

**THE XXXIV<sup>th</sup> MEETING  
OF  
SENATE**

**NATIONAL INSTITUTE OF TECHNOLOGY  
MEGHALAYA**

**MINUTES**

*Day: Monday*

*Date: 11.09.2023*

*Time: 3:00 PM*

*Venue: Conference Room*

*Mode: Hybrid Mode (online and offline)*

## NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

### Minutes of the XXXIV<sup>th</sup> Meeting of the Senate held on 11.09.2023

The XXXIV<sup>th</sup> Meeting of the Senate of NIT Meghalaya was held on 11<sup>th</sup> Sep 2023, at the Conference Room of the Institute through hybrid mode from 3:00 PM onwards. The following members attended the meeting:

1. Prof. P. Mahanta, Director, NIT Meghalaya	- Chairman
2. Prof. N.C. Shivaprakash, IISC Bangalore	- Member
3. Prof. N. Tripathy, IIM, Shillong	- Member
4. Prof. M. Panda, NIT Rourkela	- Member
5. Prof. H. C. Das, Professor, NIT Meghalaya	- Member
6. Prof. A. Bhattacharjee, Professor, NIT Meghalaya	- Member
7. Prof. G. Panda, Professor, NIT Meghalaya	- Member
8. Dr. D.K. Sarma, Dean (P&D), NIT Meghalaya	- Spl. Invitee
9. Dr. S. Mukherjee, Dean (AA), NIT Meghalaya	- Spl. Invitee
10. Dr. D. S. Roy, Dean (R&C), NIT Meghalaya	- Spl. Invitee
11. Dr. P. S. Mangang, HoD, HS, NIT Meghalaya	- Spl. Invitee
12. Dr. S. Thokchom, HoD CS, NIT Meghalaya	- Spl. Invitee
13. Dr. P. Saha, HoD, EC, NIT Meghalaya	- Spl. Invitee
14. Dr. S. Affijulla, HoD, EE, NIT Meghalaya	- Spl. Invitee
15. Dr. D. Adak, HoD (i/C), CE, NIT Meghalaya	- Spl. Invitee
16. Dr. K. Debnath, HoD, ME, NIT Meghalaya	- Spl. Invitee
17. Dr. A. K. Jena, HoD, MA, NIT Meghalaya	- Spl. Invitee
18. Dr. T. Bora, HoD, PH, NIT Meghalaya	- Spl. Invitee
19. Dr. A. K. Paul, HoD, CY, NIT Meghalaya	- Spl. Invitee
20. Mrs. A. Rai, Asst. Registrar (AA), NIT Meghalaya	- Spl. Invitee
21. Dr. R. N. Mahapatra, Registrar, NIT Meghalaya	- Secretary

At the outset, the Chairman, Senate welcomed the members and the special invitees to the thirty fourth meeting of the Senate. Thereafter, the agenda items of the day were taken up.

#### **Item No.1: Confirmation of Minutes of the XXXIII<sup>rd</sup> Meeting of the Senate of NIT Meghalaya held on 07.06.2023.**

The Thirty Third meeting of the Senate of the Institute was held on 07.06.2023 in the Conference Room of the Institute through hybrid mode. The minutes of the meeting were circulated amongst the distinguished members of the Senate for their comments/observations. However, no comments were received from the members.

**R1/SENATE-XXXIV/23:** *The Senate Resolved to Confirm the minutes of the XXXIII<sup>rd</sup> Senate Meeting held on 7th June 2023.*

#### **Item No.2: Actions Taken Report on the Decision of the XXXIII<sup>rd</sup> Meeting of the Senate.**

The actions taken on the decisions of the XXXIII<sup>rd</sup> Meeting of the Senate were presented during the meeting and the Senate members noted the actions taken by the Institute.

**R2/SENATE-XXXIV/23:** *The Senate Noted and Confirmed the actions taken on the resolutions of the XXXIII<sup>rd</sup> Senate Meeting after recommending to do a brain storming on ways to improve student intake in the M.Tech Programme. It was also recommended to consider introducing Interdisciplinary/Multidisciplinary M.Tech Programmes, Integrated*

M.Tech-Ph.D Programme, etc.

## **Items for Approval**

### **Item No. 3: Proposals for Amendment in the Ordinance:**

#### **A) Ph.D & Post Doc Ordinances**

##### **1) Admission Criteria for Ph.D. Full Time:**

Master's degree in Engineering/ Science/ Technology/ Humanities and Social Sciences/ Management Sciences/ or Master's degree in the allied subjects with consistently good academic record and a minimum of first class (if class is not mentioned in the transcript/certificate then minimum 60% marks or 6.5 CGPA) in the Master's degree. Candidates with B.E./ B. Tech. with an aggregate of 75% marks or equivalent GPA with valid GATE score will also be eligible. Candidates applying for the Programme must clear the Institute entrance exam and interview for admission.

**R3(A-1)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the admission criteria for Ph.D. Full Time as proposed.

##### **2) Minimum Publication Requirements for Pre-Submission:**

A Ph. D scholar may submit his/ her thesis (along with Form IX) within the stipulated period but not later than two months from the date of pre-submission seminar provided he/she fulfils all requisites and critical dates from point D.7, for Ph. D thesis with a substantial work minimum two (2) accepted/published papers in a refereed journal (Scopus/SCI/SCIE/SSCI/AHCI) as first author, out of which at least one (1) should be a SCI/SCIE (SSCI/AHCI for Humanities and Social Sciences) journal as first author. This amendment shall be applicable from Autumn 2023 admission onwards.

**R3(A-2)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the minimum publication requirements for pre-submission as proposed.

##### **3) Minimum Publication Requirements for Early Submission:**

Accepted/Published at least three (3) papers in referred journal (Scopus/SCI/SSCI/AHCI) as first author of which, at least two (2) are in referred SCI/SCIE (SSCI/AHCI for Humanities and Social Sciences) journals as first author, and one (1) in Q1 journal as first author. This amendment shall be applicable from Autumn 2022 admission onwards.

**R3(A-3)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the minimum publication requirements for Early Submission as proposed.

##### **4) Eligibility for Applying Under Institute Post-Doctoral Fellowship (IPDF):**

Ph.D students, who have submitted their thesis, are also eligible to apply. If selected, he/ she will not be offered any fellowship amount till the award of Ph.D degree. However, they have to submit the provisional/degree certificate within 1 month from the date of appointment as an Institute PDF failing which, the appointment will stand cancelled.

**R3(A-4)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the eligibility for Institute Post-Doctoral Fellowship (IPDF) as proposed.

### **5) Proposal for Institute Fellowship to Ph.D Scholars under Sponsored Projects:**

It was proposed to provide Institute Scholarship to the eligible candidates under Sponsored Projects for minimum 2 years after completion of the project. However, total fellowship/scholarship received should not exceed 5 years.

- Project Fellows from Science/Humanities Disciplines must be GATE/NET qualified in order to be eligible for receiving the Institute scholarship.
- If the project fellow perusing full time Ph. D Programme is not GATE/NET qualified at the time the project completes, he/she may apply for Institute Scholarship after qualifying the same during the period of the Programme. However, he/she will receive the Institute scholarship only for the approved period of years or till thesis submission, whichever is earlier.

**R3(A-5)/SENATE-XXXIV/23:** *The Senate Resolved to Approve the above mentioned proposal after recommending that normal admission procedure, as followed by the other candidates, must be applicable for the Project Fellows willing to enroll into the Ph.D Programme of the Institute.*

### **6) Monitoring the Progress of Ph.D. Scholars:**

In order to continue research, the scholar shall renew his/her studentship by completing the necessary formalities in each semester. Progress seminar shall be conducted **at least once** in a year during the Spring Session and shall be evaluated as per prescribed format (Form-IV D).

- Ph. D. scholars shall submit a progress report in the prescribed format before the DC and subsequently shall have to present a progress seminar before the DC members within the date to be notified by the Academic Section.
- The DRC shall send the reports to the Academic Section for appraisal of the Dean (AA) with anyone of the following recommendations: a) Allowed to enroll in the next semester and continue research; b) allowed to enroll and continue research but with suggestions for improvement; c) As the performance is very poor advised to discontinue.

**R3(A-6)/SENATE-XXXIV/23:** *The Senate Resolved to Approve monitoring the progress of Ph.D. scholars as proposed above and recommended that it should be applicable to all the scholars with effect from the date of notifying.*

### **7) Formation of Doctoral Committee:**

The formation of the DC shall be initiated by the Supervisor(s) to monitor the progress of each of the research scholars.

#### **The DC shall consist of the following:**

- i. Supervisor, Convener

#### **Members Nominated by Supervisor:**

- ii. Co-Supervisor\*, Member-1
- iii. A faculty member (otherwise eligible to be supervisor, of the concerned research group of the Department/Centre), Member- 2
- iv. One faculty member (otherwise eligible to be supervisor, of the concerned Department/Centre), Member- 3
- v. One faculty member, from other Department/Centre or from the other Institute of repute, Member- 4

**Members to be nominated by Dean (AA):**

vi. A Senior faculty member, Chairman

\* For Full Time Ph.D. scholars, if needed, a Co-Supervisor may be allotted as per the guidelines mentioned in “Recognition of Supervisor/Co-Supervisor” in the Ordinance. External Co-Supervisor needs to be from recognized universities/ institutes/ organizations/industries.

**R3(A-7)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the formation of Doctoral Committee as proposed and further **Authorized** the Chairman Senate to take the call on appointment of Co-Supervisors, on need basis.

**B) Evaluation Procedure across UG, PG & Ph.D Programmes:**

The evaluation process shall be of continuous nature as follows:

- i. Complete evaluation and award of grades shall normally be done by the faculty members teaching the course.
- ii. Under special circumstances, the Competent Authority will have the discretion to appoint any other teacher or external examiner for setting question papers and/or evaluating the answer scripts.
- iii. The evaluation scheme shall be for **Total Marks: 200**

1) Internal Assessments*	a) Class Tests (Min 2)	30 Marks
	b) Assignments/ Surprise Tests	20 Marks
2) Mid Term Exam		50 Marks
3) End Term Exam		100 Marks

Relative grading system to be followed.

**Note:** It was further proposed to conduct one special exam for the final year students during Autumn 2023, so that the students who could not clear few courses due to the prevailing criteria (must secure minimum 70 marks (35%) out of the total 200 marks and minimum 30 marks out of 100 marks in the End Term Exam) may get a chance to clear the courses and avail placement opportunities.

**R3(B)/SENATE-XXXIV/23:** The Senate **Recommended to form a Committee** to evaluate the existing Evaluation Scheme and present the updated proposal in the next Senate Meeting. However, the Senate **Approved** the proposal of conducting one special exam for the final year students during Autumn 2023, in order to give them a chance to clear the courses and avail placement opportunities.

**Item No. 4: Changes in Curriculum/Courses**

a) EE & ME departments jointly prepared an integrated Lab Course for 1 Credit (under Value Added Courses (VAC) to be offered to the 2<sup>nd</sup> Semester UG students w.e.f. AY 2023-24 as a Do-it-yourself (DIY) course. The course code would be **VA102**. The syllabus of VA102 and revised curriculum of 1<sup>st</sup> year were presented before the Senate.

**R4(a)/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the course and **Recommended** to replace the title of the course with a better alternative.

b) It was proposed to revise the syllabus of an existing open elective course, ME272, “Product Design and Development” to make it a blended special course for all 4<sup>th</sup> semester students, where the students will learn theory of design and prototype, as well as hands-on

experience in the practical. The course credit will be converted from 2-0-0:2 to 1-0-2:2. The evaluation of the course will be same as of a lab course. Upon approval of Senate, the Engineering Departments will be asked to prepare department specific syllabi for the same and place before the Senate for approval. The revised course will be effective for AY23-24 batch.

**R4(b)/SENATE-XXXIV/23:** *The Senate **Recommended** to place the matter in the next Senate Meeting after placing the same in the APC.*

c) It was proposed that B. Tech students should attend two Summer Internships, preferably in the industry. Once after 4<sup>th</sup> Semester and the other after 6<sup>th</sup> Semester. Both shall be evaluated at the beginning of the 7<sup>th</sup> Semester.

**R4(c)/SENATE-XXXIV/23:** *The Senate **Resolved to Approve** by recommending that the Summer Internships should be of at least eight weeks, which can be split over two summer breaks with at least four weeks each. It was also recommended to increase the credit assigned to two (2) credits from existing one (1) credit.*

d) It was proposed that M. Sc students should attend one Summer Internship after 2<sup>nd</sup> Semester. It will be evaluated at the beginning of the 3<sup>rd</sup> Semester with a credit structure of (0-0-0:1). Revised Curriculum Structure was presented.

**R4(d)/SENATE-XXXIV/23:** *The Senate **Recommended** that instead of mandatory Summer Internship, the Science Departments may advise the students to opt for internships/outreach activities during the summer break.*

e) The DAC of CY Dept. proposed to introduce two elective courses: “Machine Learning in Chemistry” and “Bioanalytic Techniques”. The Syllabi were are presented during the meeting.

**R4(e)/SENATE-XXXIV/23:** *The Senate **Recommended** to revise the syllabus for “Machine Learning in Chemistry” by incorporating some applications to chemistry-oriented topics while approving the proposal to introduce “Bioanalytic Techniques” as an elective course.*

f) The DAC of EC Dept. has proposed to change the name of the course, EC 415, from existing “Wireless Communication” to “Wireless Communication Systems: 5G & Beyond” while the course code and the credit remains the same (EC 415, 3-0-0:3).

**R4(f)/SENATE-XXXIV/23:** *The Senate **Resolved to Approve** the change in the Title of the course to “Wireless Communication Systems: 5G & Beyond” as proposed.*

## **Item No. 5: Minutes of XXIXth APC Meeting**

The XXIXth Meeting of the Academic Programmes Committee was held on 5<sup>th</sup> Sep 2023 to discuss matters related to academic affairs. The minutes of the meeting was presented during the meeting:

**R5/SENATE-XXXIV/23:** *The Senate **Recommended** to incorporate the suggestions given by the Senate in the agenda items pertaining to the APC minutes.*

## **Item No. 6: Grade Change Appeals, Spring 2023**

Twenty-six applications were received from the UG students for Grade Change and the same were forwarded to the respective departments for recommendations which were further analyzed by the UGPEC on 28<sup>th</sup> Aug 2023. None of the students were recommended for grade change after evaluation by the respective course instructors and the reasons were

found to be satisfactory to the UGPEC members too. A report on the same was presented to the Senate.

**R6/SENATE-XXXIV/23:** *The Senate Resolved to Approve the decisions made by the respective departments and the UGPEC as proposed.*

#### **Item No. 7: Conversion of Category to Part Time in Ph.D**

The Senate was briefed about an application received from a full time scholar, Mr. Ajay Anand, Roll No- P22EE006, to convert to Part Time Category as he has been selected as an Assistant Professor in Bihar Government Engineering through Bihar Public Service Commission. The Senate discussed on the matter, but as the scholar had not completed one year from the date of Ph. D Registration as required by the norms, the appeal of the scholar was hence not accepted.

**R7/SENATE-XXXIV/23:** *The Senate Resolved not to Approve the request made by the scholar to convert to part time scholar as he has not fulfilled the criteria for conversion as per rules.*

#### **Item No. 8: Appeal to Re-Appear 1st Semester during Autumn 2023**

The Senate was briefed about an application received from a B. Tech student, Mr. Bhaskar Das, Roll No: B22EE003, requesting to re-appear in the 1<sup>st</sup> Semester during Autumn 2023, as he suffered from medical issues. The student also did not register for the second semester during Spring 2023. A medical certificate has been submitted along with the application.

**R8/SENATE-XXXIV/23:** *The Senate Resolved to Approve the student to register as a special case and further recommended to allow registration for Autumn 2023 without paying the fees for Spring 2023.*

#### **Item No. 9: List of B. Tech, M. Tech, M. Sc and Ph. D students qualifying for the award of degree during the 10th Convocation of the Institute.**

The Senate was appraised that a total of 147 B.Tech students, 26 M. Tech students and 31 M.Sc students have completed the requirements of the Programme during June-July, 2023. Further, 27 scholars (numbers are likely to increase before the Convocation) are also eligible for the award of Ph.D degree in the upcoming 10<sup>th</sup> Convocation of the Institute.

**R9/SENATE-XXXIV/23:** *The Senate Resolved to Recommend the list of degree recipients worthy of receiving the degree in the upcoming 10<sup>th</sup> Convocation of the Institute, to the BoG for approval.*

#### **Item No.10: Recommendation of Senate Nominees to BoG**

The Senate was briefed that the tenure of the present Senate Nominees to the Board of Governors, viz, Prof. H. C. Das and Assoc. Professor, Dr. G.K. Dutta is expiring on 28.09.2023. In view of this, a poll was conducted to nominate the two new members and Professor, Ayon Bhattacharjee from Physics Department and Assoc. Professor, Dr. D. K. Sarma have been nominated as Senate Nominees to the BoG.

**R10/SENATE-XXXIV/23:** *The Senate Resolved to Approve Professor, Ayon Bhattacharjee and Assoc. Professor, Dr. D. K. Sarma as Senate Nominees to the BoG after the tenure of the current members get over on 28<sup>th</sup> Sep, 2023.*

### Item No.11: Nominations of External Senate Members

The Senate was briefed about the existing External Senate Members of the Institute and considering the long tenures served by Prof. N. C. Shivaprakash and Prof. Naliniprava Tripathy, two new Senate Members were proposed for new appointment for a period of 3 years from the date of appointment. Both of the existing Senate members were thanked for their immense contributions to the Institute.

Sl. No	Existing External Senate Members	Tenure	From	Re-Appointed On	New Nomination
1	Prof. N. C. Shivaprakash (Retd.), Dept. of Instrumentation and Applied Physics, IISc Bangalore	3 years	6th Oct, 2017 to 5th Oct 2020	20th Nov 2020 until further order.	Prof. Saurabh Basu, Dept. of Physics, IIT Guwahati
2	Prof. Naliniprava Tripathy, Finance & Accounting, Dean Research, NI&ER, IIM Shillong	3 Years	5th Mar, 2019 to 4th Mar, 2022	8th March 2022 until further order.	Prof. Mousumi Guha Banerjee, Director, English and Foreign Languages University, Shillong Campus
3	Prof. Mahabir Panda, CE Dept, NIT Rourkela	Not Mentioned	3rd Dec, 2021	NA	-----

**R11/SENATE-XXXIV/23:** The Senate **Resolved to Approve** the appointment of Prof. Saurabh Basu and Prof. Mousumi Guha Banerjee as the new external Senate members of the Institute for a period of 3 years from the date of appointment.

### Item No.12: Convocation 2023

The Senate was appraised that the 10<sup>th</sup> Convocation of the Institute which is scheduled to be held on 7<sup>th</sup> October, 2023 will have to be postponed due to unavoidable circumstances. The Senate was also requested to nominate the names of eminent personalities to be invited as the Chief Guest and Guest of Honor.

**R12/SENATE-XXXIV/23:** The Senate **Resolved to Authorize** the Chairman, Senate to announce new date for the 10<sup>th</sup> Convocation as well as decide on the Chief Guest and Guest of Honor.

### Items for Ratification:

#### Item No. 13: Result Declaration for Spring 2023 (UG-2nd Sem), Summer Term and Special Exam.

**R13/SENATE-XXXIV/23:** The Senate **Resolved to Ratify** the Result Declaration for Spring 2023 (UG-2nd Semester), Summer Term and Special Exam during July 2023.



#### **Item No. 14: Academic Calendars for Autumn 2023**

The following Academic Calendars for Autumn 2023, approved by the Chairman Senate were presented before the Senate:

- 1) For all Students (except 1<sup>st</sup> Year UG & PG)
- 2) For 1<sup>st</sup> Year UG & PG

**R14/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the Academic Calendars for Autumn 2023.*

#### **Item No.15: Branch Change 2023**

The Senate was briefed about receiving 28 applications from the 1<sup>st</sup> Year UG students for Branch Change out of which 25 applications were found to be eligible. The Branch Change Selection Committee scrutinized the applications as per norms and recommended 14 students who were approved by the Chairman, Senate for Branch Change during Autumn 2023.

**R15/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the Branch Change list for Autumn 2023.*

#### **Item No. 16: Long Term Internship**

The Senate was briefed about a B.Tech student, Mr. Vikrant Singh, bearing Roll No. B19CS031, who was offered a long term internship of 6 months with effect from 9th Jan 2023 to 30th June 2023 in Autodesk India Private Limited, Pune. As the student fulfilled the criteria as per norms, he was approved by the Chairman Senate for the Long Term Internship.

**R16/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the long term internship allowed to the student from 9th Jan 2023 to 30th June 2023 in Autodesk India Private Limited, Pune.*

#### **Item No. 17: Special Cases Pertaining to Summer Term 2023:**

The Senate was appraised about three Special cases pertaining to Summer Term 2023 (lab courses) which were approved by the Chairman Senate.

**R17/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the special cases pertaining to Summer Term 2023.*

#### **Item No. 18: Request to Carry Out Experimental Work in IIT Bombay for 6 Months:**

The Senate was informed about a scholar, Ms. Menuvolu Tetso, Roll No. P21EC008, from EC Dept. who has been allowed to conduct experimental work (fabrication and testing of MEMs Sensor) at IIT Bombay under INUP Program for a period of 6 months from 1<sup>st</sup> of Oct 2023 to 31<sup>st</sup> of March 2024 without any financial assistance from INUP.

**R18/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the request of the student to conduct experimental work at IIT Bombay for 6 months. As the student will not receive any financial assistance from INUP, the student may continue to receive the monthly Institute Scholarship as per MoE norms.*

### **Item No. 19: Change of Category from Full Time to Part Time**

The Senate was briefed about permission granted for conversion from Part Time by Full Time to a scholar, P. Nimalipuri (P18ME004), under the Supervision of Prof. H. C. Das, NIT Meghalaya and Co-Supervision of Dr. M. K. Pradhan, Deputy Director (Safety), Directorate of Factories & Boilers, Govt. of Odhisa, upon completion of his 5 years in the Ph. D Programme on 19-07-2023.

**R19/SENATE-XXXIV/23:** *The Senate Resolved to Ratify the change of category of the scholar P. Nimalipuri (P18ME004) from Full Time to Part Time.*

### **Reporting Items:**

#### **Item No. 20: Short Term Course Offered by CE Department**

The Senate was informed in detail about a short-term course titled "Recent Advances in Civil Infrastructure Design and Construction" was organized by the Civil Engineering Department at the National Institute of Technology (NIT), Meghalaya, from 7 to 11th august.

#### **Item No. 21: 5th IEEE International Conference on Energy, Power and Environment organized by EE Dept.**

The Senate was briefed in depth about The 5th IEEE International Conference on Energy, Power and Environment was organized by the Department of Electrical Engineering during June 15-17, 2023. ICEPE 2023 was technically co-sponsored by IEEE Industry Applications Society, IEEE Kolkata, IEEE Guwahati Sub-Section and others.

#### **Item No. 22: Workshop on Advanced Control, Communication & Protection of Sustainable Power & Energy Systems organized by EE Dept.**

The Senate was briefed about the workshop on Advanced Control, Communication & Protection of Sustainable Power & Energy Systems organized by EE Dept. which provided an opportunity to the practicing engineers, academicians and researchers to meet in a common forum to discuss various issues and its future direction in the field of sustainable energy developments. The different tracks in the symposium mainly focused on sustainable energy, power technologies and computing.

**R(20-22)/SENATE-XXXIV/23:** *The Senate Noted and Appreciated the reporting items mentioned above*

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

Sd/-

Registrar and Secretary (i/c)