

**NATIONAL INSTITUTE OF TECHNOLOGY-  
ARUNACHAL PRADESH**

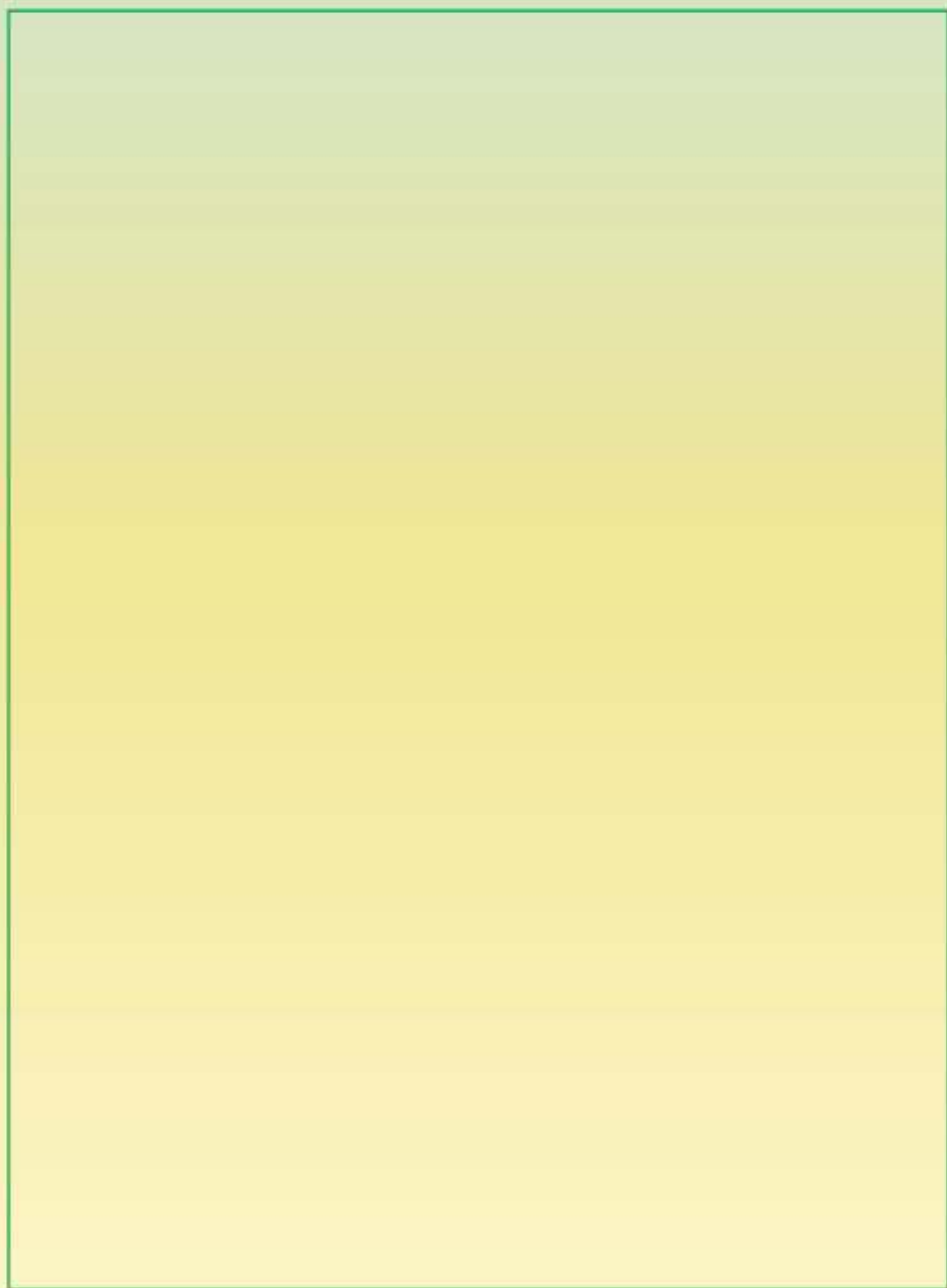
**(YUPIA, ARUNACHAL PRADESH)**

**ANNUAL REPORT (2012-13)**



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**(Established by the Ministry of Human Resource Development, Govt. of India)**



## Preface:

### From the Desk of the Director:



Prof. C.T. Bhunia, Director

During the last one year, the Institute has witnessed a pretty emphatic growth towards objective fulfillment of its defined Vision & Mission. In this context, the co-operation of the members of faculty, support of officials & members of staff and the integrated involvement of the students are commendable and spectacular. They have together converted the difficulties into opportunities and articulated the art of never saying “No”. We have exceptionally brilliant innovative plans to meet the expectations of the stakeholders at all the levels. The plans are B-plan and E-plan:

**(I) B-PLAN:** Best Teaching, Best Research, Best Practice of Innovation & Entrepreneurship, Best Services to the Society.

**(II) E-PLAN:** E-Office, Extraordinary promptness, Extreme Sincerity, Extreme Mutual Understanding, Trust & Faith.

It is fortunate that the Institute got full composition of the statutory bodies namely; the Board of Governors, the Senate, the Finance Committee and the Building and Works Committee. The acumen, guidance and the progressive advice in respective cases by the respective statutory bodies have also inspired us to run this Institute smartly, speedily, fairly and clearly. The all-around & best possible support from the Ministry of Human Resource Development (GoI) have further made the progress much easier, better and prosperous.

With these, we have documented in this report the note-worthy achievements, aspirations and functions for wide circulations among the fraternities concerned.



## VISITOR

**Dr. Pranab Mukherjee**  
Hon'ble President of India



## Chairperson

**Board of Governors**  
**Dr. Gangan Prathap**



## Director

**Prof. (Dr.) Chandan Tilak Bhunia**





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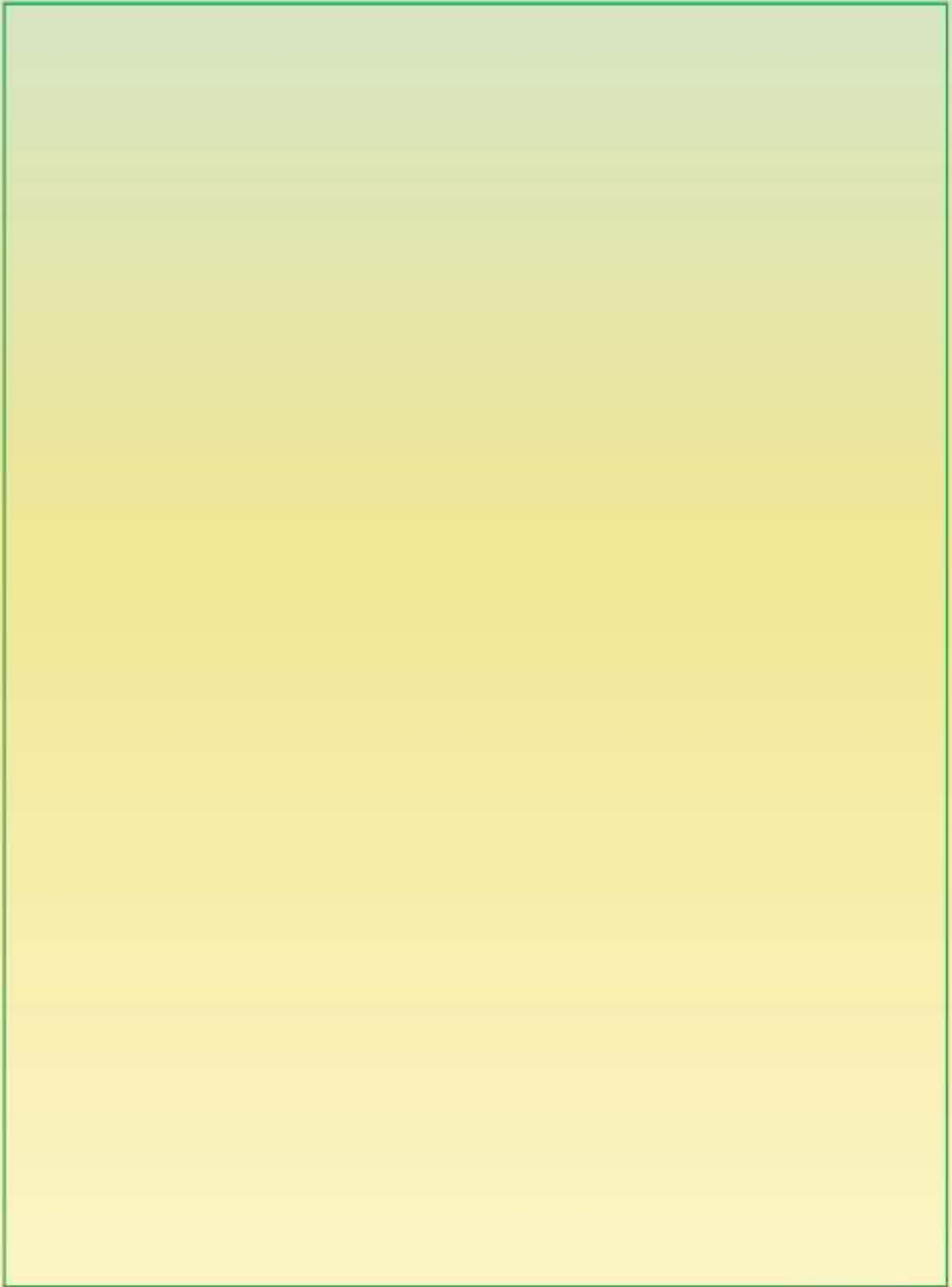
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# ANNUAL REPORT

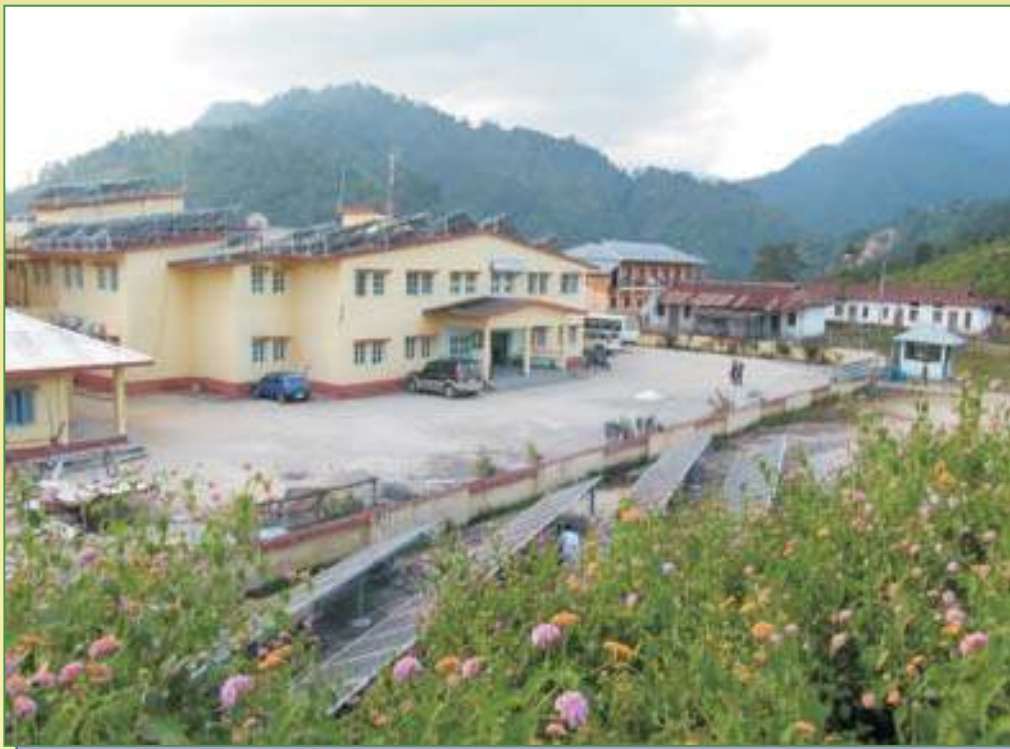
## PART- I



## 1. OVERVIEW

### 1. Introduction

Ten new NITs were set up by the Government of India in the year 2010 and their functioning started from the Academic Session of 2010-11. Out of these ten new NITs, six were established in the North-eastern Region and one being in Arunachal Pradesh. Since it is a new institution, it started its functioning in a temporary campus at Yupia. The land, buildings and structures were made available to the NIT by the Government of Arunachal Pradesh.



A view of the present campus at Yupia, Arunachal Pradesh

### 1.1 Permanent Campus

The Government of Arunachal Pradesh has also provided free of cost a land of 302 acres in Jote, District: Papumpare in Arunachal Pradesh. The foundation stone of the permanent campus of NIT- Arunachal Pradesh has been laid down therein by the Hon'ble Union Minister of Human Resource

Development. The hilly areas and the undulating terrain therein have been levelled so as to bring out a vast plot of land fit for a series of robust structural constructions meant for the Institution. At present, the necessary works of boundary wall/pillars are going on.



**Dr. M M Pallam Raju, Hon'ble Union Minister of Human Resource Development laying the foundation stone in the presence of Sri Nabam Tuki, Hon'ble Chief Minister of Arunachal Pradesh at Jote (permanent site of NIT-Arunachal Pradesh)**



**Foundation stone laying ceremony held on 10.02.2013**

## 1.2 Human Resources

The Institute has since received sanction for faculty and non-faculty posts as per its students' strength. However, the entire process of recruitment could not be completed due to non-availability of qualified candidates willing to serve in this remote area of the country. In fact, this particular problem is now being faced by most of the Centrally-funded Technical Institutes in the North-eastern Region. This aspect needs immediate attention at an appropriate level. The Institute has however started its colourful journey with the available human resources, infrastructural facilities etc.

## 1.3 Journey Ahead

In the aforesaid process, the Institute is trying its level best to take care of the necessary Academic activities, Research work etc. with the existing faculty members, laboratories, libraries, IT facilities etc. It has also provided full-fledged hostel facilities to all of its students. All the students are residing in the hostels located either in the temporary campus or outside it. Due compassion and care is being paid to ensure that the students do not feel that they are staying away from home. This is essential to provide a congenial ambience to enable the students to continue their studies in a proper manner.

## 1.4 Responsibilities

NIT-Arunachal Pradesh is also responsible for accomplishing a noble task of catering to the needs of the local people and fulfilling the aspirations of the talented youths belonging to the poorest among poor backward people residing in the remotest areas of the State. In order to ensure that the students can avail the facilities of Technical Education, the Institute has to play a bigger role while providing suitable training programme to the students at 10+2 stage in the schools of the State. The Institute is also striving hard to provide necessary technological knowhow to the local industries so that the overall industrial development of the State can move forward in a faster pace.

## 1.5 Conclusion

The Institute is also quite confident to accomplish the tasks bestowed upon it and fulfill its cherished dreams in near future.

**“Everything that is done in the world is done by hope.” ~ Martin Luther**

## 2. EXECUTIVE SUMMARY

### 2.0 Introduction

The National Institute of Technology-Arunachal Pradesh was inaugurated on 18th August, 2010 as an *Institute of National Importance* in technical education to combat the growing need of technical professionals in India as well as in the world.

### 2.1 Vision and Mission statement

The Institute has passed through many trials since its establishment in 2010; but ultimately has triumphed over all the challenges and is now marching ahead with about 250 students on roll and many distinguished members of faculty as well as a good many numbers of competent administrative personnel.

#### Vision statement

Our vision is to impart quality technical education with strong underpinning of sound knowledge in the domain. Our approach is interactive, innovative and quintessentially holistic. Our goal is to produce imaginative entrepreneurs, technology leaders of the new millennium and researchers with a profound sense of humanistic and ethical values.

#### Mission statement

Our mission is that of producing such Technical Engineers who will not run after jobs; but for whom jobs will run after them, and such that they will create employment and develop new technologies for a faster, sustainable and inclusive growth.

To realize the goals of its Vision and Mission, the NIT-Arunachal Pradesh has framed a strategic and progressive academic plan for the next ten (10) years which may be seen at the Institute's website. This speaks of the determination and sound temperament of the members of the faculty and staff of the Institute. It is planned to make this NIT a global leader so as to earn global accolades.

Culturally and environmentally, this place is so rich that it would facilitate the NIT to become a fusion of scholastic students, academically bright and credible members of the faculty, innovative researchers and visionary leaders in India's "Land of the Rising-Sun." By no stretch of imagination, it may, therefore,

be said that NIT-Arunachal Pradesh is second to no other institute in its fields of development and momentum built by this time.

## 2.2 Academic information

The National Institute of Technology-Arunachal Pradesh started 4-years B. Tech degree programmes in Computer Science & Engineering, Electronics & Communication Engineering and Electrical & Electronics Engineering. Besides B. Tech Degree Programmes, the Institute has also started Research programme leading to Ph.D in Computer Science & Engineering.

### Enrollment

The Institute admitted 81 students during the year 2012-13 against the sanctioned strength of ninety (30 in each discipline). The Institute has also registered two (2) faculty members of the Institute to pursue their research work leading to Ph. D. The total enrolment of the students during the year under report was 247 as against 168 in the previous year 2011-12. The strength of the students in the hostels is 247 (boys and girls).

### Faculty Position

During the year under report, one Associate Professor and eighteen Assistant Professors were on the roll in various departments as against one Associate Professor and seventeen Assistant Professors in the previous year. Further details in this regard are given in the Chapter-V.

## 2.3 Academic programmes

### Seminars / Symposia / Workshops / Short Term Courses conducted:

During year 2012-13, NIT-Arunachal Pradesh organized:

- North-Eastern Regional Science Congress 2013, 11th -13th March, 2013
- National Student's Essay Competition, 11th May, 2012.
- Self Workshop from Spoken Tutorial, 30th October, 2012
- Entrepreneurship Awareness Camp, 9th – 12th January, 2013.

- Hack Mania' 2012, 06th – 07th April, 2012
- Cyborg-The Robotics Workshop, 16th – 22nd February, 2013.
- 5 Days Crash Course for Engineers from The HR Club, 16th – 20th April, 2013

**Seminars, Symposia and Workshops participated by the faculty members:**

During year 2012-13, nineteen (19) faculty members of the Institute attended the following seminars and workshops in India and abroad:-

- Prof. Dr. C T Bhunia, Rajat Subhra Goshwami, S K Chakraborty: "100th Science Congress", 3rd-7th January, 2013, Kolkata.
- Prof. Dr. C T Bhunia: "09th International Conference ITNG 2013", 16th-18th April, 2012 Las Vegas, USA.
- Prof. Dr. C T Bhunia: "IEEE CITS'2012", 14th-16th May 2012, Amman, Jordan.
- Anish Kumar Saha: "North Eastern Regional Science Congress-Science For The Shaping The Future of India", 11th-13th March, 2013, DST, NIT-Arunachal Pradesh.
- Anish Kumar Saha: ISTE Workshop on "Introduction to Research Methodologies", 25th June to 04th July, 2012, held at NIT-Agartala, National Mission on Education through ICT (MHRD).
- Anish Kumar Saha: National Workshop on "Recent Trends In Object Oriented Software Testing (R-TOOST-2012)" 9th-11th June, 2012 TEQIP, Department of Computer Science and Engineering, NIT-Rourkela.
- Anish Kumar Saha: SERC School workshop on "Advanced Software Engineering Techniques & Their Applications" 4th – 8th June, 2012, DST, Department of Computer Science and Engineering, NIT-Rourkela.
- Anish Kumar Saha: 2 days Workshop on "Developing Location Specific R & D and Demonstration Projects in Tripura", 4th-5th April, 2012, Tripura State Council for Science & Technology.

- Santanu Maity: National Workshop “Communication and information technology & devices for electronics”, 18th-22th March 2013, SMIT.
- Santanu Maity: “20th West Bengal State Science & Technology Congress, 2013”, 28th February 2013- 2nd March 2013, BESU.
- Santanu Maiti: “North Eastern Regional Science Congress-Science For Shaping The Future of India”, 11th-13th March 2013, DST, NIT-Arunachal Pradesh.
- Karam Ratan Singh: Brain Storming Workshop on Developing R & D proposals, 18th-19th October, 2012, DST, Tripura State Council for Science & Technology.
- Karam Ratan Singh: International Workshop on Industry-Academia Collaboration for Greater National Productivity & Competitiveness, New Delhi, 14th-15th April, 2013, AICTE, MHRD, CII.
- U K Saha: National Workshop on “Emerging Trends in Ramanujan’s Mathematics & its applications in the fields of q-hypergeometric series”, 22nd-24th December, 2013, NASI Allahabad.
- Abhishek Kumar: INUP Familiarization Workshop on “Nanofabrication Technologies especially for the NE Region of India”, 28th-29th September, 2012, IIT- Guwahati.

### **Invited Lectures delivered by Eminent Professors of other Universities:**

- Prof. Ajit Pal, Department of Computer Science & Engineering, IIT-Kharagpur.
- Prof. Atal Choudhury, Department of Computer Science & Engineering, Jadavpur University
- Prof. S C Dutta Roy, Emeritus Professor, Department of Electrical Engineering, IIT- Delhi
- Prof. Jibon Chakraborty, Department of Basic Science and Humanities, University of Calcutta

- Prof. Paramartha Dutta, Department of Computer and System Sciences, Visva Bharati University
- Prof P K Basu, Department of Radio Physics & Electronics, University of Calcutta
- Prof. S L Maskara, Department of Electronics and Communication Engineering, IIT- Khargpur.
- Dr. S Subedar, Associate Professor, Department of Electronics and Communication Engineering, NERIST, Nirjuli, Arunachal Pradesh
- Prof, P Sarkar, Department of Electrical Engineering, National Institute of Technical Teachers Training & Research, Kolkata
- Prof. Gulab Jha, Department of Foreign Languages, Guwahati University, Guwahati
- Dr. S K Dutta, Associate Professor, National Institute of Rural Development, Guwahati, etc.

#### 2.4 Library

The library has a good number of books and journals supplemented regularly. The Central Library of the Institute is a knowledge centre of NIT-Arunachal Pradesh. It has a rich collection of information resources mainly in Engineering, Science & also Management. Reading room facilities are available for (a) thirty students and (b) twelve faculty members & employees. Online Public Access Catalogue (OPAC) service through Libsys is available in the Central Library. Present status of the publications available is as follows:

|                       |   |
|-----------------------|---|
| Total Title:          | 850 (apprx.)  |
| Total volume:         | 15,000 (apprx.)   |
| Total Print Journal:  | 20 (apprx.)   |
| Total Print Magazine: | 12 (apprx.)   |
| E-resource:           | IEL Online (One user), Springer Link, ACM Digital Library |



Collections of books, journals etc

## 2.5 Finance

### (BALANCE SHEET AS ON 31st MARCH, 2013)

(Amount in Rs.)

| CORPUS / CAPITAL FUND AND LIABILITIES | SCHEDULE | CURRENT YEAR        | PREVIOUS YEAR      |
|---------------------------------------|----------|---------------------|--------------------|
| Corpus / Capital Fund                 | 1        | 241940491.00        | 76169019.00        |
| Earmarked / Endowment Funds           | 2        | 1569658.00          | 331639.00          |
| Current Liabilities & Provisions      | 3        | -                   | -                  |
| <b>Total</b>                          |          | <b>243510149.00</b> | <b>76500658.00</b> |

(Amount in Rs.)

| ASSETS                                      | SCHEDULE | CURRENT YEAR        | PREVIOUS YEAR      |
|---|----------|---------------------|--------------------|
| Fixed Assets                                | 4        | 225151097.00        | 36824847.00        |
| Investment from Earmarked / Endowment Funds | 5        | 1569658.00          | 331639.00          |
| Current Assets, Loan, Advances etc.         | 6        | 16789394.00         | 39344172.00        |
| <b>Total</b>                                |          | <b>243510149.00</b> | <b>76500658.00</b> |

## 2.6 Internal Quality Assurance Cell

The Institute has its own internal quality assurance programme on the basis of regular evaluation process and students' feedback. After each semester before ending, students give their feedback on different parameters in respect of the faculty members. All the parameters are summarized and then, the best teacher is awarded on the basis of the feedback and other performances.

## 2.7 General Information

The Institute is, at present, functioning in a building received from the State Government of Arunachal Pradesh at Yupia, District - Papumpare, Arunachal Pradesh. However, the foundation stone at its permanent site at Jote, District - Papumpare has been laid by Dr. M. M. Pallam Raju, Hon'ble, Union Minister of Human Resource and Development on 10.02.2013. Construction has started in the permanent campus.

## 2.8 Organizational Structure



**Details of the structure :**

**DEANS OF THE INSTITUTE**

|                                 |   |
|---------------------------------|---|
| <b>Academic</b>                 | : Prof. P. D. Kashyap,<br>Academic Coordinator            |
| <b>Research and Development</b> | : Dr. Pinaki Chakraborty,<br>Assistant Dean (R &D)        |
| <b>Examination</b>              | : Dr. Nabakumar Pramanik,<br>Assistant Dean (Examination) |

**HEAD OF DEPARTMENTS**

**Department of Computer Science & Engineering**

Swarnendu Kr. Chakraborty

**Department of Electronics & Communication Engineering**

Dr. Pinaki Chakraborty

**Department of Electrical & Electronics Engineering**

Ms. Kaveri Bhuyan

**Department of Basic Sciences & Humanities**

Dr. U. K. Saha

**ADMINISTRATIVE OFFICERS**

(as on 31.3.2012)

**DIRECTOR'S OFFICE**

|                        |                        |
|------------------------|------------------------|
| P.A. to Director       | : Pralay Kumar Samanta |
| Confidential Assistant | : Ms. Abi Tayeng       |

**OFFICE OF THE REGISTRAR**

|                    |                |
|--------------------|----------------|
| OSD                | : P K Modak    |
| Junior Assistant   | : Shibo Chetry |
| Multitasking Staff | : Dipak Jana   |

**OFFICE OF THE FINANCE OFFICER**

Accountant : S P Kar  
Junior Assistant : Ms Momi Das

**OFFICE OF THE DEAN, EXAMINATION**

Junior Assistant : Taw Talo

**OFFICE OF THE PUBLIC RELATION & RTI**

CPIO : Rajat Subhra Goswami  
Assistant Public Relation Officer : Nabam Talar  
(Addl. charge)

**CENTRAL LIBRARY**

Assistant Librarian : Mohit Kumar De

**ENGINEERING WING**

Assistant Engineer : Tana Chiyi  
Multitasking Staff : Sriman Ghosh

**HEALTH CENTRE**

Medical Officer (Part Time) : Dr. P. K. Deb

**INSTITUTE'S HOSTELS**

Hostel Provost : Mohit Kumar De

**TRAINING AND PLACEMENT CELL**

Training and Placement Officer : Dr. Karam Ratan Singh

**ENTREPRENEURSHIP CELL**

Professor In-Charge : Dr. Pinaki Ckakraborty

**NSS/NCC**

NSS Programme Officer : Dr. Karam Ratan Singh  
NCC CTO (Care Taker Officer) : Rajen Pudur  
SAS Assistant : Jorjo Jomoh

## 2.9 New Appointments in Administration

Group – A : Nil

Group – B : Nil

Group – C : As in the Table below:

| Sl. No. | Name           | Designation         | Date of joining |
|---------|----------------|---------------------|-----------------|
| i       | Shibo Chetry   | Junior Assistant    | 03/08/2012      |
| ii      | Ms Momi Das    | Junior Assistant    | 03/08/2012      |
| iii     | Sriman Ghosh   | Multitasking Staff  | 03/08/2012      |
| iv      | Ms Saswati Das | Junior Assistant    | 03/08/2012      |
| v       | Ujjal Samanta  | Multitasking Staff  | 03/08/2012      |
| vi      | Gomar Bam      | Technical Assistant | 06/08/2012      |
| vii     | Amit Das       | Technician          | 16/08/2012      |

## 2.10 Authorities of the Institute

The meetings of the Board of Governors, Finance Committee, Building and Works Committee, Senate and Board of Studies were held regularly during the period under report, in line with the stipulation provided in the MoA and the NIT Act, 2007. The details of the meetings are as follows:

|                                   |  |
|-----------------------------------|--|
| Board of Governors                | : 10.03.2013; 29.01.2013; 24.12.2012;<br>19.10.2012; 25.07.2012                            |
| Finance Committee                 | : 10.03.2013; 24.12.2012   |
| Building and Works Committee      | : 28.03.2013; 09.03.2013; 22.12.2012   |
| Senate (earlier Academic Council) | : 27.08.2012; 13.07.2012, 10.03.2013;<br>26.10.2012  |
| Board of Studies                  | : 28.03.2013; 09.03.2013; 22.12.2012;<br>10.11.2012, 16.10.2012; 23.07.2012;<br>01.06.2012 |
| Board of Research                 | : 01.10.2012   |

### 2.11 Memorandum of Understanding

The Institute has signed a MoU with IIT-Bombay for RESOURCE (Robust Extensions for Spoken Tutorial Project on Open Source Software Usage for Recruitment Community and Education) Centre for promoting the Spoken Tutorial Project, one of the Talks to a Teacher Project supported by NMEICT, Ministry of Human Resource Development, Government of India.

Another Memorandum of Understanding is in the stage of finalization with National Institute of Rural Development (NIRD), Govt. of India, Hyderabad for M.Tech in Appropriate Technology & Entrepreneurship Practices. The Institute is likely to start an innovative M.Tech Programme in Appropriate Technology & Entrepreneurship Practices in collaboration with NIRD, Hyderabad.

### 2.12 Power Back-up

Besides having electric supply from the State Power Department, the Institute has installed its own 100 kW Solar Power System, which is operational since 28.10.2012 and in this way, the Institute has been able to minimize expenditure on drawal of power from the grid supply. The specifications of the Solar Power System are as follows:

#### Specification of Solar Panels

Voc=37.08 V

Isc= 8.45 A

Diode Rating= 15 A

Total Number of Solar Panels: 410 numbers

#### Battery Specification

Each Battery Backup: 600 Ah

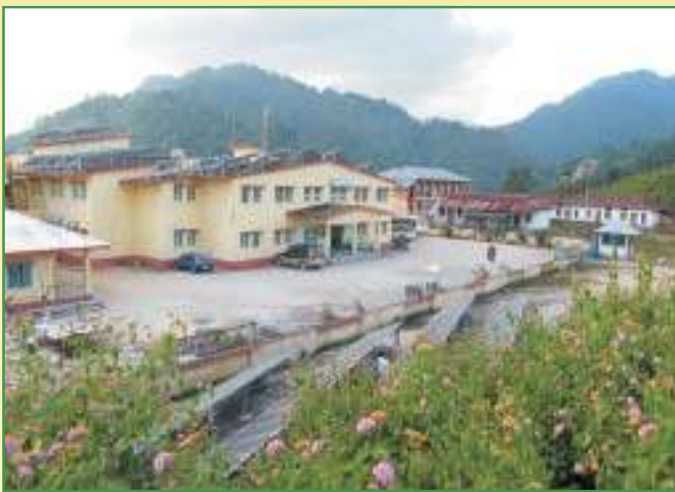
Voltage: 2V

Total No of Battery: 240 numbers



**Solar Panels of NIT-Arunachal Pradesh [This is reportedly the first of its kind among the thirty (30) NITs]**

**Solar Inverter and Battery Back-up**



**Solar Panels on top of the Building of NIT- Arunachal Pradesh**

## 3. ACADEMIC ACTIVITIES

### 3.0 Introduction

During this year, the Institute offered Undergraduate programmes in following three disciplines:

- Computer Science & Engineering
- Electronics & Communication Engineering
- Electrical & Electronics Engineering

### 3.1 New Undergraduate and Postgraduate programmes

Approval for two new 4-years B. Tech Degree courses in Civil Engineering and Mechanical Engineering has been obtained and are scheduled to be introduced from July, 2013. Approval for M.Tech in Mobile Communication & Computing and in Appropriate Technology & Entrepreneurship has been obtained and the course are to start from July, 2013.

### 3.2 Ph.D Programme

The Institute offeres Ph. D. programme in Computer Science & Engineering.

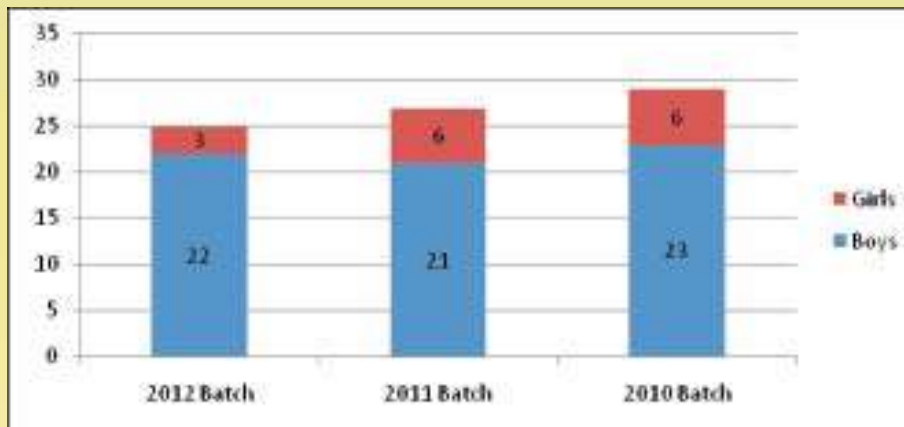
### 3.3 Admission of students

Students, after qualifying the All India Entrance Engineering Examination (AIEEE), report to the counselling centres and opt for the Institute and branch of study of their liking/choice and as per availability of the seats, admission is allowed to them. In case, there is no seat available in the Institute of their choice, they are allowed to opt other institute or branch. Admissions to all NITs are conducted by the Central Counselling Board and NIT-Rourkela was the in-charge of this for the academic year 2012-13.

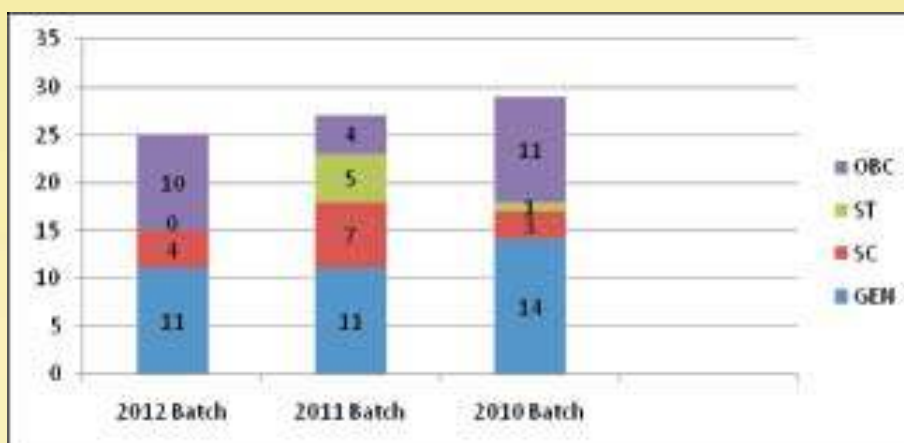
Students admitted during the academic year 2012-13 --- at a glance

Table 3.1  
(B. Tech. Computer Science & Engineering)

| Year     | No. of students enrolled       |       |       |       |       |       |       |       |       |       |          |       |       |       |
|----------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
|          | Total no. of students admitted |       | SC    |       | ST    |       | OBC   |       | GEN   |       | MINORITY |       | PH    |       |
|          | Total                          | Girls | Total | Girls | Total | Girls | Total | Girls | Total | Girls | Total    | Girls | Total | Girls |
| 1st year | 25                             | 3     | 4     | 0     | 0     | 0     | 10    | 0     | 11    | 3     | 0        | 0     | 0     | 0     |
| 2nd year | 27                             | 6     | 7     | 0     | 5     | 3     | 4     | 2     | 11    | 1     | 0        | 0     | 0     | 0     |
| 3rd year | 29                             | 6     | 3     | 0     | 1     | 0     | 11    | 2     | 14    | 4     | 0        | 0     | 0     | 0     |



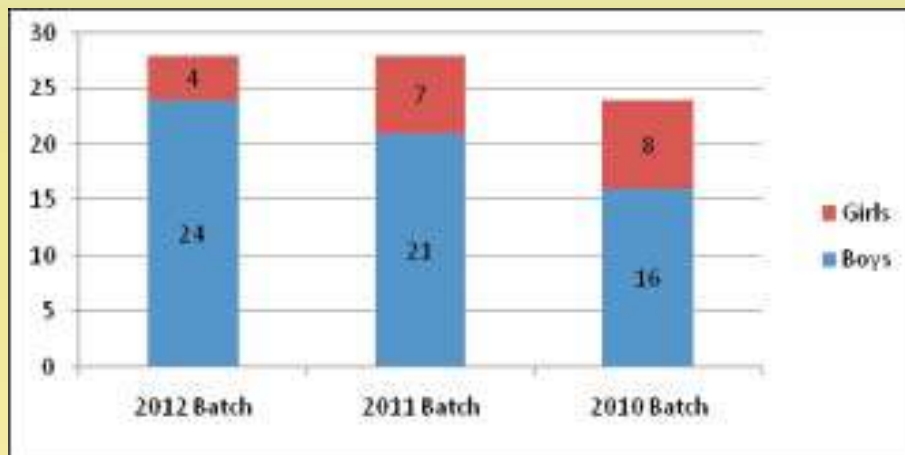
[No. of students registered (gender-wise) in Computer Science & Engg.]



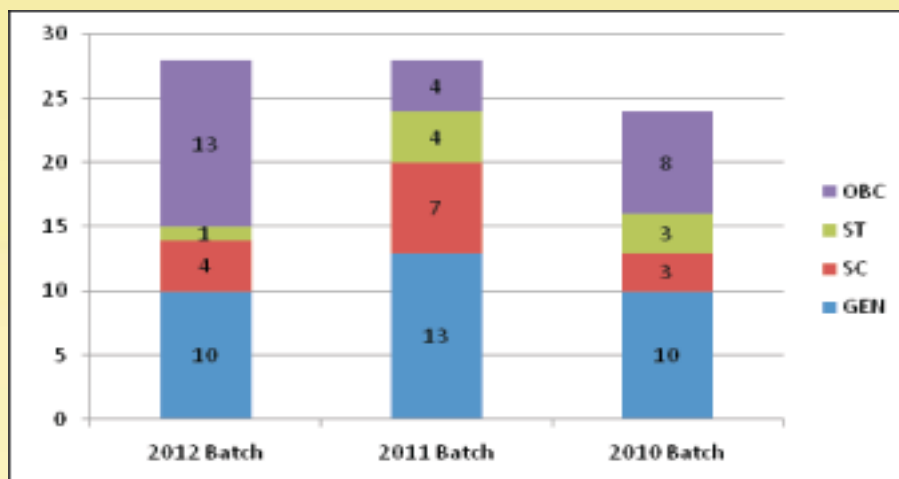
[No. of students registered (category-wise) in Computer Science & Engg.]

**Table 3.2**  
**(B.Tech. Electronics & Communication Engineering)**

| Year     | No. of students enrolled       |       |       |       |       |       |       |       |       |       |          |       |       |       |
|----------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
|          | Total no. of students admitted |       | SC    |       | ST    |       | OBC   |       | GEN   |       | MINORITY |       | PH    |       |
|          | Total                          | Girls | Total | Girls | Total | Girls | Total | Girls | Total | Girls | Total    | Girls | Total | Girls |
| 1st year | 28                             | 4     | 4     | 1     | 1     | 0     | 13    | 2     | 10    | 1     | 0        | 0     | 0     | 0     |
| 2nd year | 28                             | 7     | 7     | 1     | 4     | 2     | 4     | 2     | 13    | 2     | 0        | 0     | 0     | 0     |
| 3rd year | 24                             | 8     | 3     | 1     | 3     | 2     | 8     | 2     | 10    | 3     | 0        | 0     | 0     | 0     |



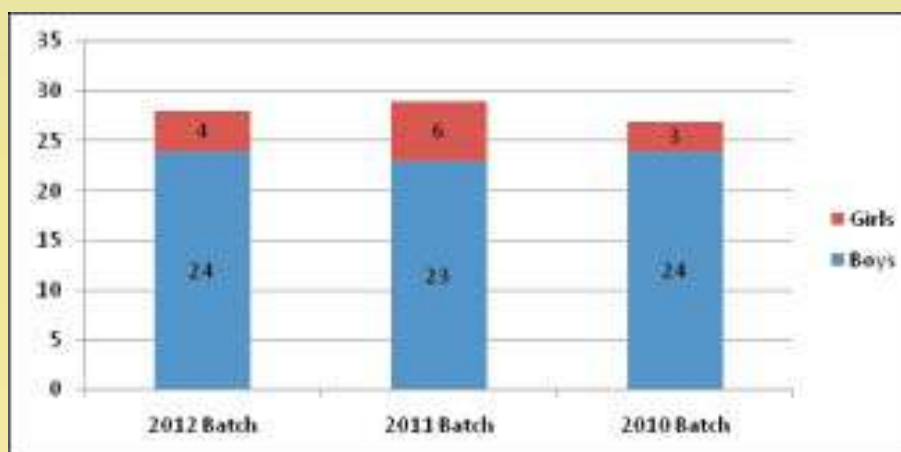
[No. of students registered (gender-wise) in Electronics & Communication Engg.]



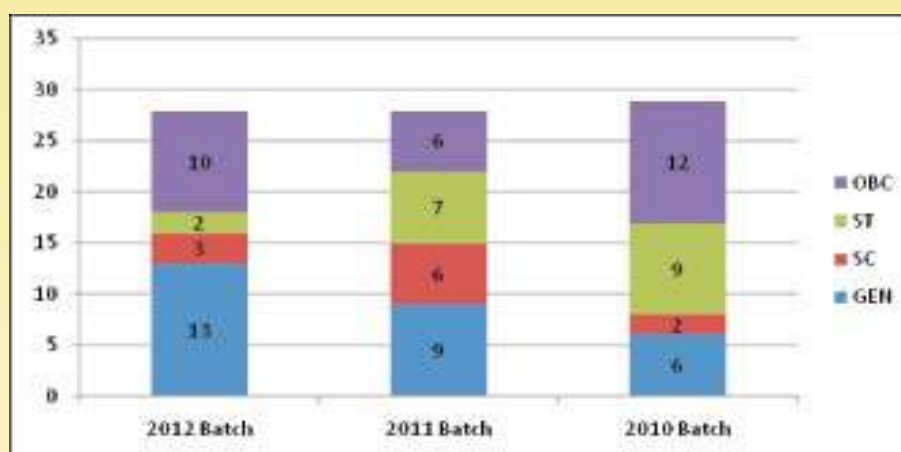
[No. of students registered (category-wise) in Electronics & Communication Engineering]

**Table 3.3**  
**(B.Tech Electrical & Electronics Engineering)**

| Year     | No. of students enrolled       |       |       |       |       |       |       |       |       |       |          |       |       |       |
|----------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
|          | Total no. of students admitted |       | SC    |       | ST    |       | OBC   |       | GEN   |       | MINORITY |       | PH    |       |
|          | Total                          | Girls | Total | Girls | Total | Girls | Total | Girls | Total | Girls | Total    | Girls | Total | Girls |
| 1st year | 28                             | 4     | 3     | 0     | 2     | 0     | 10    | 3     | 13    | 1     | 0        | 0     | 0     | 0     |
| 2nd year | 29                             | 6     | 6     | 1     | 7     | 2     | 6     | 1     | 9     | 2     | 1        | 0     | 0     | 0     |
| 3rd year | 27                             | 3     | 2     | 0     | 2     | 0     | 17    | 2     | 6     | 1     | 0        | 0     | 0     | 0     |



[No. of students registered (gender-wise) in Electrical & Electronics Engg.]



[No. of students registered (category-wise) in Electrical & Electronics Engg.]

**Table 3.4**  
**(Ph.D in Computer Science & Engineering)**

| Year | No. of students enrolled       |       |       |       |       |       |       |       |       |       |       |       |
|------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | Total no. of students admitted |       | SC    |       | ST    |       | OBC   |       | GEN   |       | PH    |       |
|      | Total                          | Girls | Total | Girls | Total | Girls | Total | Girls | Total | Girls | Total | Girls |
|      | 2                              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 0     | 0     | 0     |

**Table 3.5**  
**Total number of students on roll from 2010 to 2012**

| Course |          | Computer Science & Engineering |       | Electronics & communication Engineering |       | Electrical & Electronics Engineering |       | Grand Total |
|--------|----------|--------------------------------|-------|---|-------|--------------------------------------|-------|-------------|
|        |          | Boys                           | Girls | Boys                                    | Girls | Boys                                 | Girls |             |
| B.Tech | 1st year | 22                             | 3     | 24                                      | 4     | 24                                   | 4     | 81          |
|        | 2nd year | 21                             | 6     | 21                                      | 7     | 23                                   | 6     | 84          |
|        | 3rd year | 23                             | 6     | 16                                      | 8     | 24                                   | 3     | 80          |
| Ph.D   |          | 2                              | 0     | 0                                       | 0     | 0                                    | 0     | 2           |
| Total  |          | 68                             | 15    | 61                                      | 19    | 71                                   | 13    | 247         |

[Total number of students (branch-wise) enrolled during the year under report]

## 4. DEVELOPMENTAL ACTIVITIES

### 4. Introduction

The space available in the Institute (which is, at present, functioning in its temporary campus at Yupia) is quite limited and it needs more space to accommodate the students, faculty members and other employees which are increasing year after year.

### 4.1 New construction

To meet out the space requirement for laboratories, class rooms, library and offices, it became absolutely necessary to construct additional rooms in the existing space and, therefore, construction work of thirteen (13) new rooms has been done during the year under report.

### 4.2 Laboratory development

The following laboratories/ workshops have been installed and those are functioning in a proper manner:



Computer Network Centre and Computing Laboratory



Networking Laboratory



Basic Electronics  
Laboratory



Electrical Measurement  
Laboratory

Electrical Machine  
Laboratory



Simulation Laboratory

Language Laboratory





Engineering Physics  
Laboratory

Computer Laboratory for  
M.Tech and Ph.D students



Mechanical Workshop

### 4.3 Development of permanent site of the Institute at Jote, Dist-Papumpare, Work-in-Progress

The work of sight-development at the permanent site of the Institute (at Jote, District: Papumpare, Arunachal Pradesh) is about to be completed. The boundary pillars are being constructed and the contract for other construction works has been awarded. The work is in progress.

#### Helipad

A temporary helipad has been constructed for emergency purposes, visits of Central & State VIPs and any other exigency works. The landing ground was prepared prior to the 'Foundation Stone' laying ceremony of the Institute at its permanent site at Jote. The stone plaque was unveiled by Dr M M Pallam Raju, Hon'ble Union Minister of Human Resource Development.



Temporary helipad at Jote, District: Papumpare

### Land Development

Since, the permanent site of the Institute is located in the heart of a mountainous / hilly terrain of Arunachal Pradesh, there is a need of developing the land before construction and creation/erecting of any type of structure. Thus, the portion of land has been developed for construction of Hostel buildings, Academic buildings, Administrative buildings, Director's Bungalow etc. Apart from the land development, the work relating to road-connectivity within the campus has also been done.



Existing site of the permanent campus



Site after levelling of land

### Temporary office-shed

A temporary office-shed has been constructed on the permanent site at Jote for supervising /controlling of construction works being undertaken therein.



Temporary office-shed for supervising construction works at Jote

### Drinking Water Survey

The survey of drinking water was done in conjunction with the PHE & WS Department, Government of Arunachal Pradesh. The level of head for pipe-line connection meets the requirements and the water available/found in the source is fresh and clean in nature. The vicinity of the area of source is free from pollution and on the virgin lap of flora & fauna. The construction of WTP & work for connectivity of water supply will be carried out by the PHE & WS Department, Government of Arunachal Pradesh.



Survey of drinking water at Jote



Assistant Engineer of the Institute surveying the site at Jote

## 5. ACADEMIC DEPARTMENTS

### 5. Introduction

The National Institute of Technology-Arunachal Pradesh offers 4-years B. Tech degree programmes in Computer Science & Engineering, Electronics & Communication Engineering and Electrical & Electronics Engineering. Two more disciplines (Civil Engineering and Mechanical Engineering) have been approved and are scheduled to start from July 2013. Besides, the Institute has also started Research programme leading to PhD in Computer Science & Engineering.

#### 5.1 Number of Faculty positions filled up during 2012-13:

| Professor |        | Associate Professor |        | Assistant Professor |        | Total |        | Grand Total |
|-----------|--------|---------------------|--------|---------------------|--------|-------|--------|-------------|
| Male      | Female | Male                | Female | Male                | Female | Male  | Female |             |
| 0         | 0      | 0                   | 0      | 8                   | 1      | 8     | 1      | 9           |

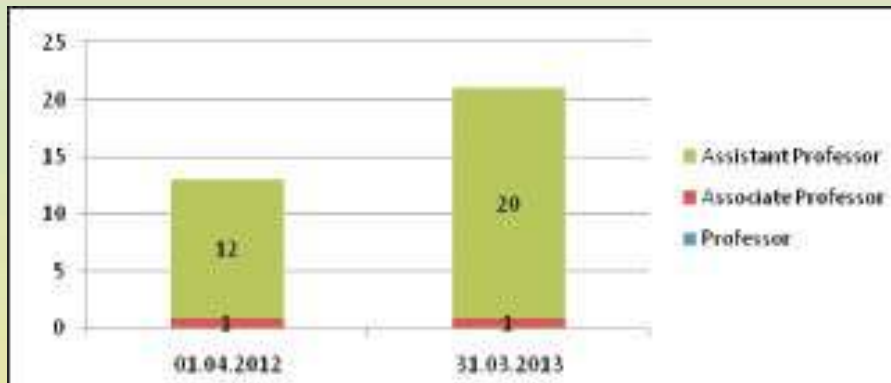
#### 5.2 Current strength of the Faculty as on 31.03.2013

| Professor |        | Associate Professor |        | Assistant Professor |        | Total |        | Grand Total |
|-----------|--------|---------------------|--------|---------------------|--------|-------|--------|-------------|
| Male      | Female | Male                | Female | Male                | Female | Male  | Female |             |
| 0         | 0      | 1                   | 0      | 18                  | 3      | 19    | 3      | 22          |

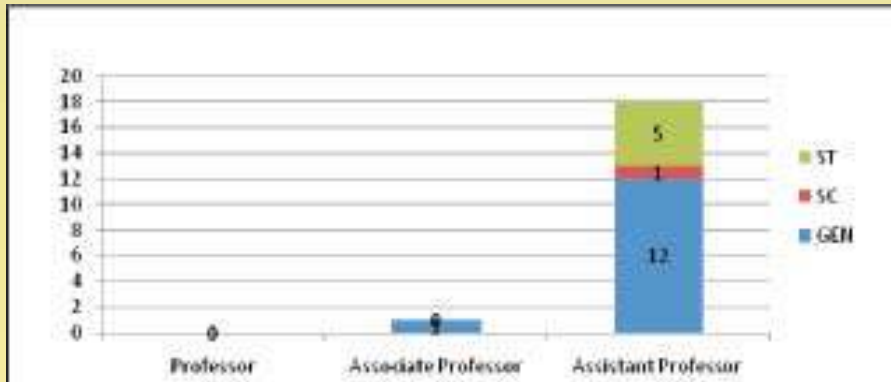
#### 5.3 Faculty Profile as on 31.3.2013

|                     | GEN |   | SC |   | ST |   | PH |   | Women |   | Minorities |   |
|---------------------|-----|---|----|---|----|---|----|---|-------|---|------------|---|
| Professor           | 0   | 0 | 0  | 0 | 0  | 0 | 0  | 0 | 0     | 0 | 0          | 0 |
| Associate Professor | 1   | 0 | 0  | 0 | 0  | 0 | 0  | 0 | 0     | 0 | 0          | 0 |
| Assistant Professor | 12  | 0 | 1  | 0 | 5  | 0 | 0  | 0 | 3     | 0 | 0          | 0 |

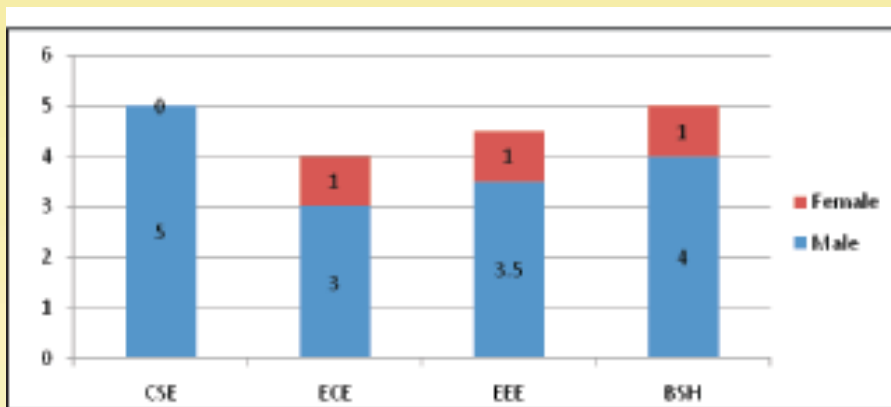
## ANNUAL REPORT 2012-13



Faculty status during the period under report



Category-wise faculty strength



Department-wise faculty position

#### 5.4 Appointment of Faculty members during the year 2012-13

| Sl. No. | Name                                    | Department | Date of Joining |
|---------|---|------------|-----------------|
| i       | Abhishek Kumar, Assistant Professor     | EEE        | 01.08.2012      |
| ii      | Bapi Sarkar, Assistant Professor        | BS&H       | 03.08.2012      |
| iii     | Ms Yaka Bulo, Assistant Professor       | ECE        | 07.08.2012      |
| iv      | Koj Sambyo, Assistant Professor         | CSE        | 07.08.2012      |
| v       | Sahadev Roy, Assistant Professor        | ECE        | 13.08.2012      |
| vi      | Anish Kumar Saha, Assistant Professor   | CSE        | 03.10.2012      |
| vii     | Ananda Sankar Hati, Assistant Professor | EEE        | 30.01.2013      |
| viii    | Santanu Maity, Assistant Professor      | ECE        | 27.02.2013      |
| ix      | Subhasish Banerjee, Assistant Professor | CSE        | 27.02.2013      |

#### 5.5 Faculty retirement and resignation during the year 2012-13

| Sl. No. | Name and Department  | Department          | Date       | Event    |
|---------|----------------------|---------------------|------------|----------|
| i       | Arnab Nandi, ECE     | Assistant Professor | 24.08.2012 | Resigned |
| ii      | Uttam Roy, ME        | Assistant Professor | 13.02.2013 | Resigned |
| iii     | Amiya Dey, ECE       | Assistant Professor | 28.02.2013 | Resigned |
| iv      | Sudipta Mondal, CSE  | Assistant Professor | 10.08.2012 | Resigned |
| v       | Dr. Banani Basu, ECE | Assistant Professor | 05.07.2012 | Resigned |

#### 5.6 Visits of Faculty members during the year 2012-13 abroad

| Sl. No. | Name                        | Designation                | Department | Place and purpose of visit  |
|---------|-----------------------------|----------------------------|------------|---|
| i       | Kaveri Bhuyan               | Assistant Professor & Head | EEE        | To participate in a Conference on Renewal Energy Sources held at International Centre for Theoretical Physics (UNO), Trieste, Italy |
| ii      | Swarnendu Kumar Chakraborty | Assistant Professor & Head | CSE        | To present research paper at ITNG (IEEE) Conference held at Las Vegas, USA  |

### 5.7 Department of Computer Science & Engineering

Computer Science & Engineering is a multi-disciplinary branch of engineering which integrates several fields. The Department of Computer Science & Engineering was established right from the inception of the Institute in 2010. The Department offers a four-year degree program in Computer Science & Engineering with an annual intake of 30 students. The Department is also to start Ph.D. programme from July - December, 2012 session. The Department of Computer Science & Engineering (CSE) embodies the Institute's tradition of excellence in engineering and technical education.

#### Faculty Members

| Sl. No. | Name of the faculty         | Date of joining | Designation         | Area of Specialization           |
|---------|-----------------------------|-----------------|---------------------|----------------------------------|
| i       | Swarnendu Kumar Chakraborty | 01.11.2011      | Assistant Professor | Error Control & Network Security |
| ii      | Rajat S Goswami             | 01.11.2011      | Assistant Professor | Multimedia & Network Security    |
| iii     | Koj Sambyo                  | 07.08.2012      | Assistant Professor | Computer Networking              |
| iv      | Anish Kumar Saha            | 03.10.2012      | Assistant Professor | Computer Networking              |
| v       | Subhasish Banerjee          | 27.02.2013      | Assistant Professor | Network Security                 |

#### Students' Strength

|                  | Male      | Female    | Total     |
|------------------|-----------|-----------|-----------|
| B. Tech 1st year | 22        | 3         | 25        |
| B. Tech 2nd year | 21        | 6         | 27        |
| B. Tech 3rd year | 23        | 6         | 29        |
| B. Tech 4th year | 0         | 0         | 0         |
| P.G.             | 0         | 0         | 0         |
| Ph. D.           | 2         | 0         | 2         |
| <b>Total</b>     | <b>68</b> | <b>15</b> | <b>83</b> |

**Expert faculty from reputed Institutions**

| Sl. No. | Name of the Experts  |
|---------|--|
| i       | Prof. Ajit Pal, Dept. of Computer Science & Engg, IIT- Kharagpur   |
| ii      | Prof. Paramartha Dutta, Department of Computer & System Sciences, Visva Bharati University, Santiniketan |
| iii     | Prof. Atal Chowdhury, Department of Computer Science & Engg, Jadavpur University, Kolkata                |
| iv      | Sh. Sufal Das, Department of Information Technology, North Eastern Hill University, Shillong             |

**5.8 Department of Electronics & Communication Engineering**

The Department of Electronics & Communication Engineering was established right from the inception of the Institute in 2010. The Department offers a four year degree program in Electronics & Communication Engineering with an annual intake of 30 students. The Mission of the Department of Electronics & Communication Engineering is to produce and disseminate theory, principles, practice and know-how of computing in the information age, for the critical analysis, design, evaluation, and improvement of computing systems in tune with the needs and demands of the changing times. The curriculum strives to keep the students posted at par with the latest trends of the world.

**Faculty Members**

| Sl. No. | Name of the faculty    | Date of joining | Designation         | Area of Specialization  |
|---------|------------------------|-----------------|---------------------|-------------------------|
| i       | Dr. Pinaki Chakraborty | 01.12.2011      | Assistant Professor | Microelectronics        |
| ii      | Sh. Sahadev Roy        | 13.08.2012      | Assistant Professor | Mechatronics & Robotics |
| iii     | Ms Yaka Bulo           | 07.08.2013      | Assistant Professor | VLSI                    |
| iv      | Sh. Santanu Maity      | 27.02.2013      | Assistant Professor | RF & Microwave          |

**Students' Strength**

|                  | Male      | Female    | Total     |
|------------------|-----------|-----------|-----------|
| B. Tech 1st year | 24        | 4         | 28        |
| B. Tech 2nd year | 21        | 7         | 28        |
| B. Tech 3rd year | 16        | 8         | 24        |
| B. Tech 4th year | 0         | 0         | 0         |
| <b>Total</b>     | <b>61</b> | <b>19</b> | <b>80</b> |

**Expert faculty from reputed Institutions**

| Sl. No. | Name of the Experts   |
|---------|---|
| i       | Prof. S. C. Dutta Roy, Department of Electrical Engineering, IIT-Delhi  |
| ii      | Prof. P. K. Basu, Department of Radiophysics & Electronics, Calcutta University, Kolkata  |
| iii     | Prof. S. L. Maskara, Department of Electronics & Communication Engg. IIT-Khargpur   |
| iv      | Prof. S. Subedar, Department of Electronics & Communication Engineering, North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh |

**5.9 Department of Electrical & Electronics Engineering**

Department of Electrical & Electronics Engineering was established right since the first dawn of the Institute in 2010. The Department offers a four year degree program in Electrical & Electronics Engineering with an annual intake of 30 students. The Electrical & Electronics Engineering is a multi-disciplinary branch aiming at building strong foundations of the students through understanding of basic principles that underlie modern Electrical & Electronic Technology. The discipline offers courses including various aspects of Electrical & Electronics Engineering, each supplemented with practical classes to enhance the practical understanding of the underlying concepts.

**Faculty Members**

| Sl. No. | Name of the faculty | Date of joining | Designation         | Area of Specialization                |
|---------|---------------------|-----------------|---------------------|---------------------------------------|
| i       | Prof. P. D. Kashyap | 01.11.2011      | Associate Professor | Measurement and Instrumentation       |
| ii      | Ms. Kaveri Bhuyan   | 30.01.2012      | Assistant Professor | High Voltage Engineering              |
| iii     | Rajen Pudur         | 01.02.2012      | Assistant Professor | Power Systems                         |
| iv      | Abhishek Kumar      | 01.08.2012      | Assistant Professor | Electrical Machines                   |
| v       | Ananda Sankar Hati  | 30.01.2013      | Assistant Professor | Applied Electronics & Instrumentation |

**Students' Strength**

|                  | Male      | Female    | Total     |
|------------------|-----------|-----------|-----------|
| B. Tech 1st year | 24        | 4         | 28        |
| B. Tech 2nd year | 23        | 6         | 29        |
| B. Tech 3rd year | 24        | 3         | 27        |
| B. Tech 4th year | 0         | 0         | 0         |
| <b>Total</b>     | <b>71</b> | <b>13</b> | <b>84</b> |

**Expert faculty from reputed Institutions**

| Sl. No. | Name of the Experts  |
|---------|--|
| i       | Prof P. Sarkar, Department of Electrical Engineering, NITTTR-Kolkata |

**5.10 Department of Basic Sciences and Humanities**

Basic Sciences & Humanities is an inter-disciplinary branch of engineering which integrates several fields such as Physics, Chemistry, Mathematics, Life Science and Humanities. The Department of Basic Sciences & Humanities was established right from the inception of the Institute in 2010. The Mission of the Department is to impart knowledge of basic sciences to the engineering students and to develop their communication and soft skills to help improve their career prospects and assist them in becoming better engineers to serve the society and the country as a whole.

**Faculty Members**

| Sl. No. | Name of the faculty    | Date of joining | Designation         | Area of Specialization |
|---------|------------------------|-----------------|---------------------|------------------------|
| i       | Dr. Utpal Saha         | 27.01.2012      | Assistant Professor | Special Function       |
| ii      | Dr. Nabakumar Pramanik | 29.12.2011      | Assistant Professor | Inorganic Chemistry    |
| iii     | Dr. Karam Ratan Singh  | 31.01.2012      | Assistant Professor | Graph Theory           |
| iv      | Bapi Sarkar            | 03.08.2012      | Assistant Professor | Aerodynamics           |
| v       | Ms Narang Rija         | 28.03.2012      | Assistant Professor | Folk lore              |

**Expert faculty etc. from reputed Institutions**

| Sl. No. | Name of the Experts  |
|---------|--|
| i       | Prof. Jibon Chakraborty, Adjunct Professor, Department of Basic Sciences & Humanities, Kolkata |
| ii      | Prof. Gulab Jha, Department of Foreign Languages, Guwahati University                          |
| iii     | Dr. S. K. Dutta, Professor, National Institute of Rural Development, Guwahati                  |
| iv      | Dr. Madan Mohan Singh, Department of Mathematics, NEHU, Shillong                               |
| v       | Pranab Sharma, EDP , IIE, Guwahati   |
| vi      | Subhabrata Barman, HIT, West Bengal  |
| vii     | Sonjib Mitra, AOT, West Bengal University of Technology, Kolkata                               |
| viii    | Udahab Bharali, Entrepreneur, North Lakhimpur, Assam   |

## 6. RESEARCH ACTIVITIES

### 6.0 Introduction

During the period under report, substantial research activities have been undertaken by the faculty members of the Institute and a summary of the same is given hereunder.

### 6.1 Research Programmes

#### Doctoral Programme

During the year under report, two Research Scholars had been registered for the Ph.D. programme in the Department of Computer Science & Engineering as per the following details.

| Name of the student       | Area of research              | Title of the thesis  | Name of the supervisor |
|---------------------------|-------------------------------|--|------------------------|
| Swarnendu Kr. Chakraborty | Advanced error control        | Protocols for Improving Performance of Aggressive Packet Combining Scheme towards Achieving Higher Throughput and Wide Flexibility | Prof.(Dr.) C T Bhunia  |
| Rajat Subhra Goswami      | Cryptography Network Security | New Techniques Investigation for Developing of Automatic Variable Key in Achieving Perfect Security                                | Prof.(Dr.) C T Bhunia  |

#### Research Projects

The projects submitted during the year under report are as follows:

| Project title   | Principal Investigator | Co-Principal Investigator                          | Submitted to                                       |
|---|------------------------|--|--|
| Investigation to design & develop new techniques & theories for accurate and secured transport of information over future generation of networks with | Prof. (Dr.) C T Bhunia | Rajat Subhra Goswami and Swarnendu Kr. Chakraborty | Council of Scientific and Industrial Research, GoI |

|   |                       |  |  |
|---|-----------------------|--|--|
| guaranteed quality of services and with higher throughputs, lower delay and higher level of security. |                       |  |  |
| Analytical and Numerical Methods for Non-linear Fractional Dynamic System                             | Dr. Utpal Kumar Saha  |  | Department of Science and Technology, GoI                      |
| A study on p-graphoidal graphs  | Dr. Karam Ratan Singh |  | National Board of Higher Mathematics (D/o. Atomic Energy, GoI) |

## 6.2 Research facilities

Free analytical and Inter-NET research facility to the research scholars has been developed and provided during the year.

### Research and Development Cell

Research is an integral component of any educational programme. In order to do meaningful research, it is imperative to review the recent advances in the concerned subjects from time to time. The sole purpose of the present conference is to have interaction between the scientists, mathematicians, engineers and management experts, and thus, come to know about the advances made in the recent past in the broad areas of Chemical Sciences, Earth System Sciences, Engineering Sciences, Environmental Sciences, Material Sciences, Mathematical Sciences and Physical Sciences. This is expected to provide a boost to the R & D programmes.

### Research and Development Programmes

- Ph.D Programme
- Junior Research Fellowship Programme (JRF)
- North Eastern Regional Science Congress on "Science For Shaping The Future of India" 2013

### 6.3 Publications

The faculty members published several papers in National / International Seminars during the year. The Institute brought out an International Journal of Current Science and Technology during the year under report. The different publications are listed below:

- Dr. C. T. Bhunia, Swarnendu Kumar Chakraborty, Rajat Subhra Goswami: "A New Technique (CSAVK) of Automatic Variable Key in Achieving Perfect Security", 100th Indian Science Congress Association, PP-102-103, 3rd – 7th January, 2013.
- Dr. C T Bhunia, Abhinandan Bhunia, Swarnendu Kr. Chakraborty, Rajat Subhra Goswami: "Schemes of High Throughput Modified Aggressive Packet Combining", 100th Indian Science Congress Association 2013, PP-35-39, 3rd – 7th January, 2013.
- Abhinandan Bhunia, Abhirup Bhunia, Swarnendu Kr. Chakraborty, Pinaki Chakraborty, Rajat Subhra Goswami, Nabakumar Pramanik, Mohit Kumar De, Pralay Kumar Samanta, C T Bhunia: " Review and Suggestion for Revamping Technical Higher Education in India to Meet the Challenges of Future", International Journal of Current Science & Technology, Vol-1, No 1, January-June 2013, Pages: 21-29, North Eastern Regional Science Congress on Science For Shaping The Future of India, ISSN: 2320 5636,
- Rajat Subhra Goshwami, Swarnendu Kr. Chakraborty, Abhinandan Bhunia, C T Bhunia: " Cipher combining technique to tackle error propagation behaviour of AES", International Journal of Current Science & Technology, Vol-1, No 1, January-June 2013, Pages: 159-160, North Eastern Regional Science Congress on Science For Shaping The Future of India, ISSN: 2320 5636,
- Swarnendu Kr. Chakraborty, Rajat Subhra Goswami, Abhinandan Bhunia, C T Bhunia: " Two new protocols for improving performance of aggressive packet combining", International Journal of Current Science & Technology, Vol-1, No 1, January-June 2013, Pages: 161-165,

North Eastern Regional Science Congress on Science For Shaping The Future of India, ISSN: 2320 5636,

- Anish Kumar Saha, Partha Pratim Deb, Moutushi Kar and D Rudrapal: "An Optimization Technique of Web Caching using Fuzzy Inference System", International Journal of Computer Applications 43(17): 20th-23rd, April, 2012. Published by Foundation of Computer Science, New York, USA.
- Hrituparna Paul, Anish Kumar Saha, Partha Pratim Deb and Partha Sarathi Bhattacharjee: "Comparative Analysis of Different TCP Variants in Mobile Ad-Hoc Network", International Journal of Computer Applications 52(13):19th-22nd August, 2012. Published by Foundation of Computer Science, New York, USA.
- Partha Sarathi Bhattacharjee, Anish Kumar Saha and Shahin Ara Begum: "The Application of E-commerce in Business Application: Their Problems and Prospects", International Journal of Computer Applications 49(10):36-40, July 2012. Published by Foundation of Computer Science, New York, USA.
- Avra Kundu, Sonali Das, Santanu Maity, Bhaskar Gupta, Samir K Lahiri and Hiranmay Saha: "A tunable band-stop filter using a metamaterial structure and MEMS bridges on a silicon substrate" (JOURNAL Micromech. Microeng. 22 (2012) 045004 (12pp))
- Santanu Maity, Avra Kundu, Hiranmay Saha, Utpal Gangopadhyay: "Light induced plating for enhance efficiency by improving fill factor and short circuit current" International Journal on Current Science & Technology Vol – I, No – I, January-June, 2013 p-125-128 ISSN: 2320 5636.
- Santanu Maity, Sonali Das, Soma Ray, Utpal Gangopadhyay, Swapan K Datta and Hiranmay Saha: "Plasmonic effect in Light-Induced Plating of c-Si solar cell", International Conference on Emerging Science 15th to 17th December 2012, IEEE, IITB

- Sonali Das, Santanu Maity, Prasenjit Dey, Avra Kundu, Nillohit Mukherjee, Swapan K. Datta and Hiranmay Saha: “Nano particles for high efficiency silicon solar cells: Status and Prospects” 20th West Bengal State Science & Technology Congress, BESU, 28th February-2nd March 2013
- Santanu Maity, Sonali Das, Avra Kundu. Swapan K. Datta and Hiranmay Saha: “Nanotexturing of silicon surfaces for solar cell applications” 20th West Bengal state science & technology congress, BESU, 28th February-2nd March 2013
- Sarsing Gao and Abhishek Kumar: “Mitigation of unbalanced currents in three-phase asynchronous generator supplying single-phase nonlinear load”, Proc. IEEE Conference, ICSET 2012, pp 246-251, September 2012, Kathmandu, Nepal.



(Lt. Gen J.J. Singh, H.E. the Governor of Arunachal Pradesh is delivering inaugural address of the North East Regional Science Congress 2013)

## 7. STUDENTS' AMENITIES AND ACTIVITIES

### 7.0 Introduction

The details of the amenities for the students provided by the Institute are something unique and they actually love the Institute situated on the lap of the MOTHER NATURE.

### 7.1 Hostels

Hostels of the Institute are the units of dwelling place, a home away from the home cared by the Hostel Provost, Wardens and Hostel Staff. The rooms are well-spaced for all the students to live and to study, and are provided with individual cots. Landscape in and around the hostels makes the environment healthier and beautiful. The hostels are supported with playground for the students. Well-equipped common rooms exist in each boys' and girls' hostel separately. Medical facility is available to the students and members of staff to tackle the health hazards.

### 7.2 Hostel Accommodation

At present, the Institute has six (6) hostels, of which four hostels are for boys and two hostels are for girls. The total capacity of these hostels is 250. The Institute is fully residential and all the students (i.e. boys and girls) are accommodated in their respective hostels.

**Table 7.1**

**Details of Accommodation in the Students Hostels**

| Sl. No. | Name of the hostel | Year of establishment | Type of accommodation | No. of rooms | Total no. of inmates |
|---------|--------------------|-----------------------|-----------------------|--------------|----------------------|
| i       | Tiger Hall         | 2010                  | Triple Room           | 25           | 64                   |
| ii      | Lotus Hall         | 2010                  | Triple Room           | 12           | 35                   |
| iii     | Peacock Hall       | 2011                  | Triple Room           | 18           | 43                   |
| iv      | Pragati Hall       | 2012                  | Triple Room           | 35           | 68                   |
| v       | Rose Hall          | 2012                  | Triple Room           | 18           | 11                   |
| vi      | Dormitory          | 2011                  | Double Room           | 15           | 24                   |

### 7.3 Hostel Administration

The Institute has provided supporting staff to maintain the hostels. The duties of the hostel administration are being carried out under the direction of the Hostel Provost who heads the management of boys' and girls' hostels. He is supported by wardens and office staffs. The details of the Wardens of the hostels are given below:

#### Boys' Hostels:

- i. Dipak Jana, Warden, Tiger Hall of Residences, Yupia, Arunachal Pradesh
- ii. Sugriv Kumar, Warden, Peacock Hall of Residences, Yupia, Arunachal Pradesh
- iii. Tapabrata Adhikari, Warden Pragati Hall of Residence, Nirjuli, Arunachal Pradesh
- iv. Ujjal Samanta, Assistant Warden, Pragati Hall of Residence, Nirjuli, Arunachal Pradesh

#### Girls' Hostels:

- i. Ms Abi Taying, Warden, Rose Hall of Residence, Nirjuli, Arunachal Pradesh
- ii. Vacant for Lotus Hall of Residence, Yupia, Arunachal Pradesh

### 7.4 Hostel Mess

Students who are admitted to the hostels are provided with food in the mess. Hostel mess is compulsory for all hostellers. No permission is granted for dining outside the respective hostel mess under any circumstances. All the messes have been outsourced. The hostel messes are run by experienced and qualified caterers. The messes offer healthy meals at moderate rates.

### 7.5 General Facilities

- The Institute's Health Centre offers medical facilities.
- Proper lighting arrangement has been made inside and outside the hostels.
- Each hostel has a separate common/recreation hall.
- Wi-Fi connection is also provided in all the hostels.

### 7.6 Subsidy

The Institute is also planning to provide mess subsidy to the inmates of the hostels based on the income of the parents. The amount is not to exceed certain minimum level subject to the approval of the Director of the Institute.

### 7.7 Placement Cell

Placement Cell plays a very important role in counselling and guiding the students of the Institute for their professional growth and successful career placement. The placement aspect is a crucial interface between the stage of completion of academic programme of studies and that of the entry into suitable employment.

Besides, in order to provide ample opportunities to students to get proper placement in industries and companies, the Placement Cell conducts workshops and mock interviews. It has prepared a draft Placement Brochure and the same will be released in 2013-14 to invite the industries/organizations for campus interviews. Video-conferencing facility has been established in 2012-13 for conducting one-to-one interview.

### 7.8 Programme organized by National Service Scheme (NSS) Unit of the Institute

#### Tree plantation

Mass Social Service was organized on 5th September, 2012 by the NSS unit to mark the Teacher's Day with Tree plantation by Director, Dean (Acad.) and the OSD in the presence of the members of staff and students.



(Tree plantation by Director and the OSD in the presence of the members of staff and students)



Tree plantation by Dean (Academic) in the presence of the members of staff and students

### Blood Donation Camp

The Blood Donation Camp was organised on 13th February, 2013 in collaboration with the Arunachal State Hospital, Naharlagun, where sixty (60) students and members of staff donated their blood voluntarily.



Astt. Dean (Examination) participating in the Blood Donation Camp

HoD, CSE participating in the Blood Donation Camp



## 8. INNOVATIONS AND EMERGING NEEDS

### 8.0 Introduction

The National Institutes of Technology (NITs) were established with the mandate to impart higher technical education and also to carry out research work at par with the standards adopted by international universities. In pursuance of achieving excellence at par and meeting the basic objectives of establishing the NITs, the Institute has initiated various innovative measures not known to be in operation as such elsewhere. These innovations are meant to do things differently rather than to do different things. It is pertinent to mention here that the ten new NITs are in addition to the existing twenty older NITs in the country. The older NITs have required huge experience and have become matured with the passage of time. The ten new NITs are young enough and need to be innovative from the very beginning for achieving excellence. NIT-Arunachal Pradesh has started with a perfect tune and innovative ideas wherever and whenever possible within the existing frameworks of the NIT Act and Statutes.

The following paragraphs portray a summary of things initiated in NIT-Arunachal Pradesh for stepping in the hall of fame. The motive of doing so is to invite constructive review opinions and suggestions for possible addition, deletion and modifications of current actions of the Institute for steering the wheel in right direction for perfect achievements while ensuring an inclusive growth.

### 8.1 Academic Innovations

The Vision and Mission of NIT-Arunachal Pradesh stand on four pillars viz. EDUCATION, RESEARCH, SERVICE TO SOCIETY and ETHICS. In pursuit of this, several noble approaches are made in framing syllabi, selecting judicious new disciplines for UG & PG studies, introducing Ph. D programmes, undertaking social services and adopting country-specific programmes. The following are the details:

**Education in a frame of productive & forward looking syllabi in producing right and prospective engineers for the country**

The UG syllabi are chalked out with unique & distinct compulsory credit courses for all the disciplines and those are: NCC/NSS to make the students mentally & physically competent; Historiography in Science & Technology to make future engineers to know about the philosophy & struggle of their great predecessors to establish scientific & technological temper in the societal cause; Values & Ethics to produce future engineers with ethical mind and value-oriented human beings; Design Contest as an attempt to produce Technical Engineers rather than only academic engineers within the current framework of fixed four-year programme; Research Paper Communication to ignite young minds in thinking process and research viability; and Environmental Engineering & Disaster Management to provide time-relevant courses to meet emerging needs.

To make the students globally employable and competitive, several excellent courses are offered. These are basically communication skill development papers on English, French, German, Japanese and Chinese. All Electives are made open to students of any & all branches. Now-a-days, employability of students of CSE & IT (for that purpose all other disciplines too) is based on sometimes how much they know about Java, PHP, Ruby rather than that of core subjects. Hence in order to enhance the employability, which is one of the responsibilities of any *Institute of National Importance*, add-on courses (non-credit) are offered to the students during vacation/holidays, preferably by the Industrial Houses.

#### **Fabulous measures in examination process**

Several bold measures have been introduced or are in process of implanting in revamping the examination system in NIT-Arunachal Pradesh. The measures so undertaken are believed to examine as to how far the students know rather than what they do not know. Besides, engineers should be made to take up design on given problem with available formula and imaginative orientation rather than memorizing of dates, data and quotations. A few noteworthy initiatives taken up are: setting question paper of more marks (say 150 marks rather than the conventional 100 marks) and asking students to write whatever they can with a maximum given score (for example 100 marks), open book examination in selective mathematics and design oriented papers, and on-line examination in papers of objective type.

### Catering Industrial Flavours in imparting Education

Since the days of recommendation of Kothari Commission for Institute-Industry interaction, various steps are in operative in different universities through many different ways to realize the concept. However, NIT-Arunachal Pradesh promises to do the interaction through an approach reportedly never seen hitherto. The big ideas in operation in the Institute are I-course and compulsory industrial training for members of faculty. One paper in each semester of all branches is marked as I-course meaning that at least 50% of the course content of the paper will be taught by an Industrial Expert. In order to meet the challenges of not getting industrial experts for delivering lecture, other way around approach has been adopted up in NIT-Arunachal Pradesh. During summer vacation, teachers on rotation are sent to industry for training at least for a month at full cost of NIT- Arunachal Pradesh to allow them to acquire Industrial experience gradually.

### Inspiring change through judicious selection of new UG & PG courses

Several research works on technical education systems in India categorically pointed about the spurt of growth of institutes/universities owing to the LPG (Liberalization, Privatization & Globalization) concept adopted in India after 1990s. But the emphatic spurt has resulted in creating several imbalances in the technical education in India primarily due to Private Investment Policy of low investment and high return clubbed with the profit-only motive in most of the cases. The disciplines popularity in respect which are increasing in leaps and bounds, are low investment and service-oriented courses like Computer Science & Engineering, Information Technology and Electronics & Communication Engineering. Mother Core Sector engineering and high investment disciplines of Mechanical Engineering, Civil Engineering and Electrical Engineering are pathetically ignored. Any *Institute of National Importance* must act to correct this imbalance and, therefore, NIT-Arunachal Pradesh has resolved to start B Tech programme in Mechanical Engineering and Civil Engineering in 2013-14. At the same time, the Institute does not like to ignore the emergent areas for taking a giant lead forward. It has aspired to start M Tech in Mobile Communication & Computing Engg., being one of the most promising emergent fields, in 2013-14.

NIT-Arunachal Pradesh has taken a bold decision to introduce M Tech programme on Appropriate Technology & Entrepreneurship Practice in 2013-14 as a sole course in collaboration with the National Institute of Rural Development, Hyderabad. Several studies and statistics predict that the unemployment of engineering graduates in India will be a social crux and may be highly dismissive for engineering education in India to flourish and progress. As of today, around 40% engineering graduates are either jobless or in job with under-paid monthly emoluments. Most of the employed engineers suffer from frustration due to lack of job-satisfaction and lack of innovative strategies of the employers. In the age of LPG (Liberalization, Privatization and Globalization), it was predicted that the BRIC countries (i.e. Brazil, Russia, India and China) will be the power-centres to reckon with. The fact is that except in respect of China, it is difficult to believe that the prediction has been true. China has progressed based on several innovative measures, one of which is the revolution in entrepreneurship in manufacturing sectors with global market. India has not progressed much in entrepreneurship in manufacturing industries, although it has some impact only in service sectors that too in basically IT sectors. Therefore, it will be a wise approach either to introduce noble new M Tech programme in India to tackle the gaps mentioned above. Today in India, there is a need to produce engineers who will create jobs rather than run after jobs. At the same time, in India, one important unattended sector is appropriate technology relevant to rural, cultural and environmental development. A little attention has so far been given to Bamboo Technology, low cost & local made Farming Technology, rural home-made Food Processing Technology, Bio-gas Technology, Renewable Energy Resources, and Environment and Sustainable Development. In order to address both the issues mentioned above, an innovative M Tech programme on Appropriate Technology & Entrepreneurship Practice (AT & EP) is scheduled to start shortly. The "Think Tank" of the Institute is also seized of the need of other aspects of inclusive growth in the present-day scenario.

#### **Forward thinking research activities**

NIT-Arunachal Pradesh has taken up challenges to create potential and productive research culture in the Institute in the process of which notable exercises are: introduction of Ph D programmes in Computer Science & Engineering from 2012-2013 and proposed introduction of Ph D programmes in coming years in Electronics & Communication Engineering, Physics, Chemistry and Mathematics; regular organization of research conferences including the

North-eastern Regional Science Congress in the centenary year of Indian Science Congress Association (proposals have been/being sent for organization of full Indian Science Congress in 2015, Indian Engineering Congress in 2015 and Annual Convention of Indian Society for Technical education in 2016); publication of regular bi-annual journal called International Journal on Current Science & Technology; encouraging and sponsoring members of faculty to enroll as members of scientific & professional societies like IEEE, IETE, IE(I), ISTE and ISCA leading to creating sections/chapters in short future. Lots of accolades are achieved in research productivity in NIT-Arunachal Pradesh [e.g. in 2011, two Professors / Assistant Professor visited USA, Italy and Jordan to present research papers & chair technical session; in 2012, two Professors / Assistant Professor to visit USA for the same functions; and many Professors have published research papers in leading national & international journals].

#### Developing resourceful laboratories & libraries

NIT-Arunachal Pradesh has left no stone unturned in installing world class laboratories and those are: English Communication Laboratory, Computing & Network Laboratory, Campus Wi-Fi connectivity, Video Conferencing & other ten laboratories in the last one year with M Tech class room with a computer with NET facilities to each student. The library is immensely resourceful as is evident from the following table of comparison based on data available in different websites.

**Table: Books per student available in libraries of leading Universities/Institutions**

| Sl. No. | Name of the Institute /University | Total number of students | Total number of books in library | Book collection per student |
|---------|-----------------------------------|--------------------------|----------------------------------|-----------------------------|
| i       | Stanford University, California   | 19,945                   | 13,10,000                        | 65.12                       |
| ii      | IIT-Khargpur                      | 6,450                    | 3,00,000                         | 46.51                       |
| iii     | MANIT- Bhopal                     | 4,000                    | 1,40,719                         | 44.26                       |
| iv      | <b>NIT-Arunachal Pradesh</b>      | <b>245</b>               | <b>10,000</b>                    | <b>40.81</b>                |
| v       | IIT- Bombay                       | 5,700                    | 2,28,077                         | 40.18                       |
| vi      | MNNIT- Allahabad                  | 3,179                    | 1,04,382                         | 32.83                       |
| vii     | IIT- Guwahati                     | 3,900                    | 1,17,000                         | 30.00                       |
| viii    | NIT- Agartala                     | 2,200                    | 34,000                           | 15.45                       |

### **Fast Track students' activities**

The Institute has provided enough encouragement to its students with partial financial support to make them enrolled as IEEE student members following which petition has been submitted for opening students' branch at NIT-Arunachal Pradesh. On every year on Technology Day on 9th May, the Institute has decided to organize National Students' Essay Contest with best essays awarded with cash prizes and with publication of the proceedings containing the selected essays. As a matter of bringing togetherness and to bring respect for seniors as well as confidence in juniors, senior students are encouraged to teach juniors on some selected course papers. The approach is believed to decrease/minimize conflicts between seniors and juniors often common in universities particularly on egoistic issues. NSS/NCC chapter is opened in the Institute under the banner of which students took part in plantation and beautification programmes in Yupia. Students have since organized two blood donation camps.

### **Regular symposium of Visiting Professors**

In each semester, a conclave of eminent professors from leading universities is initiated to supplement the regular teaching process and also to have interaction by teachers for research direction. A few distinguished professors invited for such conclave are: Prof S C Dutta Roy, IIT- Delhi; Prof S L Maskara, IIT- Kharagpur; Prof Ajit Pal, IIT- Kharagpur; Prof P K Basu, University of Calcutta; Prof Atal Chowdhuri, Jadavpur University; and Prof Karmeshu, JNU, among others.

### **8.3 Administrative Innovations**

Administrative reforms & innovations in NIT-Arunachal Pradesh go in tandem with those of academics so as to achieve maximum benefits. Administrative philosophy adopted by the Institute is binary : "0" for love, affection and humanitarian attitude with zero action while activities are performed to meet the defined objective in the framework of prevailing rules & regulations; and "1" while action is stringent when given function has failed to meet the targeted goal with non-acceptable pretext. The Institute categorically rejects the common

excuse of not doing things on the pretext of having no time, as its philosophy of time management is that *"Busy men always get time to execute; but it is the idle men only who do not get time."* Accordingly, innovative practices introduced in NIT-Arunachal Pradesh are as follows:

#### **Six days a week**

NIT-Arunachal Pradesh is in the practice of six days a week in first three/ four weeks of a month, followed by holiday of last week clubbed with cumulative 3 or 4 days compensatory leave for working on Sundays/Holidays of previous weeks. The process has got multiple benefits of providing a substantial period of holidays at a stretch at least once in a month to the employees and students from distant places to enable them to go home for family togetherness and also for continuity in the process of teaching & learning with a small gap while avoiding monotony and providing a short break in studies so as to get re-energised .

#### **Practice of E-office**

NIT-Arunachal Pradesh is in the process of being transformed into a paperless office. Most of the communications are made by and through e-mails. ERP solutions are to be installed for complete automation of the offices in near future.

#### **Greenovations**

Plenty of initiatives are implanted to make NIT-Arunachal Pradesh a zero-tolerance zone so far as the noise and pollution are concerned with the facilities of in-built waste disposal and energy conservative in place. The present temporary campus has an installed solar power plant with a capacity of 100 kw serving all purposes of energy requirement. This is reported to be the first of its kind in the entire North-eastern region. Necessary plan has been sanctioned to make the permanent campus (at Jote) a fully solar powered, earth-quake resistant, in-built waste disposal with possible bio-gas plant and water recycling plant. Cost escalation for such a planned noble campus is of course a matter of concern. The permanent campus is proposed to have a tram line communication with conventional vehicles deployed at the entrance only. The proposal is meant to make the campus less noisy and pollution-free.

### Attitudinal U-turn

NIT-Arunachal Pradesh believes to see half a glass of water as half-full rather than half- empty. Institute's authorities have since given verbal directions to all concerned to review and analyze all & every proposal with positive attitude as far as practicable. All in the administration and academics have been categorically instructed to behave like Teachers rather than as Officers; but that does not mean deviation from the existing rules & regulations. It envisages that if the reply in response to anything is "NO", the same is to expressed as "*NOT BEING POSSIBLE, PLEASE.*"

### Continuous encouragement

NIT-Arunachal Pradesh is in the practice of yearly award of best teacher, best student and best employee on performance matrix. The practice is to reward for good works. The Institute believes in rectification and, therefore, there is a concept of only "Reward" scheme and no "Punishment" scheme. The punishment refers to rectification and providing suitable counselling and offering further renewed opportunities to excel.

### 8.4 Conclusions

It is the goodness and hard work of the members of faculty, officers, members of staff and students that NIT-Arunachal Pradesh is in continuous practice of doing innovations in chain to become second to none. Their art of converting difficulties into opportunities and the attitude of "never say no" have made the Institute to do such splendid works in a short span of three (3) years logically and practically during a period of one and half a years. To NIT-Arunachal Pradesh, "Yesterday is Memory, Today is Gift and Tomorrow is Hope". To fulfill the cherished hopes and aspirations, the Institute pledges support, review decision and constructive criticism from readers towards redefining the practices for greater societal benefits and to reach the sky which is the only limit to NIT-Arunachal Pradesh.

## 9. MISCELLANEOUS

### 9.0 Introduction

Various issues pertaining to the Institute are brought out hereunder in a succinct form.

### 9.1 Remedial Measures

The Institute has already set up certain units/cells for properly handling the following items of works which are of very much importance in the functioning of the administration of an '*Institute of National Importance*':

#### Prevention of Sexual Harassment

The sexual harassment cell functioning in the Institute is maintaining a vigilant watch on any untoward incident which may outrage the modesty of girl students or lady employees or women family members of the employees. Till date, no such incident has come to the notice. The cell is functioning under the Chairpersonship of Ms. Yaka Bulu, Assistant Professor, Electronics and Communication Engineering, along with other supporting members.

#### Prevention of harassment towards SC/ST

There is also a cell for prevention of harassment towards SC/ST students and employees etc in the Institute. The cell is keeping watch on all of them. The cell is headed by Shri Rajen Pudur, HoD, Electrical and Electronics Engineering Department.

#### Public Grievances

The Institute has also a Public Grievances Cell which handles all the cases of grievances received from the students and employees of the Institute.

#### RTI Matters

A RTI Cell is functioning under the supervision of Rajat Subra Goswami, Assistant Professor, Computer Science and Engineering Department. He is also the CPIO of the Institute. The Appellate Authority of the Institute is Dr. Pinaki Chakraborty, Asstt. Dean, R&D.

### **Care for Physically Handicapped Persons**

This cell is instrumental in ensuring that the physically handicapped students do not face any problem in attending classes and going to or staying in hostels in this hilly region. The cell fixes all the cases of problem being faced by physically handicapped students and employees.

### **Anti-ragging Machinery**

The Institute and its campus as well as the hostels are totally free from the menace of ragging. The Cell is keeping a strict watch and vigilance on the state of affairs in this regard.

## **9.2 Security arrangements**

Security of the campus of the Institute is being maintained through outsourcing. Shri N.M. Sarmah, Security Officer is responsible for maintenance of security and sorting out the law and order problems in the campus. He is, at present, supported by one Security Officer, one Assistant Security Officer, one Security Supervisor and seventy-three Security Guards including the Lady Security Guards for girls' hostels. The existing security team is also responsible for running rescue operations in the campus in case of any accident or natural disaster.

## **9.3 Medical attention**

Necessary arrangements of medical facilities have been provided by the Institute round the clock in the campus including the Academic block and Residential block. One ambulance always remains present in the campus so as to tackle all types of emergencies. Necessary tie-ups have been made with the important hospitals (Govt. & Private) and Nursing Homes in the adjoining area. Suitable counselling is provided to the students so as to enable them to overcome any stress. Necessary steps have also been taken to ensure confidence building among the students so that they can continue their studies in a tension-free ambience.

## **9.4 Scholarship to SC/ST & Minority students**

The Institute is providing scholarships to SC/ST and minority students and merit scholarships to the meritorious students. The Institute is also planning for

granting waiver in fees to the deserving students. The scholarship section is being headed by Dr. Karam Ratan Singh, Assistant Professor, Mathematics & TPO of the Institute.

### 9.5 Annual Report

The Institute started functioning in 2010 under the mentorship of NIT-Durgapur and the arrangement continued till 31.10.2011. The regular Director of the Institute viz. Prof. (Dr.) Chandan Tilak Bhunia, joined on 01.11.2011. The Annual Reports of 2010-2011 and 2011-12 prepared by the Institute and approved by the Board of Governors in the 5th meeting of the BoG have been forwarded to the Ministry of Human Resource Development, Government of India.

### 9.6 Celebrations

The Institute celebrates the Independence Day Ceremony on 15th August and Republic Day Ceremony on 26th January every year in a colourful manner. The National Flags are hoisted with due honour and celebrations in the presence of dignitaries. Photographs of the celebrations are attached below:



The National Voter's Day was celebrated at the temporary campus (along with the whole Nation). Essay, Quiz, Debate and Drawing competitions were organized to mark the occasion.



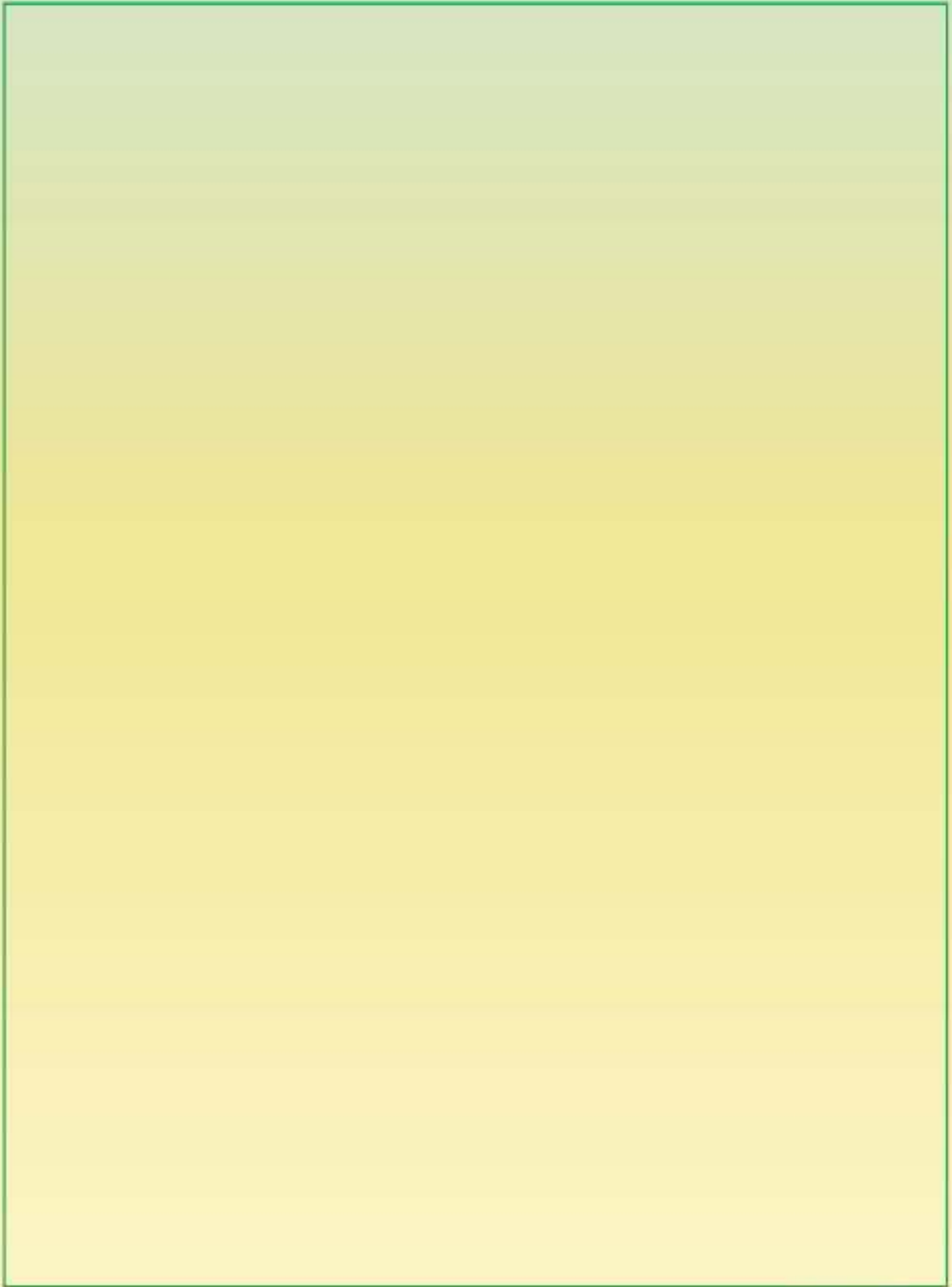
**National Voter's Day Celebration**

### 9.7 National Integration

In the National Institutes of Technology, students of all the States and Union Territories of India are studying as per the existing scheme of admission approved by the Government of India. NIT-Arunachal Pradesh has become a mini-India with students from all the parts of the country. The students arrange various cultural programmes which provide a wide range of colourful regional flavour with an overall fusion of National taste and federal character. The students from all the parts of the country are mixing up with each other and they share various ethnic, regional and religious experiences while promoting the spirits of National Integration. This is the stepping stone to be the perfect citizens of India.

**ANNUAL REPORT**

**PART- II**



## INSTITUTE'S AUTHORITIES

(2012-13)

### I – Board of Governors

|                            |   |   |
|----------------------------|---|---|
| <b>Chairperson</b>         | 1 | Dr. Gangan Prathap,<br>Chairperson, Board of Governors,<br>NIT-Arunachal Pradesh and Director,<br>NISCAIR, New Delhi<br>E-mail ID: gp@niscair.res.in                                  |
| <b>Member (Ex-officio)</b> | 2 | Prof. (Dr.) C T Bhunia<br>Director, NIT-Arunachal Pradesh,<br>Po – Yupia, Dist. – Papum Pare,<br>Arunachal Pradesh – 791112.<br>E-mail ID: directornitap@gmail.com                    |
| <b>Members</b>             | 3 | Ms Amita Sharma<br>Additional Secretary,<br>D/o. Higher Education, MHRD,<br>GoI, Shastri Bhawan,<br>“C” Wing, New Delhi<br>E-mail ID: amitasharma.edu@nic.in                          |
|                            | 4 | Shri A N Jha<br>Joint Secretary & Finance Adviser,<br>D/o. Higher Education, MHRD,<br>Govt. of India, Shastri Bhawan, “C”<br>Wing, New Delhi<br>E-mail ID: internalfinance1@gmail.com |
|                            | 5 | Dr. Joram Begi<br>Director of Higher Education,<br>Govt. of Arunachal Pradesh, Itanagar,<br>Arunachal Pradesh,<br>E-mail ID: begi_dhe@rediffmail.com                                  |

- |                   |                  |   |   |
|-------------------|------------------|---|---|
|                   | 6                | Prof. Dr. Ajoy Ghose<br>Former Director,<br>Indian School of Mines, Dhanbad,<br>E-mail ID: ghose.ajoy@gmail.com                 |   |
|                   | 7                | Ms Mamang Dai<br>Former Civil Servant and Poet,<br>Arunachal Pradesh<br>E-mail ID: mamangdai@hotmail.com                        |   |
|                   | 8                | Prof. Dr. Sukumar Nandi<br>Director, IIT-Guwahati, Assam<br>E-mail ID: sukumar@iitg.ernet.in                                    |   |
|                   | 9                | Shri Tomi Ete<br>Secretary, PHED,<br>Govt. of Arunachal Pradesh, Itanagar,<br>Arunachal Pradesh<br>E-mail ID: tomiete@yahoo.com |   |
|                   | 10               | Dr. Pinaki Chakraborty<br>Assistant Professor,<br>NIT- Arunachal Pradesh<br>E-mail ID: pinakichk@gmail.com                      |   |
|                   | 11               | Dr. Nabakumar Pramanik<br>Assistant Professor,<br>NIT- Arunachal Pradesh<br>E-mail ID: pramaniknaba@gmail.com                   |   |
| <b>Non-member</b> | <b>Secretary</b> | 12  | Sri P K Modak<br>OSD, NIT- Arunachal Pradesh,<br>E-mail ID: pkm6972@gmail.com |

## II – FINANCE COMMITTEE

- |                 |   |   |
|-----------------|---|---|
| <b>Chairman</b> | 1 | Dr. Gangan Prathap<br>Chairperson, Board of Governors,<br>NIT- Arunachal Pradesh and<br>Director, NISCAIR, New Delhi,<br>E-mail ID: gp@niscair.res.in |
|-----------------|---|---|

|                            |   |   |
|----------------------------|---|---|
| <b>Member (Ex-officio)</b> | 2 | Prof. (Dr.) C T Bhunia<br>Director, NIT-Arunachal Pradesh,<br>Po – Yupia, Dist. – Papum Pare,<br>Arunachal Pradesh – 791112.<br>E-mail ID: nitarunachal@gmail.com |
| <b>Members</b>             | 3 | Representatives of the MHRD   |
|                            | 4 | Dr. Babu Bhuyan,<br>Associate Professor and Head,<br>Department of Information<br>Technology, NEHU, Shillong<br>E-mail ID: b.bhuyan@gmail.com                     |
|                            | 5 | Prof. P. P. Sahoo<br>Head, Electronics and<br>Communication Engineering Tezpur<br>University, Tezpur, Assam,<br>E-mail ID: pps@tezu.ernet.in                      |
| <b>Member-Secretary</b>    | 6 | Sri P K Modak<br>OSD, NIT- Arunachal Pradesh,<br>E-mail ID: pkm6972@gmail.com   |

### III – SENATE

|                              |   |   |
|------------------------------|---|---|
| <b>Chairman (Ex-officio)</b> | 1 | Prof. (Dr.) C T Bhunia<br>Director, NIT-Arunachal Pradesh,<br>Po – Yupia, Dist. – Papum Pare,<br>Arunachal Pradesh – 791112.<br>E-mail ID: nitarunachal@gmail.com |
| <b>Member (Nominated)</b>    | 2 | Prof. Dr. Dilip Kumar Sinha<br>Former Vice-Chancellor,<br>Visva Bharati University, Central<br>University, Santiniketan   |
| <b>Member (Nominated)</b>    | 3 | Prof. Dr Swapan Bhattacharjee<br>Computer Science & Engineering,<br>Jadavpur University, Kolkata &<br>Director, NITK-Surathkal                                    |

|                                       |    |   |
|---------------------------------------|----|---|
| <b>Members (Nominated)</b>            | 4  | Prof Dr. Surabhi Banerjee<br>Vice-Chancellor,<br>Central University of Orissa                                 |
| <b>Member (Distinguished invitee)</b> | 5  | Prof. Dr. S. Bandyopadhyay<br>Vice-Chancellor, West Bengal<br>University of Technology, Kolkata               |
| <b>Member (Distinguished invitee)</b> | 6  | Prof. Dr. R N Bera,<br>Sikim Manipal University   |
| <b>Member (Invitee)</b>               | 7  | Dr. Pinaki Chakraborty<br>Asstt. Dean (R&D) & Assistant<br>Professor, Physics, NIT- Arunachal<br>Pradesh      |
| <b>Member (Invitee)</b>               | 8  | Dr. Nabakumar Pramanik<br>Assistant Dean (Exam) & Assistant<br>Professor, Chemistry, NIT-Arunachal<br>Pradesh |
| <b>Member (Invitee)</b>               | 9  | Sri Mohit Kumar De<br>Assistant Librarian, NIT- Arunachal<br>Pradesh  |
| <b>Non-member Secretary</b>           | 10 | Sri P K Modak<br>OSD, NIT- Arunachal Pradesh  |

#### IV – BUILDING AND WORKS COMMITTEE

|                 |   |  |
|-----------------|---|--|
| <b>Chairman</b> | 1 | Prof. (Dr.) C T Bhunia<br>Director, NIT- Arunachal Pradesh,<br>Po – Yupia, Dist. – Papum Pare,<br>Arunachal Pradesh – 791112.<br>E-mail ID: nitarunachal@gmail.com |
| <b>Members</b>  | 2 | Representative of the MHRD   |
|                 | 3 | Dr. Binay Singh, Director,<br>NIRD, Guwahati   |

|                         |   |  |
|-------------------------|---|--|
|                         | 4 | Shri Munindra Chandra Deka,<br>Consultant Engineering, NERC  |
|                         | 5 | Er. S.R.Kumar<br>Superintending Engineer, PHED,<br>Western Zone, Govt. of Arunachal<br>Pradesh, Itanagar |
|                         | 6 | Er. Tana Chiyi, AE, NIT-<br>Arunachal Pradesh  |
| <b>Member-Secretary</b> | 7 | Registrar/OSD, NIT-Arunachal<br>Pradesh  |

### V – BOARD OF RESEARCH

#### Department of Computer Science & Engineering

|                              |   |   |
|------------------------------|---|---|
| <b>Chairman (Ex-Officio)</b> | 1 | Director,<br>National Institute of Technology-<br>Arunachal Pradesh   |
| <b>Members</b>               | 2 | Prof. M.V Pitke<br>Former Professor<br>Department of Computer Science &<br>Engineering, TIFR, Mumbai              |
|                              | 3 | Prof (Dr.) Ajit Pal<br>Department of Computer Science<br>& Engineering, IIT- Kharagpur,<br>West Bengal            |
|                              | 4 | Dr. Bubu Bhuyan<br>Associate Professor and Head of the<br>Department of Information<br>Technology, NEHU, Shillong |

#### Department of Electronics & Communication Engineering

|                              |   |  |
|------------------------------|---|--|
| <b>Chairman (Ex-Officio)</b> | 1 | Director<br>National Institute of Technology-<br>Arunachal Pradesh |
|------------------------------|---|--|

|                |   |  |
|----------------|---|--|
| <b>Members</b> | 2 | Prof. Gautam Ghosh<br>ECE, RP & Electronics, CU, Kolkata   |
|                | 3 | Dr. D. P. Kothari<br>Director General,<br>J.B.Group of Educational Institutions  |
|                | 4 | Prof. Rabindranath Bera<br>Head, Department of Electronics &<br>Communication Engineering,<br>Sikkim Manipal University (Sikkim),<br>Department of Electrical &<br>Electronics Engineering |

**Department of Electrical & Electronics Engineering**

|                              |   |  |
|------------------------------|---|--|
| <b>Chairman (Ex-Officio)</b> | 1 | Director<br>National Institute of Technology-<br>Arunachal Pradesh |
|------------------------------|---|--|

|                |   |   |
|----------------|---|---|
| <b>Members</b> | 2 | Prof. Gautam Ghosh<br>ECE, RP & Electronics,<br>University of Calcutta, Kolkata   |
|                | 3 | Dr. D. P. Kothari<br>Director General,<br>J. B. Group of Educational<br>Institutions  |
|                | 4 | Prof. Rabindranath Bera<br>Head, Department of Electronics and<br>Communication Engineering, Sikkim<br>Manipal University(Sikkim) |

**VI – BOARD OF STUDIES**

**Department of Computer Science & Engineering**

|                              |   |  |
|------------------------------|---|--|
| <b>Chairman (Ex-Officio)</b> | 1 | Head, Department of Computer<br>Science & Engineering (at the grade<br>of Professor only), National Institute<br>of Technology-Arunachal Pradesh |
|------------------------------|---|--|

**Members**

- |   |  |
|---|--|
| 2 | Prof (Dr.) Ajit Pal<br>Department of Computer Science & Engineering, IIT-Kharagpur, WB                             |
| 3 | Prof (Dr.) Atal Chowdhury<br>Department of Computer Science & Engineering, Jadavpur University, Kolkata            |
| 4 | Prof (Dr.) Bubu Bhuyan<br>Associate Professor and Head of the Department of Information Technology, NEHU, Shillong |
| 5 | Prof (Dr.) Samir Roy<br>Department of Computer Science & Engineering, NITTTR, Kolkata, West Bengal                 |

**Department of Electronics & Communication Engineering**

**Chairman (Ex-Officio)**

- |   |   |
|---|---|
| 1 | Head, Department of Electronics & Communication Engineering (at the grade of Professor only), National Institute of Technology- Arunachal Pradesh |
|---|---|

**Members**

- |   |   |
|---|---|
| 2 | Prof. (Dr.) P.P.Sahu<br>Head of the Department, Electronics & Communication Engineering, Tezpur University, Tezpur, Assam |
| 3 | Prof. (Dr.) A. Hussain<br>Department of Electronics & Communication Engineering, NERIST, Nirjuli, Arunachal Pradesh       |
| 4 | Prof. (Dr.) Monojit Mitra<br>Department of Electronics & Communication Engineering, BESU, Shibpur, West Bengal            |

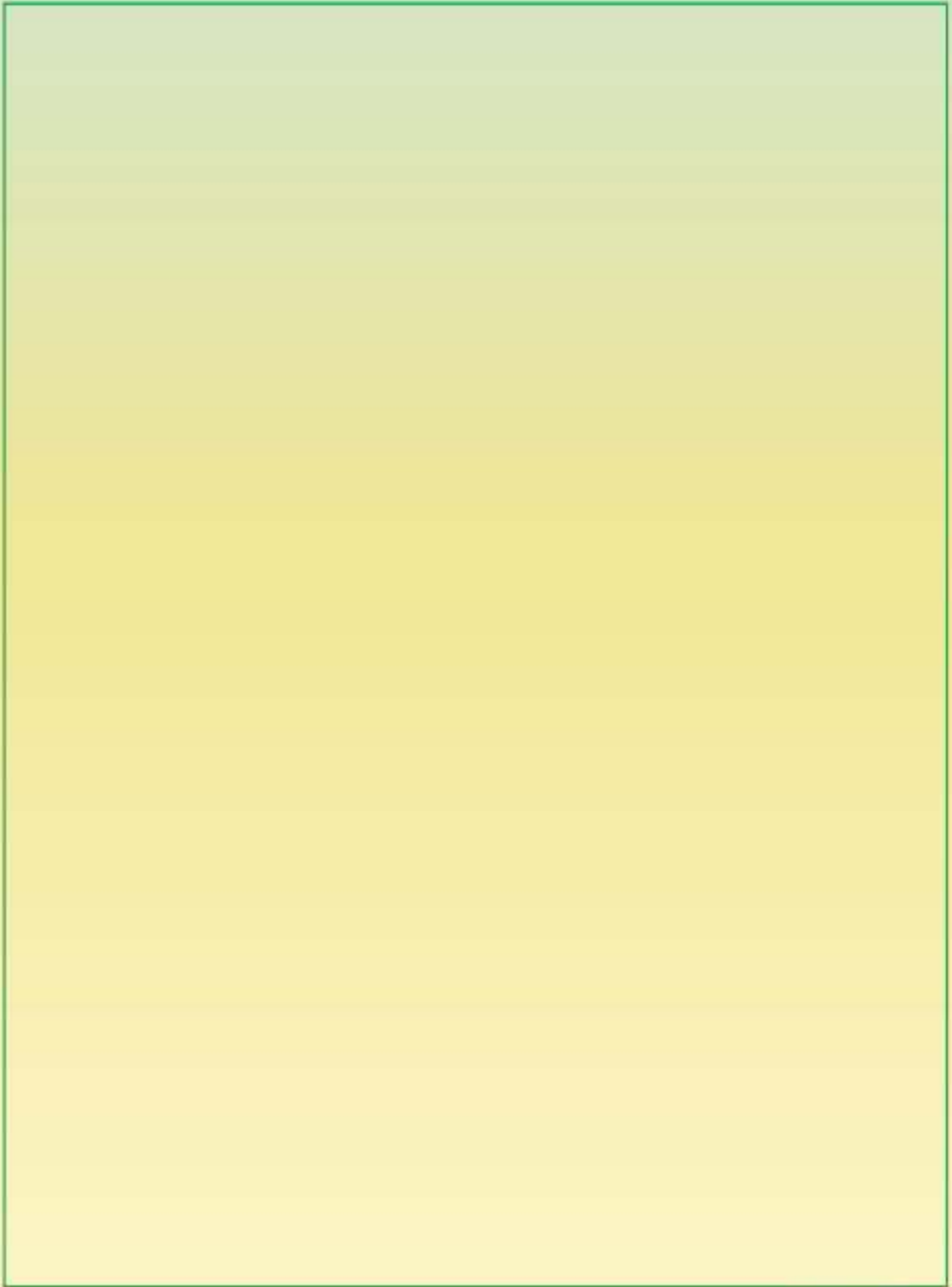
- 5 Prof. (Dr.) P.K Basu  
Department of Radio Physics &  
Electronics, Calcutta University,  
Kolkata, West Bengal

**Department of Electrical & Electronics Engineering**

- |                              |   |   |
|------------------------------|---|---|
| <b>Chairman (Ex-Officio)</b> | 1 | Head, Department of Electrical &<br>Electronics Engineering<br>(at the grade of Professor only),<br>NIT-Arunachal Pradesh |
| <b>Members</b>               | 2 | Prof. (Dr.) U.K.Sharma<br>Former Professor Electrical<br>Engineering & Director, NERIST,<br>Nirjuli, Arunachal Pradesh    |
|                              | 3 | Prof. (Dr.) P.Sarkar<br>Department of Electrical Engineering<br>NITTTR, Salt Lake, Kolkata,<br>West Bengal                |
|                              | 4 | Prof. (Dr.) S.S. Pattanaik<br>Department of Electrical Engineering<br>NITTR, Chandigarh                                   |
|                              | 5 | Prof. (Dr.) S. Sen<br>Department of Radio Physics &<br>Electronics, Calcutta University,<br>Kolkata, West Bengal          |

## **News Paper Cuttings:**

**Different Events Performed by  
NIT- Arunachal Pradesh**





Workshop on renewable sources of energy



Painting Competition



# ANNUAL REPORT 2012-13

## NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, YUPIA - 791112

### BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2013

Amount in Rs.

| CORPUS / CAPITAL FUND AND LIABILITIES | SCHEDULE | CURRENT YEAR         | PREVIOUS YEAR       |
|---------------------------------------|----------|----------------------|---------------------|
| Corpus / Capital Fund                 | 1        | 241940491.00         | 76169019.00         |
| Earmarked / Endowment Funds           | 2        | 1569658 .00          | 331639 .00          |
| Current Liabilities & Provisions      | 3        | -                    | -                   |
| <b>Total</b>                          |          | <b>243510149 .00</b> | <b>76500658 .00</b> |

| ASSETS                                      | SCHEDULE | CURRENT YEAR         | PREVIOUS YEAR       |
|---|----------|----------------------|---------------------|
| Fixed Assets                                | 4        | 225151097 .00        | 36824847 .00        |
| Investment from Earmarked / Endowment Funds | 5        | 1569658 .00          | 331639 .00          |
| Current Assets, Loan, Advances etc.         | 6        | 16789394 .00         | 39344172 .00        |
| <b>Total</b>                                |          | <b>243510149 .00</b> | <b>76500658 .00</b> |

  
 Accountant  
 National Institute of Technology  
 Yupia, Arunachal Pradesh

  
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ANNUAL REPORT 2012-13

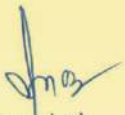
NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH, YUPIA - 791112  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2013

Amount in Rs.

| SCHEDULE-1 CORPUS FUNDS / CAPITAL FUND  | CURRENT YEAR        | PREVIOUS YEAR      |
|---|---------------------|--------------------|
| Balance at the beginning of the year  | 76169019.00         | -                  |
| Add : Contribution towards Corpus / Capital Fund :<br>Grant-in-aid received from Ministry of Human<br>Resource Development, Department of Education<br>Govt. of India, vide sanction order No.<br>(Details given in a separate sheet) | 176210000.00        | -                  |
|   |                     | 88000000.00        |
| <b>Total</b>  | <b>252379019.00</b> | <b>88000000.00</b> |
| Add/Deduct : Balance of net (Income / Expenditure<br>from Income / Expenditure Account)   | (-) 10438528.00     | (-) 11830981.00    |
| <b>Total</b>  | <b>241940491.00</b> | <b>76169019.00</b> |

| SCHEDULE-2 EARMARKED / ENDOWMENT FUNDS | CURRENT YEAR      | PREVIOUS YEAR    |
|--|-------------------|------------------|
| Opening balance of funds               | 1569658.00        | -                |
| Students Welfare Funds                 |                   | -                |
| Contributory Pension Scheme            |                   | 331639.00        |
| <b>Total</b>                           | <b>1569658.00</b> | <b>331639.00</b> |

| SCHEDULE-3 CURRENT LIABILITIES & PROVISIONS            | CURRENT YEAR | PREVIOUS YEAR |
|--|--------------|---------------|
| <b>A : Current Liabilities</b>                         |              |               |
| 1. Caution Money of Students                           | Nil          | Nil           |
| 2. Security Deposits and others                        |              |               |
| <b>Total (A)</b>                                       | <b>Nil</b>   | <b>Nil</b>    |
| <b>B : Provisions : Outstanding Expenses Total (B)</b> | <b>Nil</b>   | <b>Nil</b>    |
| <b>Total (A+B)</b>                                     | <b>Nil</b>   | <b>Nil</b>    |

  
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NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH, YUPIA - 791112

SCHEDULE FORMING PART OF BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2013

Schedule-4 :: Fixed Assets

Rupees

| Sl.No. | Description                 | GROSS BLOCK                             |                          |                              | DEPRECIATION                      |                                 |                          | NET BLOCK                    |                         |                            |
|--------|-----------------------------|---|--------------------------|------------------------------|-----------------------------------|---------------------------------|--------------------------|------------------------------|-------------------------|----------------------------|
|        |                             | Cost/Valuation at beginning of the year | Addition during the year | Depreciation during the year | Cost/Valuation at end of the year | As at the beginning of the year | Addition during the year | Depreciation during the year | Total upto the year end | As at the current year end |
| 1      | Fixed Assets Buildings      | 7438985.00                              | 17101644.00              | 613872.00                    | 17250655.00                       | 7438985.00                      | 438985.00                | 17157684.00                  | 7438985.00              | 7438985.00                 |
| 2      | Laboratory Equipment        | 16788495.00                             | 30488721.00              | 12895796.00                  | 34381418.00                       | 16788495.00                     | 16788495.00              | 32702568.00                  | 16788495.00             | 16788495.00                |
| 3      | Furniture                   | 595596.00                               | 7402694.00               | 2053204.00                   | 11305487.00                       | 595597.00                       | 595597.00                | 10709860.00                  | 595597.00               | 595597.00                  |
| 4      | Vehicles                    | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 5      | Office equipment            | 512475.00                               | 659765.00                | 176420.00                    | 995818.00                         | 51247.00                        | 51247.00                 | 942571.00                    | 51247.00                | 51247.00                   |
| 6      | Sports equipment            | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 7      | Medical equipment           | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 8      | Hostel equipment            | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 9      | Library equipment           | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 10     | Guest House furnishing      | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 11     | Guest house equipment       | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 12     | Musical instruments         | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 13     | Hostel furnishing           | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 14     | Library books               | 2725012.00                              | 3486093.00               | -                            | 6211095.00                        | 272501.00                       | 272501.00                | 598594.00                    | 272501.00               | 272501.00                  |
| 15     | Air conditioner             | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 16     | Purchase of Gen Set         | 704814.00                               | 1355200.00               | -                            | 2063014.00                        | 70481.00                        | 70481.00                 | 1992533.00                   | 70481.00                | 70481.00                   |
| 17     | Canteen utensils            | -                                       | 80824.00                 | -                            | 80824.00                          | -                               | -                        | 80824.00                     | -                       | -                          |
| 18     | Hostel utensils             | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 19     | Solar Electrification, Jete | 2700000.00                              | -                        | -                            | 2700000.00                        | 270000.00                       | 270000.00                | 2430000.00                   | 270000.00               | 270000.00                  |
| 20     | Club equipment              | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
| 21     | Total of current year       | 36824847.00                             | 213270028.00             | 21261294.00                  | 226835581.00                      | 36824847.00                     | 36824847.00              | 225151097.00                 | 36824847.00             | 36824847.00                |
|        | Building in progress        | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
|        | Total                       | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |
|        | Previous year               | -                                       | -                        | -                            | -                                 | -                               | -                        | -                            | -                       | -                          |

\* Fixed assets / buildings are ongoing works – 171016441.00

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Yupia, Arunachal Pradesh


**NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH, YUPIA - 791112**

Amount in Rs.

| SCHEDULE-5 INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS | CURRENT YEAR      | PREVIOUS YEAR    |
|--|-------------------|------------------|
| 1. Contributory Pension Scheme                         | 1569658.00        | 331639.00        |
| <b>Total</b>   | <b>1569658.00</b> | <b>331639.00</b> |

| SCHEDULE-6 CURRENT ASSETS, LOAN ADVANCES ETC | CURRENT YEAR      | PREVIOUS YEAR      |
|--|-------------------|--------------------|
| <b>A : CURRENT ASSETS</b>                    |                   |                    |
| 1) Cash in Hand                              | 245529.00         | 183850.00          |
| 2) Imprest                                   | 10000.00          | 10000.00           |
| <b>Total</b>                                 | <b>255529.00</b>  | <b>193850.00</b>   |
| <b>Bank Balance with Schedule Banks</b>      |                   |                    |
| a) On Current Account with SBI, Nirjuli      | 5349030.00        | 39032594.00        |
| <b>Total</b>                                 | <b>5349030.00</b> | <b>39032594.00</b> |
| <b>Total (A)</b>                             | <b>5604559.00</b> | <b>39226444.00</b> |

| <b>B : LOANS, ADVANCE AND OTHERS</b>   |                    |                    |
|--|--------------------|--------------------|
| <b>1) Loan</b>   |                    |                    |
| a) Staff   |                    |                    |
| 2) advance and other amounts recoverable in Cash or kind or for value to be received | 9743762.00         | 117728.00          |
|  | 1441073.00         |                    |
| <b>a) On Current Accounts</b>  |                    |                    |
| I) United India Insurance Co. Ltd.   |                    |                    |
| II) Advance for purchase of Equipments   |                    |                    |
| <b>Total (B)</b>   | <b>11184835.00</b> | <b>117728.00</b>   |
| <b>Total (A+B)</b>   | <b>16789394.00</b> | <b>39344172.00</b> |

  
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NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH, YUPIA - 791112

INCOME & EXPENDITURE ACCOUNTS FOR YEAR ENDED 31<sup>ST</sup> MARCH, 2013

Amount in Rs.

| A. Income   | Schedule | CURRENT YEAR       | PREVIOUS YEAR      |
|---|----------|--------------------|--------------------|
| Grant-in-Aid  | 7        |                    | -                  |
| 112-36  |          | 21490000.00        |                    |
| 789-36  |          | 1500000.00         |                    |
| 796-36  |          | 800000.00          |                    |
| Fees from Students  | 8        | 14465291.00        | 4061745.00         |
| Interest earned   | 9        | 1967667.00         | -                  |
| Other Income  | 10       | 5081436.00         | 93550.00           |
| <b>Total (A)</b>  |          | <b>45304394.00</b> | <b>4155295.00</b>  |
| <b>B. Expenditure</b>   |          |                    |                    |
| 112-36 Estt. Expd.  |          | 14830307.00        |                    |
| Admn. Expd.   |          | 17736183.00        |                    |
| 789-36 Estt. Expd.  |          | 1766754.00         |                    |
| Admn. Expd.   |          | 986341.00          |                    |
| 796-36 Estt. Expd.  |          | 7085961.00         |                    |
| Admn. Expd.   |          | 1972683.00         |                    |
| Total Establishment Expenses                                    |          | 24651402.00        | 5199507.00         |
| Total Other Admn. Expenses                                      |          | 31091520.00        | 10786769.00        |
| <b>Total (B)</b>  |          | <b>55742922.00</b> | <b>15986276.00</b> |
| Balance being excess / deficit of Expenditure over income (B-A) |          |                    | 11830981.00        |
| <b>Total</b>  |          | <b>10438528.00</b> |                    |
| Balance being deficit / excess carried over to corpus fund      |          | <b>10438528.00</b> | <b>11830981.00</b> |

  
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Yupia, Arunachal Pradesh

**NATIONAL INSTITUTE OF TECHNOLOGY**  
ARUNACHAL PRADESH, YUPIA - 791112

Amount in Rs.

| <b>SCHEDULE-7 – GRANTS</b>  | <b>CURRENT YEAR</b> | <b>PREVIOUS YEAR</b> |
|---|---------------------|----------------------|
| Ministry of Human Resource Development, Deptt. of Higher Education, vide sanction order No. |                     |                      |
| i) MHRD F.No.34-6/2012-TS-III dt. 29/09/12  | 21490000.00         | 18000000.00          |
| ii) MHRD F.No.34-6/2012-TS-III dt. 27/12/12   | 1500000.00          | 70000000.00          |
| iii) MHRD F.No.34-6/2012-TS-III dt.27/02/13   | 800000.00           |                      |
| <b>Total</b>  | <b>23790000.00</b>  | <b>88000000.00</b>   |

| <b>SCHEDULE 8 – FEES</b>              | <b>CURRENT YEAR</b> | <b>PREVIOUS YEAR</b> |
|---------------------------------------|---------------------|----------------------|
| 1. Fees for Empanelment of Contractor |                     | 19000.00             |
| 2. Registration Fees                  | 14113992.00         | 4042745.00           |
| 3. Others Fees                        | 79760.00            |                      |
| 4. Misc receipt                       | 271539.00           |                      |
| <b>Total</b>                          | <b>14465291.00</b>  | <b>4061745.00</b>    |

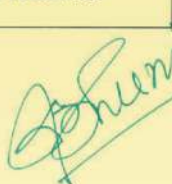
| <b>SCHEDULE 9 – INTEREST EARNED</b>                     | <b>CURRENT YEAR</b> | <b>PREVIOUS YEAR</b> |
|---|---------------------|----------------------|
| Short Term Deposit with State Bank of India / IDBI Bank | 1967667.00          |                      |
| Misc Deposit  |                     |                      |
| <b>Total</b>  | <b>1967667.00</b>   |                      |

| <b>SCHEDULE 10 – OTHER INCOME</b> | <b>CURRENT YEAR</b> | <b>PREVIOUS YEAR</b> |
|-----------------------------------|---------------------|----------------------|
| Miscellaneous Income              |                     | 93550.00             |
| Advance                           | 1125259.00          |                      |
| Other Receipt                     | 3956177.00          |                      |
| <b>Total</b>                      | <b>5081436.00</b>   | <b>93550.00</b>      |

| <b>SCHEDULE 11 – ESTABLISHMENT EXPENSES</b> | <b>CURRENT YEAR</b> | <b>PREVIOUS YEAR</b> |
|---|---------------------|----------------------|
| a) Salary and Wages                         | 23265682.00         | 5174354.00           |
| b) Bonus                                    |                     |                      |
| c) Contribution to Provident Fund           |                     |                      |
| d) Liveries and Uniforms                    |                     |                      |
| e) Honorarium                               | 885180.00           |                      |
| f) Computer Grants to Faculty Members       | 83200.00            |                      |
| g) Purchase of Medicine for Staff           | 417340.00           | 25153.00             |
| <b>Total</b>                                | <b>24651402.00</b>  | <b>5199507.00</b>    |

  
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## ANNUAL REPORT 2012-13

### SCHEDULE 12-OTHER ADMINISTRATIVE EXPENSES ETC.

(Amount in Rs.)

| CORPUS / CAPITAL FUND AND LIABILITIES                            | CURRENT YEAR       | PREVIOUS YEAR      |
|--|--------------------|--------------------|
| 1. Travelling Allowance  | 3431156.00         | 1056606.00         |
| 2. Printing & Stationery   | 569201.00          | 141098.00          |
| 3. Vehicle running & Maintenance                                 | 4033846.00         | 1341170.00         |
| 5. Advertisement   | 2021637.00         | 793644.00          |
| 6. Office expenses   | 1421904.00         | 514988.00          |
| 7. Mess Account  |                    | 56117.00           |
| 8. Electricity Charges   | 511279.00          | 134334.00          |
| 9. Postage, Telegram & Telephones                                | 336970.00          | 197898.00          |
| 10. Sports & Extracurricular activities & study tour of students | 291079.00          | 502435.00          |
| 11. Consumable items for Teaching                                |                    | 26179.00           |
| 12. Repairs & Maintenance of buildings / rent                    | 2828900.00         | 6022300.00         |
| 13. Maintenance of Office Equipments                             | 31083.00           |                    |
| 14. Fixed Asset written off                                      |                    |                    |
| 15. Depreciation   | 3682484.00         |                    |
| 16. Legal Charges  | 25000.00           |                    |
| 17. Rent on Building   | 4224772.00         |                    |
| 18. Laying of Foundation Stone at Jote.                          | 7682209.00         |                    |
| <b>Total</b>   | <b>31091520.00</b> | <b>10786769.00</b> |

  
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# ANNUAL REPORT 2012-13

## NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, YUPIA - 791112

### SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2013

#### SCHEDULE 13 – Opening Balance

(Amount in Rs.)

|                          | CURRENT YEAR       | PREVIOUS YEAR |
|--------------------------|--------------------|---------------|
| i) Cash in hand          | 183850.00          | Nil           |
| ii) Imprest              | 10000.00           | Nil           |
| iii) State Bank of India | 39032594.00        | Nil           |
| <b>Total</b>             | <b>39226444.00</b> | Nil           |

#### SCHEDULE 14 – Other Income


|                                      | CURRENT YEAR       | PREVIOUS YEAR     |
|--------------------------------------|--------------------|-------------------|
| i) Fees from Students (Registration) | 14113992.00        | 4042745.00        |
| ii) Others Fees                      | 79760.00           | -                 |
| iii) Miscellaneous Receipt           | 271539.00          | 112550.00         |
| iv) Consultancy Fee                  | -                  | -                 |
| <b>Total</b>                         | <b>14465291.00</b> | <b>4155295.00</b> |

#### SCHEDULE 15 –Any Other receipts


|                                  | CURRENT YEAR      | PREVIOUS YEAR |
|----------------------------------|-------------------|---------------|
| i) Interest earned on investment | 1967667.00        | Nil           |
| ii) Other receipt                | 3956177.00        | Nil           |
| iii) Security Deposit            | -                 | Nil           |
| iv) Students Welfare Fund        | -                 | Nil           |
| v) Advance                       | 1125259.00        | -             |
| <b>Total</b>                     | <b>7049103.00</b> | Nil           |

#### SCHEDULE 16 –Establishment Expenses

|                                     | CURRENT YEAR       | PREVIOUS YEAR     |
|-------------------------------------|--------------------|-------------------|
| i) Salary & Wages                   | 23265682.00        | 5174354.00        |
| ii) Bonus                           | -                  | Nil               |
| iii) Contribution to Provident Fund | -                  | Nil               |
| iv) Computer grants                 | 83200.00           | Nil               |
| v) Honorarium                       | 885180.00          | Nil               |
| vi) Purchase of Medicine for Staff  | 417340.00          | 25153.00          |
| <b>Total</b>                        | <b>24651402.00</b> | <b>5199507.00</b> |

  
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NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH, YUPIA - 791112

RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2013

(Amount in Rs.)

|  | Receipts |              | Payments      |          | Previous year |
|--|----------|--------------|---------------|----------|---------------|
|  | Schedule | Current year | Previous year | Schedule |               |
| 1. Opening Balance   |          |              |               |          |               |
| a) Cash in hand  |          | 183850.00    | -             | 16       | 24651402.00   |
| b) Imprest   |          | 10000.00     | -             | 17       | 27409036.00   |
| c) Bank Balance  | 13       | 39032594.00  | -             |          |               |
| 2. Grants In-Aid Received from Ministry of HRD, Deptt. of Education, Govt. of India, New Delhi vide Sanction Order No. <b>Plan</b> MHRD F.No.34-6/2012 TS-III dated 29/09/2012 |          |              | 88000000.00   | 18A      | 97644081.00   |
| 112-31   |          | 69300000.00  |               | 18B      | 17592923.00   |
| 112-35   |          | -            |               | 18C      | 3486083.00    |
| 112-36   |          | 7700000.00   |               | 18D      | 5349490.00    |
| 789-31   |          | 13500000.00  |               | 18E      | 67238488.00   |
| 789-35   |          | -            |               | 18F      | 697669.00     |
| 789-36   |          | 1500000.00   |               | 19       | 11067107.00   |
| 796-31   |          | 7200000.00   |               |          |               |
| 796-35   |          | -            |               |          |               |
| 796-36   |          | 800000.00    |               |          |               |
| MHRD F.No.34-6/2012 TS-III dated 27/12/2012  |          |              |               |          |               |
| 112-31   |          | 20000000.00  |               |          |               |
| 112-35   |          | -            |               |          |               |
| 112-36   |          | -            |               |          |               |
| 789-31   |          | -            |               |          |               |
| 789-35   |          | -            |               |          |               |
| 789-36   |          | -            |               |          |               |
| 796-31   |          | -            |               |          |               |
| 796-35   |          | -            |               |          |               |
| 796-36   |          | -            |               |          |               |
| 3. Other Payments (Advance)  |          |              |               |          |               |

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# ANNUAL REPORT 2012-13

## NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, YUPIA - 791112

### SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2013

#### SCHEDULE 17 – Other Administrative Expenses

(Amount in Rs.)

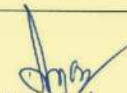
|  | CURRENT YEAR       | PREVIOUS YEAR      |
|--|--------------------|--------------------|
| i) Consumable item for Teaching          |                    | 26179.00           |
| ii) Printing & Stationary                | 569201.00          | 141098.00          |
| iii) Travelling Allowances               | 3431156.00         | 1056606.00         |
| iv) Vehicle Running & Maintenance        | 4033846.00         | 1341170.00         |
| v) Advertisement                         | 2021637.00         | 793644.00          |
| vi) Maintenance of building              | 2828900.00         | 6022300.00         |
| vii) Postage, Telephone & Telegram       | 336970.00          | 197898.00          |
| viii) Electricity Charges                | 511279.00          | 134334.00          |
| ix) Entertainment                        |                    | Nil                |
| x) Office Expenses                       | 1421904.00         | 514988.00          |
| xi) Sports, Extra Curricular Activities  | 291079.00          | 502435.00          |
| xii) Legal Charges                       | 25000.00           | Nil                |
| xiii) Rent on Building                   | 4224772.00         | Nil                |
| xiv) Mess Accounts                       |                    | 56117.00           |
| xv) Maintenance of Office Eqpts.         | 31083.00           |                    |
| xvi) Laying of Foundation Stone at Jote. | 7682209.00         |                    |
| <b>Total</b>                             | <b>27409036.00</b> | <b>10786769.00</b> |

#### SCHEDULE 18A – Expenditure on Capital Works in Progress

|   | CURRENT YEAR       | PREVIOUS YEAR     |
|---|--------------------|-------------------|
| i) C/o Approach Road Culvert & R/Wall (PWD)               | 4411081.00         | Nil               |
| ii) Other Contractors                                     |                    | 7438086.00        |
| iii) C/o Academic Building (HPL)                          | 5000000.00         |                   |
| iv) Providing water supply at NIT, A.P. Jote (APPHE & WS) | 21773000.00        |                   |
| v) C/o Boundary Wall at NIT, A.P. Jote (CPWD)             | 21460000.00        |                   |
| <b>Total</b>  | <b>97644081.00</b> | <b>7438086.00</b> |

#### SCHEDULE 18B – Expenditure on the Purchase of Lab/Workshop equipments

| Equipments                                | CURRENT YEAR       | PREVIOUS YEAR      |
|---|--------------------|--------------------|
| i) Mechanical Engg. Department            | 106568.00          |                    |
| ii) Electrical Engg. Department           | 3715894.00         | 997740.00          |
| iii) Computer Science & Engg. Department  | 4372017.00         | 9240691.00         |
| iv) Office Equipment                      |                    | 512473.00          |
| v) Humanities & Social Science Department |                    |                    |
| vi) Physics Department                    |                    | 1550490.00         |
| vii) E.T. Cell                            |                    |                    |
| viii) Medical Equipments for NHU          |                    |                    |
| ix) Mathematics Department                |                    |                    |
| x) Language Laboratory                    |                    | 2250000.00         |
| xi) Electronics & Commn. Engg.            | 9398444.00         | 2749574.00         |
| xii) Civil Engg. Department               |                    |                    |
| xiii) Solar Electrification at Jote       |                    | 2700000.00         |
| <b>Total</b>                              | <b>17592923.00</b> | <b>20705782.00</b> |

  
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## ANNUAL REPORT 2012-13

(Amount in Rs.)

| SCHEDULE 18C – Library Books / Journals | CURRENT YEAR      | PREVIOUS YEAR     |
|---|-------------------|-------------------|
| i) Library Books / Journals             | 3486083.00        | 2725012.00        |
| <b>Total</b>                            | <b>3486083.00</b> | <b>2725012.00</b> |


| SCHEDULE 18D – Furniture & Fixtures | CURRENT YEAR      | PREVIOUS YEAR     |
|-------------------------------------|-------------------|-------------------|
| i) Furniture                        | 5349490.00        | 5955967.00        |
| <b>Total</b>                        | <b>5349490.00</b> | <b>5955967.00</b> |

| SCHEDULE 18E – Others Construction Works | CURRENT YEAR       | PREVIOUS YEAR |
|--|--------------------|---------------|
| i) Land Development                      | 52354377.00        | Nil           |
| ii) Construction of Gate                 | 1243619.00         |               |
| iii) C/o Temporary Wood Bridge with CC   | 1100000.00         |               |
| iv) Addition / Alternation of Building   | 12140492.00        |               |
| v) Payment to Architect / Consultant     | 400000.00          |               |
| <b>Total</b>                             | <b>67238488.00</b> | Nil           |
| <b>Total of Schedule 18</b>              |                    | Nil           |

| SCHEDULE 18F – Others Capital Expd. | CURRENT YEAR     | PREVIOUS YEAR |
|-------------------------------------|------------------|---------------|
| i) Office Equipment                 | 481345.00        | 512373.00     |
| ii) Purchase of Gen Set             | 135500.00        | 704814.00     |
| iii) Canteen Utensils               | 80824.00         |               |
| <b>Total</b>                        | <b>697669.00</b> | Nil           |
| <b>Total of Schedule 18</b>         |                  | Nil           |

| SCHEDULE 19 – Other Payments  | CURRENT YEAR       | PREVIOUS YEAR    |
|-------------------------------|--------------------|------------------|
| i) Advances to Staff & others | 9626034.00         | 117728.00        |
| ii) Security Deposits         | -                  | -                |
| iii) Misc deposits            | 1441073.00         | -                |
| <b>Total</b>                  | <b>11067107.00</b> | <b>117728.00</b> |

| SCHEDULE 20 – Closing Balance     | CURRENT YEAR      | PREVIOUS YEAR      |
|-----------------------------------|-------------------|--------------------|
| i) Cash in hand                   | 245529.00         | 183850.00          |
| ii) Imprest                       | 10000.00          | 10000.00           |
| iii) State Bank of India, Nirjuli | 5349030.00        | 39032594.00        |
| <b>Total</b>                      | <b>5604559.00</b> | <b>39226444.00</b> |

  
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(Amount in Rs.)

| O/B  | 112-31              | 112-35             | 112-36             | 789-31             | 789-35   | 789-36            | 796-31             | 796-35            | 796-36           | Total               |
|--|---------------------|--------------------|--------------------|--------------------|----------|-------------------|--------------------|-------------------|------------------|---------------------|
| 39226444.00  | 33614971.00         | 2561914.00         | -                  | 6615172.00         | -        | 10000.00          | 3575613.00         | -                 | -                | 39226444.00         |
| MHRD F.No.34-6/2012 TS-III dated 29/09/12 100000000.00 | 69300000.00         | -                  | 7700000.00         | 13500000.00        | -        | 1500000.00        | 7200000.00         | -                 | 800000.00        | 100000000.00        |
| MHRD F.No.34-6/2012 TS-III dated 27/12/12 20000000.00  | 20000000.00         | -                  | -                  | -                  | -        | -                 | -                  | -                 | -                | 20000000.00         |
| MHRD F.No.34-6/2012 TS-III dated 27/02/13 800000000.00 | -                   | 17310000.00        | 13790000.00        | 17708000.00        | -        | -                 | 21571000.00        | 9621000.00        | -                | 80000000.00         |
| <b>239226444.00</b>                                    | <b>122914971.00</b> | <b>19871914.00</b> | <b>21490000.00</b> | <b>37823172.00</b> | <b>0</b> | <b>1510000.00</b> | <b>25195387.00</b> | <b>9621000.00</b> | <b>800000.00</b> | <b>239226444.00</b> |

|                  |                    |                    |                    |                    |          |                   |                    |                   |                  |                     |
|------------------|--------------------|--------------------|--------------------|--------------------|----------|-------------------|--------------------|-------------------|------------------|---------------------|
| Advance received | -                  | -                  | -                  | -                  | -        | -                 | -                  | -                 | -                | 1125259.00          |
| Misc receipt     | 706202.00          | -                  | -                  | -                  | -        | -                 | -                  | -                 | -                | 706202.00           |
| Fees received    | 14193752.00        | -                  | -                  | -                  | -        | -                 | -                  | -                 | -                | 14193752.00         |
| Mess deposit     | 3521514.00         | -                  | -                  | -                  | -        | -                 | -                  | -                 | -                | 3521514.00          |
| Interest         | 1010529.00         | 163456.00          | 176765.00          | 311113.00          | -        | 12338.00          | 207244.00          | 79372.00          | 6850.00          | 1967667.00          |
| 1967667.00       | <b>14234968.00</b> | <b>20035370.00</b> | <b>21666765.00</b> | <b>38134285.00</b> | <b>0</b> | <b>1522338.00</b> | <b>25402631.00</b> | <b>9700372.00</b> | <b>806850.00</b> | <b>260740838.00</b> |

31. Grants in aid General

| Detail of Expenses | Amount      |
|--------------------|-------------|
| 112-36             | 15436708.00 |
| 112-36             | 23297680.00 |
| 789-36             | 1838995.00  |
| 789-36             | 1370452.00  |
| 796-36             | 7375699.00  |
| 796-36             | 2740904.00  |
| 112-35             | 18670806.00 |
| 796-35             | 9370594.00  |

  
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|                 |                         |                     |
|-----------------|-------------------------|---------------------|
| 112-31          | Grants in Aid General - | 117565911.00        |
| 789-31          | Grants in Aid General - | 22583413.00         |
| 796-31          | Grants in Aid General - | 25259083.00         |
| Advance         |                         | 9626034.00          |
| Closing balance |                         | 5604559.00          |
|                 |                         | <b>260740838.00</b> |

**Details Head of Accounts**

|          |   |            |                     |
|----------|---|------------|---------------------|
| 112-35   | Addition alteration of Building             | Rs.        | 12140492.00         |
|          | Constr. Of Temporary Bridge over river Jote | Rs.        | 1100000.00          |
|          | Purchase of Furniture & Fixture             | Rs.        | 5349490.00          |
|          | Purchase of Canteen Utensils                | Rs.        | 80824.00            |
|          | <b>Total</b>                                | <b>Rs.</b> | <b>18670806.00</b>  |
| 796 - 35 | Constr. Of Approach Road                    | Rs.        | 4411081.00          |
|          | Purchase of Lab Eqpt. EEE                   | Rs.        | 3715894.00          |
|          | Constr. Of Gate at Jote                     | Rs.        | 1243619.00          |
|          | <b>Total</b>                                | <b>Rs.</b> | <b>9370594.00</b>   |
| 112-31   | Land development at Jote                    | Rs.        | 52354377.00         |
|          | Purchase of Lab Eqpt. CSE                   | Rs.        | 4372017.00          |
|          | Purchase of Lab Eqpt. ECE                   | Rs.        | 9398444.00          |
|          | Constr. Of Academic Buildings               | Rs.        | 50000000.00         |
|          | Misc payments                               | Rs.        | 1441073.00          |
|          | <b>Total</b>                                | <b>Rs.</b> | <b>117565911.00</b> |

  
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|        |                                  |            |                    |
|--------|----------------------------------|------------|--------------------|
| 789-31 | Payment of consultant architect  | Rs.        | 400000.00          |
|        | Purchase of Gen Set              | Rs.        | 135500.00          |
|        | Purchase of Lab Eqpt. ME         | Rs.        | 106568.00          |
|        | Constr. Of Boundary Wall at Jote | Rs.        | 21460000.00        |
|        | Purchase of Office Eqpt.         | Rs.        | 481345.00          |
|        | <b>Total</b>                     | <b>Rs.</b> | <b>22583413.00</b> |
| 796-31 | Providing water system at Jote   | Rs.        | 21773000.00        |
|        | Purchase of library books        | Rs.        | 3486083.00         |
|        | <b>Total</b>                     | <b>Rs.</b> | <b>25259083.00</b> |
|        | Advance                          |            | 9626034.00         |
|        | Closing balance                  |            |                    |



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**Schedule – 24: Significance of Accounting Policies**

1. National Institute of Technology, Arunachal Pradesh is a newly setup Autonomous Institute in the form of a deemed University. It is established vide order No. F.23-13/TS-III dated 30.10.2009 by the Ministry of Human Resource Development Govt. of India, Deptt. of Higher Education. The Institute is fully financed by Plan/non plan grants of MHRD, New Delhi.
2. **Accounting Convention**
  - (A) The financial statements are prepared based on the historical convention, unless otherwise stated and on the accrual method of accounting.
  - (B) Investment has taken place during the financial year 2012-13.
  - (C) Fixed assets are stated at cost of acquisition inclusive of inward expenses incidental and direct expenses.
  - (D) Depreciation has been charged at the rate 10%.
  - (E) Govt. grants received during the financial year for Capital expenditure are treated as Corpus Fund. Government Grants are accounted on accrual basis.

**Schedule – 25:- Contingent Liabilities and Notes on account.**

1. Contingent Liabilities: - Claims against the Institute under suit is NIL.


**Notes on Account:** A. Corresponding figure for the year have been regrouped / rearranged whenever necessary.

B. Capital assets acquired during the financial year of Rs. 225151097.00only.

C. Expd. Shown on average basis as

|                      |   |   |
|----------------------|---|---|
| Estt. Expd. (Salary) | - | ST – 29.92%                                   |
|                      |   | SC – 7.46%                                    |
|                      |   | GE – 62.62% as per availability of officials. |
| Admn. Expd.          | - | ST – 10%                                      |
|                      |   | SC – 5%                                       |
|                      |   | GE – 85%                                      |

Works Expd. booked as per availability of fund based on – head of a/c wise.

  
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