

# NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

## Minutes of Third Meeting of the Senate held on 10.02. 2014

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The III<sup>rd</sup> meeting of the Senate of NIT Meghalaya was held on 10<sup>th</sup> February, 2014 at 10.00 a.m. in the conference room of the Institute at Bijni Complex, Shillong and the following members were present:

- |  |                |
|--|----------------|
| 1. Professor D. K. Saikia, Director, NIT Meghalaya       | - Chairman     |
| 2. Professor B. P. Sinha, ACM Unit, ISI Kolkata          | - Member       |
| 3. Professor D. Chakraborty, Dean(R&D), IIT Guwahati     | - Member       |
| 4. Professor S. M. Hazarika, CSE, Tezpur University      | - Member       |
| 5. Dr. G. Panda, Head, EEE, NIT Meghalaya                | - Spl. Invitee |
| 6. Dr. A. Dandapat, Head, ECE, NIT Meghalaya             | - Spl. Invitee |
| 7. Dr. R. Ray, Head, CSE, NIT Meghalaya                  | - Spl. Invitee |
| 8. Dr. D. K. Sarma, Head, Mechanical, NIT Meghalaya      | - Spl. Invitee |
| 9. Dr. C. Marthong, Head, Civil, NIT Meghalaya           | - Spl. Invitee |
| 10. Dr. A. Bhattacharjee, Head, Physics, NIT Meghalaya   | - Spl. Invitee |
| 11. Dr. P. N. Chatterjee, Head, Chemistry, NIT Meghalaya | - Spl. Invitee |
| 12. Dr. S. Mukherjee, Head, Mathematics, NIT Meghalaya   | - Spl. Invitee |
| 13. Mr. D. J. Goswami, Registrar i/c, NIT Meghalaya      | - Secretary    |

The other members of the committee, Professor S. S. Khare and Professor H. Giri could not attend the meeting due to personal reasons.

At the outset the Chairman welcomed the members to the III<sup>rd</sup> meeting of the Senate. The agenda of the meeting was then taken up.

### **Item No. 1 Confirmation of the minutes of the Second meeting of the Senate of NIT Meghalaya held on 20.07.2013.**

The Second Meeting of the Senate of the Institute was held on 20.07.2013 in the Conference Hall of Hotel Landmark Hills, Shillong. The minutes of the meeting were circulated amongst the members of the Committee for their comments/ observations, if any.

There were a few minor corrections required in the curriculum of the B. Tech Programme as pointed out by the Head of the Departments.

**R1/SENATE-III/14:** *The Senate resolved to confirm the minutes of the second meeting of the Senate with the corrections in the B. Tech curriculum (Annexure-I, pg -13).*

### **Item No. 2 Follow up action of the decision of the second meeting of the Senate**

Actions taken on the decisions of the second meeting of the Senate held on 20.07.2013

**R2/SENATE-III/14:** *The Senate NOTED the follow-up action as reported.*

### **Item No. 3 Syllabi of Courses for B. Tech. Programme for Approval**

The Draft Syllabi of the following courses in the B. Tech programme were placed before the Senate for its consideration:-

1. ME 102: Engineering Thermodynamics (2 – 0 – 0: 2)
2. EC 203: Signals & Systems (3 – 1 – 0: 4)
3. EC 205: Principles of Communication (3-1-2: 5)
4. EC 204: Computer Organization & Architecture (3 – 1 – 2: 5)
5. CS 205: Algorithms (3 – 0 – 2: 4)
6. CS 206: Database Systems (3 – 0 – 2: 4)
7. CS 207: Principles of Programming Languages (3 – 0 – 2: 4)
8. CS 208: Data Communication (3 – 0 – 2: 4)
9. CS 211: Object Oriented Programming (3 – 0 – 2: 4)
10. CS 311: Object Oriented Programming and Design (3 – 0 – 2: 4)
11. EE 204: Measurement & Instrumentation (3 – 1 – 0: 4)
12. EE 205: Transmission & Distribution (3 – 1 – 2: 5)
13. EE 210: Electrical Technology (3 – 0 - 2: 4)

The Senate discussed the syllabi and suggested minor corrections in these. It was also suggested that comments from expert outside the institute shall be obtained on the syllabi before being place in the Senate.

As per the suggestions of the members comments were taken from external experts on the 4<sup>th</sup> semester syllabi and updated detailed version is enclosed in Annexure-II (pg-14).

**R3/SENATE-III/14:** *The Senate resolved to approve the syllabi for the B. Tech courses listed subject to corrections as advised.*

### **Item No. 4 Courses for the Ph. D Programme**

A set of new courses listed below proposed for the Ph. D. programme in Electrical and Electronics Engineering, Computer Science and Engineering, Physics and Management Science.

- |   |       |   |
|---|-------|---|
| 1. MS 701 Social Media Strategy                             | 3-0-0 | 3 |
| 2. MS 702 Business Intelligence                             | 3-0-0 | 3 |
| 3. PH 701 Basic Characterization Techniques                 | 3-0-0 | 3 |
| 4. EE 708 Digital Image Processing                          | 3-0-0 | 3 |
| 5. CS 705 Parallel Processing: Architectures and Algorithms | 3-0-0 | 3 |
| 6. CS 706 Parallel Programming on Heterogeneous Platforms   | 3-0-0 | 3 |

The Senate deliberated on the proposed courses and decided to approve these with a few modifications as in Annexure-III (pg 28).

**R4/SENAT-III/14:** *The Senate resolved to approve the proposed courses for the Ph. D. Programme as in Annexure-III (pg- 28).*

### **Item No. 5 Recognizing Coursera Courses as Approved Courses for Ph. D. Programme**

Coursera offers a wide range of high quality online courses in partnership with more than 50 top notch universities worldwide including Stanford, Princeton etc. It is thought that it will be highly beneficial to allow research scholars to register for Coursera courses and get the credit for these, where appropriate, to satisfy the course requirement of their Ph. D. Program.

The guidelines to be followed for the allowing the credits for a course are as below:

1. The Doctoral Committee shall recommend the course to the scholar;
2. The scholar shall submit the recommendation with the course content and course load details to the chairman, DRC;
3. A committee constituted by the Director/ Dean of Academic Affairs shall work out the credit equivalence of the course for consideration by the Senate.
4. The scholar shall register for the course at the Institute as well as at Coursera.
5. A faculty member shall be assigned as a mentor at the Institute.
6. A viva by the mentor and an expert shall be arranged on completion of the course for the certification at the Institute.

The Senate discussed the pros and cons of the proposal in detail and concluded that it is a positive step and decided to approve the same.

**R5/SENATE-III/14:** *The Senate resolved to recognize Coursera courses as approved courses for the Ph. D. programme as per the proposed guidelines.*

### **Item No. 6 Starting of M. Tech Programme**

As per the DPR of the Institute it is required to start M. Tech programme in 2013-14. However, it could not be done due to shortage of infrastructures. The Institute currently has the required hostel capacity and expects to get some more space in its academic campus soon. It was proposed to start the M. Tech programme in 2014-15 in the three disciplines of Computer Science and Engineering, Electronics and Communication Engineering, Electrical Engineering with an intake of 20(twenty) each. The starting of the M. Tech programme is expected to make the academic environment of the Institute more vibrant and enhance the research activities. The academic regulations for the PG programme are already in place. As per the approved regulations the admissions to the M. Tech. programme shall be done through the Centralized Counselling for M. Tech/ M. Plan (CCMT) set-up by MHRD, GoI based on performance in the Graduate Aptitude Test Examination (GATE). The students shall be eligible for scholarship as per MHRD norms for a period of two years.

The proposed Curriculum Structure for the programme was also placed before the Senate as-

### **M. Tech Programme Curriculum Structure 2014:**

#### **Duration:**

Minimum	: 4 semesters
Maximum	: 8 semesters

#### **Credit Requirement:**

Minimum	: 60
Core Courses	: 12
Electives	: 15
Laboratory Course	: 6
Term Paper	: 2
Seminar	: 3

Project Work : 22

**Model Semester wise Distribution of Courses:**

Course No.	Course Title	Contact Hour			Credit	Course No.	Course Title	Contact Hour			Credit
		L	T	P				L	T	P	
<b>Semester-I</b>					<b>Semester-II</b>						
XX nnn	Core Course-I	3	0	0	3	XX nnn	Core Course-IV	3	0	0	3
XX nnn	Core Course-II	3	0	0	3	XX nnn	Elective Course-III	3	0	0	3
XX nnn	Core Course-III	3	0	0	3	XX nnn	Elective Course-IV	3	0	0	3
XX nnn	Elective Course-I	3	0	0	3	XX nnn	Elective Course-V	3	0	0	3
XX nnn	Elective Course-II	3	0	0	3	XX nnn	Laboratory Course-II	0	0	6	3
XX nnn	Laboratory Course-I	0	0	6	3	XX nnn	Seminar-I	0	0	2	1
		15	0	6		XX nnn	Minor Project	0	0	4	2
		21			18			12	0	12	18
<b>Semester-III</b>					<b>Semester-IV</b>						
XX nnn	Term Paper	0	0	4	2	XX nnn	Project-II	0	0	24	12
XX nnn	Seminar-II	0	0	4	2						
XX nnn	Project-I	0	0	16	8						
		0	0	24	12			0	0	24	12
		24			12			24			12

The list of courses and the syllabi for the individual disciplines shall be placed in the next meeting of the Senate for its approval.

The Senate discussed the curriculum structure for the proposed M. Tech programme and decided to approve the same for starting of the programme from the session 2014-15.

**R6/SENATE-III/14:** *The Senate resolved to approve starting of the M. Tech programme in the three disciplines of Computer Science and Engineering (CSE), Electronics and Communication Engineering(ECE) and Electrical Engineering (EE) from the session 2014-15. The Senate also approved the curriculum structure for the proposed programme.*

**Item No. 7 Proposal to open up the vacant SC/ST state quota seats for admission to general category after second round of admissions.**

From the year 2013-14 the state quota seats in the B. Tech programme are being filled-up as per Meghalaya state reservation policy. In the admissions this year, 10 out of the 60 seats reserved for ST category in the state quota remained vacant due to non-availability of qualified candidates. Such non-filling seats lead to wastage of capacity and national resource which need to be avoided. It is therefore proposed that the seats that remain vacant against SC/ST category under the state quota will be made available to the OPEN category qualified candidates from within the state after the second round of counselling with due concurrence obtained from the State Govt.

The Senate welcomed the proposal.

**R7/SENATE-III/14:** *The Senate resolved to approve the proposal to make the SC/ST state quota seats remaining vacant in the B. Tech programme after the second round of counselling available to the OPEN category qualified candidates.*

**Item No. 8 Request for Transfer of Ph. D. Scholar by Dr. Ayon Bhattacharjee from NIT Silchar**

Dr. Ayon Bhattacharjee who is serving as Associate Professor in the Physics Department on deputation from NIT Silchar, has requested that two of the research scholars- Mr. Debanjan Bhattacharjee and Mr. Sandip Paul Choudhury working under his supervision at NIT Silchar be allowed to be transferred to NIT Meghalaya. The Progress records of the two scholars were also placed before the Senate.

The Senate welcomed the proposal.

**R8/SENATE-III/14:** *The Senate resolved to allow transfer of the two Ph. D. scholars at NIT Silchar working under the supervision of Dr. Ayon Bhattacharjee of Department of Physics to NIT Meghalaya.*

**Item No. 9 Request by a student of first semester**

Prem Prabhat, a 1<sup>st</sup> year student admitted in the ECE discipline under PWD category has been suffering from C.P.-Spastic & Dystonia. Due to the disease, he cannot write with his own hands and has been allotted a writer as per direction of the Govt. of India. Now the father of the student has approached the Institute with a request to reduce the numerical part of the curriculum and also that the assignments and Engineering Drawing should be taken as viva for the student.

The Senate was requested to consider and advise.

The Senate opined that modification in the curriculum for individual students is not possible. It however advised that the institute may provide lecture notes and other suitable tools and aids to the student wherever feasible.

**R9/SENATE-III/14:** *The Senate resolved not to allow any modification in the curriculum for individual students.*

**Item No. 10 Creation of Ordinances**

As per the NIT Act the Senate of every NIT is required to make Ordinances to provide for all or any of the following matters, namely:

- (a) The admission of the students to the institute;
- (b) The courses of study to be laid down for all degrees and diplomas of the institute;
- (c) The conditions under which students shall be admitted to the degree or diploma courses and to the examinations of the institute, and shall be eligible for degrees and diplomas;
- (d) The conditions of award of the fellowships, scholarships, exhibitions, medals and prizes;
- (e) The conditions and mode of appointment and duties of examining bodies, examiners and moderators;
- (f) The conduct of examinations;
- (g) The maintenance of discipline among the students of the institute; and
- (h) Any other matter which by the Act or the Statutes is to be or may be provided for by the Ordinances.

The Senate had already formulated “Academic Programme Regulations 2013” and “Regulations for Ph. D. Programme” which provides for (a), (b), (c), (e), (f) above and a “Code of Students Discipline” which provides for (g). To comply with the Act it was proposed to the Senate to convert the “Academic Programmes Regulations 2013” into “Ordinance-I: Ordinance on Academic Programmes” with the following modifications:

Clause No.	Modifications
C.1	<p><b>Curriculum Structure:</b> There shall be a well defined curriculum structure for each of the academic programmes in the Institute which shall have the approval of the Senate. The curriculum structure shall specify the following:</p> <ul style="list-style-type: none"> <li>i. The minimum and maximum allowed period of candidature,</li> <li>ii. The minimum credit requirements of the programme in total, for the core courses, and for the different categories of electives,</li> <li>iii. The lists of the courses under the different categories specifying the credit, contact hour load in terms of L-T-P (Lecture, Tutorial, Practical) breakup and the prerequisite(s) of each course,</li> <li>iv. The maximum credit load allowed per semester for a student,</li> </ul> <p>The semester wise distribution of the courses shall be guided by the perquisite specification of the individual courses. There may be a model semester wise distribution of the courses. However, the courses offered during the semester in any given session shall be decided by the Chairman of the Senate based on the Departmental Advisory Committees (DAC) of the departments.</p>
C.4	Specify Period of Candidature for Ph.D. programme as- “Ph. D (as specified in the Regulations for Ph. D. programme)”
D.1.3	Make the Minimum qualification requirement for admission to B. Tech programme as- “As per MHRD norms”
	Include Minimum qualification requirement for admission to Ph. D. programme as- “As specified in the Regulations for Ph. D. Programme”
D.1.6	Change “Central Counselling Board(CCB)” to “Central Seat Allocation Board(CSAB)”.
E.2	<p>Replace E.2(iii) and E.2(iv) as-</p> <p>“The evaluation shall always have the two components:</p> <ul style="list-style-type: none"> <li>– one end-term examination and</li> <li>– one mid-term examination.</li> </ul> <p>In addition there may be evaluation components such as- unit tests, quizzes, home assignments, term papers, term projects, seminars, attendance etc. with appropriate weights depending on the nature of the course to be specified by the Course Instructor in the evaluation plan. The minimum weight in the end-term examination shall be 40%”.</p>
E.3(b)	Delete specification of the duration of Class Tests.
E.19	Increase the minimum credit to be earned in the first two semester to avoid programme restart to 60% from current 50%.

Further, it was proposed to create the following Ordinances:

**Ordinance-III: Ordinance on Students Council**

The Director constituted a committee of faculty members to formulate the structure of the Students Council and the procedure for its constitution. The Committee has recommended a structure which was placed before the Senate.

As there was need for a Students Council for the various students' activities the Director has provisionally constituted a Students Council based on the recommendation of the Committee.

**Ordinance-IV: Ordinance on Convocation for Conferring Degrees and Diplomas**

A draft Ordinance-IV prepared on Convocation for conferring degrees and diplomas of the Institute was placed before the Senate.

The draft of **Ordinance-II: Ordinance on Code of Students Discipline** proposed to be placed before the Senate was withdrawn as it could not be made ready.

The Senate is requested to consider creation of the three Ordinances above for approval by the Board of Governors.

**R10/SENATE-III/14:** *The Senate resolved to recommend to the Board of Governors the proposed draft Ordinances-*

<i>Ordinance-I: Ordinance on Academic Programmes</i>	<i>(Annexure-IV)</i>	<i>Pg 32</i>
<i>Ordinance-III: Ordinance on Students Council</i>	<i>(Annexure-V)</i>	<i>Pg 46</i>
<i>Ordinance-IV: Ordinance on Convocation for Conferring Degrees and Diplomas</i>	<i>(Annexure-VI)</i>	<i>Pg 49</i>

**Items for Ratification:**

**Item No. 11 Recognition of Ph. D. Supervisors**

The following faculty members had applied for recognition as Ph. D Supervisor:

1. Dr. Ayon Bhattacharjee, Assoc. Professor, Physics
2. Dr. Deba Kumar Sarma, Asst. Professor, Mechanical Engineering
3. Dr. Alok Chakraborty, Asst. Professor, Computer Science and Engineering
4. Dr. Dipankar Das, Asst. Professor, Computer Science and Engineering
5. Dr. Rajarshi Ray, Asst. Professor, Computer Science and Engineering
6. Dr. Saikat Mukherjee, Asst. Professor, Mathematics
7. Dr. Biswajit Kar, Asst. Professor, Electrical and Electronics Engineering

Further, the following faculty members of IIT Guwahati had also applied for recognition as Ph. D. Supervisors of the Institute:

1. Dr. Praveen Tripathi, Asst. Professor, Electronics and Electrical Engineering, IIT Guwahati
2. Dr. Praveen Kumar, Asst. Professor, Electronics and Electrical Engineering, IIT Guwahati

These faculty members satisfy the qualification requirements to be Ph. D supervisors as per the Regulations of the Ph. D programme of the Institute. Their profiles are as tabulated below:

Sl. No.	Name	Designation	Department	Year of Obtaining Ph. D	Ph. D Produced	No. of Peer Reviewed Publications	Remarks
1.	Dr. Ayon Bhattacharjee	Associate Professor	Physics	2002	1	19	
2.	Dr. Deba Kumar Sarma	Assistant Professor	ME	2010	-	6	
3.	Dr. Alok Chakraborty	-do-	CSE	2011	-	19	
4.	Dr. Dipankar Das	-do-	Do	2009	-	10	
5.	Dr. Saikat Mukherjee	-do-	Mathematics	2011	-	3	
6.	Dr. Rajarshi Ray	-do-	CSE	2012	-	9	
7.	Dr. Biswajit Kar	-do-	EEE	2013	-	6	
8.	Dr. Praveen Tripathy	-do-	EEE, IITG	2010	-	10	
9.	Dr. Praveen Kumar	-do-	EEE, IITG	2009	-	31	

The Director has accorded recognition to the above faculty members as Ph. D. Supervisors of the Institute subject to ratification by the Senate.

The Senate was requested to ratify the decision of the Director to recognize the above faculty members as recognized Ph. D. Supervisors of the Institute.

**R11/SENATE-III/14:** *The Senate **ratified** the decision of the Director to recognize the above faculty members as recognized Ph. D. Supervisors of the Institute.*

**Item No. 12: New Elective Courses for 2010 and 2011 Batches:**

The Director approved the following new elective courses for the first two batches of CSE to be offered in the Spring 2014 semester:

1. CS 413 Data Mining 3-0-0: 3
2. CS414 Cloud Computing 4-0-0: 4

The Senate was requested to consider ratification of the decision of the Director.

**R12/SENATE-III/14:** *The Senate **ratified** the decision of the Director to approve the two new elective courses for the first two batches of CSE.(Annexure-VII; pg 53)*

**Item No : 13 Reporting Items:**

**1. Conference of Directors of NITs at Rashtrapati Bhawan**

A conference of the Directors' of the NITs was held at the Rashtrapati Bhawan on 7-8 November, 2013. The conference was presided over by the Hon'ble President himself and the inaugural function was also addressed by the Hon'ble Prime Minister. The conference also had the attendance of the dignitaries including the Minister for HRD Dr. M. M. Pallama Raju, National



Innovation Council Chairman Dr. Sam Pitroda, NIT Review Committee Chairman Dr. Anil Kakodkar, National Skill Development Agency Director General Shri J. P. Rai in addition to the senior MHRD Officials. The prime objective of the conference was to come out with a set of recommendations for actions that can help the NITs to achieve the level of world class institutions. The set of recommendations resulting from the conference were also placed before the Senate.

## 2. Ph. D admissions:

It was reported in the 2<sup>nd</sup> meeting of the Senate that the Institute will be starting Ph. D programme. The first batch of Ph. D students were enrolled in the month of July and the following candidates took admission in the programme:

Department	Scholar	Category	Comments
Computer Science and Engineering	Probidita Roychoudhury	Part time	Faculty, St. Anthony's
	Surmila Thokchom	Part time	Institute Faculty
	Nabajyoti Medhi	Part time	Institute Faculty
	Deepak Kumar	Part time	Institute Faculty
Electronics and Comm. Engineering	Vinay Kumar	Part time	Institute Faculty
Electrical & Electronics Engineering	Shaik Affijulla	Part time	Institute Faculty; Supervisors from IIT Guwahati
	Rakesh Roy	Part time	
	Smitha Joyce Pinto	Full time	
Management Science	Amal Dev Sarma	Part time	Institute Faculty: Supervisors from RGIM, Shillong
Civil Engineering	Sovan Roy	Full time	Discontinued

For admission into the second batch of Ph. D programme of this institute (to be started from January 2014) applications were invited and 81 applications were received in response in the following branches:

- Computer Science & Engineering: 46
- Electrical & Electronics Engineering: 24
- Civil Engineering: 1
- Mechanical Engineering: 12
- Humanities (English): 1
- Physics: 2

The Screening Committee of the respective departments had shortlisted a total of 73 candidates for appearing in the written test. The candidates who qualified in the written test were interviewed by departmental selection committees. Based on the results of the written test and personal interview the following candidates were selected to pursue Ph. D in the session starting from January 2014:

Department	Scholar	Category	Remark
Computer Science and Engineering	Mr. Amit Gurung	Full Time	Admitted
	Mr. Pynbianglut Hadem	Part Time	Admitted
	Ms. Chingakham Neeta Devi	Part Time	Not taken admission

Electrical & Electronics Engineering	Mr. Priyabrat Garanayak	Full Time	Admitted
	Ms. Oinam Suchitra Devi	Full Time	Admitted
Civil Engineering	Mr. M. Donbor Lyngdoh	Part Time	Admitted
Physics	Mr. Marpliephar Lyndem	Part Time	Admitted

### 3. Recruitment of Faculty:

A process recruitment of faculty members for different branches of engineering and science streams were carried out during June-July, 2013. A total of 16(sixteen) faculty members have joined the Institute as detailed below:

Department	Name	Position	Date of Joining	Remarks
Computer Science and Engineering	Dr. Rajarshi Ray	Assistant Professor	03.09.13	
	Mr. Akhilendra Pratap Singh	-do-	03.09.13	
	Mr. Manjish Paul	-do-	08.08.13	
Electrical and Electronics Engineering	Dr. Biswajit Kar	-do-	31.10.13	
	Mr. Mousam Ghosh	-do-	23.08.13	
Electronics and Communication Engineering	Mr. Mridupawan Sonowal	-do-	07.08.13	
	Mr. Abhishek Sarkhel	-do-	23.08.13	
Mechanical Engineering	Dr. Deba Kumar Sarma	-do-	23.08.13	
	Mr. Bikash Kumar Sarkar	-do-	21.08.13	
Civil Engineering	Mr. M. Longshithung Patton	-do-	06.09.13	
	Dr. Meena Khwairakpam	-do-	13.12.13	
Chemistry	Dr. Gitish Kishore Dutta	-do-	08.08.13	
Physics	Dr. Ayon Bhattacharjee	Associate Professor	24.07.13	On deputation from NIT Silchar
	Dr. Arpita Nath	Assistant Professor	03.10.13	
Mathematics	Dr. Saikat Mukherjee	-do-	25.07.13	
	Dr. Manideepa Saha	-do-	22.07.13	

### 4. Trainee Teachers Scheme of MHRD:

The Ministry has approved a new scheme of “Trainee Teachers” for the NITs with a view to overcome the shortage of qualified teachers in engineering and to attract the best young engineering talents to the academia. The scheme provides for recruiting top 15% BE/ B. Tech graduates from CFTIs as *Trainee Teachers* who will be carrying out their M. Tech & Ph. D in an IIT while working in an NIT assisting in the teaching. The scheme details were placed before the Senate. It was also stated that the Institutes proposes to adopt the scheme from the current year.

### 5. Training and Placement:

A report on achievement of Training and Placement Cell was placed before the Senate for information of the Senate and further advice.

## 6. Autumn Semester, 2013 Results:

The Results of the Autumn Semester, 2013 was published on 24<sup>th</sup> December. The declaration of the results had to be postponed by a day due to a Bandh Call on 23<sup>rd</sup> December. A summary of the results was placed before the Senate.

### Number of Students in Different SGPA Ranges:

Semester	First Semester					Third Semester			Fifth Semester			Seventh Semester		
	CSE	ECE	EEE	Civil	Mech	CSE	ECE	EEE	CSE	ECE	EEE	CSE	ECE	EEE
SGPA ≥ 9	1	0	3	0	1	1	1	2	2	2	1	5	5	1
9 > SGPA ≥ 8	4	2	1	7	5	5	5	2	5	3	3	4	9	10
8 > SGPA ≥ 7	6	7	4	8	3	8	5	9	5	9	11	7	11	15
7 > SGPA ≥ 6	6	7	7	8	10	3	7	3	8	8	7	7	5	1
6 > SGPA ≥ 5	6	4	12	5	5	3	5	5	3	4	4	1	-	2
5 > SGPA ≥ 4	0	1	3	1	0	2	2	1	0	1	2	0	0	0
4 > SGPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total-	23	21	32	29	26	22	25	22	23	28	28	24	31	29
No. of Students with Back Papers	6	4	5	5	3	5	5	4	0	2	0	1	0	1

## 7. Workshops Organized by Departments with Industry Collaboration:

The Department of Electronics and Communication Engineering organized a workshop on “Cadence VLSI Design Tools” in collaboration with M/S Cadence Inc and M/S Entuples, Kolkata during 16-18 January, 2014. The workshop attracted participants from institutions around the country including MNIT, Jaipur, NIT Arunachal Pradesh, NIT Manipur etc.

The Department of Computer Science and Engineering organized a workshop on “Virtual Platform and RTOS- 2014” in collaboration with M/S Wind River Inc during 30<sup>th</sup> January to 1<sup>st</sup> February, 2014. The workshop has attracted participants from all over the region.

These workshops are in line with the Institute’s objective of having greater collaboration with the industry in addition to providing exposure to the faculty and the students to the-state-of-the-art tools and techniques.

### R13/SENATE-III/14:

*The Senate Noted the items reported. The Senate expressed-*

- *Immense appreciation of the initiatives taken by the Visitor to help the NITs as well as the other institutions to achieve world class quality.*
- *Happiness to see that a good number of Ph. D. scholars and Faculty members with very good academic records have joined the Institute.*

- *Appreciation of the achievement of the Training & Placement cell of the Institute.*
- *Happiness to see the departments organizing workshops in collaboration with the industry.*

*On the semester results the Senate expressed concern on the numbers of students in the lower SGPA ranges and the number of backlog papers of the students.*

As there was no other item to discuss the meeting concluded with thanks from and to the Chair.