

## **NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA**

### **Minutes of Sixth Meeting of the Senate held on 28.03. 2015**

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The VI<sup>th</sup> meeting of the Senate of NIT Meghalaya was held on 28<sup>th</sup> March, 2015 at 10.30 a.m. in the Conference Room of the Institute at Bijni Complex, Shillong and the following members were present:

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| 1. Professor D. K. Saikia, Director, NIT Meghalaya                        | - Chairman     |
| 2. Professor B. P. Sinha, ACM Unit, ISI Kolkata                           | - Member       |
| 3. Professor R. Sirohi, Former Director, IIT Delhi                        | - Member       |
| 4. Professor S. M. Hazarika, CSE, Tezpur University                       | - Member       |
| 5. Professor P. S. Choudhury, Professor, Civil Engineering, NIT Meghalaya | - Member       |
| 6. Professor I. Sengupta, Visiting Professor, CSE NIT Meghalaya           | - Spl. Invitee |
| 7. Dr. G. Panda, Head, EEE, NIT Meghalaya                                 | - Spl. Invitee |
| 8. Dr. A. Dandapat, Head, ECE, NIT Meghalaya                              | - Spl. Invitee |
| 9. Dr. A. Bhattacharjee, Head, Physics, NIT Meghalaya                     | - Spl. Invitee |
| 10. Dr. R. Ray, Head, CSE, NIT Meghalaya                                  | - Spl. Invitee |
| 11. Dr. D. K. Sarma, Head, ME, NIT Meghalaya                              | - Spl. Invitee |
| 12. Dr. C. Marthong, Head, CE, NIT Meghalaya                              | - Spl. Invitee |
| 13. Dr. P. N. Chatterjee, Head, Chemistry, NIT Meghalaya                  | - Spl. Invitee |
| 14. Dr. S. Mukherjee, Head, Mathematics, NIT Meghalaya                    | - Spl. Invitee |
| 15. Dr. P. S. Mangang, Head, HSS, NIT Meghalaya                           | - Spl. Invitee |
| 16. Mr. D. J. Goswami, Registrar, NIT Meghalaya                           | - Secretary    |

The other members of the committee, Professor D. Chakraborty, Professor S. S. Khare and Professor H. Giri could not attend the meeting due to prior commitments.

At the outset, the Chairman welcomed the members present and the Spl. Invitees to the VI<sup>th</sup> meeting of the Senate and introduced Professor Sengupta and Professor Choudhury to the other members. He then requested the Registrar to take-up the agenda of the meeting.

#### **Item No. 1:**

##### **Confirmation of the minutes of the fifth meeting of the senate held on 31.10.2014.**

The fifth meeting of the senate of the Institute was held on 31.10.2014 in the conference room of institute. The minutes of the meeting were circulated amongst the members of the Committee for their comments/ observations. Comments were received from Professor Shirohi suggesting minor changes in the wordings in the R4.1.5 and R4.1.6. These suggestions have been incorporated in the enclosed minutes.

The Senate was requested to consider confirming the minutes.

**R1/SENATE-VI/15:** *The Senate **Resolved to Confirm** the minutes of the fifth meeting of the senate with the incorporation of the observations by Professor R. S. Shirohi.*

#### **Item No. 2**

##### **Follow up action on the decision of the Fourth Meeting of the Senate**

Actions taken on the decisions of the fifth meeting of the senate held on 31.10.2014 are as below:

Sl. No	Senate Resolution No.	Resolution	Action taken/status
1.	R1/SENATE-V/14	Confirmation of the minutes of the fourth meeting of the Senate of NIT Meghalaya held on 16.06.2014.  <i>The Senate <b>resolved to confirm</b> the minutes of the fourth meeting of the Senate as circulated.</i>	Implemented
2.	R2/SENATE-V/14	Follow up action on the decisions made in the Fourth Meeting of the Senate.  <i>The Senate <b>NOTED</b> the follow-up action as reported.</i>	Noted
3.	R3.1/SENATE-V/14	Approval of Curriculum Structure of M. Tech (ECE/CSE/EEE)  <i>The Senate <b>Resolved to Approve</b> the Curriculum Structure with the incorporation of minor changes.</i>	Notified
	R3.2/SENATE-V/14	Approval of Courses & Syllabi of 500 level (CSE)  <i>The Senate <b>Resolved to Approve</b> the Syllabi of the CSE Courses of 500 level except for CS 512. The Senate <b>Resolved to Authorize</b> the Chairman to approve the <b>Syllabus of CS512</b> after comments from domain experts are obtained and incorporated as applicable.</i>	Chairman, Senate approved syllabus of CS512 after incorporation of comments from domain experts. Approved courses notified
	R3.3/SENATE-V/14	Approval of Courses & Syllabi of 500 level (EEE)  <i>The Senate <b>Resolved to Approve</b> the Syllabi of the CSE Courses of 500 level with few minor changes except for EE 520. It <b>Resolved to Authorize</b> the Chairman to approve the <b>Syllabus of EE520</b> after comments from domain experts are obtained and incorporated as applicable.</i>	Chairman, Senate approved syllabus of EE520 after incorporation of comments from domain experts. Approved courses notified
	R4/SENATE-V/14	Approval of the List of B. Tech Candidates Qualifying for award of Degree.  The First Batch of 83 B. Tech. candidates completed the requirements of the programme in June 2014. Out of these 31 were in Electronics and Communication Engineering, 29 in Electrical and Electronics Engineering and 23 in Computer Science and Engineering. The Senate considered approval of the Lists of the First Batch B. Tech candidates for the award of degrees.  <i>The Senate <b>Resolved to Recommend</b> the list of 1<sup>st</sup> Batch of B. Tech candidates qualifying for award of the degree to the Board of Governors.</i>	Degree awarded to the First Batch of 83 B. Tech. candidates in the First Convocation of the Institute on 1 <sup>st</sup> November, 2014.

5/SENATE-V/14	<p>Nominees for the Institute Gold Medals:</p> <ol style="list-style-type: none"> <li>Ms. Ankita Brahmachari- CSE</li> <li>Mr. Gurinder Singh - ECE</li> <li>Mr. Dileep Kumar Sahu - EEE</li> </ol> <p><i>The Senate <b>Resolved to Recommend</b> the list of candidates to the Board of Governors for the award of the Institute Gold Medals.</i></p>	<p>Institute Gold Medals awarded to the three candidates in the First Convocation of the Institute on 1<sup>st</sup> November, 2014.</p>
R6/SENATE-V/14	<p>Nominee for the President's Gold Medal:</p> <p><i>The Senate <b>Resolved to Recommend</b> the name of Ms. Ankita Brahmachari to the Board of Governors for award of the President's Gold Medal in the B. Tech programme for the year 2014.</i></p> <p><i>The Senate also recommended that the nominations to the selection committee for the President's Gold Medal should come from the Departments.</i></p>	<p>President's Gold Medal awarded to Ms. Ankita Brahmachari in the First Convocation of the Institute on 1<sup>st</sup> November, 2014.</p>
R7/SENATE-V/14	<p>Ratification of decision of the Director of approve two 700 level courses:</p> <ol style="list-style-type: none"> <li>CS 707 Selected Topics in Wireless Sensor Networks (3-0-0 : 3)</li> <li>EE 709 BIO-MEMS (3-0-0 : 3)</li> </ol> <p><i>The Senate <b>Resolved to Ratify</b> the decision of the Director with minor changes in the Syllabus of <b>EE709</b>.</i></p>	<p>Notified</p>

**R2/SENATE-VI/15:** *The senate **Noted** the follow up action on the resolutions of the 5<sup>th</sup> meeting of the senate.*

**Item No. 3: Changing the name of the department of Electrical and Electronics Engineering to Electrical Engineering**

The Institute currently has two departments in the areas of Electrical and Electronics- the Departments of Electrical and Electronics Engineering (EEE) and Electronics and Communication Engineering (ECE). The EEE department focuses on Power and Energy Systems and on Instrumentation and Controls. The ECE department on the other hand focuses on Electronics and Telecommunication Engineering. Each of the departments provides support to the other departments in their respective areas of focus so as to avoid duplication of infrastructures and manpower to the extent possible. It is desirable that there is minimal overlap in the departments too. Accordingly it is proposed that the name of the department of Electrical and Electronics Engineering is changed to Electrical Engineering. The Departmental Advisory Committee (DAC) of the department has also sent a recommendation to that effect.

The members of the senate deliberated on the pros and cons of the proposal and decided to approve the same.

**R3/SENATE-VI/15:** *The senate **Resolved to Recommend** to the Board of Governors for **Approval** of the proposal of renaming the department of Electrical and Electronics Engineering as Electrical Engineering.*

**Item No. 4: Amendments to the Ordinance-I.**

There are several cases of students in the B. Tech programme whose performance has been found to be very poor. These weak students tend to have backlog of courses. It is required to put a limit on the number of chances given to a student to clear a backlog course. It is also necessary to keep the number of backlog of courses for a student within manageable limits. Therefore it is necessary to introduce a couple of changes in the Academic Ordinance (Ordinance-I). Accordingly, it is proposed to introduce the paras highlighted below, in the Clause-18 & Clause-19 of the Ordinance.

- 18. Clearing of Probation:** A student on probation will get a chance to improve his/ her grade(s) in courses with *FF* or *DD* grade by appearing in a supplementary examination to be held within the first month of the following semester or by registering for the course in a summer term. If the student is unable to improve the grade(s) he/ she may register for the course(s) as a remedial course in the following semester if the Academic Probation Committee so advises. In such cases the norms for contact hours may be relaxed. However, normal continuous evaluation will be done for that course during that semester.

***A student shall be allowed at most four chances to obtain a pass grade in a course within the maximum allowable number of semesters. This will include the supplementary and re-registrations of the course.***

- 19. a. Programme Restart:** If a student is unable to earn at least 60% of the credits stipulated for the first two semesters of the programme he/ she will have to restart the programme at the first semester. In such a case the student shall be given the credits for courses already cleared with grades higher than *DD*. Restart shall be permitted to a student only once.

***b. Clearing Excess Backlog: If a student has backlog courses of 18 credits or more he/ she will not be allowed to register for any new courses until he/ she reduces the backlog. However, if the backlog includes any elective course he/ she may register for an alternative elective course.***

The Senate is requested to consider approving the above amendments in Ordinance-I.

After threadbare discussions the senate decided to recommend the proposed amendment in the Ordinance-I.

**R4/SENATE-VI/15:** *The senate Resolved to Approve incorporation of the two proposed provisions in the clauses 18 & 19 of Ordinance-I, for putting a limit on the number of chances given to a student to clear a backlog course and to keep the number of backlog of courses for a student within manageable limits.*

**Item No. 5: Recommendations of 3<sup>rd</sup> Meeting of the Academic Programmes Committee**

The third meeting of the Academic Programmes Committee (APC) was held on 12<sup>th</sup> March, 2015. The recommendations of the APC were circulated along with agenda items. The senate deliberated on each of the recommendations and resolved as tabulated below:

<b>Sl. No.</b>	<b>Item</b>	<b>Brief Details</b>	<b>APC Recommendation</b>	<b>Senate Resolution</b>
1.	<b>Starting of M. Tech programme in Mechanical</b>	The DACs of the departments of Mechanical Engineering and Civil Engineering have recommended	<b><u>R3/APC-III/15:</u></b> The APC resolved to recommend the starting	<b><u>R5.1/SENATE-VI/15:</u></b> <i>The Senate Resolved to Recommend Approval</i>

	<b>Engineering and Civil Engineering</b>	<p>starting of M. Tech programmes in <i>Fluids and Thermal Engineering</i> and <i>Water Resource Engineering</i> respectively considering the need and to enhance the academic and research activities.</p> <p>The APC discussed the pros and cons including the need for additional manpower, readiness of the laboratory facilities and the admission process through CCMT based on GATE score.</p>	<p>of the M. Tech programmes in <i>Fluids and Thermal Engineering</i> and <i>Water Resource Engineering</i> with intake of 15 each from the forthcoming session.</p>	<p>to the Board of Governors for <b>starting of M. Tech programme in Fluids and Thermal Engineering and Water Resource Engineering</b> from 2015 with annual intake capacity of 15 each.</p>
2.	<b>Curriculum and Syllabi of M. Tech (Fluids and Thermal Engineering)</b>	<p>The DAC of the department of Mechanical Engineering submitted the curriculum and syllabi of courses for the M. Tech programme in Fluids and Thermal Engineering after due consultation with domain experts for consideration of the APC.</p> <p>The APC discussed the curriculum and syllabi of the courses submitted by the department of Mechanical Engineering. The structures submitted by the departments were found to be in order.</p>	<p><b>R4/APC-III/15:</b></p> <p>The APC resolved to recommend the Curriculum and the Syllabi of the Courses for the M. Tech programme in Fluids and Thermal Engineering for approval by the Senate.</p>	<p><b>R5.2/SENATE-VI/15:</b></p> <p>The Senate <b>Resolved to Approve the Syllabi of courses</b> after minor changes and <b>Authorize</b> the Chairman of the Senate to approve the Curriculum Structure after comments from domain experts are obtained and incorporated as applicable.</p>
3.	<b>Curriculum and Syllabi of M. Tech. (Water Resource Engineering)</b>	<p>The DAC of the department of Civil Engineering submitted the curriculum and syllabi of courses for the M. Tech programme in Water Resource Engineering for consideration of the APC.</p> <p>The APC discussed the curriculum and syllabi of the courses submitted by the department of Civil Engineering. The structures submitted by the departments were found to be in order. It was also noted that expert comments had not been received.</p>	<p><b>R5/APC-III/15:</b></p> <p>The APC resolved to provisionally recommend the Curriculum and the Syllabi of the Courses for the M. Tech programme in Civil Engineering for approval by the Senate subject to incorporation of the expert comments.</p>	<p><b>R5.3/SENATE-VI/15:</b></p> <p>The Senate <b>Resolved to Approve the Curriculum Structure</b> and to <b>Authorize</b> the Chairman of the Senate to approve the Syllabi after comments from domain experts are obtained and incorporated as applicable.</p>
4.	<b>Starting of M. Sc. Programme in Physics, Chemistry and</b>	<p>The DACs of the departments of Physics, Chemistry and Mathematics have recommended starting of M. Sc. programmes in <i>Physics, Chemistry</i> and</p>	<p><b>R6/APC-III/15:</b></p> <p>The APC resolved to recommend starting of the M. Sc. programmes</p>	<p><b>R5.4/SENATE-VI/15:</b></p> <p>The Senate <b>Resolved to Recommend Approval</b> for the <b>starting of M. Sc.</b></p>

	<b>Mathematics</b>	<p><i>Mathematics</i> respectively considering the need and to enhance the academic and research activities.</p> <p>The APC discussed the pros and cons including the need for additional manpower, readiness of the laboratory facilities, the admission eligibility and the process of admissions by conducting an entrance test by the Institute. However, as an initiative has been taken for admission to M. Sc. programmes in NITs through a common counselling (CCMN) coordinated by NIT Rourkela, it was decided to admit 50% of the seats through CCMN this year.</p>	<p>in <i>Physics, Chemistry</i> and <i>Mathematics</i> with intake of 16 each from the forthcoming session.</p>	<p><i>Programme in Physics, Chemistry and Mathematics</i> from 2015.</p> <p>The Senate also <b>Resolved to Recommend the Fees Structure for M. Sc.</b> programme to be kept same as that for the <i>Ph. D.</i> programme.</p>
5.	<b>General Curriculum Structure for M. Sc. programme</b>	<p>The proposed general curriculum structure for the M. Sc. programme of the Institute was placed by the Assoc. Dean (Acad) before the APC. <b>(Annex-I-C)</b></p> <p>The APC discussed the proposed curriculum structure for the M. Sc. programme. The structure was accepted by the APC and recommended for the approval of Senate.</p>	<p><b><u>R7/APC-III/15:</u></b></p> <p>The APC resolved to recommend the curriculum Structure for the M. Sc. programme.</p>	<p><b><u>R5.5/SENATE-VI/15:</u></b></p> <p>The Senate <b>Resolved to Approve the General Curriculum Structure for M. Sc. Programme as proposed.</b></p>
6.	<b>Curriculum and Syllabi of M. Sc. programme in Mathematics</b>	<p>The DAC of the department of Mathematics submitted the curriculum and syllabi of courses for the M. Sc. programme in Mathematics after due consultation with domain experts <b>(Annex-I-D)</b> for consideration of the APC.</p> <p>The APC discussed the curriculum and syllabi of the courses submitted by the department of Mathematics. The structures submitted by the departments were found to be in order.</p>	<p><b><u>R8/APC-III/15:</u></b></p> <p>The APC resolved to recommend the Curriculum and Syllabi of the Courses for the M. Sc. programme in Mathematics for approval by the Senate.</p>	<p><b><u>R5.6/SENATE-VI/15:</u></b></p> <p>The Senate <b>Resolved to Approve the Curriculum and Syllabi of the courses for the M. Sc. programme in Mathematics</b></p>

7.	<b>Curriculum and Syllabi of M. Sc. programme in Physics</b>	<p>The DAC of the department of Physics submitted the curriculum and syllabi of courses for the M. Sc. programme in Physics (<b>Reference: Annex-I-E</b>) for consideration of the APC.</p> <p>The APC discussed the curriculum and syllabi of the courses submitted by the department of Physics. The structures submitted by the departments were found in order. It is also noted that expert comments have not been received yet.</p>	<p><b>R9/APC-III/15:</b></p> <p>The APC resolved to provisionally recommend the Curriculum and the Syllabi of the Courses for the M. Sc. programme in Physics for approval by the Senate subject to incorporation of the expert comments.</p>	<p><b>R5.7/SENATE-VI/15:</b></p> <p><i>The Senate <b>Resolved to Approve the Curriculum and the syllabi of the courses for the M. Sc. programme in Physics after incorporation of minor changes.</b></i></p>
8.	<b>Curriculum and Syllabi of M. Sc. programme in Chemistry</b>	<p>The DAC of the department of Mathematics submitted the curriculum and syllabi of courses for the M. Sc. programme in Chemistry after due consultation with domain experts (<b>Reference: Annex-I-F</b>) for consideration of the APC.</p> <p>The APC discussed the curriculum and syllabi of the courses submitted by the department of Chemistry. The structures submitted by the departments were found in order.</p>	<p><b>R10/APC-III/15:</b></p> <p>The APC resolved to recommend the Curriculum and the Syllabi of the Courses (for which expert's comments are received) for the M. Sc. programme in Chemistry for approval by the Senate. It was resolved to provisionally recommend the syllabi of the courses CH403, CH404, CH407, CH408, subject to incorporation of expert observations.</p>	<p><b>R5.8/SENATE-VI/15:</b></p> <p><i>The Senate <b>Resolved to Approve the Curriculum of the M. Sc. programme in Chemistry and to Authorize the Chairman of the Senate to approve the Syllabi after comments from domain experts are obtained and incorporated as applicable.</b></i></p>
9.	<b>Courses and Syllabi of 200, 300, 400 &amp; 500 levels for CSE and 400 levels for ECE &amp; EEE.</b>	<p>The DACs of the Department of Computer Science and Engineering, Electronics &amp; Communication Engineering, Electrical &amp; Electronics Engineering have recommended Courses of 400 level along with the Syllabi (<b>Reference: Annex-I-G</b>) for consideration of the APC.</p> <p>The APC discussed the syllabi of the courses submitted by the departments. The structures submitted by the departments were found to be in order. It was also noted that expert comments had not</p>	<p><b>R11/APC-III/15:</b></p> <p>The APC resolved to recommend the Syllabi of the Courses for the B. Tech and M. Tech programme in CSE, ECE and provisionally recommend the EEE courses for approval by the Senate subject to incorporation of the expert comments.</p>	<p><b>R5.9/SENATE-VI/15:</b></p> <p><i>The Senate <b>Resolved to Approve the Syllabi of the courses of CSE &amp; ECE and Authorize the Chairman of the Senate to approve the Syllabi of EEE after comments from domain experts are obtained and incorporated as applicable.</b></i></p>

		been received for EEE courses.		
10.	<b>Courses and Syllabi of 300 levels of Civil Engineering and Mechanical Engineering.</b>	<p>The DACs of the Department of Civil Engineering, Mechanical Engineering have recommended Courses of 300 level along with the Syllabi <b>(Reference: Annex-I-H)</b> for consideration of the APC.</p> <p>The APC discussed the syllabi of the courses submitted by the departments. The structures submitted by the departments were found to be in order.</p> <p>It was also noted that experts' comments had not received for the courses (A) CE303, CE304, CE306, CE307 (B) ME301, ME302, ME303, ME304, ME305, ME311, ME321, ME322, ME325, ME326, ME327, ME328.</p>	<p><b>R12/APC-III/15:</b></p> <p>The APC resolved to recommend the Curriculum and the Syllabi of the Courses (for which expert's comments are received) for the B.Tech programme in Civil Engg. And Mechanical Engg for approval by the Senate.</p> <p>It was resolved to provisionally recommend the syllabi of the courses for which experts' comments not received, subject to incorporation of expert observations</p>	<p><b>R5.10/SENATE-VI/15:</b></p> <p><i>The Senate <b>Resolved to Authorize</b> the Chairman of the Senate to approve the 300 level Courses and the Syllabi of Civil Engineering and Mechanical Engineering after comments from domain experts are obtained and incorporated as applicable.</i></p>
11.	<b>Syllabi of Courses of 700 level for Ph.D. Programme.</b>	<p>The set of new courses listed below have been proposed for the Ph. D. programme in Mathematics, ECE, ME. The detailed courses are in <b>Annex-I-I.</b></p> <p>The APC discussed the syllabi of the 700 level courses submitted by the departments. The structures submitted by the departments were found to be in order.</p>	<p><b>R13/APC-III/15:</b></p> <p>The APC resolved to recommend the Syllabi of the 700 Courses for the Ph. D programme for approval by the Senate.</p>	<p><b>R5.11/SENATE-VI/15:</b></p> <p><i>The Senate <b>Resolved to Approve</b> the Syllabi of Courses of 700 level for Ph.D. Programme.</i></p>

**Item No. 6: Minutes of the Second Meeting of the Research Committee**

The second meeting of the Research Committee (RC) of the Institute was held on 2<sup>nd</sup> March, 2015. The minutes of the meeting were circulated along with the agenda items of the senate. The Senate was requested to consider the minutes and make its observations.

The senate discussed the resolutions of the RC and resolved as tabulated below.

Sl. No.	Item	Brief Details	RC Resolution	Senate Resolution
1.	<b>Item No. 1</b> Confirmation of Minutes of 1 <sup>st</sup> meeting of the RC of NIT	Confirmation of Minutes of the First Meeting of the Research Committee of NIT Meghalaya held on 15.03.2014.	<b>R1/RC-II/15:</b> <i>The Research Committee <b>Resolved to Confirm</b> the minutes of the First Meeting of the Research Committee as circulated.</i>	-

	Meghalaya held on 15.03.2014.			
2.	<b>Item No. 2</b> Follow up action on the decision of the First Meeting of the Research Committee	Actions taken on the decisions of the first meeting of the Research Committee held on 15.03.2014 were placed before the RC.	<p><b>R2/RC-II/15:</b> <i>The Research Committee Noted the actions taken on the resolutions taken in the 1<sup>st</sup> meeting of the committee and and opined the following:</i></p> <p>i. <i>A component of Technical Report Writing be added to the mandatory course of Research Methodology and increase its credit to 4.</i></p> <p>ii. <i>The minimum credit requirement should be increased to 9 for candidates with M. Sc. &amp; M. Tech and to 18 for those with B. Tech and equivalent.</i></p> <p>iii. <i>The plagiarism detection software iThenticate may be used and the maximum allowed similarity index may be set as 25%.</i></p> <p>iv. <i>In the Sponsored Research Projects, in the overhead the PI &amp; Co-PI share should be equal.</i></p>	<p><b>R6.1/Senate-VI/2015:</b> The Senate Resolved to Approve the following amendments in the Regulations for the PhD programme:</p> <p>i. <i>The minimum course credit requirement shall be 9 for a candidate with PG degree and 18 for those with B. Tech and equivalent.</i></p> <p>ii. <i>The shall be required to submit a report produced by the software Turnitin or iThenticate certifying the similarity index is below 25% at the time of submission the thesis. In case the index lies between 25% and 35% the Doctoral Committee will take a decision on the acceptability of the thesis based on the nature/ context of similarity.</i></p> <p><b>R6.1/Senate-VI/2015:</b> <i>The Senate Resolved to Approve inclusion of a unit of Technical Writing in the syllabus of the courses AD701 and</i></p>

				AD 702 and increase the credit to 4 in these.
3.	<u>Item No. 3</u> Addition of Members to the DRCs:	Some of the departments now have new members qualified to be PhD supervisors. It was therefore proposed to strengthen the DRCs of these departments with the addition of new members	<u>R3/RC-II/15:</u> The Research Committee RESOLVED to APPROVE addition of new members to the DRCs of the departments as proposed.	<b>Noted</b>
	<u>Item 4:</u> Research Plans and Registration of Ph. D. Scholars:	The DRCs of the respective departments forwarded the Research Plans of eleven Ph. D. Scholars who have completed their Course Work requirements, Comprehensive Examination and successfully presented their Research Plans for consideration of approval of their PhD registration by the RC.	<u>R4/RC-II/15:</u> The Research Committee RESOLVED to APPROVE PhD Registration of the eleven candidates as proposed with a note that the Research Plan of the may be made available online.	<b>Noted</b>
	<u>Item No. 5:</u> Approval of PhD Supervisors:	The Research Committee was requested to consider approval of the following faculty members as PhD supervisors of the Institute. The CVs of the faculty members were placed before the Committee.	<u>R5/RC-II/15:</u> The Research Committee RESOLVED to APPROVE Recognition of the fifteen listed faculty members as PhD supervisors of the Institute.	<b>Noted</b>
	<u>Item No. 6</u> Report on the Research Activities of the Institute:	<b>a. Faculty Position:</b> The Institute currently has 52 (fifty two) faculty members. Of them 32 (thirty two) are with Ph. D. degrees. The remaining 20 are at various stages of their PhD works. The profiles were presented.	<u>R6a/RC-II/15:</u> The RC expressed its happiness to note the sizable number of well qualified faculty in the departments.	<b>Noted</b>
		<b>b. PhD Admissions:</b> The lists of 3 <sup>rd</sup> and 4 <sup>th</sup> batches of PhD scholars were enrolled in July, 2014 and January, 2015 were presented. Further, the RC was informed that 2 PhD scholars of Dr. A. Bhattacharjee, Physics took transfer from NIT Scichar with the approval of the Senate. The RC was requested to consider approval of transfer 2 scholars of Prof. P. S. Choudhury, Civil Engg. from NIT Silchar.	<u>R6b/RC-II/15:</u> The RC <b>noted</b> the admissions made to the PhD programme during the year and <b>resolved</b> to <b>approve</b> the transfer of the two candidates Mr. Shyama Debbarma and Ms.Sangita Deb Barma from NIT Silchar along with their PhD registration. Further, the RC advised that the syllabus	<b>Noted</b>

			for written test to shortlist PhD applicants should include <b>two mandatory sections</b> in <b>General Aptitude</b> and <b>Mathematics</b> besides <b>mandatory/ optional sections</b> related to the <b>subject areas</b> and the syllabus should be notified to the applicants beforehand.	
		<b>c. Sponsored Projects:</b> The RC was informed of seven sponsored research projects in the Institute in operation.	<b>R6c/RC-II/15:</b> The RC expressed its happiness for being able to obtain the sponsored research projects.	<b>Noted</b>
		<b>d. Consultancy Projects:</b> The RC was informed of consultancy projects completed/ in operation in the Institute.	<b>R6d/RC-II/15:</b> The RC <b>noted</b> the consultancy projects being carried out by the Civil Engineering Department.	<b>Noted</b>
		<b>e. Conferences/ Workshops Organized:</b> i. The Department of Electronics and Communication Engineering and the Department of Computer Science and Engineering organized an IEEE sponsored International Conference on Electronic Design, Computer Networks and Automated Verification (EDCAV-2015) during January 29-30, 2015. In addition to contributed papers a good number of Keynote Addresses and Invited Speeches were also delivered by well known experts in the conference. ii. The Dept. of Electrical and Electronics Engg. organized a National Workshop on “Power and Energy Systems” during 24-26 April, 2014 in with support from NEEPCO, PGCIL, IE. ii. The Dept. of Electronics and Communication Engg. organized a workshop on “Electronic	<b>R6e/RC-II/15:</b> The RC <b>noted</b> with happiness the good number of workshops, conferences being organized by the departments.	<b>Noted</b>

		<p>Design Automation and Digital System Realization using FPGA” during 9<sup>th</sup> June to 4<sup>th</sup> July, 2014.</p> <p>iv. The Dept. of Computer Science and Engg. organized a workshop on “IPv6 Technologies” in collaboration with DoT, Gol, on 13<sup>th</sup> September, 2014.</p> <p>v. The Dept. of HSS organized a National Workshop on “Teaching /Learning Language” during 18-19 July, 2014.</p>		
		<p><b>f. Forthcoming Conferences/ Workshops in the Institute:</b></p> <p>i. An IEEE sponsored Int’l Conf. on Energy, Power and Environment (Towards Sustainable Growth), <b>ICEPE 2015</b>, is being organized by the Dept. of Electrical and Electronics Engineering during 12-13 June, 2015.</p> <p>ii. A DST sponsored workshop on Research Challenges in Reversible and Quantum Computing is being organized by the Dept. of Comp. Sc. and Engg. during 19-20 March, 2015.</p> <p>iii. An Industry sponsored workshop on "Computational Modeling and Analysis using ANSYS and Creo (CoMAAC)" is being organized by the Dept. of Mechanical Engg. during 3-7 June, 2015 in collaboration with ANSYS and CREO.</p>		

**Item No. 7 Summer Term Course Fee**

The Summer Term was introduced from the year 2013-14 to enable the students under Academic Probation to clear their backlog courses so that they have reduced pressure during the two regular semesters. Each student was being charged a tuition fee of Rs. 5000/- per course registered in the summer term and the amount collected was being used to compensate the instructors for their extra service. The SC/ST students were waived from paying this fee. It is however observed that the students not paying this fee do not take the courses seriously. Some of them even drop off half way through the term. The efforts of the teacher go waste. It is therefore proposed to charge all the students with a *Summer Term Course Fee* of Rs. 3000/- per course. The Senate is requested to consider approving the proposal.

The senate discussed the proposal and decided to recommend to the Board of Governors for approval that the Summer Term Course Fee for the Non-SC/ST students be kept at Rs. 5000/- per course and that for SC/ST be fixed as Rs. 3000/- per course.

**R7/Senate-VI/2015:** The senate **Resolved to Recommend** to the Board of Governors for fixing of Summer Term Course Fee as Rs. 3000/- and Rs. 5000/- per course for SC/ST and non-SC/ST students respectively.

**Item No. 8 Academic Calendar for Session 2015-16**

A draft Academic Calendar for the Academic Year 2015-16 as below was circulated among the members of the senate for its approval.

**ACADEMIC CALENDAR FOR THE ACADEMIC YEAR 2015-2016**

**AUTUMN SEMESTER (August-December, 2015)**

1	Registration	July 29, 2015
2	Commencement of Classes	July 30, 2015
3	Supplementary Examinations	July 30-31, 2015
4	Declaration of Summer Term & Supplementary Results	August 04, 2015
5	Last date of registration with fine	August 04, 2015
6	Last date for Change in Course Registration	August 31, 2015
7	Mid Term Examinations	September 25-October 01, 2015
8	Annual Technical Festival (Cognitia)	October 16-17, 2015
9	Last day of Classes	November 27, 2015
10	Laboratory Examinations	December 01-04, 2015
11	End Term Examinations	December 07-12, 2015
12	Pre-registration Counselling	December 12, 2015
13	Display of Grades	December 14-17, 2015
14	Declaration of Results	December 21, 2015
15	Winter Break	December 15, 2015 – January 14, 2016

**SPRING SEMESTER (January-May, 2016)**

1	Registration	January 15, 2016
2	Supplementary Examinations	January 15-16, 2016
3	Commencement of Classes	January 18, 2016
4	Last date of Registration with Fine	January 21, 2016
5	Institute Cultural Festival (Sishir)	February 05-06, 2016
6	Last date for change in Course Registration	February 16, 2016
7	Mid Term Examinations	March 14-19, 2016
8	Last day of Classes	May 13, 2016
9	Laboratory Examinations	May 16-19, 2016
10	End Term Examinations	May 23-28, 2016
11	Preregistration Counselling	May 28, 2016
12	Display of Grades	June 02-04, 2016
13	Declaration of Results	June 10, 2016
14	Summer Break	June 01- July 31, 2016

**SUMMER TERM (June-July, 2016)**

1	Registration	May 16-17, 2016
2	Commencement of Classes	June 01, 2016

3	Mid Term Examinations	June 29-30, 2016
4	End Term Examinations	July 27-28, 2016
5	Display of Grades	August 01, 2016
6	Declaration of Results	August 04, 2016

The Assoc. Dean(Acad) explained the proposed calendar to the Senate. The Senate found the calendar in order.

**R8/Senate-VI/2015:** The senate **Resolved to Approve** the proposed Academic Calendar for the year 2015-16.

### **Items for Ratification:**

#### **Item No. 9 Fees structure of B. Tech, M. Tech & Ph. D Programme.**

A Minor change of making the admission fee same as the semester enrolment fee in the fees structure of B. Tech, M. Tech and Ph. D programme approved by the Director was placed before the senate for ratification.

**R9/Senate-VI/15:** The senate **Resolved to Recommend** the revised fees structures to the Board of Governors for approval.

#### **Item No. 10: Three 700 level courses and one 500 level course:**

Due to urgency of need the director approved the following 500 & 700 level courses subject to ratification by the Senate:

1. PH 702 Liquid Crystals (3-0-0 : 3)
2. PH 703 Physics of Thin Films (3-0-0 : 3)
3. CE 703 Solid and Hazardous Waste Management (3-0-0: 3)
4. EC 528 Cad for VLSI Design (3-0-2: 4)

**R10/Senate-VI/15:** *The Senate **Resolved to Approve** the syllabi of the four courses.*

#### **Item No. 11: Changes in M. Tech course codes:**

The course codes assigned to the Project and Seminar courses of the M. Tech programme in Electrical Engineering were not as per the adopted norms. Therefore the director approved the following changes in course code subject to ratification by the Senate.

Category	Old Code	Course Title	Corrected Code
Seminar & Term paper	EE S01	Seminar-I	EE505
	EE S02	Seminar-II	EE602
	EE 0TP	Term Paper	EE601
Project Works	EE P01	Minor Project	EE506
	EE P02	Project-I	EE603
	EE P03	Project-II	EE604

**R11/Senate-VI/2015:** *The Senate **Resolved to Ratify** the changes in the Course Codes approved by the director.*

## Reporting Items:

### Item No. 12: Autumn Semester, 2014 Results:

The Results of the Autumn Semester, 2014 was published on 23<sup>rd</sup> December. Result was published after the approval of the Director. A summary of the results is as tabulated below:

Dept.	CSE					ECE					EEE					CE		ME	
	B Tech				M Tech	B Tech				M Tech	B Tech				M Tech	B Tech		B Tech	
SGPA	1st	3rd	5th	7th	1st	1st	3rd	5th	7th	1st	1st	3rd	5th	7th	1st	1st	3rd	1st	3rd
>9	1	2	1	5	3	2	0	0	3	1	1	1	0	2	3	1	1	1	5
8–9	5	2	8	11	7	3	7	6	9	6	4	7	4	8	3	2	4	2	4
7–8	9	2	3	5	3	5	4	7	8	8	9	7	7	7	5	5	8	8	1
6–7	6	4	5	2	1	6	6	5	4	3	6	2	6	7	0	9	8	8	8
5–6	6	5	2	0	2	9	4	4	4	0	6	4	5	4	2	5	5	6	6
<5	1	7	3	0	0	2	2	4	0	0	1	9	0	0	0	3	1	1	2
Backlog	7	9	1	0	1	3	2	2	1	0	3	6	2	1	0	4	4	4	6

Ph. D.				
Sl. No.	Roll Nos	Name	SGPA	CGPA
1	P14CS001	Mr. Pynbianglut Hadem	9.00	8.79
2	P14CE001	Mr. M. Donbor Lyngdoh	9.00	9.00
3	P14CE002	Mr. Kevinguto Khate	9.33	9.40
4	P14CE003	Ms. Jayeeta Hazarika	8.50	8.50
5	P14CH001	Mr. Micky Lanster Sawkmie	8.50	8.50
6	P14CS002	Mr. Manjish Pal	9.00	9.00
7	P14EC001	Mr. Sandeep Mishra	8.50	8.50
8	P14HS001	Ms. Brahmacharimayum Samita Devi	9.00	9.00

**R12/Senate-VI/2015:** The Senate **Noted** the reported results. However the senate expressed concern at the poor performance of the 3<sup>rd</sup> semester B. Tech, particularly of CSE and EEE disciplines.

### Item No. 13: Academic Audit:

As per NIT Council Resolution the Institute is required to get an Academic Audit of the Institute done by May, 2015. Accordingly an academic audit of the Institute is planned to be carried out on 8-9<sup>th</sup> May by a Committee Constituted by the Board of Governors with members from academia and the industry.

**R13/Senate-VI/2015:** The Senate **Welcomed** the initiative of carrying out an Academic Audit by an eminent panel of experts.

**Item No. 14: Training and Placement:**

A report on the Placement Status of the 1<sup>st</sup> two batches of B. Techs of the institute was placed in for information of the Senate.

**Placement Record**

2014 Summary of Placements				
Branch	Batch Strength	Placed Students	Placement Percentage	Placement Percentage for Qualified Students
CSE	23	15	65%	88%
ECE	31	21	68%	81%
EEE	29	19	66%	100%
<b>Total</b>	<b>83</b>	<b>55</b>	<b>66%</b>	<b>89%</b>
Indian Navy, Power Grid, IBM, TCS, Polaris, Tech Mahindra, Infosys, MeEcl, L&T, Zaloni etc.				
2015 Summary of Placements				
Branch	Batch Strength	Placed Students	Placement Percentage	Placement Percentage for Qualified Students
CSE	23	15	65%	100%
ECE	28	18	64%	95%
EEE	28	14	50%	67%
<b>Total</b>	<b>79</b>	<b>47</b>	<b>59.5%</b>	<b>85%</b>
Nucleus Software, IBM, Nokia, Polaris, Tech Mahindra, Infosys, L&T, Polaris, Ericson, Wipro, Vodafone, HP etc.				

**R14/Senate-VI/2015:** The Senate **Noted** the achievement of the Training and Placement Cell of the institute.

**Item No 15: Any Other Item:**

**a. Amendments in Ordinance-V: Ordinance on Award of Medals:**

As per resolution **R6/Senate-V/2014** “The Senate also recommended that the nominations to the selection committee for the President’s Gold Medal should come from the Departments” the Ordinance-V requires amendment in the clause for the Selection Procedure for President’s Gold Medal as follows:

**Selection Procedure for President’s Gold Medal:**

A selection committee chaired by the Dean of Students Affairs, with three other faculty members nominated by the Director shall recommend the awardees to the Board of Governors as per the following procedure:

- i. The candidate selected shall be the one with the highest score  $S$ , computed as-

$$S = 5 \times CGPA + 1.5 \times GS + 1.5 \times CA + EA + OA$$

where,  $CGPA$  is the Cumulative Grade Point Average representing academic excellence.

$GS$  is the score on Games & Sports activities computed as per the guidelines below for a maximum of 10.

$CA$  is the score on Cultural Activities computed as per the guidelines below for a maximum of 10.

$EA$  is the score on Extracurricular Activities such as oration, NCC, NSS etc. computed as per the guidelines below for a maximum of 10.

$OA$  is the score on Organizational Activities computed as per the guidelines below for a maximum of 10.

- ii. Each of the departments shall nominate the eligible outgoing students for each of its programmes along with necessary information and relevant support documents/ certificates to the Selection Committee.

- iii. The Committee may verify the nominations and make the final recommendations.

**R15/Senate-VI/2015:** The senate **Resolved to Recommend** the above amendments in Ordinance-V to the Board of Governors.

**b. Senate Nominees to the Board of Governors:**

The term of the current senate nominees to the Board of Governors- Professor P. K. Bora, IIT Guwahati and Dr. A. Datta, Asst. Professor, EEE, have come to an end. The senate was therefore requested to nominate to new members to the Board.

The senate members discussed the matter. As the institute is still at a nascent stage it continues to require the guidance from senior academicians from premier institutions. The senate therefore decided to request Professor P. K. Bora of IIT Guwahati continue as one of its nominees in the Board for another term. For the other position the senate decided to nominate Professor P. S. Choudhury of Civil Engineering.

**R16/Senate-VI/2015:** The senate **Resolved to Recommend-**

1. Professor P. K. Bora, Electronics and Electrical Engineering, IIT Guwahati
2. Professor P. S. Choudhury, Civil Engineering, NIT Meghalaya

to be members of the Board of Governors as its nominees.

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

### Annex-I

#### M. Sc. Fees Structure (Proposed)

Sl. No.	Particulars	Periodicity	Amount (Rs.)
<b>Institute Fees:</b>			
1.	Identity Card Fee	One Time	150/-
2.	Provisional Certificate Fee	One Time	100/-
3.	Students Welfare Fund	One Time	250/-
<b>Sub_Total of 1 to 3:</b>			<b>500/-</b>
4.	Tuition Fee (for non-SC/ST students only)	Per Semester	7,500/-
5.	Examination Fee & Grade Card	Per Semester	600/-
6.	Admission/Enrolment Fees	Per Semester	600/-
7.	Library Fees	Per Semester	300/-
8.	Laboratory and Internet Fees	Per Semester	2000/-
<b>Sub_Total of 4 to 8:</b>			<b>11,000/-</b>
<b>Caution Deposits: (Refundable)</b>			
9.	Institute	One Time	2000/-
10.	Hostel (for Hostellers Only)	One Time	1000/-
<b>Sub_Total of Caution Deposits</b>			<b>3000/-</b>
<b>Hostel Dues: (For Hostellers Only)</b>			
11.	Admission Fee	One Time	500/-
12.	Hostel Seat Rent	Per Semester	2,000/-
13.	Electricity & Water Charges	Per Semester	1,000/-
14.	Mess Advance (To be adjusted with the actual bill amount at semester end.)	Per Semester	16,000/-
<b>Sub_Total of Hostel Dues</b>			<b>19,500/-</b>