Ng.**, Shougaijam B., Anirudha Mondal “*Dispersed Ag nanoparticles on TiO2 nanowire clusters for photodetection* ” *IEEE International Conference, Bangkok, 22-25 Oct. 2014*, pp:1-4, ISBN: 978-1-4799-4076-9. (*IEEE Explore*)

**Annual Report – April, 2014 – March, 2015**

**Name of Department:** Electrical Engineering



**E. Academic Information  
(5) Faculty**

Faculty	April, 2014 – March, 2015
Professor	0
Associate Professor	0
Assistant Professor	2
Teaching Assistant	5
<b>Total</b>	<b>7</b>

**(6) Non – Faculty Staff**

<b>Non – Teaching Data</b>	<b>April, 2014 – March, 2015</b>
Regular	0
On Contract	3
<b>Total</b>	<b>3</b>

**(7) B.Tech Program**

<b>No. of students Admitted</b>	<b>1year</b>	<b>2<sup>nd</sup> year</b>	<b>3<sup>rd</sup> year</b>	<b>4<sup>th</sup> year</b>
Admitted	22	17	18	26
Intake	30	30	30	30
<b>Total</b>	<b>52</b>	<b>47</b>	<b>48</b>	<b>56</b>

**(8) M.Tech Program**

<b>No. of students Admitted</b>	<b>1year</b>	<b>2<sup>nd</sup> year</b>
Admitted	15	
Intake	15	
<b>Total</b>	<b>30</b>	

**(9) Ph.D Program**

	<b>April, 2014 – March, 2015</b>
No. of part-time admitted	2
No. of Full-time admitted	1
<b>Total</b>	<b>3</b>
Degree Awarded	0

**F. Research Information**

**(4) Faculty Visited Abroad**

	<b>April, 2014 – March, 2015</b>
No.	0

**(5) Sponsored Research project from Govt. /Semi. Govt. Agencies**

<b>Sponsored Research project</b>	<b>April, 2014 – March, 2015</b>	
	<b>No.</b>	<b>Rs. (in lakhs)</b>
	0	

**(6) Research Publications (attached additional sheet giving detailed information)**

<b>Publication</b>	<b>April, 2014 – March, 2015</b>
National Journal	0
International Journals	2
National Conference	0

International Conference	0
No. of Book published	0

**G. Industry Institute Interaction Information**

**(5) Short Term Course/ Workshop/ Seminar/Conference conducted by Faculty**

	<b>April, 2014 – March, 2015</b>
STTP	0
Workshop	2
Seminar	0
Conference	0
Symposia	0

(6)

<b>Patents</b>	<b>April, 2014 – March, 2015</b>
No. of patents acquired	0

(7)

<b>Record of result in various competitive examination like (GATE/GRE/CAT , etc)</b>	<b>April, 2014 – March, 2015</b>
• GATE	6
• GRE	0
• CAT	0

**(8) Sponsored Research projects from Industry**

<b>Sponsored Research projects</b>	<b>April, 2014 – March, 2015</b>	
	<b>No.</b>	<b>Rs.</b>
	<b>0</b>	

**H. Any other information not covered above (Industrial visit, extracurricular activities etc) for 2013 – 14.**

**List of Publications (April, 2014 – March, 2015)**

**(Department of EEE)**

**International Journal**

- Ksh. P Devi**, A.K Rohit, S K Yawale, S Rangnekar, “Intelligent system for controlling lights and fans powered by solar PV”. International journal of engineering development and research. ISSN 2321-9939, Volume 2, Issue 1, 2014.
- Ksh. Priyalakshmi Devi**, Priyanka Kamdar, Akarsh Mittal, Amit K. Rohit, S Rangnekar, “Performance analysis of various ultracapacitor and its hybrid with batteries”. International journal of advanced technology in engineering and science. ISSN 2348-7550, Volume 2, Issue 1, 2014.

**Workshop**

1. Two week ISTE Main Workshop on “Control Systems”, held during 2<sup>nd</sup> to 12<sup>th</sup> Dec 2014 under national mission on education through ICT (MHRD Govt. of India) as a remote centre, under the workshop coordinator Benjamin A. Shimray.
2. 3 days Workshop on “Robotryst-2015”, zonal round, held during 31<sup>st</sup> Jan to 2<sup>nd</sup> Feb 2015 under the workshop coordinator Benjamin A. Shimray.

**Gate**

Sl.No	Enrolment No.	Name
1	11UEE001	Ankur Kambley
2	11UEE006	Atul Kumar
3	11UEE009	Gangmei George Dishinpou
4	11UEE013	Md. Gulam Sarwar Md. Usman
5	11UEE016	N. Bidyarani Devi
6	11UEC022	Ritika Singh

**Annual Report – April, 2014 – March, 2015**

**Name of Department:** Department of Civil Engineering



**I. Academic Information**

**(10) Faculty**

<b>Faculty</b>	<b>April, 2014 – March, 2015</b>
Professor	NIL
Associate Professor	NIL
Assistant Professor	4
on contract	1
Teaching Assistant	2
<b>Total</b>	<b>7</b>

**(11) Non – Faculty Staff**

<b>Non – Teaching Data</b>	<b>April, 2014 – March, 2015</b>
Regular	NIL
On Contract	6
<b>Total</b>	<b>6</b>

**(12) B.Tech Program**

<b>No. of students Admitted</b>	<b>1 year</b>	<b>2<sup>nd</sup> year</b>	<b>3<sup>rd</sup> year</b>	<b>4<sup>th</sup> year</b>
Admitted	25	30+4(year back)	29	-
Intake	30	30	30	-

**(13) Ph.D Program**

	<b>April, 2014 – March, 2015</b>
No. of part-time admitted	NIL
No. of Full-time admitted	2
Total	2
Degree Awarded	NIL

**J. Research Information**

**(7) Faculty Visited Abroad**

	<b>April, 2014 – March, 2015</b>
No.	NIL

**(8) Sponsored Research project from Govt. /Semi. Govt. Agencies**

<b>Sponsored Research project</b>	<b>April, 2014 – March, 2015</b>	
	No.	Rs. (in lakhs)
	1(under initiation) ISRO-EOAM Project	15,00,000
	1 Development of amine based polymer adsorbent for defluoridization of drinking water	19,00,000

**(9) Research Publications**

<b>Publication</b>	<b>April, 2014 – March, 2015</b>
National Journal	NIL
International Journals	4
National Conference	1
International Conference	NIL
No. of Book published	NIL

**Industry Institute Interaction Information**

**(9) Short Term Course/ Workshop/ Seminar/Conference conducted by Faculty**

	<b>April, 2014 – March, 2015</b>
STTP	NIL
Workshop	1
Seminar	NIL
Conference	NIL
Symposia	NIL

(10)

<b>Patents</b>	<b>April, 2014 – March, 2015</b>
No. of patents acquired	Nil

(11)

<b>Record of result in various competitive examination like (GATE/GRE/CAT , etc)</b>	<b>April, 2014 – March, 2015</b>
• GATE	NIL
• GRE	NIL
• CAT	NIL

**(12) Sponsored Research projects from Industry**

<b>Sponsored Research projects</b>	<b>April, 2014 – March, 2015</b>	
	<b>No.</b>	<b>Rs.</b>
	NIL	NIL

Name of the faculty and non faculty staff.

<b>FACULTY</b>	<b>NON-FACULTY</b>
<b>Dr.P.Albino Kumar</b> Assistant Professor	<b>Ms.Anjali Longjam</b> Technical Assistant
<b>Dr.Mayengbam Sunil Singh</b> Assistant Professor	<b>Ms.Kiran S</b> Technical Assistant
<b>Dr.Bakimchandra Oinam</b> Assistant Professor	<b>Mr.Ingudam Bigyananda</b> Technical Assistant
<b>Dr.Ngangbam Romeji Singh</b> Assistant Professor	<b>Ms. Supriya Thoudam</b> Technical Assistant
<b>Mr.N.Shyamananda Singh</b> Assistant Professor	<b>Mr.Ayekpam Bijen Singh</b> Lab attendant
<b>Mr.Yumnam Girish Singh</b>	<b>Mr.Thiyam Samson Singh</b>

Teaching Assistant	Lab attendant
<b>Ms.Sonia Longjam</b> Teaching Assistant	

**ANNEXURE:**

**Details of the publications:**

Sl.No.	National Conference
1.	Y.Girish Singh, Diptesh Das, “ Pounding in bridge with passive isolation System subjected to earthquake Ground acceleration”,Proceeding of Structural Engineering Convention,22-23 Dec,2014,Advanced in structural Engineering. Volume 2, pp-1117-1127
Sl.No.	International Journal
1	“Flood Hydrological and Hydraulic Modelling in Guwahati Urban with Early Warning Imperatives.” International Society of Photogrammetry & Remote Sensing, ISPRS TC VIII International Symposium, December 09 - 12, 2014, Hyderabad, India. Ng. Romeji Singh <sup>1</sup> , Amaljit Bharali <sup>2</sup> , and Sudhakar Singuluri <sup>3</sup> (2014).
2	“Bathymetry Generation of Umiam Reservoir Using SONAR and GIS Techniques.” International Journal of Engineering Science Invention, Vol 3 Issue 5, May - 2014, pp.20-27(ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 Jeffrey Denzil K. Marak <sup>1</sup> , E. Venkata Rathnam <sup>2</sup> , Ng. Romeji Singh <sup>3</sup> and Sudhakar Singuluri <sup>4</sup> (2014).
3	“3D Flood Simulation System using RS & GIS.” International Journal of Engineering Research & Technology, Vol. 3 Issue 5, May – 2014, pp. 2218 – 2222. Sangyal Lama Tamang <sup>1</sup> , Ng. Romeji Singh <sup>2</sup> , Victor Saikhom <sup>2</sup> , and Zigmi T Bhutia <sup>3</sup> (2014).
4	“Analysis and Design of shopping mall against lateral forces”, International Journal of Engineering and Science Invention, Vol 3 Issue4, April,2014,pp-11-20 ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 Sonia Longjam and S. Aravindan

**Department : Mechanical Engineering**



**Academic Information  
Faculty**

<b>Faculty Data</b>	<b>2014-2015</b>
Professor	0
Associate Professor	0
Assistant Professor	2
Teaching Assistant	2
Trainee Teacher	1
<b>Total</b>	<b>5</b>

<b>Name of the Teacher</b>	<b>Designation</b>	<b>Qualification</b>	<b>Subject specialization</b>
Mr. Huirem Neeranjan Singh	Assistant Professor & Head of the Department	B. Tech, M. Tech, SVNIT, Surat, Ph. D(pursing from NIT Durgapur	Alternative Fuel, IC Engines, Energy system, Thermal systems
Dr. Anil Kumar Birru	Assistant Professor & Associate Dean (Research & Consultancy)	B. Tech, M. E., Shri. G.S.I.T.S.-Indor (M.P.) Ph. D, IIT Roorkee	Manufacturing, Composites Materials, Quality Function Deployment
Mr. Khundrakpam Nimo Singh	Sr. Teaching Assistance	B. Tech. M. Tech, GNDEC, Ludhiana; PTU, Jalandhar-Punjab. Ph.D. (pursuing) in Mechanical Engineering; PTU, Jalandhar-Punjab.	Manufacturing, Non-traditional Machining, CAD/CAM
Miss. Maibam Bindya Devi	Teaching Assistant	B. Tech, M. Tech, NIT Warangal	Materials Technology
Mr. Prabhat	Trainee Teacher	B. Tech, NIT Jamshedpur M. Tech, IIT Guwathi, (Pursing)	Machine Design

**Non-Teaching Staff**

<b>Non-Teaching Data</b>	<b>2014-15</b>
Regular	0
On Contract	3 Technical Assistant 1 Technical Attendant

**PhD Program:**

No. of Full Time Admitted	03
No. of Part Time Admitted	01
<b>Total</b>	<b>04</b>
Degree Awarded	NIL

**B. Tech Program**

<b>No. of students Intake</b>	<b>Semester</b>		
	<b>I</b>	<b>III</b>	<b>V</b>
	30	30	30

**Research Information**

**Research publications**

<b>International Journals</b>	<b>National Journals</b>	<b>International Conferences</b>	<b>National Conferences</b>	<b>Text Books</b>
3	0	9	0	0

**Industry and Institute Interaction**

**Memorandum of Understanding signed with Central and Private Organisations**

Central Institute of Tool Design ( A Govt. of India Society, Ministry of Micro, Small & Medium Enterprise- MSME – Hyderabad, Telangana State)
Collaborative and Innovation Centre with Tata Technologies

**Short Term Courses/ Workshops/Seminars/Conferences conducted by faculty**

<b>Name of Event</b>	<b>2014-2015</b>
STTP	0
Workshop	0
Seminar	0
Conference	0
Symposia	0
Patents	0
Total	0

**Sponsored Research Projects form Govt. Of India (2014-2015)**

<b>Name of the Principle Investigator</b>	Dr. Anil Kumar Birru
<b>Name of the Funding Agency</b>	Science and Engineering Research Board Department of Science and Technology, Government of India
<b>Amount in Rs:</b>	20, 00000
<b>Title of the Project</b>	Development of New Hybrid Composite Material Based on Aluminium Matrix Composite by stir casting method.
<b>Status</b>	Applied: Reference No: YSS/2015/001823. (Under review)

**List of International Journals**

<b>Author (s)</b>	<b>Title</b>	<b>Name of the Journal</b>	<b>Volume</b>	<b>Page</b>	<b>Year</b>
<b>Anil Kumar Birru</b> B. Praveen Kumar	Influence of Fly ash Reinforcement on Fluidity of Al-Cu alloy by Sand Casting	Materials Today: Proceedings. Elsevier	DoI: 10.1016/j.matpr.2015.07.274 (In Press)	2776-2783	2015
CH HariKrishna, MJ Davidson, CH Nagaraju, and <b>B Anil Kumar</b>	Effect of lubrication on hardness in the ring compression test	Journal of Mechanical Engineering Science	DoI: 10.1177/0954406215586590 (In Press)	1-12	2015
Md. Sameer and <b>A. K. Birru</b>	Effects of Welding Parameters on Mechanical and Microstructural Properties of AA6082T6 Joints Produced by Friction Stir Welding.	International Journal of Engineering Research and Technology	7	49-54	2014

**List of International Conferences**

<b>Title</b>	<b>Author (s)</b>	<b>Publisher</b>	<b>Year of publication</b>
Competitive Advantage of Hybrid Metal Matrix Composites over Metal Matrix Composites: A Comprehensive Review	B. Praveen Kumar <b>Anil Kumar Birru</b>	17 <sup>th</sup> ISME Conference, Organized at IIT Delhi	2015
Review of Metal matrix composites with Advance materials for Industrial Applications	B. Praveen Kumar <b>Anil Kumar Birru</b>	63 <sup>rd</sup> Indian Foundry Congress	2015
Enhancement of Customer Satisfaction by QFD in Metro-Taxi Service	K. Chinna Apparao and <b>Anil Kumar.Birru</b>	Bonfring publishers	2014

A Study on Thermal Conductivity of Hybrid Composite Material with Reinforcement of Coconut Coir	G. Kranthi Kumar and B. Praveen Kumar, P. Vara Laxmi and <b>Anil Kumar Birru</b>	Bonfring publishers	2014
Influence of Grain size on Hardness by in situ Al-5Cu /Fly Ash Particulate Composites	<b>A.K. Birru</b> , P. Karunakar, and M.D. Sameer	ICMMM-2014. Organized at IIT Madras.	2014
Effect of Pouring Temperature and Grain Size on A713 cast alloy by single spiral fluidity test	<b>A.K. Birru</b> , and D. Benny Karunakar	ICMMM-2014. Organized at IIT Madras.	2014
Enhancement of Mechanical properties of recycled green sand by addition of Starch (wheat flour)	<b>A.K. Birru</b> , P. Arun, and Dharmasing	ICMMM-2014. Organized at IIT Madras.	2014

**Annual Report – April, 2013 – March, 2014**

**Name of Department:** Department of Humanities and Basic Sciences

Effects of Combined Addition of Aluminum Oxide, Fly Ash, Carbon and Yttrium on Density and Hardness of ZA27 Zinc Alloy	<b>A. K. Birrua</b> , R. Manohar Reddy, B. Srinivasa , K. Balachandan Reddy and K. Nithina	ASDF Publishers	2014
Enhancement of Mechanical properties of recycled green sand by addition of Alumina	<b>A.K. Birru</b> , P. Arun, and Dharmasing	AMITDR-2014. Organized at IIT, Guwahati.	2014



### K. Academic Information

#### (14) Faculty

<b>Faculty</b>	<b>April, 2013 – March, 2014</b>
Professor	
Associate Professor	Nil
Assistant Professor	6
on contract	1
Teaching Assistant	9
<b>Total</b>	<b>16</b>

#### (15) Non – Faculty Staff

<b>Non – Teaching Data</b>	<b>April, 2013 – March, 2014</b>
Regular	0
On Contract	2
<b>Total</b>	<b>2</b>

#### (16) B.Tech Program

<b>No. of students Admitted</b>	<b>1year</b>	<b>2<sup>nd</sup> year</b>	<b>3<sup>rd</sup> year</b>	<b>4<sup>th</sup> year</b>
Admitted				
Intake				

**(17) Ph.D Program**

	<b>April, 2013 – March, 2014</b>
No. of part-time admitted	Nil
No. of Full-time admitted	Nil
Total	Nil
Degree Awarded	Nil

**L. Research Information**

**(10) Faculty Visited Abroad**

	<b>April, 2013 – March, 2014</b>
No.	Nil

**(11) Sponsored Research project from Govt. /Semi. Govt. Agencies**

<b>Sponsored Research project</b>	<b>April, 2013 – March, 2014</b>	
	No.	Rs. (in lakhs)

**(12) Research Publications (SEE Annexure)**

<b>Publication</b>	<b>April, 2013 – March, 2014</b>
National Journal	4
International Journals	<b>19</b>
National Conference	10
International Conference	<b>4</b>
No. of Book published	0

**Industry Institute Interaction Information**

**(13) Short Term Course/ Workshop/ Seminar/Conference conducted by Faculty**

	<b>April, 2013 – March, 2014</b>
STTP	
Workshop Dr.Ibetombi Soibam	2. National workshop on nanotechnology and its application in science and engineering, 23-24 March 2014, NIT Manipur. <b>Organizing Secretary</b> 2. Two day workshop on E-Learning technologies and Practices (NPTEL-NMEICT) 1-2 March 2014, NIT Manipur. <b>Organising Secretary</b>
Seminar	
Conference	
Symposia	

**(14)**

<b>Patents</b>	<b>April, 2013 – March, 2014</b>
No. of patents acquired	nil

**(15)**

<b>Record of result in various competitive examination like</b>	<b>April, 2013 – March, 2014</b>
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(GATE/GRE/CAT , etc)	
• GATE	nil
• GRE	nil
• CAT	nil

**(16) Sponsored Research projects from Industry**

<b>Sponsored Research projects</b>	<b>April, 2013 – March, 2014</b>	
	<b>No.</b>	<b>Rs.</b>
		nil

**M. Any other information not covered above (Industrial visit, extracurricular activities etc) for 2013 – 14.**

**Annexure**

**LIST OF PUBLICATIONS  
(MATHEMATICS DEPT)**

**International Journal:**

- i) Generalised common fixed point theorems of A-compatible and S-compatible mappings, *American J. of Applied Mathematics and Statistics*, 1(2), (2013), 27-29, Y. Rohen Singh, ShahidurRahman and M. Popeshwar Singh.
- ii) Remarks on common fixed point theorems of Rajesh et.al. *International Journal of Mathematical Sciences and Engineering Applications (IJMSEA)*, India, Vol. 7, No. VI (November, 2013) 97-109, Y. Rohen Singh & L. Ibeni Devi.
- iii) Common fixed point theorem for six self maps n a cone metric space through semi compatibility and weak compatibility, *International Journal of Mathematical Sciences and Engineering Applications (IJMSEA)*, India, Vol. 8, No. I (January, 2014) 223-232, Y. Rohen Singh & L. Bishwakumar.
- iv) Common fixed point in fuzzy metric spaces, *International Journal of Mathematical Sciences and Engineering Applications (IJMSEA)*, India, Vol. 7, No. VI (November, 2013) 121-133, Y. Rohen Singh & L. Bishwakumar.
- v) Common fixed points for a pair of self asymptotically regular mappings in cone metric spaces, *Wulfenia Journal*, 21(4), 2014, 210-215, Y. Rohen Singh & Th. Chhatrajit.
- vi) Semi compatible mappings and fixed point theorems in cone metric space, *Wulfenia Journal*, 21(4), 2014, 216-224, Y. Rohen Singh & Th. Chhatrajit.
- vii) Common fixed points of D-Quasi Contractions in Cone metric Space, *Wulfenia Journal*, 21(5), 2014, 115-123, Y. Rohen Singh, L Shambhu Singh, M. Krishnanando Singh, Th. Chhatrajit Singh and L Premila Devi.
- viii) Some remarks on d-quasi contraction on cone symmetric space, *International Journal of Mathematical Archive* 5(7), 2014, 75-78. (jointly with ThokchomChhatrajit Singh)
- ix) Related Fixed Point Theorem for Mappings on Three Metric Spaces, *American Journal of Applied Mathematics and Statistics*, 2(4), 2014, 244-245, Y. Rohen Singh & L. Bishwakumar.

**Papers presented in international conference:**

- i) Some fixed point theorems of semicompatible mappings, *Proceedings of the CONIAPS XVI*, Y. Rohen Singh & L. Premila Devi.
- ii) Fixed points of asymptotically regular mappings of  $c$ -distance on cone metric space, *Proceedings of the CONIAPS XVI*, Y. Rohen Singh & Th. Chhatrajit Singh.
- iii) A related fixed point theorem for two pairs of mappings on two complete fuzzy metric spaces, *Proceedings of the CONIAPS XVI*, Y. Rohen Singh & Ph. Suranjoy.

**PHYSICS DEPT****Journal**

1. Effect of sintering temperature on  $\text{Li}_{0.45}\text{Mn}_{0.1}\text{Fe}_{2.45}\text{O}_4$  ferrite, **Ibetombi Soibam**, Sumitra Phanjoubam (2013) *Indian Journal of Physics*, 2013, Volume 87, Issue 2, pp 121-124
2. Synthesis and photoluminescence studies of Ni substituted ZnO nanoparticles, S Bobby Singh, K Nomita Devi, **Ibetombi Soibam**, H N K Sarma, (2013) *Springer Proceedings in Physics, Vol. 143*, pp 133-138.
3. A review on the types, preparation technique and applications of ferrite, Sanatombi S, **Ibetombi Soibam** (2013) *International Journal Of Advance Research In Science And Engineering*, Vol. No.2, Issue No.7, July, 2013
4. Review on the effect of substitution in basic lithium ferrites, **Ibetombi Soibam**, (2013) *International Journal Of Advance Research In Science And Engineering*, Vol. No.2, Issue No.8, August 2013
5. Effect of Heat Treatment on the Electrical and Magnetic Properties of  $\text{Li}_{0.45}\text{Mn}_{0.1}\text{Fe}_{2.45}\text{O}_4$  Ferrite **Ibetombi Soibam**, Sumitra Phanjoubam, (2013) *Journal of International Academy of Physical Sciences, Vol. 17(No.1)*, pp 93-99
6. Processing of Li-Mn ferrite and its characterisation, **Ibetombi Soibam**, Sanatombi S, (2014) *International journal of Advance Research in Science and Engineering*, volume no.03, Issue 1 Jan 2014, ISSN 2319-8354
7. Dielectric studies of Double sintered lithium Zinc nickel ferrite prepared by citrate precursor method, **Ibetombi Soibam**, N Nilima, S Phanjoubam, (2014) *American journal of Material Science and Engineering*, Vol 2, 24-27
8. Synthesis of Manganese substituted zinc oxide by chemical co-precipitation method. Sanatombi S, **Ibetombi Soibam**, (2014) *International journal of Advance Research in Science and Engineering*, volume no.03, Issue 5 May 2014, ISSN 2319-8354(E)
9. Dielectric studies of Single and Double sintered Ni substituted Li-Zn ferrite **Ibetombi Soibam**, Sanatombi S, (2014) *American journal of Material Science and Engineering*, Vol 2, 42-44

**Conferences:**

1. Fabrication of Ni substituted lithium zinc ferrites by citrate precursor method. Sanatombi Sorokhaibam, **Ibetombi Soibam** International Conference on Electron microscopy and meeting of electron microscope society India, EMSI-2014, 7-11 July, 2014, Physics Department, Delhi University

2. Synthesis and characterization of Nickel substituted lithium ferrite by citrate precursor method.  
Sanatombi S, Ibetombi Soibam, Sumitra Phanjoubam  
'XVIII NSFD-2014, 18<sup>th</sup> National Seminar on Ferroelectrics and Dielectrics-2014'  
Manipur University, Physics Department.
3. A comparative study on the dielectric properties of microwave and conventional sintered Li-Ni-Zn ferrite. Ibetombi Soibam, Biju Thangjam, 'XVIII NSFD-2014, 18<sup>th</sup> National Seminar on Ferroelectrics and Dielectrics-2014' Manipur University, Physics Department.
4. Effect of V<sub>2</sub>O<sub>5</sub> Additions on the Properties of Li-Mn-Ti Ferrites. *MamataMaisnam and SumitraPhanjoubam*, 18th National Seminar on Ferroelectrics and dielectrics (XVIII NSFD 2014) Nov. 3-5, 2014
5. Structural and Electrical Characterization of Yttrium Nickel Manganite- Y<sub>0.6</sub>Ni<sub>0.4</sub>MnO<sub>3</sub> Synthesized by Solid State Reaction Method, *Kshetrimayum Sangeeta, MamataMaisnam and Sumitra Phanjoubam*, 18th National Seminar on Ferroelectrics and dielectrics (XVIII NSFD 2014) Nov. 3-5, 2014
6. Electrical and Morphological Studies of Co<sup>2+</sup> Substituted Li-Ni Ferrites Prepared by Sol-Gel Method *Nilima, Mamata and Sumitra*, 18th National Seminar on Ferroelectrics and dielectrics (XVIII NSFD 2014) Nov. 3-5, 2014
7. Dielectric properties of Li-Co Nanoferrites Prepared by Sol-Gel Method. *Maisnam Victory, MamataMaisnam and Sumitra Phanjoubam* 18th National Seminar on Ferroelectrics and Dielectrics (XVIII NSFD 2014) Nov. 3-5, 2014.
8. Microwave Sintering and C of Sol-Gel Prepared Li-Co-Y Ferrites. *Waikhom Surchandra, MamataMaisnam, Maisnam Victory, and Sumitra Phanjoubam*. 18th National Seminar on Ferroelectrics and dielectrics (XVIII NSFD 2014) Nov. 3-5, 2014

### Seminar/workshop

1. National workshop on nanotechnology and its application in science and engineering, 23-24 March 2014, NIT Manipur. **rganizing Secretary**
2. Two day workshop on E-Learning technologies and Practices (NPTEL-NMEICT) 1-2 March 2014, NIT Manipur.  
**Organising Secretary**
3. 18<sup>th</sup> National Seminar on Ferroelectrics & Dielectrics, 3-5 November, 2014, Manipur University  
**Local Organizing committee member**

### **Chemistry Dept**

#### Journal

1. Evaluation of Intensity and Energy Interaction Parameters for the Complexation of Pr(III) with Selected Nucleoside and Nucleotide through Absorption Spectral Studies, N. Bendangsenla, T. Moaienla, **Th. David Singh**, Ch. Sumitra, N. Rajmuhon Singh and M. Indira Devi, *Spectrochimica Acta (A)*, 103 (2013) 160–166.
2. Comparative 4f-4f Absorption Spectral Approach to Study the Complexation of Pr(III) with Guanosine and Guanosinetriphosphate (GTP) in the Presence and Absence of Ca(II), Bendangsenla N, M. Indira Devi, T. Moaienla and **Th. David Singh**, *International Journal of Basic and Applied Sciences*, 3(1)(2013)19-30.

3. Synthesis of Copper Oxide Nanoparticles by a Novel Method and its Application in the Degradation of Methyl Orange, Henam Sylvia Devi and **Thiyam David Singh**, Advance in Electronic and Electric Engineering, Volume 4, Number 1 (2014)83-88.

**Seminars/Conferences attended :**

- 1.Participated in the “Thematic Orientation Workshop on Trace Element Analysis and Radiological Science” organized jointly by UGC-DAE Consortium for Scientific Research, Kolkata Centre and Manipur University, Imphal during 12-14 March, 2013 at Manipur University.
- 2.Presented a paper entitled, “Comparative 4f-4f Absorption Spectral Study for the Interactions of Pr(III) and Nd(III) with Glutathione Reduced(GSH) in Presence of Zn in the UGC-SAP sponsored “National Symposium on Recent Trends in Chemical Sciences” (NSRTCS-2013) held during March 22-23, 2013 at Department of Chemistry, Manipur University, Canchipur, Imphal organized by Department of Chemistry, Manipur University.

**English Dept**

**Conference**

- 1.Bedana, Longjam and Sangeeta Laishram. “Identifying Self through Nature in North-East Indian Poetry”. International Conference on English Language and Literature (ICELL- 2014) Hyderabad, 18-19 January 2014.

**Journals:**

1. Bedana, Longjam and Dr. Sangeeta Laishram. “Reflection of African marriage and the culture of bride price in Buchi Emecheta’s novel The Bride Price”. *The Criterion: An International Journal in English*, Volume V, Issue III (June 2014).
- 2.Bedana, Longjam and Sangeeta Laishram. “Search for Identity and Home in Buchi Emecheta’s novel Second-Class Citizen”. *IOSR Journal of Humanities and Social Science*, Volume 19, Issue 5, Ver. VI (May 2014).

**1.2.1 Any other information not covered above (Industrial visit, extracurricular activities etc) for 2013-2014**

- A Faculty of the department visited IIT Guwahati from 13th June to 17th June 2013, for the purpose of laboratories set-up of NIT Manipur.

**5. SCHOLARSHIPS FOR SC, ST and HANDICAPPED  
Scholarship and Assistance**

SL. No.	Name of the Scholarship	Issuing authority
1	NEC	University and higher education, govt. of Manipur
2	Merit cum means	MOBC, govt. of Manipur
3	ST Post metric	Tribal Affairs and Hills

4	OBC post metric	MOBC, govt. of Manipur
5	IOCL	Indian Oil Cooperation Ltd.
6	Central Sector Top Class Scholarship for SC	Ministry of Social justice and empowerment, govt. of India
7	Central Sector Top Class Scholarship for ST	Ministry of Tribal Affairs, govt. of India
8	ST Scholarship post metric	State welfare Office, govt. of Bihar

## 6. CENTRALISED SERVICES

### 6.1 Training and Placements

The Institute’s Training and Placement Cell (T&P Cell) handles all issues related to students internship and final placements. The T&P Cell regularly organized industrial tour for the students thereby providing an opportunity to relate classroom teachings with reality. Workshops are also organized on regular basis thereby providing an interface between academic and industry. The T&P Cell is all geared up provide all possible assistance to the students for final placement.

### 6.2 Central Library

**Year of Establishment**

: the 4<sup>th</sup> March, 2011

**Strength of the staff**

:  
 04(02- library professional(One in regular, 3 in contract),  
 01 – non -professional)  
 : 05(Apprentice –professional)

- Entered in the Accession Register : 22650
- Yet to be entered : 400
- Yet to be arrived : 2700

**Subscription**

- E-Journal and E-books



**ONLINE JOURNALS AND ONLINE BOOKS AVAILABLE IN NITM**

<b>Elsevier eBooks 2013</b>	
<b>Subject Collection</b>	<b>Number of Journals</b>
<b>Computer Science</b>	415
<b>Engineering</b>	473
<b>Total</b>	<b>888</b>
<b>Springer eBooks 2013</b>	
<b>Computer Science</b>	2645
<b>Engineering</b>	1763
<b>Total</b>	<b>4408</b>
<b>CRC eBooks 2013</b>	
<b>Chemistry netbase</b>	125
<b>Computer Science netbase</b>	85
<b>ENGnetbase</b>	228
<b>Mathematics</b>	98
<b>Physics</b>	114
<b>Total</b>	<b>640</b>
<b>PEARSON eBooks 2014</b>	

<b>Computer Science, Engineering, Mathematics, Physics, General, Environmental studies, Business &amp; Economics</b>	<b>2173</b>
<b>Science Direct (5 subject collections) under NIT Consortium for year 2014</b>	
<b>Subject Collection</b>	<b>Number of Journals</b>
Chemistry	113
Computer Science	138
Engineering	227
Mathematics	101
Physics and Astronomy	113
<b>Total</b>	<b>692</b>
<b>Springer Online Journal Archive (5 Subject Collections)</b>	
Chemistry & Materials Science	107
Physics & Astronomy	89
Mathematics & Statistics	125
Engineering	112
Computer Science	94
Chemistry & Materials Science	107
<b>Total</b>	<b>527</b>

- Total number of online journal available in National Institute of Technology Manipur = **1219**
  - Total number of online Books available in National Institute of Technology Manipur = **8678**
- :
- Magazines : 22
  - Newspapers : 06(both national and local)
  - Internet connectivity : Available

### **Automation**

The Library is not yet automated but it is at the final stage.

### At a Glance

- The Library, under the illuminating guidance of the Competent Authorities in this short period of time, the Library NIT, Manipur has procured most of the basic Library equipments, furniture and stationary items.
- Those in the higher authority in the Institute are whole heartedly committed in the development of the Library in all possible ways.
- Library, NIT, Manipur, has a large scope of developing its service and provides the same to the users.
- Though Saturday is a holiday for the Institution, the library functions on Saturday for 2-3 hrs, except 2<sup>nd</sup> Saturday, in the interest of the institution in general and of the student community in particulars.
- So far, NIT Manipur, Library has organized two days National Workshop, 7 User Awareness cum Demonstration Programme on access to e-resources with subject experts from outside the State to enable both faculty and students of the Institution to use this facilities.
- The NITM Library, under the illuminating guidance of the Director, NITM, had organized a “Three Days (3<sup>rd</sup> to 5<sup>th</sup> October, 2013) BOOK Exhibition Programme” at NITM campus in which 12 book firms participated.

**Total no. of Volumes procured as on 31/03/12 : 19,315**

#### Subscription

- Magazines : 22
- Newspapers : 04(local)  
04 (National,both english and hindi)

#### 6.2.1 Staff in position- 03(on Contract)

Sl. No.	Name	Designation	Qualification	Remark
1.	Dr.Naorem Vidya vati Devi	Librarian	BSc, MLIS,CCCA,P GDCA, Ph.D	Published work- nearly 30 papers were published in Seminars/Conference Volumes, Journals (including both national and international), Local and Festschrift volume.
2.	Moirangthem Rakesh Singh	Library Assistant	MLIS, CCCA	Published Work- 2 papers (01 in bulletin and 01 in Conference Volume)
3.	Chanambam Victoria Devi	Library Attendant	BSC, PGDCA	—

### **6.2.2. At a Glance**

- During a short period of time, the Library NIT, Manipur has procured most of the basic Library equipments, furniture and stationary items.
- Those in the higher authority in the Institute are whole heartedly committed in the development of the Library in all possible ways.
- Library, NIT, Manipur, has a large scope of developing its service and provides the same to the users.
- In addition to the normal working hour, the Library keeps open for one more hour in all working days. This step is taken up, with the present limited library staff, in the interest of the student community.
- Though Saturday is a holiday for the Institution, the library functions on Saturday for 2-3 hrs, except 2<sup>nd</sup> Saturday, in the interest of the institution in general and of the student community in particulars.

### **6.3 Students Residential Facilities**

The Institute is a fully residential Institute. NIT Manipur is able to provide hostel accommodation to every student on twin sharing basis. The Institute has two Boys Hostels of which one is a two storey Boys Hostel. In addition a Girls Hostel is also located inside the Campus. Games and Sports facilities are provided inside the campus.

### **6.4 Students Mess**

The Institute runs a combined mess for the two boys' hostels and separate mess for the Girls Hostel. The two boys' hotels share a common Mess.

## 7.0 BOG and Finance Committee

### 7.1 Board of Governors

- |   |                              |
|---|------------------------------|
| 1. <b>Professor Dr.Y.S Rajan</b><br>Distinguished Professor in ISRO, Antariksh Bhavan, New BEL Road,<br>Bangalore | <b>Chairman</b>              |
| 2. <b>Dr.S.Birendra Singh,</b><br>Director NIT Manipur  | <b>Ex-Officio<br/>Member</b> |
| 3. <b>Joint Secretary</b><br>Technical Education, Depts. Higher Education MHRD                                    | <b>Member</b>                |
| 4. <b>Financial Adviser</b><br>Department of Higher Education MHRD  | <b>Member</b>                |
| 5. <b>Prof.Ch.Amuba Singh</b><br>Former Vice Chancellor, Manipur University                                       | <b>Member</b>                |
| 6. <b>Shri Khumanthem Devabrata Singh</b><br>Proprietor, M/S Bamboo & Allied Industries, Imphal                   | <b>Member</b>                |
| 7. <b>Prof. K.P Ghatak</b><br>Professor & HOD,NIT Agartala  | <b>Member</b>                |
| 8. <b>Dr. A Aumudeswari</b><br>Director, Indo-French Centre for Advanced Research , Lodhi Road , New<br>Delhi     | <b>Member</b>                |
| 9. Professor /Associate Professor/ Assistant Professor of the existing old<br>NITs                                | <b>Member</b>                |
| 10. Director IIT- Guwahati or his nominee, not below the rank of Professor  | <b>Member</b>                |
| 11. R.K.Lalit Singh,<br>Registrar, NIT Manipur  | <b>Secretary</b>             |

### 7.2 Finance Committee

- |  |                         |
|--|-------------------------|
| 1. Professor Dr.Y.S Rajan<br>Distinguished Professor in ISRO,  | <b>Chairman</b>         |
| 2. Director NIT Manipur, Ex-Officio  | <b>Member</b>           |
| 3. Joint Secretary dealing with Technical Education, Department of Higher<br>Education, MHRD, Govt. of India   | <b>Member</b>           |
| 4. Financial Advisor, Department of Higher Education MHRD, Govt. of India                                      | <b>Member</b>           |
| 5. Prof.Ch.Amuba Singh, Former Vice Chancellor, Manipur University<br>(Noimnated Member BOG)                   | <b>Member</b>           |
| 6. Shri Khumanthem Devabrata Singh, Proprietor, M/S Deva Bamboo &<br>Allied Industries (Nominated Member, BOG) | <b>Member</b>           |
| 7. Registrar, NIT Manipur  | <b>Member Secretary</b> |

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OFFICE OF THE PRINCIPAL ACCOUNTANT GENERAL (AUDIT)  
MANIPUR, IMPHAL-795 001

Confidential

Phone: 0385-2228523

Fax: 0385-2228525

E-mail: agaumanipur@cag.gov.in

*PAG (Au)/LAG-II/ SAR-NIT (2014-15)/2015-16/236*

*Dated: 09/02/2016*

To

**Director,  
National Institute of Technology (NIT), Manipur  
Takyelpat, Imphal.**

**Subject:** *Audit Report on the accounts of the National Institute of Technology, Manipur for the year 2014-15.*

Sir,

I enclose herewith the Audit Report on the Accounts of the National Institute of Technology, Manipur duly approved by the Comptroller and Auditor General of India for the year 2014-15 for necessary action at your end please. You are also requested to make necessary arrangements to submit the Audit Report to the concerned Ministry of Government of India under section 22 (4) of the National Institute of Technology Act, 2007. You are further requested to intimate to this office the date of placing of the Audit Report for the year 2014-15 before the Parliament. Arrangements may please be made to translate the Report in Hindi and to place the Report before the Parliament through the concerned Ministry. 10 (Ten) copies of the printed Report placed before the Parliament may be forwarded to this Office.

The Report may be kept confidential till it is placed before the Parliament.

*Yours faithfully,*

*Encl- As stated above*

*U. B. D.*  
*09/02/16*  
**Sr. Audit Officer/AMG-I**

**Memo No. LAG-II/ SAR-NIT (2014-15)/2015-16/237**

*Dated:09/02/2016*

Copy forwarded to:

The Under Secretary Department of Secondary and Higher Education, Ministry of Human Resource Development, Shastri Bhavan, New Delhi – 110 001 ( He is also requested to make necessary arrangements to place the Audit Report before the Parliament).

*/*  
**Sr. Audit Officer/ AMG-I**

**Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of  
National Institute of Technology, Manipur for the year ended 31 March 2015**

We have audited the attached Balance Sheet of National Institute of Technology, Manipur as on 31 March 2015 Income & Expenditure Account and Receipt and Payment Account for the year ended on that date under Section 19 (2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Service) Act 1971 read with Section 22(2) of the National Institute of Technology Act 2007. 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 and Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection 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, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provide 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 dealt with by this report have been drawn up in the format approved by the Ministry of Human Resource Development, Government of India.

iii. In our opinion, proper books of accounts and other relevant records have been maintained by the National Institute of Technology, Imphal as required under Section 22 (2) of the National Institute of Technology Act, 2007 in so far as it appears from our examination of such books.

iv. We further report that:

## A. Balance Sheet

### 1.1 Intangible Assets (Schedule:4)

#### Computer Software: ₹ 708.37 lakh

The above includes an amount of ₹4,22,075 being expenditure towards payment of annual recurring rental charge of Fibre for LAN network of 1 GBPS connectivity from NIT, Takyel to NIT, Langol campus. The amount was paid to BSNL, Manipur vide cheque No. 052573 dated 24.9.2014.

Since the expenditure is of revenue nature, this should have been charged to Income & Expenditure Account. This has resulted in overstatement of Intangible Assets (Computer Software) by ₹ 4.22 lakh with corresponding understatement of deficit for the year to the same extent.

### 1.2 Intangible Assets (Schedule:4)

#### Computer Software

Additions during the year: ₹1121.80 lakh

Additions to Computer Software includes an amount of ₹ 847,97,084 being expenditure incurred on purchase of various Scientific equipments/Computer Networking equipments etc. as shown under:

Sl.	Name of Firm/Supplier	Particulars	Amount (in ₹)
1	Powai Labs Technology Pvt. Ltd.	Image Reconfigurable computing lab	418,95,000
2	NetCom Solutions	Cabling products-UTP &Fibre Optic, Networking tools e.c.	69,70,974
3	-Do-	Equipments for Internet/Networking	133,49,990
4	-Do-	Networking equipments for Campus area Networking	225,81,120
<b>Total</b>			<b>847,97,084</b>

However, the above expenditure has been shown under Intangible Assets (Computer Software). This has resulted in overstatement of Intangible Assets (Computer Software) by ₹847.97 lakh with corresponding understatement of Tangible Assets (Scientific and Laboratory equipments) to the same extent. Thus, depreciation is overstated by ₹ 169.59 lakh (depreciation has been charged at 40% whereas it should have been charged at 20% only).

### 1.3 Capital Work in Progress (Schedule:4E): ₹ 11893.90 lakh

The above includes an amount of ₹ 1186.93 lakh released to one Construction agency (Education Engineering Wing) in respect of seven numbers of construction works as detailed below:

Sl. No.	Name of works	Amount (in ₹)
1	C/o Surface Water Reservoir	25,00,000
2	Land Development	5,00,00,000

3	C/o Compound fencing on western side 804m and North Eastern side for the portion 0 to 1068 (Phase-II fencing)	3,61,93,000
4	Land Development (1 <sup>st</sup> Warden/supervisor/Barrack)	45,00,000
5	Compound fencing (Phase-III)	40,00,000
6	Land development for 2 <sup>nd</sup> group Warden quarter-1 No., Barrack and Supervisor quarter	35,00,000
7	C/o Playground 90X130	1,80,00,000
	<b>Total</b>	<b>11,86,93,000</b>

The above works have been completed as of December 2014. However, these were shown as Capital Work in Progress instead of Building in the Balance Sheet. This has resulted in overstatement of Capital Work in Progress by ₹ 1186.93 lakh with understatement (non disclosure) of Building in the Balance Sheet to the same extent. Thus the depreciation is understated by ₹ 23.74 lakh.

#### 1.4 Tangible Assets (Schedule:4A)

##### Computers: ₹ 262.35 lakh

The above includes an amount of ₹ 28,90,416 being expenditure incurred on purchase of office equipments/Lab. equipments as shown under:

Sl.	Name of firm	Particulars	Amount (in ₹)
1	M/S Converge System & Service Pvt. Ltd. Guwahati	Video Conferencing Room system	18,37,214
2	M/S Penta Enterprises, Imphal	Ricoh Digital Copier	2,47,152
3	-Do-	-Do-	3,57,210
4	M/S Techno Systems, Guwahati	Digital Signal Processing Lab.	4,48,840
		<b>Total</b>	<b>28,90,416</b>

The expenditure on purchase of Video Conferencing Room system and Digital Copiers (₹ 24,41,576) should have been shown under General equipments while expenditure on purchase of Digital Signal Processing Lab. (₹ 4,48,840) should have been shown under Lab. Equipment.

This has resulted in overstatement of Computer by ₹ 28,90,416 with corresponding understatement of General Equipment by ₹ 24,41,576 and Lab. Equipment by ₹ 4,48,840. Thus the depreciation on Computer is overstated by ₹ 5.78 lakh and depreciation on office/general equipment same laboratory equipment are under understated by ₹ 1.83 lakh and ₹0.36 lakh respectively.

#### 1.5 Tangible Assets (Schedule:4A)

##### Electrical Equipment: ₹ 72.75 lakh

The above includes an amount of ₹ 8,88,516 being expenditure incurred on payment of consultancy charges for preparation of Tender Documents for electrification works of NIT, Manipur. The same should have been treated as Capital work in progress.

This has resulted in overstatement of Electrical Equipment by ₹ 8.89 lakh with corresponding understatement of Capital work in Progress by the same amount.

#### 1.6 Tangible Assets (Schedule:4A)

##### Workshop/Lab. Equipment: ₹ 2788.06 lakh

The above includes an amount of ₹ 5,63,428 being expenditure incurred on conducting training programme on Microcontrollers and Power electronics.

The above expenditure incurred on conducting training programme are of revenue nature. Hence, these should have been charged to Income & Expenditure account instead of capitalizing it in the Balance Sheet.

This has resulted in overstatement of Workshop/Lab equipment by ₹ 5.63 lakh with corresponding understatement of deficit for the year to the same extent.

#### B. Income and Expenditure Account

##### 2.1 Depreciation (Schedule: 4): ₹ 1078.36 lakh

The above amount of depreciation for the year 2014-15 was understated by ₹ 14,58,581 due to less provision for depreciation on Computer, Computer Software and E-Books & Journals as shown below:

(Amount in ₹)

Sl. No.	Particulars of Assets	Amount qualifying for depreciation	Rate	Depreciation to be provided	Depreciation provided in accounts	Less provision for depreciation
1	Computers	3,68,20,436	20%	73,64,087	70,40,470	3,23,617
2	Computer Software	80,40,673	20%	16,08,135	5,23,31,789	4,02,034
		12,78,14,220	40%	5,11,25,688		
3	E-Books & Journals	1,46,58,599	20%	29,31,720	1,54,16,540	7,32,930
		3,30,44,375	40%	1,32,17,750		
<b>Total</b>				<b>762,47,380</b>	<b>747,88,799</b>	<b>14,58,581</b>

This has resulted in understatement of deficit for the year by ₹14,58,581 with corresponding overstatement of Fixed Assets in the Balance Sheet to the same extent.

##### 2.2 Repair and Maintenance (Schedule 17) : ₹ 47.83 lakh

The above does not include an amount of ₹ 6,86,636 being expenditure incurred on purchase of various consumable electrical items.

Since the expenditure incurred on purchase of consumable items are of revenue nature, these should have been charged to Income & Expenditure Account. However, the above expenditure have been capitalized in the Balance Sheet.

This has resulted in understatement of deficit for the year by ₹ 6.87 lakh with corresponding overstatement of Electrical Equipment to the same extent.

## C. General

### 3.1 Effect of audit comments on the accounts

The net impact of the audit comments is that Fixed Assets as on 31 March 2015 is understated by ₹ 1146.73 lakh, whereas the deficit for the year is overstated by ₹ 109.25 lakh.

### 3.2 Non-exhibition of value of land in the Balance Sheet

As per Formats of Financial Statements for Central Higher Educational Institutions, gifted/donated assets are valued at the declared value where available; if not available, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset. They are set up by credit to Capital Fund and merged with the Fixed Assets of the Institution.

The Government of Manipur, in January 2011, allotted an area measuring 138.20 hectares in the name of National Institute of Technology (NIT), Manipur. However, the value of land was not exhibited in the Balance Sheet of the Institute.

## D Grants-in-Aid

The Institute utilized the entire grants-in-aid of ₹ 95.00 crore received during the year.

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

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

- a. In so far as it relates to the Balance Sheet, the state of affairs of National Institute of Technology, Manipur as on 31 March 2015; and
- b. In so far as it relates to the Income & Expenditure Account of the deficit for the year ended on that date.

Place: Imphal

Date:

For and on behalf of the C&AG of India



Principal Accountant General (Audit), Manipur, Imphal

## Annexure to Audit Report

### 1 Adequacy of Internal Audit System

The Institute does not have its own Internal Audit Wing during the year 2014-15. Existence of an Internal Audit Wing is considered essential for effective control of the financial affairs of the Institute.

### 2 System of Physical verification of Fixed Assets:

Rule 190(2) of General Financial Rules stipulates that separate accounts shall be kept for Fixed Assets, such as, plant, machinery, equipment, furniture, fixtures etc. in the Form GFR-40. However, the Institute did not maintain the Fixed Assets Register as per Form GFR-40.

As per Rule 192, Fixed assets should be verified at least once in a year and the outcome of the verification recorded in the corresponding register. Discrepancies, if any, shall be promptly investigated and brought to account.

The physical verification of Fixed Assets was, however, not conducted during the year 2014-15.

### 3 Payment of Statutory Dues:

The Institute was not regular in payment of statutory dues as on 31.3.2015. The following balances were lying pending for payment as on 31.3.2015:

(Amount in ₹)

Particulars	Amount payable	Amount actually paid	Amount remaining unpaid as on 31 March	
			Outstanding for less than 6 months	Outstanding for more than 6 months
Pension contribution	30,25,358	4,47,162	16,66,545	9,11,651
Provident Fund	78,000	72,000	6000	-
Income Tax	13,78,775	13,69,775	9000	-
Sales Tax	6064	-	-	6064
Any other Statutory Dues	17,86,723	-	17,05,607	81,116

### 4 Adequacy of Internal Control System

The Internal Control System in the Institute is weak as there are instances of delay in settlement of advances, non-payment of statutory dues in time and absence of physical verification of Fixed Assets, non-existence of internal audit wings etc.

### 5. System of Physical Verification of Inventory:

Physical Verification on the inventories was not done during 2014-15.

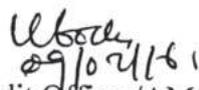
*Agarwal*  
9.2.2016  
Deputy Accountant General (Audit)

**Net impact of Audit Comments**

( ₹ in lakh)

Sl. No.	Para No.	Particulars	Fixed Assets		Deficit for the year	
			Overstated	Understated	Overstated	Understated
1	1.1	Annual recurring rental charge capitalized in the Balance Sheet	4.22	-	-	4.22
2	1.2	Hardware items included in software	-	-	169.60	-
3	1.3	Completed building shown under Work in Progress	-	1186.93	-	23.74
4	1.4	Misclassification of Fixed Asset	-	-	3.59	
5	1.5	Consultancy charge capitalized in the Balance Sheet	8.89	-	-	8.89
6	1.6	Expenditure on training programme capitalized in the Balance Sheet	5.63	-	-	5.63
7	2.1	Understatement of Depreciation	14.59	-	-	14.59
8	2.2	Purchase of consumable items capitalized in the Balance Sheet	6.87	-	-	6.87
			40.20	1186.93	173.19	63.94

The net impact of the audit comments is that Fixed Assets as on 31 March 2015 is understated by ₹ 1146.73 lakh, whereas the deficit for the year is overstated by ₹ 109.25 lakh .

  
 Sr. Audit Officer/AMG-I

राष्ट्रीय प्रौद्योगिकी संस्थान, मणिपुर

**NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR**



**ACCOUNT STATEMENT**

**2014-15**



**NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR**

**BALANCE SHEET AS AT 31.3.2015**

SOURCES OF FUND	Schedule	Current Year	Previous Year
1 CAPITAL FUND	1	1,647,471,174.65	844,968,092.08
2 Designated / Earmarked/ Endowment Funds	2	-	-
3 Current Liabilities & Provisions	3	156,771,234.01	153,974,165.01
		<b>1,804,242,408.66</b>	<b>998,942,257.09</b>
<b>APPLICATION OF FUNDS</b>			
1 Fixed Assets	4		
a) Tangible Assets		381,033,228.00	153,234,271.00
b) Intangible assets		91,524,095.00	27,085,006.00
c) Capital Work in Progress		1,189,390,393.00	571,293,000.00
2 Investments from Earmarked/ Endowment Funds	5		
a) Long Term		-	-
b) Short Term		-	-
3 Investments - Others	6	10,000,000.00	-
4 Current Assets	7	121,720,417.86	232,580,487.12
5 Loans & Advances	9	10,628,174.80	14,749,492.97
		<b>1,804,242,408.66</b>	<b>998,942,257.09</b>

Significant Accounting Policies 23 -  
 Contingent liabilities & Notes on Account 24

  
 Accountant  
 National Institute of Technology,  
 Manipur

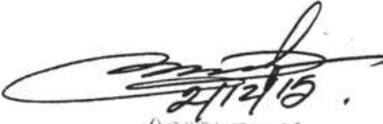
  
 Draw and Disburse Officer (DDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

**NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR**

**INCOME AND EXPENDITURE FOR THE YEAR 2014-15**

<b>INCOME</b>	<b>Schedule</b>	<b>Current Year</b>	<b>Previous Year</b>
1 Academic Receipts	9	21,972,150.00	13,652,600.00
2 Grant & Subsidies :			
a) Received	10	950,000,000.00	635,087,000.00
b) Add : Opening balance available for Revenue Exp		93,355,815.08	0
c) Less : Capital Expenses		1,013,137,075.00	544,160,000.00
d) Balance available for Revenue Exp		30,218,740.08	90,927,000.00
3 Income from Investment	11	2,756,753.40	6,833,910.00
4 Interest Earned	12	3,969,389.00	4,614,027.00
5 Other Income	13	2,902,857.00	476,955.00
6 Prior Period Income	14	0	0
Total (A)		<b>61,819,889.48</b>	<b>116,504,492.00</b>
<b>EXPENDITURE</b>			
1 Staff Payment & Benefit ( Establishment Exp)	15	42,034,839.00	21,176,986.00
2 Academic Expenses	16	9,208,341.00	2,761,278.50
3 Administrative & General Expenses	17	18,366,264.23	19,485,345.02
4 Transport Expenses	18	1,562,109.00	880,731.40
5 Repair & Maintenance	19	4,782,575.00	23,225,321.00
6 Finance Cost	20	32,035.60	-
7 Depreciation			
a) Depreciation for the year (SLM)	4	107,836,256.00	36,806,907.00
b) Excess Depreciation in the previous years adjusted	4	-5,034,620.00	
8 Other Expenses	21	-	
9 Prior Period exp	22	310,267.00	-
Total (B)		<b>179,098,066.83</b>	<b>104,336,568.92</b>
Balance being excess of income over Expenditure			12,167,923.08
BALANCE being the excess of expenditure over income		(117,278,177)	-
Transfer to/ from designated Fund		-	-
Building Fund		-	0
Others (Specify)		-	0
Balance being Surplus (Deficit) carried to Capital Fund		(117,278,177)	12,167,923.08

  
 Accountant  
 National Institute of Technology  
 Manipur

  
 Draw and Disburs Officer (DDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

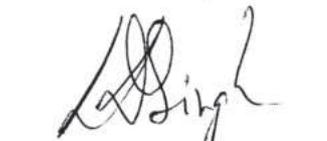
**NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR**

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.3.2015**

**SCHEDULE -1 : CORPUS/ CAPITAL FUND**

	Current Year	Previous Year
1 Balance as at the beginning of the year	844,968,092.08	288,640,169.00
2 Add : Contribution towards Capital Fund	-	
3 Add : Grants from Government of India to the extent utilised for Capital Expenses	1,013,137,075.00	544,160,000.00
4 Add : Assets purchased out of Earmarked Funds	-	
5 Add : Assets purchased out of Sponsored Projects where Ownership vests in the Institute	-	
6 Add : Assets Donated / Gifts Received	-	
7 Add : Other Additions	-	
8 Less : Revenue Expenditure considered out of the Grant	(93,355,815.08)	
9 Add : Excess of Income over Expenditure transferred from Income and Expenditure Account	-	
10 Deduct : Deficit transferred from Income and Expenditure Account	(117,278,177)	12,167,923.08
11 Balance at the end of the year	<u>1,647,471,174.65</u>	<u>844,968,092.08</u>

  
 Accountant  
 National Institute of Technology  
 Manipur

  
 Draw and Disbursal Officer (DDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR

SCHEDULE -2 : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

	Current Year	Previous Year
<b>A</b>		
a) Opening Balance of the funds		
b) Additions during the year		
c) Income from Investments made of the the funds		
d) Accrued Interest on Investments/ Advances		
e) Interest on Savings Bank Account		
f) Other Additions (specify)		
(i) Subscriptions & recovery of advance		
(ii) Interest on SB a/c		
<b>TOTAL (A)</b>		
<b>B</b>		
Utilisation / Expenditure towards objectives of fund		
i) Capital Expenditure		
ii) Revenue Expenditure		
<b>TOTAL (B)</b>		
<b>Closing balance at the end of the year (A-B)</b>		
<b>Represented by</b>		
a) Cash and Bank Balance		
b) Investments		
c) Interest Accrued but not due		
d) Others (Specify)		
<b>TOTAL</b>		

  
21/12/15  
Accountant  
National Institute of Technology  
Manipur

  
Officer and Disbursing Officer (DDO)  
National Institute of Technology  
Manipur

  
Registrar  
National Institute of Technology  
Manipur

SCHEDULE 2 A

ENDOWMENT FUNDS

Sub- Schedule to support the figures in the column "Endowment Funds" in the Schedule 2 forming part of the Balance Sheet

Sl	Name of the Endowment	Opening Balance		Addition During the Year		Total		Expenditure on the object during the year	Closing Balance		Total
		Endowment	Accumulated Interest	Endowment	Interest	Endowment	Accumulated Interest		Endowment	Accumulated Interest	
1	2	3	4	5	6	7 = (3+5)	8 = (4+6)	9	10	11	(10+11)
	NIL	NIL	NIL	NIL	NIL						

6 Supported by

Cash at bank

Investment in Bank STDR

Reinvested Interest

Accrued Interest but not due

Int. Receivable from SBI(TDS)

Receivable -Corpus Fund

Total

Less : Liabilities

  
21/12/12

Registrar  
National Institute of Technology  
Manipal



Registrar  
National Institute of Technology  
Manipal

  
Registrar  
National Institute of Technology  
Manipal

## NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR

### SCHEDULE-3 : CURRENT LIABILITIES & PROVISIONS

		Current Year	Previous Year
<b>A CURRENT LIABILITIES</b>			
1	Deposit from Staff	-	-
2	Deposits from Students <span style="float: right;">Student Security Caution deposit</span>	2,570,000.00	1,755,000.00
3	Sundry Creditors		
	a) For Goods & services	47,522,646.00	21,870,065.00
	b) Others (CSAB)	477,911.00	625,740.00
4	Deposit Others (including Earnest Money & Security Deposit)	20,877,717.00	5,824,770.00
5	Statutory Liabilities(GPF, TDS, WC Tax, CPF, GIS, NPS)		
	a) Taxes and others	1,800,267.89	1,863,478.89
	b) Others : deduction awaiting remittance	2,585,716.00	424,449.00
6	Other Current Liabilities		
	a) Salary/ Pension/ NPS	243,672.00	243,672.00
	b) Receipts against sponsored projects	-	
	c) Receipts against sponsored fellowship & scholarships	-	502,516.00
	d) Unutilised grants	814,054.00	372,409.00
	e) Grants in advance	-	
	f) Refundable & Payables		
	g) Other liabilities		
	(i) for Expenses	5,555,573.00	5,097,597.00
	(ii) Other Liability		
	(iii) Cheque issued in excess of balance with SBI	68,785,171.12	115,300,462.12
	<b>TOTAL (A)</b>	<b>151,232,728.01</b>	<b>153,880,159.01</b>
<b>B PROVISIONS</b>			
1	For Taxation		
2	Gratuity	1,480,945.00	-
3	Supereannuation/ Pension	-	-
4	Leave & Pension Contribution	1,028,825.00	-
6	Accumulated Leave Encashment	3,028,736.00	94,006.00
7	Trade Warrantees/ Claims	-	-
8	Others (Specify)	-	-
	<b>Total (B)</b>	<b>5,538,506.00</b>	<b>94,006.00</b>
	<b>Total (A+B)</b>	<b>156,771,234.01</b>	<b>153,974,165.01</b>

  
 21/2/15  
 Accountant  
 National Institute of Technology  
 Manipur

  
 Cash and Disbursal Officer (CDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR

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

	Current Year	Previous Year
<b>A Plan Grants : Government of India</b>		
Balance brought forward	-	
Add : Receipts during the year	950,000,000.00	635,000,000.00
Total (a)	950,000,000.00	635,000,000.00
Less : Refunds	-	
Less : Utilised for Revenue Expenditure		90,840,000.00
Less : Utilised for Capital expenses	1,013,137,075.00	544,160,000.00
Total (b)		
Unutilised Carried Forward (a-b)	NIL	NIL
<b>B Grants from State Government</b>		
Balance brought forward	NIL	NIL
Add : Receipts during the year		
Total (c)		
Less : Refunds		
Less : Utilised for Revenue Expenditure		
Less : Utilised for Capital expenses		
Total (d)		
Unutilised Carried Forward (c-d)	NIL	NIL

Note :

Unutilised grants includes advances on capital account

Unutilised grants include grants received in advance for the next year

Unutilised grants are represented on the Assets side by Bank balances, short term Deposits with banks and Advances on capital account

  
 Accountant  
 National Institute of Technology  
 Manipur

  
 Draw and Disburse Officer (DDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

**SCHEDULE -3 (a) SPONSORED PROJECTS**

SI No	Name of the project	Opening balance		Receipts/ Recoveries during the year	Total	Expenditure During the year		Closing balance		Previous Year
		Credit	Debit			Credit	Debit			
	DST Project - Basic Science	103,315.00	-	130,000.00	233,315.00	77,290.00	156,025.00	-	103,315.00	
	DST Project - Civil Dept	-	-	698,291.00	698,291.00	353,328.00	344,963.00	-	-	
	Total	103,315.00	-	828,291.00	931,606.00	430,618.00	500,988.00	-	103,315.00	
	DASA	50,000.00	-	100,000.00	150,000.00	-	150,000.00	-	50,000.00	
	NMEICT	219,094.00	-	16,000.00	235,094.00	72,028.00	163,066.00	-	219,094.00	
	Total	269,094.00	-	116,000.00	385,094.00	72,028.00	313,066.00	-	269,094.00	
	Total	372,409.00	-	944,291.00	1,316,700.00	502,646.00	814,054.00	-	372,409.00	

**SCHEDULE -3 (b) SPONSORED FELLOWSHIP AND SCHOLARSHIPS**

SI No	Name of the project	Opening balance		Receipts/ Recoveries during the year	Total	Expenditure During the year		Closing balance		Previous Year
		Credit	Debit			Credit	Debit			
		NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	

  
5/12/15



Registrar  
National Institute of Technology  
Manipal

Dean and General Officer (NIT)  
National Institute of Technology  
Manipal

**NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR**

**SCHEDULE - 4A: PLAN**

Sl	ASSETS	GROSS VALUE			DEPRECIATION				NET BLOCK			
		Opening Balance 1.4.2014	Additions	Deduction/ sold/ discarded	Closing balance 31.3.2015	Rate %	Opening balance	Depreciation for the year	Excess (short) Depreciation adjusted	Total Depreciation	31.3.2015	31.3.2014
<b>4A</b>	<b>Tangible assets</b>											
1	Electrical Equipment	2,758,586	5,301,372		8,059,958	5%	987,528	402,998	605,927	784,599	7,275,359	1,771,058
2	Computers	10,324,692	26,495,744		36,820,436	20%	7,411,357	7,040,470	3,866,626	10,585,201	26,235,235	2,913,335
3	General Equipment	13,761,278	863,824		14,625,102	7.5%	5,205,423	1,096,883	2,177,908	4,124,398	10,500,704	8,555,855
4	Books	14,688,931	7,232,487		21,921,418	10%	2,688,103	2,192,142	827,420	4,052,825	17,868,593	12,000,828
5	Workshop/ Lab Equipment	128,098,484	186,522,611		314,621,095	8%	19,843,333	25,169,688	9,198,045	35,814,976	278,806,119	108,255,151
6	Sports Equipment	729,660	-		729,660	7.5%	418,110	54,725	252,251	220,584	509,076	311,550
7	Furniture & Fixture	19,693,345	20,891,653		40,584,998	7.5%	2,823,522	3,043,875	606,525	5,260,872	35,324,126	16,869,823
8	Vehicles	1,625,314	1,847,836		3,473,150	10%	793,153	347,315	305,560	834,908	2,638,242	832,161
9	Other Assets	2,215,880	19,351		2,235,231	7.5%	491,370	167,642	299,555	359,457	1,875,774	1,724,510
	<b>Total (A)</b>	<b>193,896,170</b>	<b>249,174,878</b>	<b>-</b>	<b>443,071,048</b>		<b>40,661,899</b>	<b>39,515,738</b>	<b>18,139,817</b>	<b>62,037,820</b>	<b>381,033,228</b>	<b>153,234,271</b>
<b>4C</b>	<b>Intangible Assets</b>											
10	Computer Soft ware	23,674,964	112,179,929		135,854,893	40%	6,021,501	52,331,789	(6,664,754)	65,018,044	70,836,849	17,653,463
11	E- Books & Journal	14,658,599	33,044,375		47,702,974	40%	5,277,096	15,416,540	(6,449,794)	27,143,420	20,559,554	9,381,503
	<b>Total (C)</b>	<b>38,333,563</b>	<b>145,224,304</b>	<b>-</b>	<b>183,557,867</b>		<b>11,298,597</b>	<b>67,748,329</b>	<b>(13,114,538)</b>	<b>92,161,464</b>	<b>91,396,403</b>	<b>27,034,966</b>
<b>4C (1)</b>												
12	Patent	66,720	85,000		151,720	11%	16,680	16,689	9,341	24,028	127,692	50,040
<b>4D</b>	<b>Assets under 100% Depreciation</b>											
	<b>Total (A+B+C)</b>	<b>232,296,453</b>	<b>395,039,682</b>	<b>-</b>	<b>627,336,135</b>		<b>51,977,176</b>	<b>107,836,256</b>	<b>5,034,620</b>	<b>154,778,812</b>	<b>472,557,323</b>	<b>180,319,277</b>
	<b>Previous Year</b>	<b>60,283,575</b>	<b>172,012,878</b>	<b>-</b>	<b>232,296,453</b>		<b>15,170,269</b>	<b>36,806,907</b>	<b>-</b>	<b>51,977,176</b>	<b>180,319,277</b>	<b>45,113,306</b>

**SCHEDULE - 4 E : CAPITAL WORK IN PROGRESS**

	Opening	Addition during	Total 31.3.2014
1 Work Deposit with P.W.D. for Construction Works	295,000,000	270,000,000	565,000,000
2 Education Dept : Engg Wing	276,193,000	347,788,412	623,981,412
3 Architect / Consultancy Fee	100,000	308,981	408,981
<b>Total</b>	<b>671,193,000</b>	<b>618,097,393</b>	<b>1,189,390,393</b>
<b>Total (c)</b>			
<b>Grand Total (A+B+C)</b>			<b>1,013,137,075</b>
			<b>1,013,137,075</b>


  
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SCHEDULE -5 : INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS

	Current Year	Previous Year
<b>A Long Term Investments</b>		
1 In Central Government Securities	NIL	NIL
2 In State Government Securities	-	-
3 Other Approved Securities	-	-
4 Shares	-	-
5 Debenture & Bonds	-	-
6 Term Deposits with BankS	-	-
7 Others	-	-
Total	NIL	NIL

SCHEDULE -5(A) : INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS (FUNDWISE)

Current Year	Previous Year
NIL	NIL

SCHEDULE 6 - INVESTMENT OTHERS

- 1 In Central Government Securities
  - 2 In State Government Securities
  - 3 Other Approved Securities
  - 4 Shares
  - 5 Debenture & Bonds
  - 6 Others ( to be specified)
- Mutual Fund - ICICI Prudential  
at Carrying cost

10,000,000.00	
10,000,000.00	-

Note : NAV as on 31.3.2015 not available and hence accrued interest if any not accounted

  
 Accountant  
 National Institute of Technology  
 Manipur

  
 Finance Officer (DDO)  
 National Institute of Technology  
 Manipur

  
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SCHEDULE 7- CURRENT ASSETS

Current Year Previous Year

1 Stock :

- a) Stores and spares
- b) Loose Tools
- c) Publications
- d) Laboratory Chemicals, Consumables & Glasswares
- e) Building materials
- f) Electrical Materials
- g) Stationery
- h) Water Supply materials

2 Sundry Debtors

- a) Debts Outstanding for a period exceeding six months
- b) Others Receivable fee

3 Cash balances in hand(including cheques/ drafts and imprest) and remittance in transit

235,399.00 50,338,451.00

4 Bank Balances ( to be further classified as pertaining to earmarked fund or otherwise)

a) With Scheduled Banks

in Current Accounts

97,113,938.86 60,151,300.12

in Term Deposit Accounts

17,116,107.00 117,022,652.00

in Savings Accounts

7,201,073.00 5,068,084.00

b) With Non-Scheduled Banks

in Current Accounts

-

in Term Deposit Accounts

-

in Savings Accounts

-

5 Post Office - Savings Accounts

-

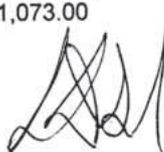
121,720,417.86 232,580,487.12

ANNEXURE : Details of Bank Accounts

	Current Year 2014-15		Previous Year	
	Current Deposit	Savings Bank		
ICICI Bank Ltd	66,973,703.46		60,151,300.12	
PNB		90,657.00		90,657.00
Syndicate Bank	30,140,235.40		-	
BOI	-	910,735.00		458,189.00
Canara SB	-	647,516.00		587,757.00
CBI	-	5,552,165.00		3,931,481.00
	<u>97,113,938.86</u>	<u>7,201,073.00</u>	<u>60,151,300.12</u>	<u>5,068,084.00</u>
				65,219,384.12

  
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Manipur



Registrar  
National Institute of Technology  
Manipur



Registrar  
National Institute of Technology  
Manipur

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SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

Current Year Previous Year

<b>1 Advances to Employees</b>		
a) Salary		
b) Festival		
c) Medical Advance		
d) Others ( to be specified)		
(i) LTC		
(ii)		
<b>2 Long Term Advances to Employees ( interest bearing)</b>		
a) Vehicle Loan		
b) Home Loan		
c) Others ( to be specified)		
<b>3 Advances and other amounts recoverable in cash or in kind or for value to be received</b>		
a) On Capital Account	4,485,893.35	12,390,698.52
b) to Suppliers	213,735.00	
c) Others	5,874,646.45	2,247,865.45
<b>4 Prepaid Expenses</b>		
a) Insurance		
b) Other Expenses		
<b>5 Deposits</b>		
a) Telephone	-	
b) Lease Rent	-	
c) Electricity	-	
d) AICTE (if applicable)	-	
e) Others ( to be specified)	-	
<b>6 Income Accrued</b>		
a) On investments from Earmarked / Endowment Funds	-	
b) On Investments Others	-	
c) Loans & Advances	-	
d) Others - Student Fees	53,900.00	110,929.00
includes income due unrealised		
<b>7 Other - Current Assets Receivables from Sponsored Projects</b>		
a) Debit balances in sponsored Projects		
b) Debit Balances in Fellowship & scholarship		
c) Grants Receivable		
d) Other Receivables from UGC		
<b>8 Claims receivable</b>		

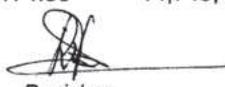
Total (1 to 8)

10,628,174.80

14,749,492.97

  
 Controller of Examinations  
 National Institute of Technology  
 Manipur

  
 Law and General Officer (GDO)  
 National Institute of Technology  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

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SCHEDULE -9 : ACADEMIC RECEIPTS

CURRENT YEAR PREVIOUS YEAR

FEE FROM STUDENTS

**A Academic**

1. Tuition Fee	16,117,500.00	8,467,400.00
2. Admission fee	273,200.00	115,000.00
3. Enrolment Fee	-	-
4. Library Admission Fee	-	-
5. Laboratory Fee	26,400.00	-
6. Institutional Development Fee	1,625,000.00	-
7. Registration Fee	25,000.00	-
8. Other Academic Fee	1,154,600.00	1,817,000.00
<b>Total (A)</b>	<b>19,221,700.00</b>	<b>10,399,400.00</b>

**B Examinations**

1. Admission Test Fee	-	-
2. Annual Examination Fee	781,200.00	322,500.00
3. Mark Sheet, Certificate etc	79,500.00	56,400.00
4. Entrance Examination Fee	-	-
<b>Total (B)</b>	<b>860,700.00</b>	<b>378,900.00</b>

**C Other Fees**

1. Identity Card Fee	101,000.00	64,400.00
2. Fine and Misc Fee	131,500.00	96,000.00
3. Medical Fee	555,000.00	392,400.00
4. Transportation Fee	-	-
5. Hostel Fee	78,500.00	1,635,000.00
6. Affiliation & Recognition Fee	-	-
7. Student activity, Sports, Arts & Culture	899,000.00	652,000.00
<b>Total (C)</b>	<b>1,765,000.00</b>	<b>2,839,800.00</b>

**D Sale of University publication etc**

1. Sale of Admission Forms	80,650.00	34,500.00
2. Sale of Syllabus & Question Paper	-	-
3. Sale of Prospectus including admission forms	44,100.00	-
<b>Total (D)</b>	<b>124,750.00</b>	<b>34,500.00</b>

**E Other Academic Receipts**

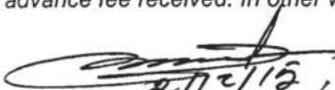
1. Registration fee for workshops programmes	-	0
2. Registration fee (Academic Staff College)	-	0
<b>Total (E)</b>	<b>-</b>	<b>0</b>

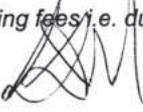
GRAND TOTAL (A+B+C+D+E)

21,972,150.00 13,652,600.00

Note :

- None of the fees received is in the nature of capital receipts and hence not capitalised
- The academic year / period for which the fees are collected does not coincide to financial year. The income is recognised on actual basis and any fee received for the period covering beyond the financial year is not treated as advance fee received. In other way the outstanding fees i.e. due but not received are not recognised as income.

  
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National Institute of Technology  
Manipur

  
Registrar  
National Institute of Technology  
Manipur

  
Registrar  
National Institute of Technology  
Manipur

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**SCHEDULE -10 : GRANTS /SUBSIDIES (Irrevocable Grants & Subsidies Received)**

	Govt of India	
Balance brought forward *	93,355,815.08	
Add: Receipts during the year	950,000,000.00	635,000,000.00
Total	1,043,355,815.08	635,000,000.00
Less : Refunds	0	
Balance brought forward		
Less : Utilised for Capital Expenditure(A)	1,013,137,075.00	544,160,000.00
Balance brought forward		
Less : Utilised for Revenue Expenditure (B)	30,218,740.08	90,840,000.00
Balance ( C ) - Carried forward	0	0
Other grant from other sources		87,000.00
	30,218,740.08	90,927,000.00

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

B Appears as Income and Expenditure Account

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 the Asset side

\* brought forward balance has been calculated as under ( as on 31.3.2014)

Closing Cash & bank balance (31.3.2014)	232,580,487.12
Add : Loans & Advances	14,749,492.97
Total Current Assets	247,329,980.09
Less : Current Liabilities	
a) Cheque issued in excess of balance	115,300,462.12
b) Restricted Fund	372,409.00
c) Current Liabilities	38,301,293.89
Balance of Fund	93,355,815.08

  
 Accountant  
 National Institute of Technology,  
 Manipur

  
 Draw and Disbursal Officer (DDO)  
 National Institute of Technology,  
 Manipur

  
 Registrar  
 National Institute of Technology  
 Manipur

NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR

**SCHEDULE -11 : INCOME FROM INVESTMENTS**

1 Interest		
a) On Govt securities		
b) Other Bonds/ Debenture		
c) Others : Mutual Funds		
d) Mutual Fund Investments		
Less : transfer to designated fund accounts		
2 Interest on Term deposits	2,756,753.40	6,833,910.00
3 Income accrued but not due on Term Deposits/ Interest bearing advances to employees ( where Revolving Fund has been constituted)	-	
4 Interest on Savings Bank Accounts	-	
5 Others (Specify)	-	
	<hr/>	<hr/>
	2,756,753.40	6,833,910.00

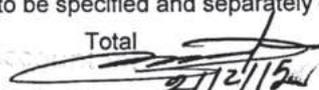
**SCHEDULE 12 : INTEREST EARNED**

1 On Savings bank Accounts with Schedule Banks	3,969,389.00	4,614,027.00
2 On Loans	-	
a) Employees ( if Revolving Funds have not been constituted for such advance)		
b) Others	-	
3 On Debtors and Other Receivables		
Total	<hr/>	<hr/>
	3,969,389.00	4,614,027.00
Note		

Amount against item No. 1 in respect of Earmarked / Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 2.

**SCHEDULE -13 : OTHER INCOME**

Income from Land & Buildings		
1. Hostel Room Rent	1,963,968.00	
2. License and Permit Fee	-	
3. Hire Charge of Auditorium/Play ground/ Convention Centre etc	-	
4. Electricity & Water Charges recovered	305,000.00	
5. Quarter Rent	259,979.00	164,585.00
6. Guest House Earning	-	
Total	<hr/>	<hr/>
	2,528,947.00	164,585.00
7. Sale of Institute's Publication (included under schedule 9-D)	0	0
Income from holding events		
1. Gross Receipts from annual functions/ sports carnival	-	
Less : Direct expenditure incurred on the annual function/ sports carnival	-	
2. Gross Receipts from fetes	-	
Less : Direct expenditure incurred on the fetes	-	
3. Gross Receipts on Educational Tours	-	
Less : Direct expenditure incurred on the Educational Tours	-	
4. Others (to be specified and separately disclosed)	-	
Total	-	


  
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<b>D Others</b>		
1. Income from Consultancy	20,000.00	
2. RTI fees		
3. Income from Royalty		
4. Sale of Application Form ( recruitment)	167,150.00	156,250.00
5. Misc receipts (sales of tender form, waste paper)		156,120.00
6. Profit on sale/ disposal of Assets		
a) Owned Assets		
b) Assets acquired out of grants or received free of cost		
7. Grants/ Donations from Institutions, Welfare Bodies & International Organisations		
<b>8 Others (Specify)</b>		
a) Sale of Tender Form	108,500.00	
b) Other Receipts	78,260.00	
Total	373,910.00	312,370.00
<b>GRAND TOTAL (A +B+C+D)</b>	<b>2,902,857.00</b>	<b>476,955.00</b>

**SCHEDULE 14- PRIOR PERIOD INCOME**

1 Academic Receipts	-
2 Income form Investments	-
3 Interest Earned	-
4 Other Income	-

  
 Assistant Registrar  
 National Institute of Technology  
 Imphal

  
 Draw and Disburse Officer (DDO)  
 National Institute of Technology  
 Imphal

  
 Registrar  
 National Institute of Technology  
 Imphal

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

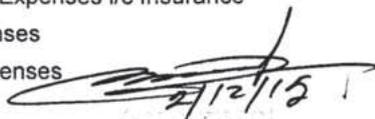
1	Salaries & Allowances	35,263,150.00	19,755,679.00
2	Allowances and Bonus	-	18,900.00
3	Contribution to Provident Fund	1,303,730.00	575,417.00
4	Contribution to Other Funds (Specify)	-	
5	Staff Welfare Expenses	-	
6	Retirement & Terminal Benefits	-	
7	LTC Facility	-	50,000.00
8	Medical Facility	-	
9	Children Education Allowance	-	558,990.00
10	Honorarium	781,080.00	
11	Others (Specify)	-	
	a) Casual Employees	-	
	b) Transfer Allowance	271,204.00	
	c) Gratuity	1,480,945.00	
	d) Leave Encashment/ Salary	2,934,730.00	218,000.00
	<b>Total</b>	<b>42,034,839.00</b>	<b>21,176,986.00</b>

**SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

	Pension	Gratuity
Opening Balance as on 1.4.2014		
Addition : Capitalised vale of contribution received from other organisations		
Total (a)		
Less : Annual Payments during the year		
Balance available on 31.3.2015 (c) = (a-b)		
Provision required on 31.3.2015 as per actuarial valuation (d)		
A. Provision to be made in the Current Year (d-c)		
B. Contribution to New Pension Scheme		
C. Medical Reimbursement to Retired Employees		
D. Travel to Hometown on Retirement		
E. Deposit Linked Insurance Payments		
TOTAL (A+B+C+D+E) [ to appear in schedule 15 item No. 6]		

**SCHEDULE -16 : ACADEMIC EXPENSES**

1	Laboratory Expenses	2,686,490.00	61,626.00
2	Field Work / participation in conferencesExpenses/ Faculty Development	257,205.00	45,670.00
3	Expenses on Seminar & workshop	497,895.00	102,666.50
4	Payments to Visiting Faculty		
5	Examination	9,450.00	9,465.00
6	Student Welfare Expenses i/c Insurance	284,217.00	
7	Admission Expenses		471,249.00
8	Convocation Expenses	1,398,439.00	
9	Publications		

  
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10 Stipend/ Means cum-merit Scholarship	2,108,694.00	
11 Subscription Expenses	-	3,068.00
12 Others ( Specify)	-	
Placement Exp	200,522.00	248,832.00
Sports & Other Activities	525,210.00	
M. Tech Scholarship	689,200.00	-
Group Insurance	-	143,978.00
Hostel Exp	260,285.00	1,479,605.00
Others	290,734.00	195,119.00
	<u>9,208,341.00</u>	<u>2,761,278.50</u>

**SCHEDULE -17 : ADMINISTRATIVE AND GENERAL EXPENSES**

<b>A Infrastructure</b>		
1 Electricity and Power	1,423,128.00	7,400,800.00
2 Water Charges	1,816,500.00	815,250.00
3 Insurance	-	
3 Rent, Rates, Taxes (including property tax)	-	24,553.00
	<u>3,239,628.00</u>	<u>8,240,603.00</u>
<b>B Communication</b>		
Postage & Telegramme		
Telephone, Fax & Internet Cahrges	159,435.00	131,612.95
	<u>159,435.00</u>	<u>131,612.95</u>
<b>C Others</b>		
Printing & Stationery	2,399,177.00	902,312.00
Traveling & Conveyance	2,496,388.00	1,400,944.00
Hospitality	-	
Auditor's Remuneration (CAG)	53,500.00	40,416.00
Internal Audit (liability)	57,250.00	44,944.00
Professional Charges	-	
Advertisement & Publicity	1,012,978.00	508,126.00
Megazine & Journal	5,898.00	
Others ( Specify)		
a) Guest House Exp	250,000.00	250,000.00
b) Staff Recruiting Expenses	1,458,776.00	2,015,220.00
c) Meeting Expenses	662,572.00	744,355.00
d) Security & Home Guard Exp	4,517,119.00	3,566,103.00
e) Consultancy & Outsource	151,853.00	143,871.00
f) Contingency(i/c Fixed assets rounding up 0.23)	924,893.23	699,370.07
g) Functions & Celebrations	976,797.00	797,468.00
Total	<u>14,967,201.23</u>	<u>11,113,129.07</u>
Total A+B+C	<u>18,366,264.23</u>	<u>19,485,345.02</u>

**SCHEDULE-18 : TRANSPORTATION EXPENSES**

<b>1 Own Vehicles</b>		
a) Running Expenses	599,199.00	479,363.40
b) Repairs & Maintenance	-	
c) Insurance	93,706.00	
<b>2 Vehicle taken on rent/ lease</b>		
a) Rent/ lease expenses	869,204.00	401,368.00
<b>3 Vehicle (taxi) hiring Expenses</b>		
	<u>1,562,109.00</u>	<u>880,731.40</u>

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21/12/15

*[Handwritten signature]*  
Conv and Deputet Officer (CAG)  
National Institute of Technology  
Manipur

*[Handwritten signature]*  
Registrar  
National Institute of Technology  
Manipur

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**SCHEDULE-19 : REPAIRS AND MAINTENANCE**

1	Buildings	4,137,765.00	21,210,409.00
2	Furniture & Fixture	-	
3	Plant & Machinery	-	33,650.00
4	Office Equipments	11,450.00	
5	Computers	169,428.00	872,915.00
6	Laboratory & Scientific Equipment	-	
7	Audio Visual Equipment	-	
8	Cleaning materials & services	190,565.00	79,091.00
9	Book Binding charges	-	
10	Campus Maintenance	273,367.00	740,916.00
11	Estate Maintenance	-	
12	Others -	-	288,340.00
		<u>4,782,575.00</u>	<u>23,225,321.00</u>

**SCHEDULE -20 : FINANCE COST**

1	Bank Charges	32,035.60	32,035.60	-
2	Others (Specify)		-	
			<u>32,035.60</u>	-

**SCHEDULE -21 : OTHER EXPENSES**

1	Provision for Bad & Doubtful Debts/ Advances	-	
2	Irrecoverable Balances written off	-	
3	Grants / Subsidies to Other Institutes/ organisations	-	
4	Others (specify)	-	
		<u>-</u>	<u>-</u>

**SCHEDULE - 22 :PRIOR PERIOD EXPENSES**

1	Academic Income unrealised		
	- Due date expired cheque/ DDs deposited but unrealised		
		<u>310,267.00</u>	<u>-</u>
		310,267.00	

  
21/2/15

Accountant

National Institute of Technology  
Manipur



Officer and Cultural Officer (DC O)

National Institute of Technology  
Manipur



Registrar

National Institute of Technology  
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**NATIONAL INSTITUTE OF TECHNOLOGY, MANIPUR**  
**RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.3.2015**

RECEIPTS	Current year	Previous Year	PAYMENTS	Current year	Previous Year
I Opening Balance			I Expenses -		
a) Cash balances i/c DD in hand	50,338,451.00	2,087,310.00	a) Establishment Expenses	39,100,109.00	20,665,314.00
b) Bank Balances -			b) Academic Expenses	9,208,341.00	3,348,993.50
i) in Current Account	(55,058,505.00)	-	c) Administrative Expenses	18,341,049.60	18,845,339.66
ii) In Deposit Accounts	117,022,652.00	45,075,941.00	d) Transportation Expenses	1,562,109.00	880,731.40
iii) In Savings Account	4,977,427.00	110,582,797.00	e) Repairs & Maintenance	4,782,575.00	23,225,321.00
Grants Received -	117,280,025.00	157,746,048.00	f) Prior Period Expenses	310,267.00	-
a) From Government of India	950,000,000.00	635,000,000.00	II Payments made against Earmarked/ Endowment funds	73,304,450.60	66,965,699.56
b) From State Government	-	87,000.00	III Payments against Sponsored Projects Projects/ Schemes	502,646.00	
c) From Other sources :	24,160,468.00	13,817,185.00	Others	6,372,548.00	597,591.00
Academic Receipts			CSAB		
Receipts against Earmarked/ Endowment Fund			IV Payments against Sponsored Fellowship/ Scholarship		
V Receipts against Sponsored Projects /Schemes			V Investments and Deposits made		
Schedule 3(a)	944,291.00	420,000.00	a) Out of Earmarked/ Endowment	10,000,000.00	
CSAB	6,224,719.00		b) Out of own Funds		
VI Income on Investments from			VI Term Deposits with Schedule Banks		
a) Earmarked /Endowment Fund	-		VII Expenditure on Fixed Assets and Capital Work in Progress		
b) Other Investments	-		a) Fixed Assets i/c advance	387,134,877.06	89,403,576.88
VII Interest Received on			b) Capital Work in progress	618,097,393.00	571,293,000.00
a) Bank Deposits	2,756,753.40	6,870,573.00	VIII Other Payments including Statutory payments		
b) Loans & Advances	-	4,614,027.00			
c) Savings Bank Account	3,969,389.00				
<b>Total Carried over</b>	<b>1,105,335,645.40</b>	<b>818,554,833.00</b>	<b>Total Carried over</b>	<b>1,095,411,914.66</b>	<b>728,259,867.44</b>

  
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 Manipur

Total Carried forward	1,105,335,645.40	818,554,833.00	Total Carried forward	1,095,411,914.68	728,259,867.44
IX Investments encashed			IX Refund of Grants	-	-
X Term Deposits with Scheduled Banks encashed			X Deposits and Advances (net)	3,626,781.00	1,260,072.45
XI Other Income (including Prior period income)	714,539.00	312,370.00	XI Other Payments	310,000.00	-
XII Deposits and Advances			a) Refund of Caution Deposit		128,329.00
Caution Money	1,125,000.00	600,000.00	b) Refund of fee		
Deduction awaiting remittance	1,083,552.00	1,550,004.00			
Refundable & Payables (net)	15,781,836.00	3,380,362.89			
XIII Miscellaneous Receipts including Statutory Receipts	27,727,724.00	18,161,507.00	XII Closing balances	235,399.00	50,338,451.00
Sundry Creditors (net)	404,717.00	4,351,817.00	a) Cash in hand		
Current Liability Increase			b) Bank Balances -	28,419,424.74	60,151,300.12
XIV Any Other Receipts	57,029.00	17,400.00	i) in Current Account	7,110,416.00	-110,232,378.12
Receivable Fees			ii) in Savings Account *	17,116,107.00	117,022,652.00
			iii) in Deposit Accounts		
	1,152,230,042.40	846,928,293.89		1,152,230,042.40	846,928,293.89

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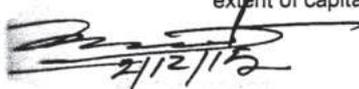
SCHEDULE 23 : SIGNIFICANT ACCOUNTING POLICIES

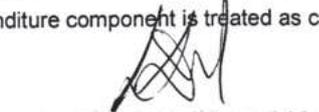
**1. Accounting Convention**

- a) The accounts are maintained and financial statements are prepared on the basis of historical cost convention.
- b) Recognition of revenue and related assets and liabilities  
The Institute normally follows the cash basis of accounting. However for presentation of financial statements the liabilities and assets which are ascertained and disclosed hereunder have been taken into account.
- c) The Retirement Benefits  
The liability for the expenses on retirement benefit of the staff – gratuity, leave salary estimated on the basis of number of years service and number of days of unavailed leave at the year end is provided and accounted on accrual basis and charged to expenses.
- d) Retirement Pension is to be accounted on accrual basis.
- e) Interest on Special Term Deposits with Bank compounded upto last quarter of the year is accounted on accrual basis.
- f) Fees received from the students are accounted on actual receipt basis. Thus the fees received covering the period beyond the financial year is treated as Income in the year of receipt. However fees short paid by the students at the time of admission is treated as receivable fees
- g) The value of the work bills which have been passed for payment but not paid has been taken into account and liability thereof has been provided.
- h) Works in progress physically measured / unmeasured but not billed is not taken into the statement of account as the realistic value cannot be estimated
- i) Deposits for the execution of the works made with the executing agencies are treated as work in progress to form part of fixed assets which shall be reversed to works value on the completion of the work.
- j) Security deposit received from the students  
The security deposit is treated as current liabilities. Any non-refunded security deposit lying after expiry of three years from the due date of refund is considered as unclaimed liability and accordingly treated as Income of the Institute
- k) Income received for other purpose  
Any receipt not relating to normal activity of the Institution obtained from any source which has to be spent for the specific purpose is treated as Earmarked Fund. Accordingly the expenditure incurred out of such receipts is not treated as normal expenditure of the Institute. The difference between the receipt and expenditure is directly taken in the balance sheet as balance of fund.

**2. Apportionment of grant into revenue and capital grant**

- a) The grants are treated either revenue receipt or capital receipt according to the direction of the granting authority. The capital grants are directly credited to General (Capital) Fund and the revenue grants are credited to Income and Expenditure Account. However if such apportionment has not been made by the granting authority the whole amount of grant received is credited to income and expenditure Account. In case the grant is received in accordance with the proposal initiated by the Institute the amount to the extent of capital expenditure component is treated as capital grant and treated accordingly.

  
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- b) In respect of grants and contribution received under earmarked fund for special purposes or research works by the Departments the whole amount of grant is credited to the fund account and the expenses either revenue or capital are charged to the Fund. However the value of the assets created out of the grant is taken into the fixed assets by giving corresponding credit to Capital Fund account as these assets acquired out of the grant form part of the assets of the Institute
- c) Other grants which are received other than specific purpose of creating capital assets are directly treated as revenue receipts and capital grants are directly credited to Capital Fund Account

**3. Treatment of expenditure renovation of, addition & alteration and extension on existing buildings not owned by the Institute.**

The Institute is accommodated on the land and buildings owned by the Govt of Manipur with a right to use as a temporary campus. However to meet its requirements expenses are incurred by way of renovation, partitions, addition & alterations on the existing buildings which result in some cases creation of new immovable asset. However these assets, being immovable, have to be left behind when the institution shifts to its new campus. Therefore the expenditure has been treated as revenue expenditure

**4. Valuation of Inventory of consumables**

The consumable items are normally purchased for instant use and no stock of significant quantity is carried in hand. Therefore the cost of consumables items purchased during is charged in full to expenditure of the year

**5. Fixed assets**

- a) Fixed Assets are stated at cost of acquisition inclusive of all direct expenses related to acquisition. In respect of projects involving construction related pre-operative expenses are absorbed into the cost of the assets
- b) Assets received by way of Non- monetary grants are accounted with corresponding credit to the Corpus (Capital) Fund Account.
- c) The value of the assets created out of the grants under Earmarked Fund (sponsored project) is capitalized with corresponding credit of Corpus(Capital) fund Account.

**7. Fixed Assets and Depreciation**

- a) Fixed assets are stated at cost of acquisition/construction less accumulated depreciation. The cost of assets comprises its purchase price and directly attributable cost of bringing the assets to working condition for its intended use i.e. cost of acquisition of assets including inter-alia interest on borrowing and incidental expenditure during construction incurred up to the date of commissioning.
- b) Assets received by way on Non- monetary grants are accounted with corresponding credit to the Capital Fund Account.
- c) No depreciation is charged on the assets till the asset is ready for use
- d) **Change in the Method of Depreciation**  
Depreciation on fixed assets is provided on written down value method upto 31.3.2014. However during the year in compliance with the direction of the Ministry of Human Resource Development the method of depreciation has been changed to Straight Line Method. The excess/ shortfall arising from the change in the method (taking retrospective effect) has been charged to Income and Expenditure Account..

  
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**8 Capital Work in Progress**

Capital work in progress includes cost of construction expenditure, deposits and advances made for such construction, interest on funds deployed on capital work in progress and other indirect preoperative expenditure incidental and related to acquisition of assets.

**9 Restricted Funds [ Special Purpose Funds]**

- a) Any income by way of grant, donation, contribution, bank interest and income earned from investment is credited directly to the Fund and any outgoing towards revenue or capital expenses is charged to the fund. The net balance is treated as balance of the fund at the end of the year.
- b) Such fund is independently and distinctly shown under a separate head in the balance sheet

**10 Staff Retirement Benefits**

The present retirement benefits are gratuity, leave encashment and pension. The benefits are worked out on the assumption:

- a) The members of the staff shall continue in the services of the Institution to be eligible for retirement benefits.
- b) With the number of years service earned the staff retires on the last date of the accounting year.
- c) The provision so made is to be reversed on the actual payments

**11 Loans & Advances for expenses**

- a) The payments in the nature of advance for meeting expenses are booked under the head " Advances". These advances are charged to expenses only when the activity for which the advance is drawn is accomplished and the related documents have been approved and passed by the competent authority

The loans and advances as shown in the statement of account are considered good and recoverable by way of expenses or otherwise and as such no provision for loss is made in the accounts

**12 Foreign Exchange Transaction**

The transactions involving foreign exchange directly entered into by the Institute or foreign exchange earned is disclosed separately under Notes on Account.

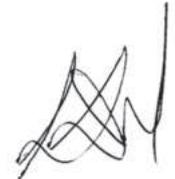
**13 Capital Commitment**

The ascertained capital commitment in respect of capital works contracts but not completed is disclosed separately under Notes on Account

**14 Contingent Liability**

It is disclosed separately under Notes on Account

  
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 Head and Director, Office (P)  
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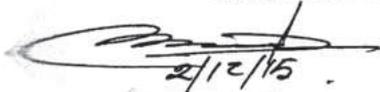
**SCHEDULE -24 : Contingent Liabilities and Notes on Account**

1. The financial statements are presented on the new formats prescribed by Ministry of Human Resource Development, Govt of India
2. There is contingent liability for about of Rs 3.00 lakh arising from claims made by a consultant firm
3. Loans & Advances  
The loans and advances as shown in the statement of account are considered good and recoverable by way of expenses or otherwise and as such no provision for loss is made in the accounts
4. Effect of Change in the method of Depreciation  
The institute has been following the written down value method since inception (2010-11). However to comply with the new format of financial statement prescribed by the Ministry the depreciation has been worked out at Straight Line Method applying the prescribed rate. As the new prescribed rate is different from the rate applied by the Institute upto previous year effective life of assets is changed. Accordingly there has been a change in the qualifying value of the assets for the application of depreciation. The effect of depreciation has been given from the year 2010-11. The excess / shortfall in the depreciation is separately shown under Schedule -4. The net effect of excess of Rs 50,34,620 has been reversed to Income and Expenditure Account
5. Other receipts/grants  
The institute received the following amounts from C.S.A.B. for the purpose of carrying on the selection process of the students. As the receipts of the fund and payment out of the fund are not directly related to the normal function of the Institute such receipt of the fund is not treated as income of the Institute. The difference between the amount received and amount spent therefrom is either treated as Liability or Receivable (asset) and accordingly shown under the relevant group head in the Balance sheet. The account of CCB for the year is as under.

Particulars	Debits	Credits	Balance
Balance brought forward (Dr)			(Cr) 625,740
Grant Received (Cr)	0	62,24,719	
Expenses (Dr)	63,72,548	0	
Balance			(Cr) 477,911

The above balance is shown under Current Liability in the Balance Sheet (Schedule 5).

6. Deposit works with CPWD, Education Department  
The amount has been treated as Capital Work in Process under the head 'Fixed Assets". Value of the work completed has not yet been furnished by the executing agencies.
- 7 Retirement benefits
  - a) Further provision for leave encashment has been worked out on the basis of leave balance at the credit of leave account of the staff – Rs 30,28,736 as on 31.3.2015
  - b) One teaching staff is on deputation. No claim for leave and pension contribution has been raised by their respective parent department. Thus exact amount towards the contribution could not be ascertained. However a provision for Rs 10,28,825.00 has been worked out and accounted towards liability for contribution
  - c) The provision for gratuity has not been made.
- 8 Foreign Exchange Transaction  
There is no foreign exchange transaction during the year except the opening foreign letter of credit through dealer bank

  
2/12/15  
Controller of Accounts  
National Institute of Technology  
Manipur

  
Deputy Director (D.D.),  
National Institute of Technology,  
Manipur

  
Registrar  
National Institute of Technology  
Manipur