

**THE XIIIth MEETING
OF
SENATE**

**NATIONAL INSTITUTE OF TECHNOLOGY
MEGHALAYA**

MINUTES

DAY : Saturday

DATE: 21.10.2017

***VENUE: The Conference Room
NIT Meghalaya
Shillong***

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA**Minutes of Thirteenth Meeting of the Senate held on 21.10.2017**

The XIIIth Meeting of the Senate of NIT Meghalaya was held on 21th July 2017 at 10:00 a.m. in the Conference Room of the Institute at Bijni Complex, Shillong and the following members were present:

- | | |
|---|----------------|
| 1. Professor B.B. Biswal, Director, NIT Meghalaya | - Chairman |
| 2. Professor N. C. Shivprakash, Professor, IISC Bangalore | - Member |
| 3. Professor P. Majumdar, CE Dept, IISc, Bangalore | - Member |
| 4. Dr. P. Bharali, Retd. Director (Operations), Oil India Ltd. | - Member |
| 5. Dr. A. Bhattacharjee, Reg (i/c), Dean(R&C), NIT Meghalaya | - Secretary |
| 6. Dr. A. Dandapat, Dean (AA), NIT Meghalaya | - Spl. Invitee |
| 7. Dr. Saikat Mukherjee, Assoc. Dean(SW), NIT Meghalaya | - Spl. Invitee |
| 8. Dr. D. K. Sarma, Assoc Dean (P&D) , NIT Meghalaya | - Spl. Invitee |
| 9. Dr. Atanu Banerjee, HoD, Electrical Engineering, NIT Meghalaya | - Spl. Invitee |
| 10. Dr. D. S. Roy, HoD, Computer Sc. and Engineering, NIT Meghalaya | - Spl. Invitee |
| 11. Dr. B. Sarkar, HoD, Mechanical Engineering, NIT Meghalaya | - Spl. Invitee |
| 12. Dr. C. Marthong, HoD, Civil Engineering, NIT Meghalaya | - Spl. Invitee |
| 13. Dr. G. Dutta, HoD, Chemistry, NIT Meghalaya | - Spl. Invitee |
| 14. Dr. M. Saha, HoD, Mathematics, NIT Meghalaya | - Spl. Invitee |
| 15. Dr. S. Mangang, HoD, Humanities and Social Sc, NIT Meghalaya | - Spl. Invitee |
| 16. Dr. K. Senthilkumar, HoD, Physics, NIT Meghalaya | - Spl. Invitee |
| 17. Dr. Ch.V. Rama Rao, HoD, ECE, NIT Meghalaya | - Spl. Invitee |

The other members Professor P.K. Basu, Prof. P. Mahanta and Professor (Mrs.) M.P.R. Lyngdoh could not attend the meeting due to prior commitments. Leave of absence was granted.

At the outset, the Chairman welcomed the members and the Special Invitees to the Thirteenth Meeting of the Senate. The Chairman then requested the Dean (AA) to take-up the agenda of the meeting.

Item No. 1: Confirmation of Minutes of the Twelfth Meeting of the Senate of NIT Meghalaya held on 12.07.2017.

The Twelfth Meeting of the Senate of the Institute was held on 12.07.2017 in the Conference Room of the Institute. The minutes of the meeting were circulated amongst the members of the Committee for their comments/ observations.

The Senate was requested to consider confirming the minutes.

R1/SENATE-XIII/17: The Senate **Resolved** to **Confirm** the minutes of the XIIth Meeting of the Senate as presented.

Item No. 2 : Action Taken Report on the decision of the Twelfth Meeting of the Senate.

Actions taken on the decisions of the Twelfth meeting of the Senate were presented to the Senate.

R2/SENATE-XIII/17: The Senate **Noted** the actions taken on the resolutions of the XIIth Meeting of the Senate.

Item No. 3: Item No. 3: Recommendations from VIIIth APC Meeting.

The Eighth Meeting of APC was held on, 11th Oct, 2017. The APC recommended courses/curriculum were placed for approval of the Senate. The recommendations of the APC are as tabulated below:

Sl. No.	Item	Brief Details	Recommendation
1.	Revised Model semester wise distribution of courses for the M.Tech programme.	The APC has suggested for revision in the Model semester wise distribution of courses for the M.Tech programme for consideration of the APC.	<p>R3/APC-VIII/17</p> <p><i>The APC resolved to recommend the revised structure for approval by the Senate.</i></p> <p>R3(1)/SENATE-XIII/17</p> <p><i>The Senate Resolved to Approve the Revision in the model semester wise distribution of M.Tech Courses after incorporating minor changes as presented in Annex-I.</i></p>
2.	Proposal for change in Name of EC M.Tech Programme for Approval.	<p>The DAC of the Department of Electronics & Communication Engineering has proposed to change the Name of the M.Tech programme from M.Tech in Electronics & Communication Engineering to M.Tech in Microelectronics and VLSI Design.</p> <p>Present Name: M. Tech in Electronics and Communication Engineering</p> <p>Proposed Name: M. Tech in Microelectronics and VLSI Design</p>	<p>R4/APC-VIII/17</p> <p><i>The APC resolved to recommend the Name change of the Programme for approval by the Senate.</i></p> <p>R3(2)/SENATE-XIII/17</p> <p><i>The Senate Resolved to change in name from M. Tech in Electronics and Communication Engineering to M. Tech in VLSI and Embedded Systems</i></p>
3.	Proposal for new M.Tech Specialized programme in EC.	The DAC of the Department of Electronics & Communication Engineering has proposed to introduce new M.Tech programme in Communications and Signal Processing from AY-2018-19. Proposed intake capacity for the programme is 20.	<p>R5//APC-VIII/17</p> <p><i>The APC resolved to recommend the proposal for approval by the Senate.</i></p> <p>R3(3)/SENATE-XIII/17</p> <p><i>The Senate Recommended to start the new proposed M.Tech programme from the session 2019-20.</i></p>

4.	Proposal for new M.Tech programme in CE Department.	Civil Engineering Department proposes to start M.Tech Programme in Structural Engineering from AY-2018-19. Proposed intake capacity for the programme is 20.	<p>R6//APC-VIII/17</p> <p><i>The APC resolved to recommend the proposal for approval by the Senate.</i></p> <p><u>R3(4)/SENATE-XIII/17</u></p> <p><i>The Senate Resolved to Approve the start of M.Tech Programme in Structural Engineering from AY-2018-19 with an intake capacity of 20 seats.</i></p>
5.	Syllabi of 500 level courses for M.Tech in EC Programme for Approval	<p>The DAC of the Department of EC has prepared the syllabi of the following courses for the M.Tech programme after due consultation with domain experts for consideration of the APC.</p> <p>EC534: Signal Detection and Estimation Th. (3-0-2:4)</p> <p>EC535: Speech Signal Processing and Coding (3-0-0:3)</p> <p>EC536: Digital Image Processing (3-0-2:4)</p>	<p>R7/APC-VIII/17</p> <p><i>The APC resolved to recommend the syllabi of EC534, EC535 and EC536 courses after incorporating suggested changes for approval by the Senate.</i></p> <p><u>R3(5)/SENATE-XIII/17</u></p> <p><i>The Senate Resolved to Approve the courses after recommending few rectifications to be implemented.</i></p>
6.	Revised Syllabus of ME531 for M.Tech (ME) Programme	The DAC of the Department of Mechanical Engineering has made some changes in the ME531 syllabus for M.Tech programme for consideration of the APC.	<p>R8/APC-VIII/17</p> <p><i>The APC resolved to recommend the revised syllabus ME553 for approval by the Senate.</i></p> <p><u>R3(6)/SENATE-XIII/17</u></p> <p><i>The Senate Resolved to Approve the revised course.</i></p>
7.	Syllabi of 500 level courses for MSc in 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 for consideration of the APC.</p> <p>PH 554: Phase Transitions (3-0-0:3)</p> <p>PH 555: Non-Equilibrium Statistical Mechanics (3-0-0:3).</p>	<p>R9/APC-VIII/17</p> <p><i>The APC resolved to recommend the syllabi of PH554 and PH555 courses for approval by the Senate.</i></p> <p><u>R3(7)/SENATE-XIII/17</u></p> <p><i>The Senate Resolved to Approve the courses PH554 and PH555 after incorporating minor changes.</i></p>
8..	Syllabus of 500-level course for M.Sc program in Mathematics for approval.	<p>The DAC of the department of Mathematics has prepared the syllabi of courses for the M.Sc programme after due consultation with domain experts for consideration of the APC.</p> <p>MA 541 : Applied Dynamical Systems (3-1-0: 4)</p>	<p>R10/APC-VIII/17</p> <p><i>The APC resolved to recommend the syllabi of MA541 course for approval by the Senate.</i></p> <p><u>R3(8)/SENATE-XIII/17</u></p> <p><i>The Senate Resolved to Approve the courses MA541.</i></p>

9.	Revision in M.Sc (Math) Curriculum and Semester Model plan for approval.	The DAC of the department of Mathematics has proposed minor changes in semester model plan and in the course codes. Revised syllabus of the course MA410 was placed under Annex-I, pp-15) for consideration of the APC.			R11/APC-VIII/17 <i>The APC resolved to recommend the revised curriculum and Model Plan for approval by the Senate.</i> R3(9)/SENATE-XIII/17 <i>The Senate Resolved to Approve the changes proposed in semester model plan as presented.</i>
		Existing	Proposed	Remarks	
		MA 410: Probability and Statistics (3-1-0:4)	MA 531: Probability and Statistics (3-1-0:4)	Only course code changed.	
		MA 531: Graph Theory (3-0-0:3)	MA 410: Graph Theory (3-1-0:4)	Revised syllabus and credit.	
10.	New 700 level course (EC, PH and MA)	The set of new courses listed below have been proposed by Electronics & Communication, Physics and Mathematics Departments. The detailed courses were in Annex-I, pp-16. EC709: Digital Arithmetic and Algorithms (3-0-0:3) EC710: MEMS and Microfabrication Techniques (2-0-2:3) PH705: Magnetic And Dielectric Properties (3-0-0:3) MA 709: Partial Differential Equations – II (3-0-0: 3)			R12/APC-VIII/17 <i>The APC resolved to recommend the syllabi of EC709, EC710, PH705 and MA709 courses after incorporating suggested changes for approval by the Senate.</i> R3(10)/SENATE-XIII/17 <i>The Senate Resolved to Approve the courses for the session 2017-18. The Senate also suggested offering PG courses of 500 and 600 level for the PhD course work however only compulsory courses for PhD course work will be of 700 levels.</i>

Item No. 4: Admission Details, 2017

The admission data, 2017 were presented before the Senate.

R4/SENATE-XIII/17: *The Senate **Noted** the admission details of 2017 as presented.*

Item No. 5: Revised Fee Structure

From Spring Semester 2018 onwards, the Institute has decided to include the following fees in the fee structure owing to increasing expenditure in these aspects:

- Hostel Establishment Fees of Rs. 1500/- only per semester.
- Student Activity Fees of Rs. 1500/- only per semester.
- Enhancement of Institute Caution Money Deposit to Rs. 5,000/- from existing Rs. 2,000/- only and Hostel Caution Money Deposit to Rs. 5,000/- from existing Rs. 1,000/- only.

- d) Enhancement of Student welfare fund to Rs 1000 from existing Rs. 250.
- e) Enhancement of Hostel seat rent and Electricity & Water charges to Rs. 5000/- and Rs. 1500/- from existing Rs. 2000/- and Rs. 1000/-
- f) Fees for text book purchase-Rs. 2000 (annually)

Revised Fee Structure was placed before the Senate for consideration (Annex-II).

R5/SENATE-XIII/17: *The Senate **Resolved** to **Recommend** the revised fee structure for the approval by the BoG (Placed in Annex-II).*

Item No. 6: Amendment in Ph.D Regulations

Few amendments to the existing Ph.D Regulations were proposed. The Senate was requested to make comments & observations on the amendment to PhD Regulations (Annex-III).

R6/SENATE-XIII/17: *After due deliberations, the Senate **Resolved** to **Approve** the proposed Amendment in Ph.D regulations (Placed in Annex-III).*

Item No. 7: Amendment to Ordinance VI: Ordinance on Awards of Scholarships

Few amendments to the existing Ordinance-VI: Awards of Scholarships were proposed and placed before the Senate for recommendation (Annex-IV).

R7/SENATE-XIII/17: *After due deliberations, the Senate **Resolved** to **Approve** the proposed Amendment in Ordinance-VI (Placed in Annex-IV).*

Item No. 8: Increase in Intake of M.Tech Programme in Mechanical Engineering

Institute would like to increase the intake capacity of the M.Tech programme (Fluids & Thermal Engineering) in Mechanical Engineering Department to 20 like other M.Tech programmes in EC, CS and EE Departments. Present intake capacity is 15.

The Senate was requested to consider the revised intake capacity for the M.Tech Programme in Fluid & Thermal Engineering.

R8/SENATE-XIII/17: *The Senate **Resolved** to **Approve** the increase in seats in the M. Tech Programme of ME Department.*

Item No. 9: Reporting Items

a) 4th Convocation of the Institute:

The Fourth Convocation of NIT Meghalaya will be held on 28th of October, 2017 (Saturday). Padmabhushan, Padmashree Dr Vijay Kumar Saraswat, Member, NITI Aayog, India's one of the most gifted scientists and an accomplished researcher to be the Chief Guest of the Convocation.

R9/SENATE-XIII/17: The Senate **Noted** the reporting item as provided.

Item No. 10: Items for Ratification

a) B. Tech, M. Tech & PhD students eligible for Degree after 12th Senate:

Seven more B. Tech. candidates, one more M. Tech candidate and one PhD candidates completed the requirements of the programme since the last Senate Meeting. The list was presented before the Senate.

Eligible for Degree After Summer Term & Supplementary Examinations				
B. Tech	1	Rializa Nongdhar	B13CS010	Computer Science and Engineering
	2	Prem Prabhat	B13EC007	Electronics and Communication Engineering
	3	Aryan Kumar	B12EE020	Electrical Engineering
	4	Neeraj Kumar Gaur	B13ME008	Mechanical Engineering
	5	Aiboklang Sawkmie	B13ME009	Mechanical Engineering
	6	Mudit Yadav	B13CV019	Civil Engineering
	7	Nitish Wardhan Ahirwar	B13EC014	Electronics and Communication Engineering
M. Tech	1	Shruti Sahu	T15EE005	Electrical Engineering
PhD	1	Debanjan Bhattacharjee	P14PH003	Physics

Total no. of students graduating in 2017: 203 Students:

B. Tech: 117 (excluding 9 ineligible students)

M. Tech: 56 (excluding 1 ineligible student)

M.Sc: 24

Ph.D: 6

b) 700 level ME courses:

The director approved the following 700 level ME courses subject to ratification by the Senate (in Annex-V, PP-30):

ME 705: Composite Materials (3-0-0 : 3)

ME 706: Engineering Fracture Mechanics (3-1-0 : 4)

R10 (a)/SENATE-XIII/17: The Senate **Resolved to Recommend** the eligible candidates to the Board of Governors for approval to award degrees in the 4th Convocation of NIT Meghalaya scheduled to be held on 28th of Oct, 2017.

R10 (b)/SENATE-XIII/17: The Senate **Resolved to Ratify** the decision taken by the Director for the courses ME 705 and ME706 for AY 2017-18 only.

Item-11: NPTEL courses for 3rd year and 4th year B.Tech students

To promote online teaching resources, the Centre for Technology Enabled Learning (TEL) at NIT Meghalaya proposes to incorporate NPTEL courses in the curriculum. To this end the Institute will start taking the opportunity from the rich pool of resources available at “<https://onlinecourses.nptel.ac.in/explorer>”. From Autumn-2018 onwards, every Engineering Department of the Institute will be asked to pick one course (from 3rd year level onwards) from the available pool of online courses that are being offered during that semester for their B.Tech students. The credit will be considered as per academic rules. Detail process formulated by TEL is enclosed for the consideration of Senate.

Assessment will be done as follows:

Class Test-1 (15)	Class Test-2 (15)	Mid Term (50)	Assignment (20)	End Term (100)	Practical (50)
Taken by course instructor	Taken by course instructor	Taken by course instructor	Evaluated Online by NPTEL	Evaluated Online by NPTEL	Taken by course instructor

The Senate was requested to make comments & observations on the proposal and to approve for inclusion of NPTEL courses in the semester plan.

R11/SENATE-XIII/17: *The Senate **Resolved to Approve** the inclusion of NPTEL courses for 3rd year and 4th year B.Tech students in their semester plan.*

The meeting concluded with thanks to and from the Chair.

Sd/-

Dr. Anup Dandapat
Dean (Academic)

Annex-I**Proposed changes in M. Tech Programme Curriculum Structure:****Credit Requirement:****Minimum : 64**

Core Courses : 15

Electives : 12

Laboratory Course : 06

Term Paper : 02

STW : 02

Technical Report : 02

Project Work : 25

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	
Semester-I						Semester-II					
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	Core Course-V	3	0	0	3
XX nnn	Core Course-III (Math course)	3	0	0	3	XX nnn	Elective Course-III	3	0	0	3
XX nnn	Elective Course-I	3	0	0	3	XX nnn	Elective Course-IV	3	0	0	3
XX nnn	Elective Course-II	3	0	0	3	XX nnn	Core course Lab	0	0	2	1
XX nnn	Core course Lab	0	0	2	1	XX nnn	Elective course Lab	0	0	2	1
XX nnn	Elective course Lab	0	0	2	1	XX nnn	Computing Lab	0	0	2	1
XX nnn	Computing Lab	0	0	2	1	XX nnn	Seminar & Technical report writing	0	0	2	1
XX nnn	Seminar & Technical report writing	0	0	2	1	XX nnn	Term Paper	0	0	4	2
		15	0	6				12	0	12	
		21			19			24			18
Non Credit Compulsory Course: Internship/Mini Project											
Semester-III						Semester-IV					
XX nnn	Technical Report and presentation on mini project/internship work	0	0	4	2	XX nnn	Project-II	0	0	28	14
XX nnn	Project-I	0	0	22	11						
		0	0	26	13			0	0	28	14
		26			13			28			14

Semester model plan for each Department and new courses required as per proposed structure shall be placed in the next meeting of the Senate for its approval.

Annex-II**National Institute of Technology Meghalaya****New Fee Structure of Programmes Offered by NIT Meghalaya**

New Fee Structure from Spring Semester 2018 Onwards						
Sl. No.	Particulars	Periodicity	B.Tech	M.Tech	M.Sc	Ph.D
Institutional Fees						
1	Identity Card Fee	One Time	150	150	150	150
2	Provisional Certificate Fee	One Time	100	100	100	100
3	Students Welfare Fund	One Time	1,000	1,000	1,000	1,000
Sub Total 1-3:			1,250	1,250	1,250	1,250
4	Tuition Fee (Waived for SC/ST/PH students)*	Per Semester	62,500	35,000	7,500	7,500
5	Examination Fee & Grade Card	Per Semester	600	600	600	600
6	Admission/Enrolment Fee	Per Semester	600	600	600	600
7	Library Fees	Per Semester	300	300	300	300
8	Book Purchase	Per Semester	1000	1000	1000	1000
9	Laboratory and Internet Fees	Per Semester	2,000	2,000	2,000	2,000
10	Student Activity Fees	Per Semester	1,500	1,500	1,500	1,500
11	Hostel Establishment Fees	Per Semester	1,500	1,500	1,500	1,500
Sub Total 4-9:			70,000	42,500	15,000	15,000
Caution Deposits: Refundable						
12	Institute	One Time	5,000	5,000	5,000	5,000
13	Hostel (For Hostellers only)	One Time	5,000	5,000	5,000	5,000
Sub Total of Caution Deposits			10,000	10,000	10,000	10,000
Hostel Fees (For Hostellers only)						
14	Admission Fee	One Time	500	500	500	500
15	Hostel Seat Rent	Per Semester	5,000	5,000	5,000	5,000
16	Electricity & Water Charges	Per Semester	1,500	1,500	1,500	1,500
17	Transportation Fees	Per Semester	1,500	1,500	1,500	1,500
18	Mess Advance (To be adjusted/refunded with the actual bill amount at semester end.)	Per Semester	16,000	16,000	16,000	16,000
Sub Total of Hostel Dues			24,500	24,500	24,500	24,500

* Tuition fees as applicable for different batches as per Govt. circulations

Fees to be paid during admission		1,05,750	78,250	50,750	50,750
Fees to be paid 2nd semester onward		94,500	67,000	39,500	39,500

Annex-III

Proposal for amendment in PhD Regulation

Existing		Proposed	
Clause No	Description	Clause No	Description
Sec-II	“Board of Examiners of Thesis (BET)” : Board of Examiners for examination of a thesis shall consist of internal examiner(s) (normally all the supervisors) and two external examiners. One of the two external examiners shall preferably be from abroad. The external examiners shall be chosen by the chairperson of the Senate from a panel of six members proposed and recommended by the supervisor through the Head of the Department. The supervisor(s) shall propose the panel of examiners at the time of submission of synopsis of the thesis.	Sec-II	“Board of Examiners of Thesis (BET)” : Board of Examiners for examination of a thesis shall consist of internal examiner(s) (normally all the supervisors) and two external examiners. One of the two external examiners shall be from abroad. The external examiners shall be chosen by the chairperson of the Senate from a panel of Ten members (5 from India and 5 from abroad) proposed and recommended by the Doctoral Committee at the time of submission of synopsis of the thesis.
Sec-IV 1.1 c)	Project Fellow : Scholars working on different research projects at the Institute may be admitted to the Ph. D. Programme provided they satisfy the eligibility criteria, subject to the consent of the Principal Investigator of the project.	Sec-IV 1.1 c)	Project Fellow : Project Fellows working on different research projects at the Institute may be admitted to the Ph. D. Programme provided they satisfy the eligibility criteria, subject to the consent of the Principal Investigator of the project. They shall be considered as full time for the Ph.D. courses/research.
Sec-IV 2.3	The supervising load of a scholar for the supervisor shall be considered as one and that for the co-supervisor shall be considered as half. The upper limit on supervising load at a time for the faculty at various levels shall be as follows: Professor: 8 Associate Professor: 6 Assistant Professor: 4 However, before deciding the number of scholars for each category of faculty, the DRC/CRC shall take into consideration the availability of infrastructure and the teaching/ administrative commitments of the supervisor.	Sec-IV 2.3	A faculty member shall have maximum 2 PhD students under him as principal supervisor from the Institute scholarship grant. Additionally one will be allowed to take sponsored scholar, project fellow and QIP scholar. However, before deciding the number of scholars for each faculty, the DRC/CRC shall take into consideration the availability of infrastructure and the teaching/ administrative commitments of the supervisor.
Sec-IV 2.5.2	Any member of the faculty/ scientist from other recognized universities/institutes/organizations with requisite qualifications may be	Sec-IV 2.5.2	Any member of the faculty/ scientist from other recognized universities/ institutes/ organizations with requisite qualifications may be

	recognized as supervisor/ co-supervisor if the DRC/CRC recommends such a person for approval of the RC, with justifications and with the CV of the person concerned.		recognized as supervisor/ co-supervisor if the DRC/CRC recommends such a person for approval of the RC, with justifications and with the CV of the person concerned. For such cases, a co-supervisor/supervisor to be assigned from NIT Meghalaya.
Sec-IV 2.5.6	Even when a supervisor leaves the Institute permanently or temporarily or retires from service she/he shall continue to supervise the scholar(s) till she/he completes the work. However, the scholar(s) can apply to the DRC/CRC for a co-supervisor or a different supervisor with the consent of the original supervisor.	Sec-IV 2.5.6	Even when a supervisor leaves the Institute permanently or temporarily or retires from service she/he shall continue to supervise the scholar(s) till she/he completes the work. However, the scholar(s) must apply to the DRC/CRC for a co-supervisor or a different supervisor with the consent of the original supervisor.
Sec-IV 4	Course Work: 4.1 A scholar admitted to the Ph. D. programme shall be required to complete specified course work prior to the submission of the Plan of Research. The DRC/CRC shall suggest course work of a minimum of nine credits (eighteen credits for those admitted with a B. Tech. as qualifying degree, fifteen credits for M.Sc graduates admitted in PhD programme in Engineering) on the areas of research and/or areas related to that of research to be carried out by the scholar preferably within the first two semesters. However, employed part time candidates shall be given the option of carrying out the course work during any two of the first three semesters.	Sec-IV 4	Course Work: 4.1 A scholar admitted to the Ph. D. programme shall be required to complete specified course work prior to the submission of the Plan of Research. The DRC/CRC shall suggest course work of a minimum of eighteen credits out of which nine is compulsory. Compulsory courses are (i) Research methodology (ii) Math course and (iii) core course. Minimum Twenty Four credits for those admitted with a B. Tech. as qualifying degree , eighteen credits for M.Sc graduates admitted in PhD programme in Engineering. Other courses will be on the areas of research and/or areas related to that of research to be carried out by the scholar preferably within the first two semesters.
Sec-IV 5	Exemption from Course work: 5.1 Any candidate having completed his/ her M. Tech/ M. Phil degree in relevant field within the preceding three years and has done the course work required for the proposed work may be exempted from course work. However, such a person shall be required to give at least two seminars on the areas related to his/her area of research prior to the submission of the Plan of research. 5.2 Candidates who have carried out course works of equivalent standard	Sec-IV 5	Exemption from Course work: 5.1 Any candidate having completed his/ her M. Tech/ M. Phil degree in relevant field within the preceding three years and has done the course work required for the proposed work may be exempted from course work of nine credits which is not compulsory. However, such a person shall be required to give at least one seminar on the areas related to his/her area of research prior to the submission

	in another institute for a research programme within the preceding two years and if the courses done are relevant to the proposed work, he/ she may be allowed to transfer the credit.		of the Plan of research. 5.2 Candidates who have carried out course works of equivalent standard in another institute for a research programme within the preceding two years and if the courses done are relevant to the proposed work, he/ she may be allowed to transfer the credit.
Sec-IV 6	<p>PhD Registration</p> <p>6.1 On successful completion of the course work a Comprehensive Examination on the subject area of research shall be taken. The scholar shall be intimated about the date of the comprehensive examination, along with a syllabus, at least two months in advance. The scholar shall be allowed to register only after he/ she is able to clear the comprehensive examination in no more than two attempts.</p> <p>6.2 On clearing the Comprehensive Examination a candidate shall submit a Plan of Research forwarded by the supervisor to the DRC/CRC, which shall, then, arrange a seminar for presentation of the plan by the scholar.</p> <p>6.3 The Plan shall indicate the area/ issues/ problems to be taken up, refer to previous research/ literature on the same/ similar/ related areas/ issues/ problems, mention methodology/ types of experiments/ field works/ approaches to be adopted, expected outcome and relevance/ significance of the research.</p> <p>6.4 The DRC/ CRC is expected to assess the feasibility of the Plan and the capability/ preparedness of the scholar for carrying out research and recommend (Form-VII) one of the following to the RC</p> <p>a) that in view of the suitability/ feasibility of the Plan and the capability/ preparedness of the</p>	Sec-IV 6	<p>PhD Registration</p> <p>6.1 Pre-requisites for registration:</p> <ol style="list-style-type: none"> Successful completion of all course works with minimum 7 CGPA. Successfully clearing the comprehensive examination with minimum 60% of marks. <p>6.2 On successful completion of the course work a Comprehensive Examination on all the courses (total eighteen credits) which are taken during course work, shall be taken. The scholar shall be intimated about the date of the comprehensive examination, at least two months in advance. The scholar shall be allowed to make registration seminar only after he/ she is able to clear the comprehensive examination with 60% marks in no more than two attempts. If a candidate fails to clear comprehensive exam within two attempts, he/she has to quit from the PhD programme.</p> <p>6.3 On clearing the Comprehensive Examination a candidate shall submit a Plan of Research forwarded by the supervisor to the DRC/CRC, which shall, then, arrange a seminar for presentation of the plan by the scholar. An open notice to be issued by the concerned HoD prior to 7-days before the registration seminar. The day of registration seminar</p>

	<p>scholar he/ she may be allowed to go ahead with research work;</p> <p>b) that the scholar may be asked to modify his/ her plan incorporating the suggestions made and resubmit it within a period of time specified by the DRC/ CRC.</p> <p>6.5 In order to continue research the scholar shall renew his/her studentship by completing necessary formalities in each semester.</p>		<p>will be considered as registration date for the scholar after due approval.</p> <p>6.4 The Plan shall indicate the area/ issues/ problems to be taken up, refer to previous research/ literature on the same/ similar/ related areas/ issues/ problems, mention methodology/ types of experiments/ field works/ approaches to be adopted, expected outcome and relevance/ significance of the research.</p> <p>6.5 The Doctoral committee (DC) assess the feasibility of the Plan and the capability/ preparedness of the scholar for carrying out research and recommend (Form-VII) one of the following to the DRC</p> <p>a) that in view of the suitability/ feasibility of the Plan and the capability/ preparedness of the scholar he/ she may be allowed for PhD registration;</p> <p>b) that the scholar may be asked to modify his/ her plan incorporating the suggestions made and resubmit it within a period of time specified by the DC.</p> <p>6.6 In order to continue research the scholar shall renew his/her studentship by completing necessary formalities in each semester. Progress seminar to be conducted in each semester and Enhancement seminar after 2 years from the date of enrolment.</p>						
Sec-IV 8	<p>8.1 The period of candidature (from the date of admission) of Ph. D. Scholars shall be as follows:</p> <table><tr><th>Category</th><th>Minimum period for submission</th><th>Maximum period for submission</th></tr><tr><td>Full time candidates with course</td><td>Six semesters</td><td>Ten semesters</td></tr></table>	Category	Minimum period for submission	Maximum period for submission	Full time candidates with course	Six semesters	Ten semesters	Sec-IV 8	<p>8.1 The maximum period of candidature shall be 8 years from the date of admission/enrolment. Minimum time for thesis submission for full time candidate is 2 years from the date of registration. Whereas minimum time for a candidate who shall convert from full time to part time will be shifted by the</p>
Category	Minimum period for submission	Maximum period for submission							
Full time candidates with course	Six semesters	Ten semesters							

	<table border="1"> <tr> <td>work</td><td></td><td></td></tr> <tr> <td>Full time candidates with full waiver of course work</td><td>Four semesters</td><td>Ten semesters</td></tr> <tr> <td>Others</td><td>Eight semesters</td><td>Twelve semesters</td></tr> </table> <p>8.2 A candidate may apply for extension of the period for submission of the thesis, only once, for a maximum of two semesters in the prescribed format (Form IX) to the chairman DRC/CRC during the tenth semester in case of a full time scholar and the twelfth semester in case of a part time scholar. The recommendation of the DRC/CRC shall be sent to the RC for approval.</p>	work			Full time candidates with full waiver of course work	Four semesters	Ten semesters	Others	Eight semesters	Twelve semesters	<p>number of days that was left on the day of conversion. Minimum time for thesis submission for full/part time scholar will be shifted by two times of cumulative unauthorized leave taken by a scholar.</p> <p>8.2 A candidate may apply for extension of the period for submission of the thesis, only once, for a maximum of one year in the prescribed format (Form IX) to the chairman DRC/CRC during the eighth year and at least six months before completion of eight year. The recommendation of the DRC/CRC shall be sent to the RC for approval.</p>
work											
Full time candidates with full waiver of course work	Four semesters	Ten semesters									
Others	Eight semesters	Twelve semesters									
Sec-IV 9	<p>Change of category of candidature</p> <p>If a scholar desires to change the category of his/ her candidature, he/ she shall apply (Form X) to the chairman, Senate through the DRC/CRC and his/ her supervisor at any time after the completion of the course work.</p>	<p>Sec-IV 9</p> <p>Change of category of candidature</p> <p>9.1 If a scholar desires to change the category of his/ her candidature, he/ she shall apply (Form X) to the chairman, Senate through the DRC/CRC and his/ her supervisor at any time after the completion of the course work.</p> <p>The grant of withdrawal and permission to continue as a part time student will be based on the following conditions:</p> <p>(i) The candidate is going for a superior job which he/she aspires to join after completion of the present programme and on the basis of the current programme.</p> <p>(ii) There must be someone in the candidate's place of work who can become the local supervisor (co-supervisor) or else the candidate's work place should be in the proximity of the Institute so that there can be regular academic interactions between the candidate and the supervisor</p> <p>(iii) The candidate gets adequate facility in his/her work new place</p>									

			<p>to continue the remaining work and the facilities available must be at the same level or higher. This needs to be certified by the supervisor concerned at NIT Meghalaya and the co-supervisor at the place of the work.</p> <p>(iv) Based on the application and prayer of the candidate, the Senate of the Institute through its collective wisdom may permit the conversion.</p> <p>(v) Till the permission is obtained from the Senate, the student must continue as a regular student.</p> <p>9.2 If any project tenure is completed before the completion of PhD work of the project fellow who associated with the project, then the project fellow will be converted to Institute scholar and can be financially supported by the Institute for a maximum period of one year.</p>
Sec-IV 10	<p>Approval of the title of the thesis and pre-submission seminar</p> <p>10.1 A scholar shall finalize the title of his/ her thesis at the time of presentation of pre-submission seminar and get it approved by the DRC/CRC.</p> <p>10.2 At least one month before the submission of the thesis the scholar shall submit a Synopsis in the prescribed format (Form XI) in not more than 1500 words – all in triplicates (hard copy as well as soft copy) – to the DRC through the Supervisor and give a pre-submission seminar on the research carried out by him/ her. The DC and the DRC/CRC shall go through the synopsis and suggest changes, if any, in the final form of the thesis. The scholar shall submit the synopsis through the DRC/CRC to the Dean (Academic) for necessary action.</p>	Sec-IV 10	<p>Approval of the title of the thesis and pre-submission seminar</p> <p>10.1 A scholar shall finalize the title of his/ her thesis at the time of presentation of pre-submission seminar and get it approved by the DRC/CRC.</p> <p>10.2 At least 15 days before the submission of the thesis the scholar shall submit a Synopsis in the prescribed format (Form XI) in not more than 1500 words – all in triplicates (hard copy as well as soft copy) and draft thesis – to the DRC through the Supervisor and give a pre-submission seminar on the research carried out by him/ her. The DC and the DRC/CRC shall go through the synopsis and thesis and suggest changes, if any, in the final form of the thesis. The scholar shall submit the synopsis and draft thesis through the DRC/CRC to the Dean (Academic) for necessary action.</p> <p>10.3 To expedite the evaluation</p>

			process, Supervisor can submit list of examiners during pre-submission.
Sec-IV 11	Submission of thesis A Ph. D scholar may submit his/ her thesis (along with Form XII) within the stipulated period but not later than six months from the date of pre-submission seminar provided he/ she fulfils all requisites for Ph. D thesis submission with at least one peer-reviewed/ refereed publication including book chapters/ articles in research journals.	Sec-IV 11	Submission of thesis 11.1. A Ph. D scholar may submit his/ her thesis (along with Form XII) within the stipulated period but not later than two months from the date of pre-submission seminar provided he/ she fulfils all requisites for Ph. D thesis submission with at least one peer-reviewed/ refereed publication including book chapters/ articles in research journals.
Sec-IV 12.2	The chairperson of the Senate will approve the Board of Examiners for Thesis (BET) as stated in Definitions with the supervisor(s) as the internal examiner(s) and two examiners chosen from the panel as external examiners, one of which should preferably from abroad.	Sec-IV 12.2	The chairperson of the Senate will approve the Board of Examiners for Thesis (BET) as stated in Definitions with the supervisor(s) as the internal examiner(s) and two examiners chosen from the panel as external examiners, one of which should be from abroad and preferably be of non-Indian origin..
Sec-IV 12.7	The following guidelines shall be adhered to in case of any amendment(s) are made to a thesis: a) The Dean (Academic) shall send copies of the examiners' reports to the supervisor/ co-supervisor for advising the scholar to incorporate necessary corrections. b) A scholar is not permitted to make any change to the thesis not specified by the examiners (or implied in their reports). c) Corrections and modifications to the thesis shall be incorporated in the text by changing the pages/ tables/ figures wherever necessary with a separate sheet indicating the corrections made with the page numbers, within two months. d) If the scholar needs more time to complete the modifications, extension of time may be sought by submitting	Sec-IV 12.7	The following guidelines shall be adhered to in case of any amendment(s) are made to a thesis: a) The Dean (Academic) shall send copies of the examiners' reports to the supervisor/ co-supervisor for advising the scholar to incorporate necessary corrections. All the changes to be certified by the supervisor and DC. b) A scholar is not permitted to make any change to the thesis not specified by the examiners (or implied in their reports). c) Corrections and modifications to the thesis shall be incorporated in the text by changing the pages/ tables/ figures wherever necessary with a separate sheet indicating the corrections made with the page numbers, within two months.

	an application to the chairperson, Senate through the chairperson, DRC/CRC.		d) If the scholar needs more time to complete the modifications, extension of time may be sought by submitting an application to the chairperson, Senate through the chairperson, DRC/CRC.
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Annex-IV**Proposal for amendment in Ordinance-VI: on Scholarship**

Existing		Proposed	
Clause No	Description	Clause No	Description
Sec B-3	<p>PhD Scholarship</p> <p>The scholar shall be eligible for 30 days of leave in a year (with a maximum of 15 days of leave is permitted in a semester) with the approval of the head of the department at the recommendation of his/ her faculty adviser. To avail leave the scholar will be required to apply in advance in prescribed form. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. A maximum of 5 days of such leave is allowed to avail at a stretch if a student having any teaching assignment.</p> <p>The maximum number of carried-over leave, from one completed year to another, is 15 days. However, a student can avail accumulated leave up to a maximum of 30 days at a time in a year.</p> <p>The Head of the Department (HoD) shall sanction leave on recommendation of the Supervisor/ Faculty Advisor.</p>	Sec B-3	<p>The scholar shall be eligible for 20 days of leave in a year with the approval of the head of the department at the recommendation of his/ her faculty adviser. To avail leave the scholar will be required to apply in advance in prescribed form. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. A maximum of 5 days of such leave is allowed to avail at a stretch if a student having any teaching assignment.</p> <p>Scholar can avail medical leave. Medical leave will be considered on case to case basis.</p> <p>If any unauthorized leave taken by scholar then, minimum time for submission will be as tabulated in PhD regulation (Sec IV-8.1) + (no of non-entitled leave X 2) days.</p> <p>The Head of the Department (HoD) shall sanction leave on recommendation of the Supervisor/ Faculty Advisor.</p>
Sec B-4	<p>Academic leave may be permitted to students to attend conferences/ seminars/ workshops/ trainings/ short-term courses/ field trips for data collection, survey etc. A maximum of 20 days of academic leave is permissible in a calendar year.</p> <p>Academic leave of more than 60 days but up to a maximum of 12 months is also permissible to carry out part of the research in another institute/ R&D Lab/ industry in India or abroad. For sanction of such a leave, a letter of consent from the host organization shall be required.</p> <p>Head of the Department (HoD)</p>	Sec B-4	<p>Academic leave may be permitted to students to attend conferences/ seminars/ workshops/ trainings/ short-term courses/ field trips for data collection, survey etc. A maximum of 20 days of academic leave is permissible in a calendar year.</p> <p>Academic leave of more than 60 days but up to a maximum of 12 months is also permissible to carry out part of the research in another institute/ R&D Lab/ industry in India or abroad. For sanction of such a leave, a letter of consent from the host organization shall be required.</p> <p>Head of the Department (HoD) sanctions leave on recommendation of</p>

	sanctions leave on recommendation of the Supervisor/ Faculty Advisor.		the Supervisor/ Faculty Advisor.
Sec B-5	Lady scholars shall be eligible for maternity leave up to six months once during the Ph D programme. The Head of the Department/Centre sanctions maternity/ paternity leave on recommendation of the Supervisor and submission of a certificate from a Recognized Medical Officer /Medical Officer of the institute.	Sec B-5	Lady scholars shall be eligible for maternity leave up to six months once during the PhD programme. The Head of the Institute sanctions maternity/ paternity leave on recommendation of the Head of the Department/Centre and submission of a certificate from a Recognized Medical Officer /Medical Officer of the institute.
Sec C-3	<p>M.Tech Scholarship</p> <p>The scholar shall be eligible for 30 days of leave in a year (with a maximum of 15 days of leave is permitted in a semester) with the approval of the head of the department at the recommendation of his/ her faculty adviser. To avail leave the scholar will be required to apply in advance in prescribed form. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. A maximum of 5 days of such leave is allowed to avail at a stretch if a student having any teaching assignment.</p> <p>The maximum number of days of carried-over leave, from one completed year to another, is 15 days. However, a student can avail accumulated leave up to a maximum of 30 days at a time in a year. The Head of the Department (HoD) shall sanction leave on recommendation of the Supervisor/Faculty Advisor.</p>	Sec C-3	<p>M.Tech Scholarship</p> <p>The student shall be eligible for 20 days of leave in a year with the approval of the head of the department at the recommendation of his/ her faculty adviser. To avail leave the scholar will be required to apply in advance in prescribed form. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. A maximum of 5 days of such leave is allowed to avail at a stretch if a student having any teaching assignment.</p> <p>Student can avail medical leave. Medical leave will be considered on case to case basis.</p> <p>The Head of the Department (HoD) shall sanction leave on recommendation of the Supervisor/ Faculty Advisor</p>

Sd/-

Dr. Anup Dandapat
Dean (Academic)