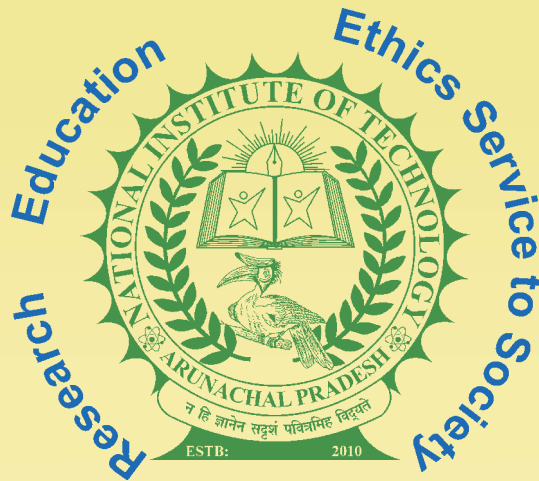


**NATIONAL INSTITUTE OF TECHNOLOGY-
ARUNACHAL PRADESH**

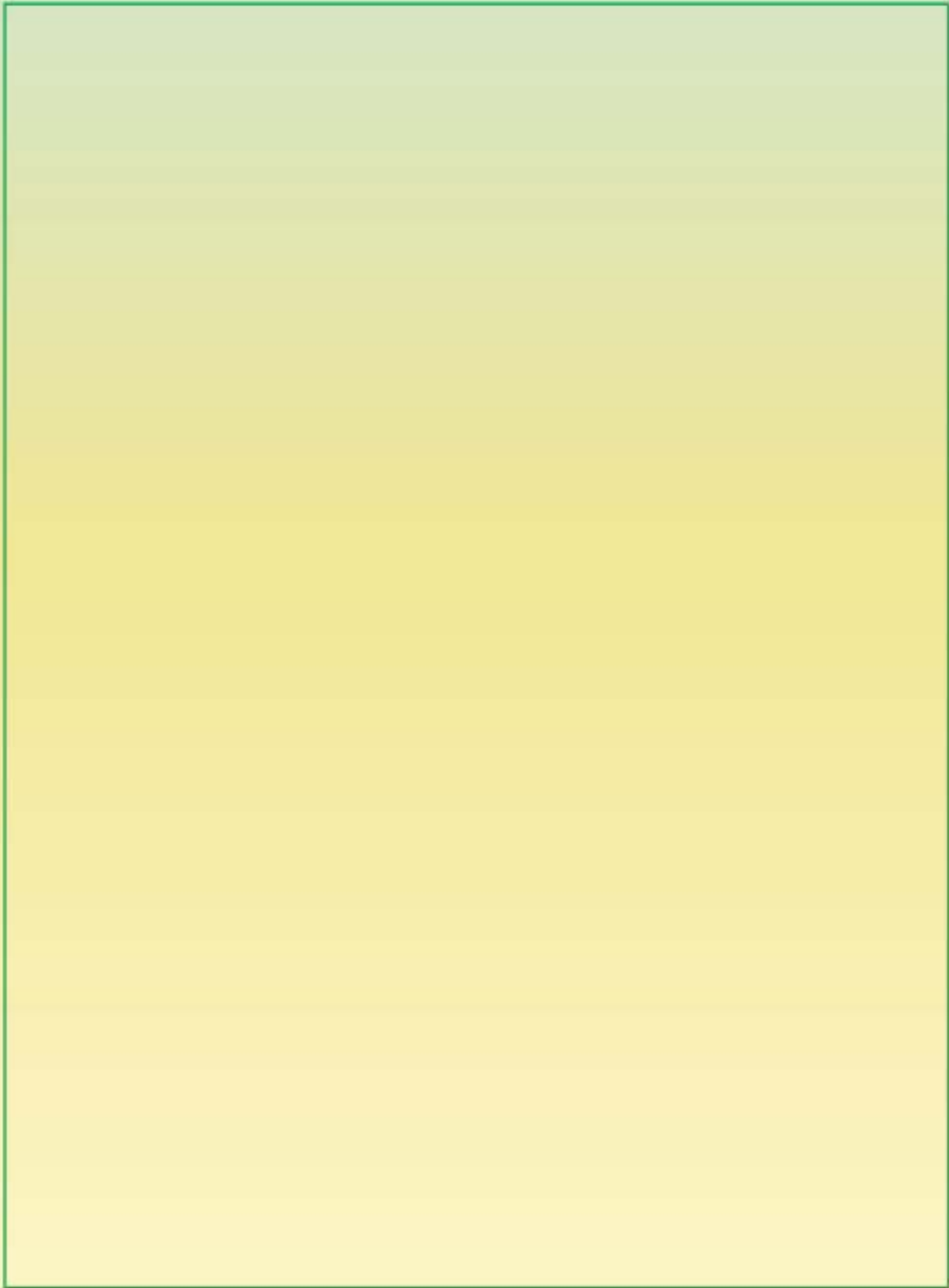
(YUPIA, ARUNACHAL PRADESH)

ANNUAL REPORT (2012-13)



Phone Nos. : 0360-2284801, 2001581, 2001582, Fax: 0360-2284972
Email: nitarunachal@gmail.com, admin@nitap.in

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



Preface:

From the Desk of the Director:



Prof. C.T. Bhunia, Director

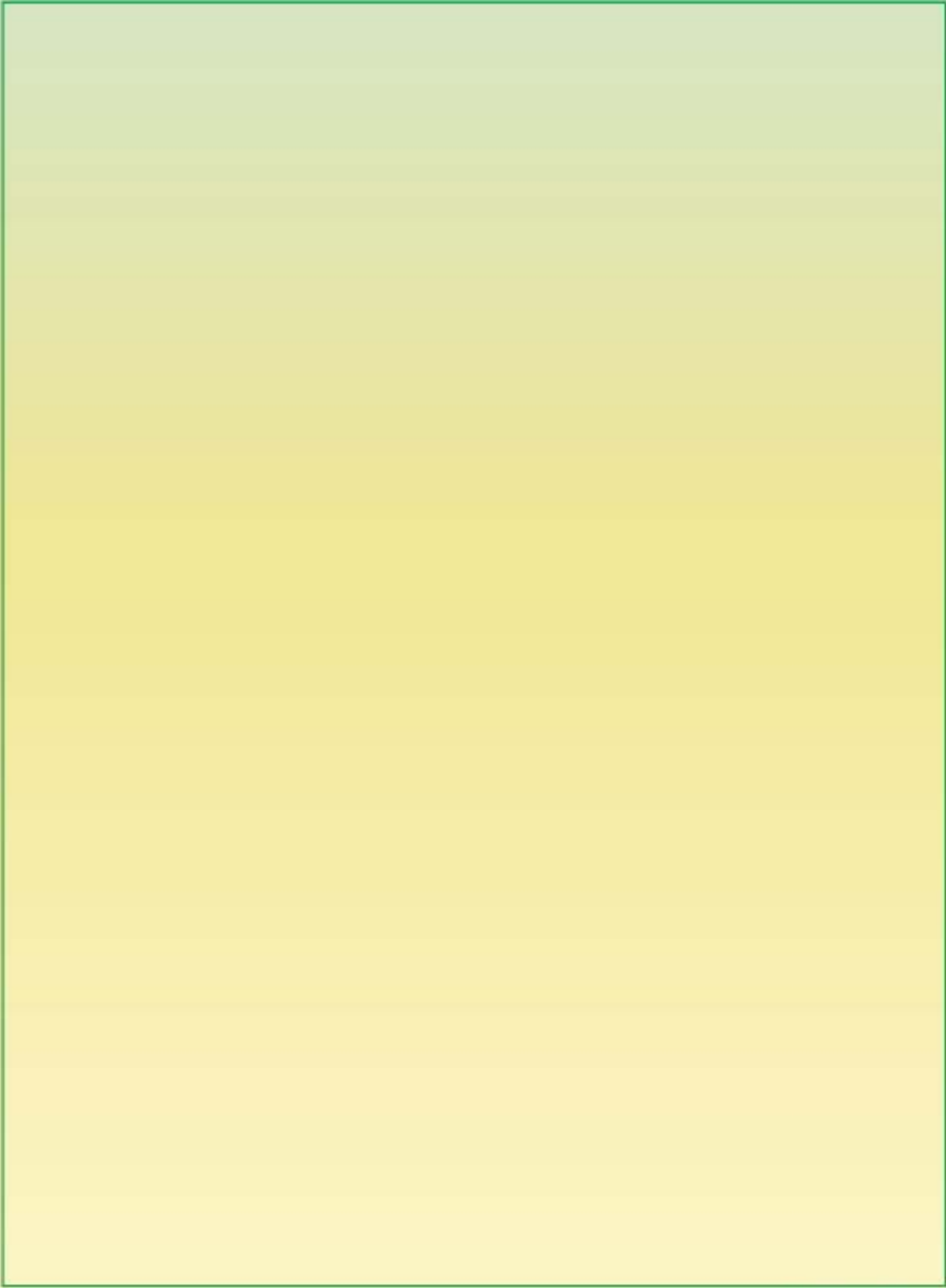
During the last one year, the Institute has witnessed a pretty emphatic growth towards objective fulfillment of its defined Vision & Mission. In this context, the co-operation of the members of faculty, support of officials & members of staff and the integrated involvement of the students are commendable 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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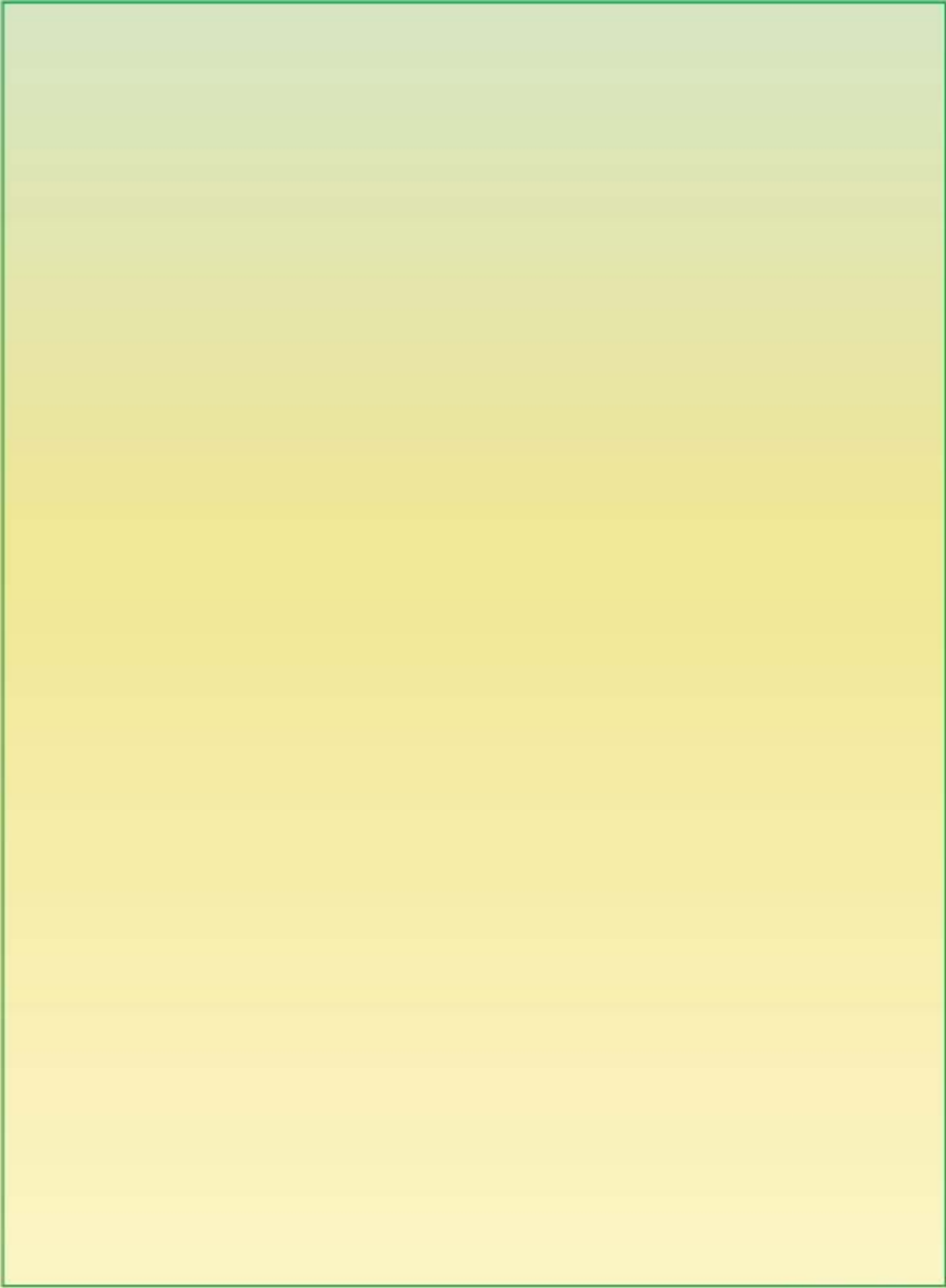


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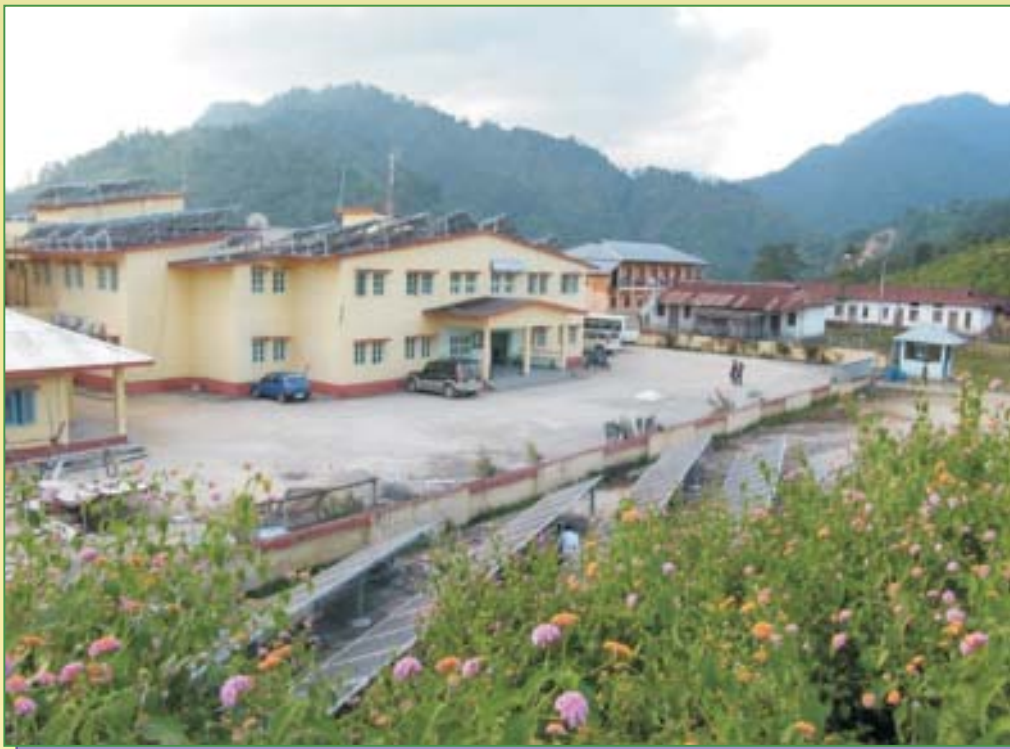
ANNUAL REPORT
PART- I



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

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	-	-
Total		243510149.00	76500658.00

(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
Total		243510149.00	76500658.00

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

Academic	: Prof. P. D. Kashyap, Academic Coordinator
Research and Development	: Dr. Pinaki Chakraborty, Assistant Dean (R &D)
Examination	: Dr. Nabakumar Pramanik, 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; 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; 26.10.2012
Board of Studies	: 28.03.2013; 09.03.2013; 22.12.2012; 10.11.2012, 16.10.2012; 23.07.2012; 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

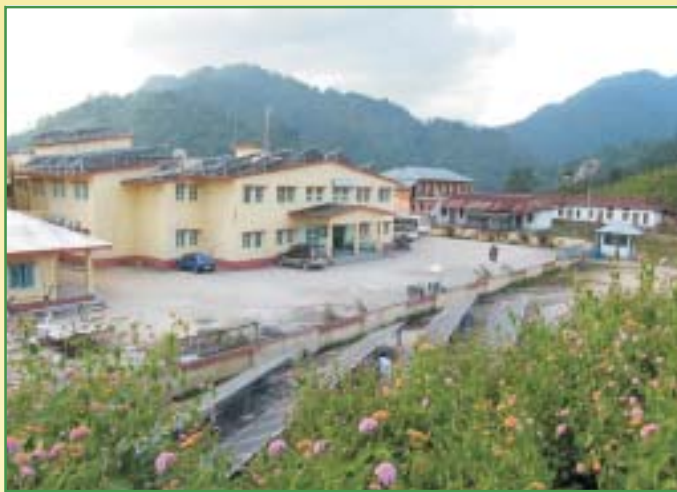
Voltage: 2V

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.

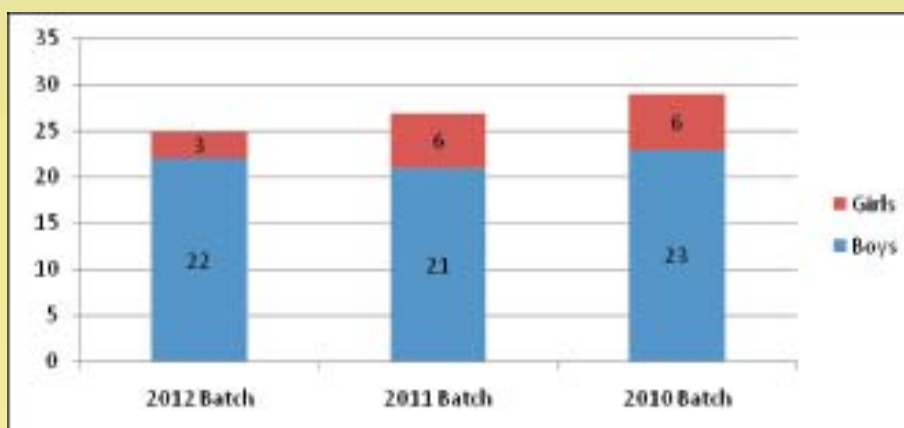
3.3 Admission of students

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



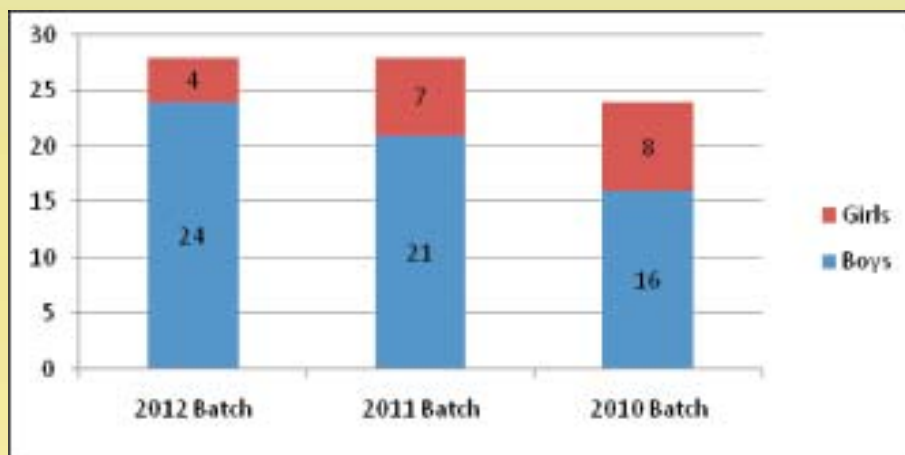
[No. of students registered (gender-wise) in Computer Science & Engg.]



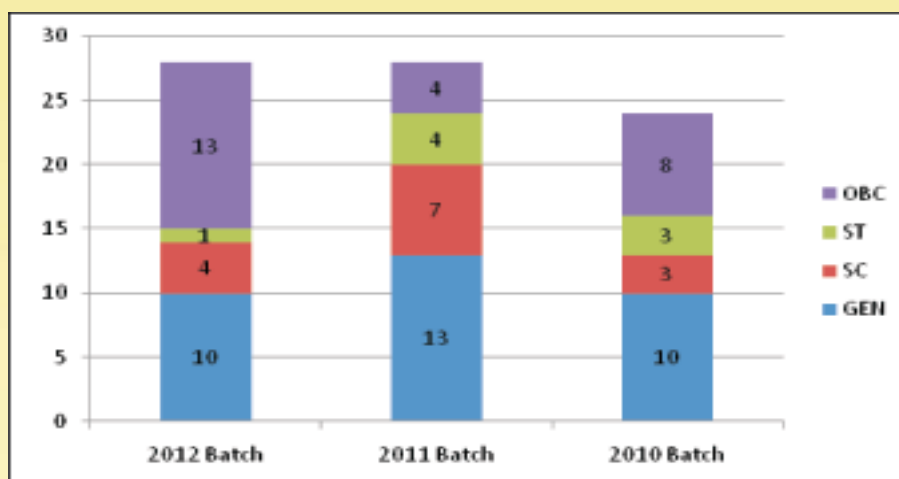
[No. of students registered (category-wise) in Computer Science & Engg.]

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



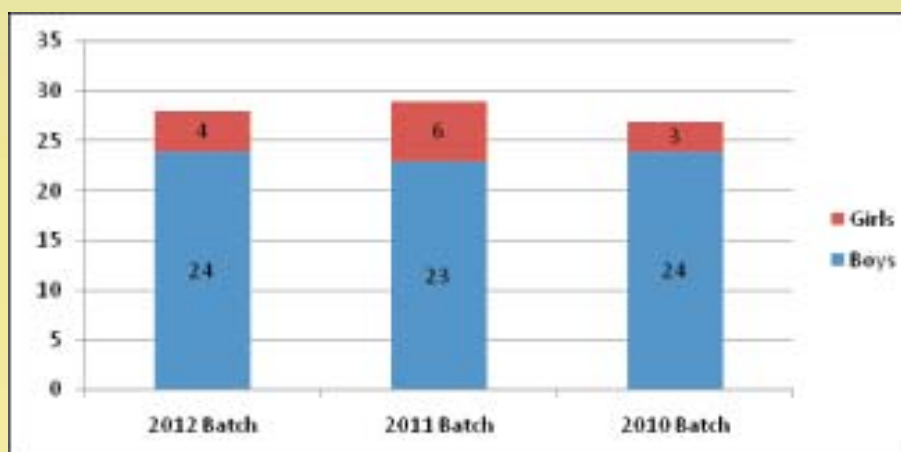
[No. of students registered (gender-wise) in Electronics & Communication Engg.]



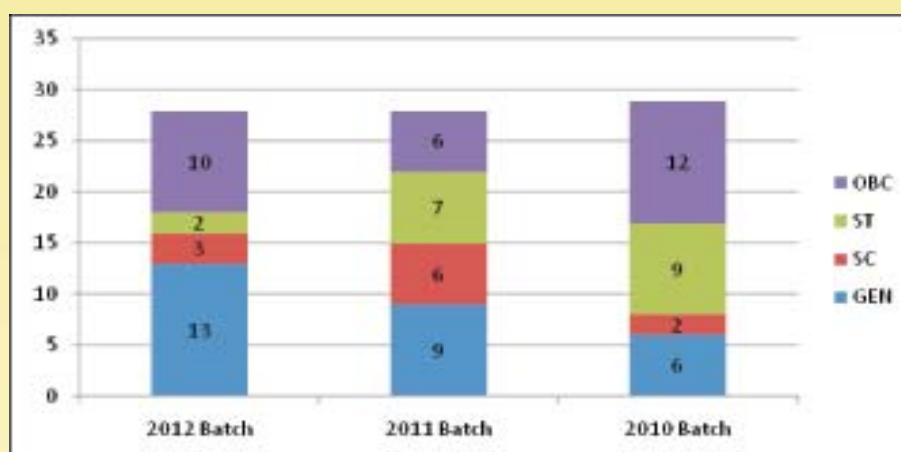
[No. of students registered (category-wise) in Electronics & Communication Engineering]

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

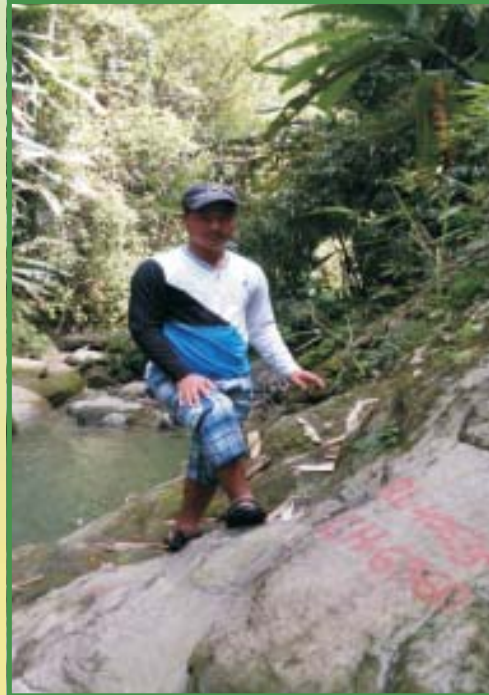
A temporary office-shed has been constructed on the permanent site at Jote for supervising /controlling of construction works being undertaken therein.



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

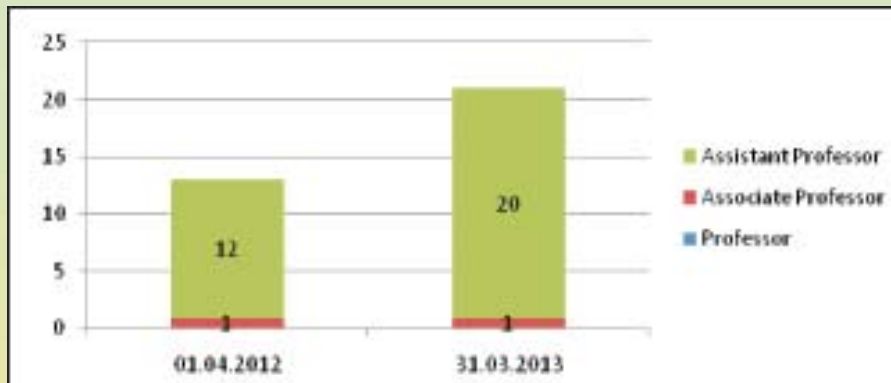
5.2 Current strength of the Faculty as on 31.03.2013

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

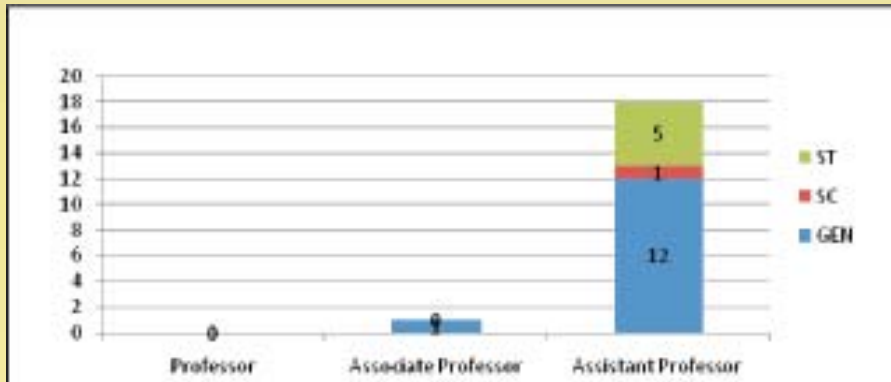
5.3 Faculty Profile as on 31.3.2013

	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

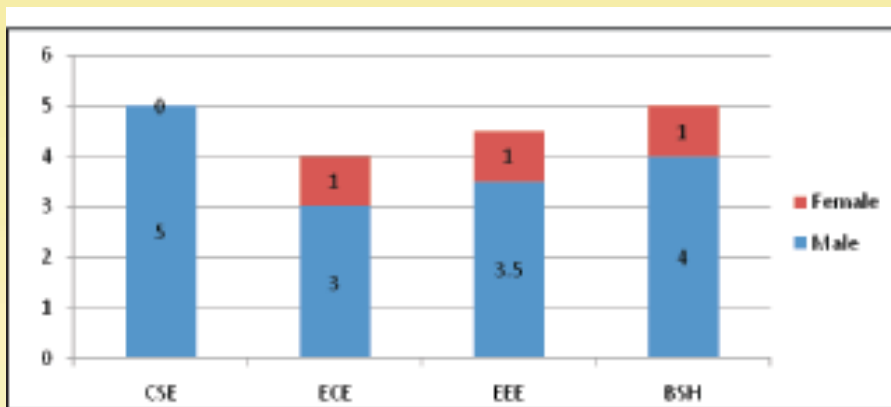
ANNUAL REPORT 2012-13



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 Bulu, 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
Total	68	15	83

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
Total	61	19	80

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
Total	71	13	84

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	NIT-Arunachal Pradesh	245	10,000	40.81
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

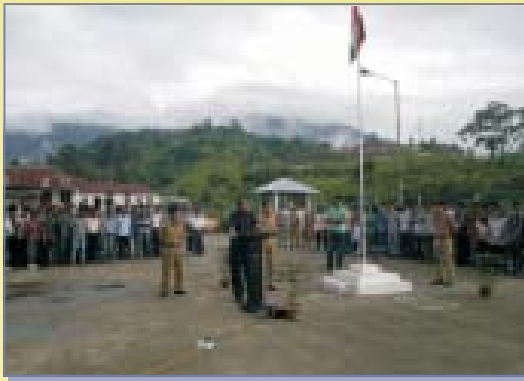
granting waiver in fees to the deserving students. The scholarship section is being headed by Dr. Karam Ratan Singh, Assistant Professor, Mathematics & TPO of the Institute.

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

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

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

II – FINANCE COMMITTEE

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

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

III – SENATE

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

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

IV – BUILDING AND WORKS COMMITTEE

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

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

V – BOARD OF RESEARCH

Department of Computer Science & Engineering

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

Department of Electronics & Communication Engineering

Chairman (Ex-Officio)	1	Director National Institute of Technology- Arunachal Pradesh
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Members	2	Prof. Gautam Ghosh ECE, RP & Electronics, CU, Kolkata
	3	Dr. D. P. Kothari Director General, J.B.Group of Educational Institutions
	4	Prof. Rabindranath Bera Head, Department of Electronics & Communication Engineering, Sikkim Manipal University (Sikkim), Department of Electrical & Electronics Engineering

Department of Electrical & Electronics Engineering

Chairman (Ex-Officio)	1	Director National Institute of Technology- Arunachal Pradesh
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Members	2	Prof. Gautam Ghosh ECE, RP & Electronics, University of Calcutta, Kolkata
	3	Dr. D. P. Kothari Director General, J. B. Group of Educational Institutions
	4	Prof. Rabindranath Bera Head, Department of Electronics and Communication Engineering, Sikkim Manipal University(Sikkim)

VI – BOARD OF STUDIES

Department of Computer Science & Engineering

Chairman (Ex-Officio)	1	Head, Department of Computer Science & Engineering (at the grade of Professor only), National Institute of Technology-Arunachal Pradesh
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Members

- | | |
|---|--|
| 2 | Prof (Dr.) Ajit Pal
Department of Computer Science & Engineering, IIT-Kharagpur, WB |
| 3 | Prof (Dr.) Atal Chowdhury
Department of Computer Science & Engineering, Jadavpur University, Kolkata |
| 4 | Prof (Dr.) Bubu Bhuyan
Associate Professor and Head of the Department of Information Technology, NEHU, Shillong |
| 5 | Prof (Dr.) Samir Roy
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
Head of the Department, Electronics & Communication Engineering, Tezpur University, Tezpur, Assam |
| 3 | Prof. (Dr.) A. Hussain
Department of Electronics & Communication Engineering, NERIST, Nirjuli, Arunachal Pradesh |
| 4 | Prof. (Dr.) Monojit Mitra
Department of Electronics & Communication Engineering, BESU, Shibpur, West Bengal |

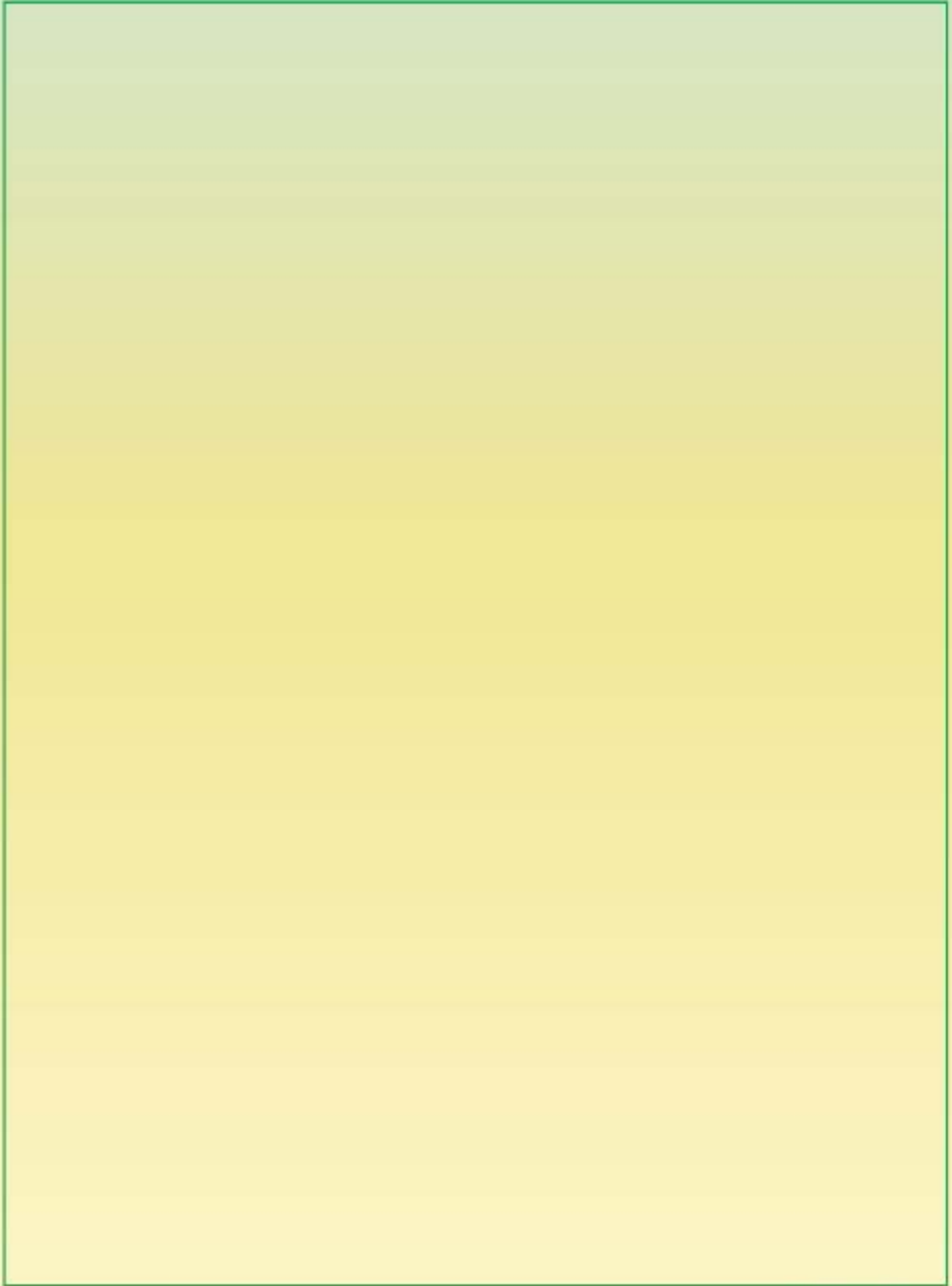
- 5 Prof. (Dr.) P.K Basu
Department of Radio Physics &
Electronics, Calcutta University,
Kolkata, West Bengal

Department of Electrical & Electronics Engineering

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

News Paper Cuttings:

Different Events Performed by
NIT- Arunachal Pradesh





Workshop on renewable sources of energy



Painting Competition

Blood flows at NIT Yupia courtesy Blood Bank team of ASH

ASHNIP, Jan 09: The Blood Bank, Assam Institute of Health Sciences, Assam, has organized a Blood Donation Camp at NIT Yupia, Assam, on Saturday. The camp was held in the presence of the Head of Institute, Dr. D. D. Das, and other faculty members. The camp was held in the presence of the Head of Institute, Dr. D. D. Das, and other faculty members. The camp was held in the presence of the Head of Institute, Dr. D. D. Das, and other faculty members.



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Blood Donation Camp

4 days EAC for students begins

ITANAGAR, Jan 09: The four days Entrepreneurship Awareness Camp (EAC) sponsored by National Science and Technology Entrepreneurship Development Board, DST, Government of India and implemented by Entrepreneurship Development Institute of India, Ahmedabad began at National Institute of Technology (NIT), Arunachal Pradesh today.

50 students have enrolled for the camp. This is reported to be first such DST sponsored EAC in Arunachal Pradesh. In the inaugural function of the camp, Director Prof (Dr.) CT Bhunia stressed upon the need for such camps, particularly to impart entrepreneurial skills at the insti-

tute level. Prof Bhunia said that technical institutions have a lead role to play in imparting entrepreneurial skills at the institutional level to create successful entrepreneurs in today's highly competitive global market. Various issues of entrepreneurship will be deliberated upon by leading experts, namely Prof. Jiban

Chakraborty, Jadavpur University, Prof. S K Dutta, National Institute of Rural Development, Guwahati, Government of India, Uday Kumar Bharali, a leading Entrepreneur from Northeast. The participants will visit various industries in the region managed by leading entrepreneurs on the last day of the workshop.

Painting Competition

ANNUAL REPORT 2012-13

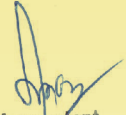
NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, YUPIA - 791112

BALANCE SHEET AS ON 31ST MARCH, 2013

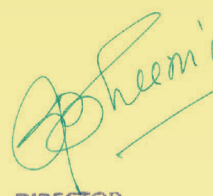
Amount in Rs.

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	-	-
Total		243510149 .00	76500658 .00

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
Total		243510149 .00	76500658 .00


 Accountant
 National Institute of Technology
 Yupia, Arunachal Pradesh


O.S.D.
 National Institute of Technology
 Yupia, Arunachal Pradesh


DIRECTOR
 National Institute of Technology
 (Established by Ministry of Human
 Resource Development, Govt. of India)
 Yupia, Arunachal Pradesh


NATIONAL INSTITUTE OF TECHNOLOGY
ARUNACHAL PRADESH, YUPIA - 791112
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31ST 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 : Grant-in-aid received from Ministry of Human Resource Development, Department of Education Govt. of India, vide sanction order No. (Details given in a separate sheet)	176210000.00	-
		88000000.00
Total	252379019.00	88000000.00
Add/Deduct : Balance of net (Income / Expenditure from Income / Expenditure Account)	(-) 10438528.00	(-) 11830981.00
Total	241940491.00	76169019.00

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

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


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 Yupia, Arunachal Pradesh


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SCHEDULE FORMING PART OF BALANCE SHEET AS ON 31ST 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	Deduction during the year	Cost/Valuation at end of the year	As at the beginning of the year	Addition during the year	Deduction during the year	Total upto the year end	As at the current year end
1	Fixed Assets Buildings	7438086.00	17701644.00	6135872.00	172320655.00	7438086.00	7438086.00	171576847.00	7438086.00	7438086.00
2	Laboratory Equipment	16788495.00	30488721.00	12895798.00	34381418.00	16788495.00	16788495.00	327025683.00	16788495.00	16788495.00
3	Furniture	5955967.00	7402854.00	2053204.00	11305457.00	5955967.00	5955967.00	10709860.00	5955967.00	5955967.00
4	Vehicles	-	-	-	-	-	-	-	-	-
5	Office equipment	5124737.00	659765.00	176420.00	953818.00	5124737.00	5124737.00	942571.00	5124737.00	5124737.00
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	-	6217095.00	2725012.00	2725012.00	5938594.00	2725012.00	2725012.00
15	Air conditioner	-	-	-	-	-	-	-	-	-
16	Purchase of Gen Set	704814.00	1355000.00	-	840314.00	704814.00	704814.00	698333.00	704814.00	704814.00
17	Canteen utensils	-	80824.00	-	80824.00	80824.00	80824.00	80824.00	80824.00	80824.00
18	Hostel utensils	-	-	-	-	-	-	-	-	-
19	Solar Electrification, Jole	2700000.00	-	-	2700000.00	2700000.00	2700000.00	2430000.00	2700000.00	2700000.00
20	Club equipment	-	-	-	-	-	-	-	-	-
	Total of current year	36824847.00	213270025.00	21261294.00	228835581.00	36824847.00	36824847.00	225151097.00	36824847.00	36824847.00
21	Building in progress	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-
	Previous year	-	-	-	-	-	-	-	-	-

* Fixed assets / buildings are ongoing works – 171016441.00

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Amount in Rs.

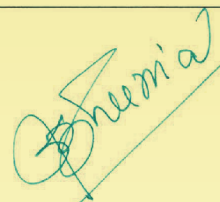
SCHEDULE-5 INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	CURRENT YEAR	PREVIOUS YEAR
1. Contributory Pension Scheme	1569658.00	331639.00
Total	1569658.00	331639.00

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

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


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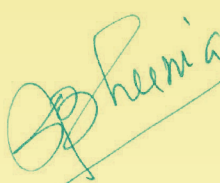
INCOME & EXPENDITURE ACCOUNTS FOR YEAR ENDED 31ST MARCH, 2013

Amount in Rs.

A. Income	Schedule	CURRENT YEAR	PREVIOUS YEAR
Grant-in-Aid	7	21490000.00	-
112-36		1500000.00	
789-36		800000.00	
796-36		14465291.00	4061745.00
Fees from Students	8	1967667.00	-
Interest earned	9	5081436.00	93550.00
Other Income	10		
Total (A)		45304394.00	4155295.00
B. Expenditure			
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
Total (B)		55742922.00	15986276 .00
Balance being excess / deficit of Expenditure over income (B-A)			11830981.00
Total		10438528.00	
Balance being deficit / excess carried over to corpus fund		10438528.00	11830981.00


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Amount in Rs.

SCHEDULE-7 – GRANTS	CURRENT YEAR	PREVIOUS YEAR
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	
Total	23790000.00	88000000.00


SCHEDULE 8 – FEES	CURRENT YEAR	PREVIOUS YEAR
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	
Total	14465291.00	4061745.00

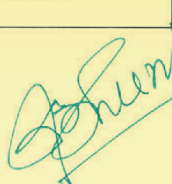
SCHEDULE 9 – INTEREST EARNED	CURRENT YEAR	PREVIOUS YEAR
Short Term Deposit with State Bank of India / IDBI Bank	1967667.00	
Misc Deposit		
Total	1967667.00	

SCHEDULE 10 – OTHER INCOME	CURRENT YEAR	PREVIOUS YEAR
Miscellaneous Income		93550.00
Advance	1125259.00	
Other Receipt	3956177.00	
Total	5081436.00	93550.00

SCHEDULE 11 – ESTABLISHMENT EXPENSES	CURRENT YEAR	PREVIOUS YEAR
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
Total	24651402.00	5199507.00


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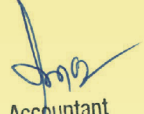

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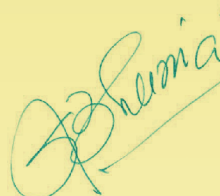
SCHEDULE 12-OTHER ADMINISTRATIVE EXPENSES ETC.

(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	
Total	31091520.00	10786769.00


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SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNTS
FOR THE YEAR ENDED 31ST 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
Total	39226444.00	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	-	-
Total	14465291.00	4155295.00


SCHEDULE 15 –Any Other receipts

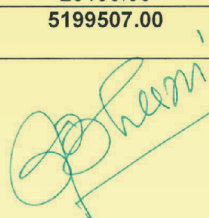
	CURRENT YEAR	PREVIOUS YEAR
i) Interest earned on investment	1967667.00	Nil
ii) Other receipt	3956177.00	Nil
iii) Security Deposit	-	Nil
iv) Students Welfare Fund	-	Nil
v) Advance	1125259.00	Nil
Total	7049103.00	Nil

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
Total	24651402.00	5199507.00



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MHRD F.No.34-6/2012 TS-III dated 27/02/2013									
112-31	17310000.00								
112-35	13790000.00								
112-36	17708000.00								
789-31	-								
789-35	-								
789-36	21571000.00								
796-31	9621000.00								
796-35	-								
796-36	-								
Non Plan Fund - 23790000.00									
Plan - 176210000.00									
200000000.00									
3. Interest earned on Short term Deposit with SBI									
4. Other Income	14	14465291.00	4061745.00						
5. Any other Receipts	15	7049103.00	93550.00						
	Total	260740838.00	92155295.00						
Closing Balance									
a) Cash in Hand									183850.00
b) Imprest									245529.00
c) Bank									10000.00
									5349030.00
									5604559.00
Bank Balance									
a) In Current Accounts									
Details of Bank Balance :									
1. Plan Fund :									39032594.00
2. Non Plan Fund :									
3. In Other's A/c									
a) Students Money :									
b) Security Deposit :									
(Contractors & Other)									
	Total	260740838.00	92155295.00						92155295.00


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SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2013

SCHEDULE 17 – Other Administrative Expenses

(Amount in Rs.)

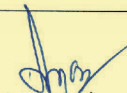
	CURRENT YEAR	PREVIOUS YEAR
i) Consumable item for Teaching		26179.00
ii) Printing & Stationary	569201.00	141098.00
iii) Travelling Allowances	3431156.00	1056606.00
iv) Vehicle Running & Maintenance	4033846.00	1341170.00
v) Advertisement	2021637.00	793644.00
vi) Maintenance of building	2828900.00	6022300.00
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	
Total	27409036.00	10786769.00


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	
Total	97644081.00	7438086.00

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
Total	17592923.00	20705782.00


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(Amount in Rs.)

SCHEDULE 18C – Library Books / Journals	CURRENT YEAR	PREVIOUS YEAR
i) Library Books / Journals	3486083.00	2725012.00
Total	3486083.00	2725012.00


SCHEDULE 18D – Furniture & Fixtures	CURRENT YEAR	PREVIOUS YEAR
i) Furniture	5349490.00	5955967.00
Total	5349490.00	5955967.00


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	
Total	67238488.00	Nil
Total of Schedule 18		Nil

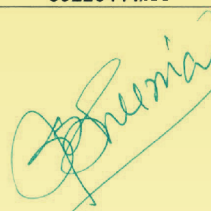
SCHEDULE 18F – Others Capital Expd.	CURRENT YEAR	PREVIOUS YEAR
i) Office Equipment	481345.00	512373.00
ii) Purchase of Gen Set	135500.00	704814.00
iii) Canteen Utensils	80824.00	
Total	697669.00	Nil
Total of Schedule 18		Nil

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	-
Total	11067107.00	117728.00

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
Total	5604559.00	39226444.00


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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 80000000.00	-	17310000.00	13790000.00	17708000.00	-	-	21571000.00	9621000.00	-	80000000.00
239226444.00	122914971.00	19871914.00	21490000.00	37823172.00	0	1510000.00	25195387.00	9621000.00	800000.00	239226444.00

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	142346968.00	20035370.00	21666765.00	38134285.00	0	1522338.00	25402631.00	9700372.00	806850.00	250740838.00

31. Grants in aid General

Detail of Expenses	112-36	789-35	796-36
Establishment Expenses -	15436708.00	-	-
Administrative Expenses -	23297680.00	-	-
Establishment Expenses -	1838995.00	-	-
Administrative Expenses -	1370452.00	-	-
Establishment Expenses -	7375699.00	-	-
Administrative Expenses -	2740904.00	-	-
Creation of Capital Asset -	18670806.00	-	-
Creation of Capital Asset -	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
		260740838.00

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
	Total	Rs.	18670806.00
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
	Total	Rs.	9370594.00
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
	Total	Rs.	117565911.00


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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
	Total	Rs.	22583413.00
796-31	Providing water system at Jote	Rs.	21773000.00
	Purchase of library books	Rs.	3486083.00
	Total	Rs.	25259083.00
	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.

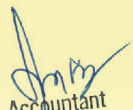
B. Capital assets acquired during the financial year of Rs. 225151097.00only.


C. Expd. Shown on average basis as

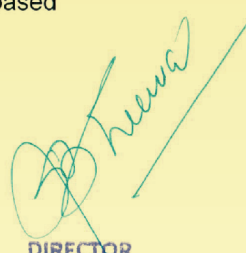
Estt. Expd. (Salary)	-	ST – 29.92%
		SC – 7.46%
		GE – 62.62% as per availability of officials.

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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