

**THE XIth MEETING
OF
SENATE**

**NATIONAL INSTITUTE OF TECHNOLOGY
MEGHALAYA**

MINUTES

DAY : Monday

DATE: 20.03.2017

***VENUE: Conference Room,
NIT Meghalaya,
Shillong.***

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA**Minutes of Eleventh Meeting of the Senate held on 20.03.2017**

The XIth Meeting of the Senate of NIT Meghalaya was held on 20th March, 2017 at 11:00 a.m. in the Conference Room of the Institute at Bijni Complex, Shillong and the following members were present:

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| 1. Dr. S. B. Singh, Director, NIT Meghalaya | - Chairman |
| 2. Professor R. Sirohi, Former Director, IIT Delhi | - Member |
| 3. Professor P.K. Basu, Retd. Professor, Calcutta University | - Member |
| 4. Dr. P. Bharali, Retd. Director (Operations), Oil India Ltd. | - Member |
| 5. Professor P. Mahanta, ME Dept, IIT Guwahati | - Member |
| 6. Professor (Mrs.) M.P.R. Lyngdoh, Former Principal, Shillong College | - Member |
| 7. Dr. A. Dandapat, Assoc. Dean(Acad) & HoD, ECE, NIT Meghalaya | - Spl. Invitee |
| 8. Dr. A. Bhattacharjee, Assoc. Dean(R&C), NIT Meghalaya | - Spl. Invitee |
| 9. Dr. Saikat Mukherjee, Assoc. Dean(SW), NIT Meghalaya | - Spl. Invitee |
| 10. Dr. Atanu Banerjee, HoD, Electrical Engineering, NIT Meghalaya | - Spl. Invitee |
| 11. Dr. R. Ray, HoD, Computer Sc. and Engineering, NIT Meghalaya | - Spl. Invitee |
| 12. Dr. S. Maity, HoD, Mechanical Engineering, NIT Meghalaya | - Spl. Invitee |
| 13. Dr. C. Marthong, HoD, Civil Engineering, NIT Meghalaya | - Spl. Invitee |
| 14. Dr. G. Dutta, HoD, Chemistry, NIT Meghalaya | - Spl. Invitee |
| 15. Dr. T. Subedi, HoD, Mathematics, NIT Meghalaya | - Spl. Invitee |
| 16. Dr. S. Mangang, HoD, Humanities and Social Sc, NIT Meghalaya | - Spl. Invitee |
| 17. Dr. K. Senthilkumar, HoD, Physics, NIT Meghalaya | - Spl. Invitee |
| 18. Dr. D. K. Sarma, Registrar (i/c) , NIT Meghalaya | - Secretary |

At the outset, the Chairman welcomed the members and the Special Invitees to the Eleventh Meeting of the Senate. The members of the Senate expressed high appreciation on the service provided by the outgoing Senate Chairman in formulating the Academic Policies and Structure of the Institute in its nascent stage.

The Chairman then requested the Assoc. Dean (Acad) to take-up the agenda of the meeting.

Item No. 1: Confirmation of Minutes of the Tenth Meeting of the Senate of NIT Meghalaya held on 03.10.2016.

The Tenth Meeting of the Senate of the Institute was held on 03.10.2016 in the Conference Room of the Institute. The minutes of the meeting (Separate Booklet-Senate-X Minutes) were circulated amongst the members of the Committee for their comments/ observations. Comments were received from members and those are incorporated.

The Senate was requested to consider confirming the minutes.

R1/SENATE-XI/17: *The Senate **Resolved** to **Confirm** the Minutes of the Tenth Meeting as circulated.*

Item No. 2 : Follow up action on the decision of the Tenth Meeting of the Senate.

Actions taken on the decisions of the Tenth Meeting of the Senate held on 03.10.2016 were presented before the committee.

R2/SENATE-XI/17: *The Senate **Noted** the actions taken on the resolutions of the Xth Meeting of the Senate as presented.*

Item No. 3: Recommendations from V-th RC Meeting held on 27-02-2017.

The Fifth Meeting of the Research Committee was held on 27th Feb, 2017 and the minutes were circulated to the Senate Members for observations.

R3/SENATE-XI/17: *The Senate **Noted** the resolutions of the Vth RC Meeting and made the following suggestions / recommendations/ observations:*

- i) **On resolution R1/RC-V/17:**
Senate resolved to approve the amendment in R2/RC-II/15 and R4/RC-IV/16
- ii) **On resolution R4/RC-V/17:**
Senate suggested not recognising the faculty members as Institute supervisors who are on contract positions.
- iii) **On resolution R7b/RC-V/17:**
It was suggested to place the thesis examination reports before the Senate for their information.
- iv) **On resolution R7c/RC-V/17:**
Senate Resolved not to approve the recommendation, however it was suggested to consider Part time scholar's request based on their research publication on case to case basis.
- v) **On resolution R7d/RC-V/17:**
Senate accepted the recommendation for recognition of Dr. P. K. Biswas, Asst. Prof., NIT Mizoram as a co-supervisor for scholar Chiranjit Sain.

Item No. 4: Proposal Guidelines for Part Time M. Tech Programme

As recommended by the Senate in its Xth meeting held on 03-10-16, the guidelines for M. Tech Part Time Programme was reviewed and revised and the same was circulated among the Senate members for approval.

R4/SENATE-XI/17: *The Senate **Resolved** to **Approve** the revised proposal for M. Tech Part Time Programme after minor corrections for new admission.*

Item No. 5: Recommendations from VII-th Meeting of Academic Programmes Committee (APC):

The Seventh Meeting of APC was held on 24th Feb, 2017. The APC recommended courses were placed at Annexure-I for approval of the Senate.

Sl. No	Item	Brief Details	Recommendation
1.	Syllabi of 500 level courses for	The DAC of the department of ECE has prepared the syllabi of the following courses for the M.Tech programme after	R3/APC-VII/17 <i>The APC resolved to recommend the syllabi of EC531, EC532 and EC533</i>

	M.Tech in ECE Programme for Approval	<p>due consultation with domain experts (Reference: Annex-I, pp-12-14) for consideration of the APC.</p> <p>EC531 Adaptive and Statistical Signal Processing (3-0-2:4) EC532 Advanced Information Theory and Coding (4-0-0:4) EC533 Advanced Engineering Electromagnetics (4-0-0:4)</p>	<p><i>courses after incorporating suggested changes for approval by the Senate.</i></p> <p><u>R5 (1)/SENATE-XI/17:</u></p> <p><i>The Senate Resolved to Approve the Syllabi of courses after minor changes/ corrections pointed out.</i></p>
2.	New Syllabi of 300/400 level B.Tech (ME) courses for Approval.	<p>The DAC of the department of Mechanical Engineering has prepared the syllabi of courses for the B. Tech programme after due consultation with domain experts (Reference: Annex-I, pp-15-16) for consideration of the APC.</p> <p>ME313: Mechanical Laboratory-IV (0-0-6:3) ME 437: Fracture Mechanics (3-0-0:3)</p>	<p><u>R4/APC-VII/17</u></p> <p><i>The APC resolved to recommend the syllabi of ME313 and ME437 courses after incorporating suggested changes for approval by the Senate.</i></p> <p><u>R5 (2)/SENATE-XI/17:</u></p> <p><i>The Senate Resolved to Approve the Syllabi of courses after minor changes/ corrections pointed out.</i></p>
3.	Revised Syllabi of 500 level courses for M.Tech (EE) Programme for Approval.	<p>The DAC of the department of EE has revised the syllabi of the following courses for the B.Tech programme (Reference: Annex-I, pp-17) for consideration of the APC.</p> <p>EE 519: Advanced Control Systems (3-0-0:3)</p>	<p><u>R5/APC-VII/17</u></p> <p><i>The APC resolved to recommend the syllabi of EE519 course for approval by the Senate.</i></p> <p><u>R5 (3)/SENATE-XI/17:</u></p> <p><i>The Senate Resolved to Approve the revised Syllabi of course EE519.</i></p>
4.	Revised Semester wise Model Plan for M.Sc Physics Programme	<p>The DAC of the Department of Physics has made some changes in the Semester model Plan for M.Sc programme for consideration of the APC. (Reference: Annex-I, pp-18-19)</p>	<p><u>R7(i)/APC-VII/17</u></p> <p><i>The APC resolved to recommend the revised model plan for approval by the Senate.</i></p> <p><u>R5 (4)/SENATE-XI/17:</u></p> <p><i>The Senate Resolved to Approve the Revised Model Plan for M.Sc Physics Programme.</i></p>
5.	New Syllabi of 400 level courses for M.Sc Physics Programme for Approval	<p>The DAC of the department of Physics has prepared the syllabi of courses for the M.Sc programme after due consultation with domain experts (Reference: Annex-I, pp-20-21) for consideration of the APC.</p> <p>PH405: Mathematical Physics II (3-1-0:4) PH409: Experimental Techniques in Physics (3-0-0:3)</p>	<p><u>R7(ii)/APC-VII/17</u></p> <p><i>The APC resolved to recommend the syllabi of PH405 and PH409 courses for approval by the Senate.</i></p> <p><u>R5 (5)/SENATE-XI/17:</u></p> <p><i>The Senate Resolved to Approve the Syllabi of new courses after minor</i></p>

			<i>changes/ corrections pointed out.</i>
6.	Revised Syllabi of 400 level courses for M.Sc Physics Programme for Approval	<p>The DAC of the department of Physics has revised the syllabi of courses for the M.Sc programme (Reference: Annex-I, pp-22-26) for consideration of the APC.</p> <p>PH 401: Mathematical Physics-I (3-1-0:4) PH 403: Quantum Mechanics I (3-1-0:4) PH 404: Physics Of Electronic Devices (3-0-0:3) PH 406: Quantum Mechanics II (3-1-0:4) PH 407: Electromagnetic Theory (3-1-0:4) PH 408: Condensed Matter Physics (3-1-0:4) PH 502: Applied Optics (3-0-0: 3) Course code changed: PH 503: Statistical Mechanics (3-1-0:4)</p>	<p>R7(iii)/APC-VII/17</p> <p><i>The APC resolved to recommend the syllabi of PH401, PH403, PH404, PH406, PH407, PH408 and PH502course for approval by the Senate.</i></p> <p>R5 (6)/SENATE-XI/17:</p> <p><i>The Senate Resolved to Approve the Syllabi of revised courses after minor changes/ corrections pointed out.</i></p>
7.	Credit Distribution for Specialization (M.Tech, ECE).	<p>The DAC of the Department ECE observed that there are 4 core courses with a total of 15 credits and 5 elective courses of 19 credits as per M.Tech curriculum structure. Committee recommended the following:</p> <p>Two specializations shall be offered, namely (i) Communication and Signal Processing and (ii) VLSI</p> <p>For award of a specialization, a student has to clear 15 elective course credits in the specialization area. Also the student must carry out his project work in the same specialization area.</p> <p>Students not fulfilling the above mentioned criteria will be awarded M.Tech degree in Electronics and Communication without any specialization, if he/she otherwise satisfies the other requirements for the M.Tech degree.</p>	<p>R8 (i)/APC-VII/17</p> <p><i>The APC resolved to recommend the DAC (ECE) recommendations for approval by the Senate.</i></p> <p>R5 (7)/SENATE-XI/17:</p> <p><i>The Senate Resolved to Approve the credit distribution for M.Tech in ECE.</i></p>
8.	Revised Semester wise Model Plan for M.Tech in ECE Programme	<p>The DAC of the Department of ECE has made some changes in the Semester model Plan for M.Tech programme for consideration of the APC. (Reference: Annex-I, pp-27)</p>	<p>R8 (ii)/APC-VII/17</p> <p><i>The APC resolved to recommend the revised model plan for approval by the Senate.</i></p> <p>R5 (8)/SENATE-XI/17:</p> <p><i>The Senate Resolved to Approve the Revised Model Plan for M.Tech in ECE Programme.</i></p>

9.	New 700 level course (EE, ME)	<p>The set of new courses listed below have been proposed for the Ph. D. programme in Electrical, Mechanical Engineering. The detailed courses are in Annex-I, pp-28-29.</p> <p>EE713: Advanced Technologies for Smart Electric Grids (3-0-0:3) ME 704: Advanced Control System in Mechanical Engineering (3-0-0:3)</p>	<p>R6/APC-VII/17</p> <p><i>The APC resolved to recommend the syllabi of EE713 and ME704 courses after incorporating suggested changes for approval by the Senate.</i></p> <p>R5 (9)/SENATE-XI/17:</p> <p><i>The Senate Resolved to Approve the Syllabi of courses after minor changes/ corrections pointed out.</i></p>
10.	Curriculum Structure for PhD Comprehensive written exam for Approval.	<p>Presently Institute is not having any structure for PhD comprehensive exam. Individual supervisors are notifying a syllabus for comprehensive exam of his/her scholar. We do need a common guideline and structure for comprehensive examination for each Department. Following structure is proposed for the written comprehensive exam.</p> <p>Basic courses: These courses may be of 300 / 400 levels or any newly designed course of appropriate level. Scholars shall choose any one elective course.</p> <p>Specialized courses: These courses may be of 500 / 600 / 700 levels or any newly designed course of appropriate level. Scholars shall choose any one specialized elective course.</p> <p>Basic Elective-Cr:3 Specialized Elective-Cr:3</p> <p>Comprehensive written exam will be of 100 marks and of 3 hrs.</p> <p><i>The APC was requested to consider any other comments/ observations of the members and recommending to the Senate for approval</i></p>	<p>R9/APC-VII/17</p> <p><i>The APC resolved to recommend the proposed structure for PhD comprehensive written exam for approval by the Senate.</i></p> <p>R5 (10)/SENATE-XI/17:</p> <p><i>The Senate Suggested Following existing regulation for Comprehensive exam.</i></p>
11.	Mid Term Exam Marks and Hours	<p>Faculty members are preparing Mid Term question papers of either 50 marks or 60 marks. It was proposed by the APC to make it uniform for all courses and it will be of 60 marks.</p>	<p>R10/APC-VII/17</p> <p>APC resolved to recommend the proposal to the Senate for approval</p> <p>R5 (11)/SENATE-XI/17:</p> <p><i>The Senate advised to present detail weight of existing exams as per regulation.</i></p>

Item No. 6: Academic Calendar 2017-18

A draft Academic Calendar of the Institute for the Academic Year 2017-18 was presented before the Senate for approval.

<u>AUTUMN SEMESTER (July-December, 2017)</u>		
1	UG, PG & PhD Admission	July 18-21, 2017
2	Registration	July 21, 2017
3	Supplementary Examinations	July 20-21, 2017
4	Commencement of Classes	July 24, 2017
5	Registration with Fine	July 25-26, 2017
6	Last Date of Registration	July 26, 2017
7	Declaration of Summer Term & Supplementary Results	July 28, 2017
8	Last Date for Change in Course Registration	August 25, 2017
9	Mid Term Examinations	September 15-22, 2017
10	Annual Technical Festival (Cognitia)	October 6-7, 2017
11	Last Day of Classes	November 17, 2017
12	Laboratory Examinations	November 20- 24, 2017
13	End Term Examinations	November 27-December 04, 2017
14	Pre-Registration Counselling	December 04, 2017
15	Display of Grades	December 04-07, 2017
16	Declaration of Results	December 11, 2017
17	Winter Break	December 05- January 04, 2018
<u>SPRING SEMESTER (January-June, 2018)</u>		
1	Registration	January 05, 2018
2	Commencement of Classes	January 08, 2018
3	Registration with Fine	January 09-10, 2018
4	Last Date of Registration	January 10, 2018
5	Supplementary Examinations	January 08-09, 2018
6	Last Date for Change in Course Registration	February 05, 2018
7	Institute Cultural Festival (Shishir)	February 16-17, 2018
8	Mid Term Examinations	March 12-17, 2018
9	Institute Day	April 01, 2018
10	Last day of Classes	May 04, 2018

11	Laboratory Examinations	May 07-10, 2018
12	End Term Examinations	May 14-19, 2018
13	Preregistration Counselling	May 18-19, 2018
14	Display of Grades	May 19-23, 2018
15	Declaration of Results	May28, 2018
16	Summer Break	May 23- July 22, 2018
<u>SUMMER TERM (June-July, 2018)</u>		
1	Registration	May 01-02, 2018
2	Commencement of Classes	May24, 2018
3	Mid Term Examinations	June 14-15, 2018
4	End Term Examinations	July 13-14, 2018
5	Display of Grades	July 17-18, 2018
6	Declaration of Results	July 20, 2018

R6/SENATE-XI/17: *The Senate **Resolved to Approve** the proposed Academic Calendar for the academic year 2017-18.*

Item No. 7: IPR Policy of the Institute:

A draft IPR policy of the Institute framed by Assoc. Dean (R & C), which is required to provide a suitable environment to the employees and students of the institute for creation, protection, and commercialization of intellectual property and to incite innovation, was presented before the Senate for consideration in Annex-II.

R7/SENATE-XI/17: *The Senate suggested some changes and advised to consult with IPR consultant.*

Item No. 8: Reporting Items

a) Autumn Result 2016

UG Result Summary

B. Tech 1st Year						B. Tech 2nd Year					B. Tech 3rd Year					B. Tech 4th Year				
CGPA	CE	CSE	ECE	EE	ME	CE	CSE	ECE	EE	ME	CE	CSE	ECE	EE	ME	CE	CSE	ECE	EE	ME
>9	0	4	3	2	1	0	2	1	1	1	0	4	1	1	1	0	2	0	1	4
8—9	1	8	3	3	6	6	3	4	4	2	6	4	3	4	6	5	2	8	9	5
7—8	3	7	8	6	4	1	4	3	6	9	4	4	4	5	10	10	5	4	4	2
6—7	9	7	9	11	5	7	10	2	9	3	12	7	3	9	8	7	2	7	4	10
5—6	8	2	1	3	6	7	5	8	5	6	6	6	11	3	4	4	10	3	7	5
<5	0	0	0	0	0	2	3	4	2	1	1	3	1	1	1	0	1	1	5	0
Backlog	8	5	3	5	11	6	8	6	2	7	3	5	4	6	5	3	2	1	6	3

PG Result Summary

	M. Tech 1st Year				M. Tech 2nd Year					M.Sc 1st Year			M.Sc 2nd Year		
	CSE	ECE	EE	ME	CE	CSE	ECE	EE	ME	CHEM	MAT	PHY	CHEM	MAT	PHY
>9	0	1	2	3	2	0	4	2	2	2	0	0	0	0	0
8—9	3	1	2	3	4	7	5	7	7	6	1	1	3	1	2
7—8	7	4	5	4	0	7	3	2	2	3	2	5	8	2	1
6—7	5	5	4	3	0	1	1	1	1	1	3	6	2	0	4
5—6	1	3	4	0	0	0	0	0	0	0	0	0	0	0	1
<5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backlog	1	6	0	0	0	0	0	0	0	0	1	0	0	0	2

R8 (a)/SENATE-XI/17: The Senate **Noted** the Result Summary of Autumn Semester, 2016.

b) Institute Day 2017

As in the previous year the Institute will celebrate its Institute Day on 1st April this year. The highlights of the 2nd Institute Day will be a couple of Extramural Lectures by distinguished personalities/ scholars, Institute Awards to Students, Faculty and Staff, documentary video. In addition there will be other activities such as cultural function, friendly sport activities etc.

R8 (b)/SENATE-XI/17: The Senate **Noted** and appreciated the highlights of the 2nd Institute Day to be celebrated.

c) Training and Placement.

Sl. No.	Name of the Recruiting Organisation	Package (Rs. In lakh per annum)	Job Offers
1	Persistent Technologies	6.00	2
2	Microsoft India	9.74	2
3	Tech Mahindra	3.24	22
4	SKF India	4.25	4
5	Mphasis	4.00	10
6	Robert Bosch	4.75	4
7	Capgemini	6.00	12
8	Wipro	3.40	10
9	Cummins India	4.15	2
10	Sapient	5.05	3
11	L & T Constructions	5.11	3
12	IBM India	3.75	2
13	Infosys	3.20	1
14	Virtusa-Polaris	5.00	11

15	Burning Glass Technologies	5.50	1
16	Gammon India	8.95	1
17	Chegg India	10.80	1
Total			91

Minimum salary Offered	Maximum salary offered	Average salary offered	Total No of Students	No. of Students Qualified as per Recruiter Norms	No of Students placed
3.20 L	10.80 L	5.46 L	126	77	60

R8 (c)/SENATE-XI/17: *The Senate **Noted** the updated placement status as provided.*

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

Dr. Anup Dandapat
Asoc. Dean Academics