

Minutes OF

49th SENATE MEETING

held on

23rd March 2022

at 11:00 A.M.



**मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान
भोपाल (मध्य प्रदेश)**

**MAULANA AZAD
NATIONAL INSTITUTE OF TECHNOLOGY
BHOPAL (M.P.)**

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SECTION - 3

Any Other Point



The 49th Senate Meeting was conducted on 23rd March 2022 at 11:00 AM in the Institute Committee Room (Online as well as Offline mode). The following members were present in the meeting:

- | | |
|------------------------------|---------------------------------|
| 1. Prof. N. S. Raghuwanshi | Director and Chairman Senate |
| 2. Mr. Binod Doley | Registrar and Secretary Senate |
| 3. Prof. Vijay Borghate | External Member |
| 4. Dr. Arvind Mittal | Dean (Academic) |
| 5. Dr. Vishnu Prasad | Dean (SW) |
| 6. Dr. G. Dixit | Dean (P & D) |
| 7. Dr. Manisha Dubey | Dean (ID & IR) |
| 8. Dr. Jyoti Singhai | Dean (FW) |
| 9. Dr. R. N. Yadav | PIC (Exam) |
| 10. Dr. Sanjeev Singh | Asso. Dean (PG & Ph.D.) |
| 11. Dr. V. K. Soni | Asso. Dean (UG & DI) |
| 12. Dr. Rajesh Gupta | HOD (Mechanical) |
| 13. Dr. R. K. Dwivedi | HOD (Smart Manufacturing) |
| 14. Dr. Madhvi Shakya | HOD (MBC) |
| 15. Dr. R. K. Nema | I/C HOD (Electrical) |
| 16. Dr. Kavita Khare | HOD (ECE) |
| 17. Dr. Nilay Khare | HOD (CSE) |
| 18. Dr. P. K. Agarwal | HOD (Civil) |
| 19. Dr. Meenu Chawla | HOD (Artificial Intelligence) |
| 20. Dr. Ruchi Khare | HOD (Water Management) |
| 21. Dr. Sanjay Shrivastava | HOD (MME) |
| 22. Dr. Vijay K. Bulasara | HOD (Chemical) |
| 23. Dr. Vinay Mohan Das | HOD (Arch. & Plan) |
| 24. Dr. Fozia Z. Haque | HOD (Physics) |
| 25. Dr. Shuchi Shrivastava | HOD (Management Studies) |
| 26. Dr. Rahul M. Shrivastava | I/C HOD (BSE) |
| 27. Dr. Prashant Baredar | HOD (Energy) |
| 28. Dr. Aruna Saxena | TPO (Special Invitee) On Leave. |
| 29. Dr. S. K. Kaityar | |
| 30. Dr. Mukul Kulshreshta | |
| 31. Dr. Jyoti Sarup | |
| 32. Dr. Siraj Ahmed | |
| 33. Dr. R. M. Sarviya | |
| 34. Dr. K. R. Aharwal | |
| 35. Dr. Savita Nema | |
| 36. Dr. Arvind Rajawat | |
| 37. Dr. Madhu Shandilya | |
| 38. Dr. Amit Banerji | |
| 39. Dr. Alka Bharat | |
| 40. Dr. K. K. Dhote | |
| 41. Dr. Jagdish Singh | |
| 42. Dr. M. M. Malik | |
| 43. Dr. Rajnish Kurchania | |
| 44. Dr. Namita Shrivastava | |
| 45. Dr. Sujoy Das | |

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Section-1

Item S-49.2022-I-1.1: Confirmation of Minutes of 48th Senate Meeting held on 30th December 2021.

The minutes of 48th Senate Meeting held on 30.12.2021 were circulated to all members and no comments were received. **Annexure - 1.**
The minutes may now be taken as confirmed.

Decision: The Minutes are confirmed.

Item S-49.2022-I-1.2: Extension given to Ph.D. students beyond 5 years for six months after 48th Senate Meeting.

Annexure – 2 shows the list of students of Ph.D. program who were given extension for 06 months beyond five years after 48th Senate Meeting with due approval from Chairman Senate.

The same may be ratified.

Decision: Ratified.

Item S-49.2022-I-1.3: Ph.D. degrees awarded after 48th Senate meeting.

List of Ph.D. students awarded Ph.D. degree after 48th Senate meeting with due approval from Chairman Senate is given in **Annexure - 3.**

The same may be ratified.

Decision: Ratified.

Item S-49.2022-I-1.4: Results of UG / PG & Ph.D. Examinations held in Nov. – Dec. 2021.

All the results declared after 48th Senate Meeting are placed before Senate for ratification. **Annexure - 4.**

Decision: Ratified.

Item S-49.2022-I-1.5: Sponsoring a Gold Medal.

Prof. Arvind Mittal has given a request to sponsor a Gold Medal in the name of his father who has served this Institute for more than 32 years with the details as follows:

“Vishwanath Mittle Gold Medal for securing highest marks in the subject Basic Electrical Engineering” at first year level.

The sponsored Gold Medal is approved by Chairman Senate & will be given from the next Convocation to be held in 2022. **Annexure - 5**

The same may be ratified.

Decision: Ratified.

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Item S-49.2022-I-1.6: Change of Ph.D. Supervisor.

Request for the change of Supervisor received from Mr. Mithun Singh Ahirwar Sch. No. 203112010, duly recommended by his supervisor Dr. Vasudev Dehalwar. DRPC has recommended the change of supervisor from Dr. Vasudev Dehalwar to Dr. Vaibhav Soni. **Annexure - 6**

The same was approved by the Chairman Senate and may be ratified.

Decision: Ratified.

Section-2

Item S-49.2022-I-2.1: Minimum eligibility criteria & mapping of GATE papers in respective M. Tech./M. Plan programmes.

As per Senate decision, vide **Item No. S-48.2021-V-2.5**, a committee was constituted to finalize the minimum eligibility criteria & mapping of GATE papers in respective M. Tech./M. Plan programmes. The committee has finalized the desired details for M. Tech. programmes which is approved by Chairman Senate. **Annexure - 7**

The matter is placed before Senate for discussion and decision.

Decision: The Senate has approved the minimum eligibility criteria & mapping of GATE papers in respective M. Tech./M. Plan Programmes, as recommended. The approved list is attached.

Item S-49.2022-I-2.2: UG Scheme for batch 2021-22 onwards.

The BOAC of all the departments was conducted during the month of Feb 2022 and the UG Scheme for the batch 2021-22 onwards was finalized. **Annexure - 8.**

Matter is placed before Senate for discussion and decision.

Decision: The Schemes of the UG and Dual Degree programmes of various departments as recommended by BOAC were presented and approved by the Senate with minor modifications. The list of Group C elective is tentative & will be finalized later. The approved Schemes are attached.

Item S-49.2022-I-2.3: Proposal of New PG Courses.

In the 48th Senate Meeting, it was decided to close M. Tech. program in Chemical & one M. Tech. program of MBC and also all HOD's were requested to float new PG programs, if any.









- I. In view of the above, the department of Mechanical Engineering has proposed to close the two ongoing PG programs with less no. of intake namely "Stress & Vibration Analysis" and "Advanced Material Technology" and in lieu of this department has proposed three new programs namely:
 - a) Automation & Robotics
 - b) Computer Aided Design & Manufacturing
 - c) Industrial Engineering & Management
- II. Department of MBC has proposed to close one PG program in "Computational & Systems Biology" and proposed two new PG programs namely:
 - a) Agile Software Engineering
 - b) Quantum Computing
- III. A new PG program is proposed by Department of Humanities & Social Sciences i.e. MA in "Development Studies".
- IV. A new PG program is proposed by Department of Chemical i.e. M. Tech. in "Chemical Engineering".

The schemes of all the above programs duly recommended from BOAC is enclosed as **Annexure – 9**.

The matter is placed before Senate for discussion and decision.

Decision: Following decisions were taken by the Senate:

- (I) Senate has approved two new PG programmes (1) M Tech - Automation & Robotics and (2) M Tech - Industrial Engineering & Management in lieu of closure of the two PG programmes (1) M Tech - Stress & Vibration Analysis (2) M Tech - Advanced Material Technology, as proposed by the Dept of Mechanical Engineering.
- (II) Senate has approved the new PG programme "M Tech - Agile Software Engineering" in lieu of closure of the existing PG programme "M Tech - Computational & Systems Biology", as proposed by the Dept of Mathematics, Bio-informatics and Computer Applications.
- (III) Senate has approved the new PG programme "M.A. - Development Studies, as proposed by the Dept of Humanities and Social Sciences with a intake of 20 students & fee structure as per existing PG courses offered by the Institute.
- (IV) Senate has approved the new PG programme "M Tech - Chemical Engineering", in lieu of closure of already closed (item S-48.2021-V-2.5) PG programme "M Tech - Industrial Safety and Pollution Abatement", as proposed by the Dept of Chemical Engineering.

Senate, further, approved that: -





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- (i) The approvals of all the new Programmes and closure of existing programmes, as above, shall be effective from the academic session 2022-23, subject to the approval of BoG, MANIT, Bhopal.
- (ii) Department shall not ask for additional regular or contract faculty on account of the new Programmes approved.
- (iii) Eligible qualifying degrees and GATE paper mapping for all the new approved M Tech programmes shall be submitted by the respective Departments latest by 31st March, 2022.
- (iv) Department of Humanities and Social Sciences shall submit the admission process along with eligibility criteria for new approved M. A. - Development Studies latest by 31st March, 2022.
- (v) The detailed Scheme & Syllabus of the New course with Institute guidelines & coding pattern must be submitted on or before 31st March 2022.

Senate recommends the above to be placed in FC & BOG for consideration.

Item S-49.2022-I-2.4: Modified PG Scheme for CSE, AI, Electrical & Chemistry Department from 2022 batch onwards.

The department of CSE, AI, Electrical & Chemistry Department has proposed minor corrections in the scheme of PG program of their department from the session 2022-23 onwards duly recommended from their BOAC. Annexure – 10.

The matter is placed before Senate for discussion and decision.

Decision: The PG Scheme of the Departments / centres, CSE, AI, Electrical & Chemistry Department as recommended by BOAC are approved by the Senate. The approved Scheme is attached.

Item S-49.2022-I-2.5: Revised scheme of MBA from 2022 batch onwards.

The revised Scheme of MBA from 2022 batch onwards incorporating the concept of dual specialization duly recommended by BOAC is placed before Senate for approval. Annexure – 11.

Decision: The minutes of BOAC of the Departments of Management Studies and Schemes of the MBA programme, with Dual Specialization, presented are approved with three options of specializations – Finance, HR and Marketing by the Senate. The option of IT, as specialization is turned down. The new Scheme with dual specialization & incorporating the three options as approved must be submitted by 31st March 2022.

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Item S-49.2022-I-2.6: Academic Requirements and Review report of Ph.D. Scholars.

1. Review of 2017 and 2018 admitted Ph.D. students: The review has been carried out by the departments for Ph.D. students, admitted in 2017 & 2018 who could not publish any paper in SCI / SCIE Journals. The summarized report is attached. The Senate may decide about granting them the Teaching Assistantship as a special case for remaining period maximum upto 06 months. **Annexure – 12**

Decision: Not Approved.

2. An application received from Mr. Pranav Gupta (Sch. No. 183110002), a Ph.D. student from Department of Architecture & Planning regarding arrears of two months Teaching Assistantship. The student completed 03 years in July 2021 but his First paper got accepted in SCIE Journal in October 2021. Thereby, his teaching assistantship was discontinued in August 2021 and resumed from October 2021, after a gap of two months. He is requesting for the arrears of August & September 2021 in anticipation of the approval of point no. 1 above. **Annexure – 13**

Decision: Not Approved.

3. It is proposed that RDC completion within two years shall be essential condition for enhancement of Assistantship after 02 years. In case, RDC is delayed or the student fails to submit application on or before 02 years, it will be granted from the date of application submitted by the candidate.

Decision: Approved.

4. Inclusion of SSCI indexed Journals in addition to SCI & SCIE (Q1 & Q2) Journals in Ph.D. Ordinance, for extension of Teaching Assistantship beyond 03 years and award of Ph.D. degree.

Decision: Approved.

5. For point no. 2, Clause 10.1.1 of Ph.D. Ordinance, for sponsored Ph.D. students, the residential requirement may be One year for both type of students i.e. students with workplace at their Institute and for students with workplace at MANIT, Bhopal. These students shall be allowed to carry out the research work at MANIT, Bhopal during evenings, Saturdays / Sundays / Holidays, after completion of mandatory Course work within One year.

Decision: Approved.

Item S-49.2022-I-2.7: Guidelines of UG / PG Internship w.e.f. July 2022.

The UG / PG Internship guidelines, prevailing at present, are in force since 2017 with couple of amendments approved in 39th & 48th Senate. Now in view of the online teaching learning due to Covid-19 and feedback from TPO and Students, revised UG / PG Internship guidelines are placed for discussion before Senate.

Matter related to Internship & NPTEL Courses for 2023 & 2024 passing out batches of B. Tech. / B. Plan. **Annexure – 14.**

Sanjay

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Decision: Following decisions were taken: -

- (i) UG Internship policy is approved as proposed. Approved guidelines are attached.
- (ii) PG internship policy is approved as presented. Approved guidelines are attached.
- (iii) A committee of HoD's of CSE, ECE, ME, EE, PIC (Exam) and Associate Dean (UG) shall decide the matter related to the batches going to pass out in 2023 / 2024 and submit the recommendation within 15 days. The Senate has agreed to accept the decision of the committee, if approved by Chairman, Senate.

Item S-49.2022-I-2.8: Fee Structure of UG, PG & Ph.D. program for the session 2022-23.

A Committee was constituted by the competent authority vide order no. AB/Estt./Appt & Charges/2021/1683 dated 24.12.2021. The minutes of the meeting of the committee are enclosed herewith along with the detailed fee structure for UG / PG & Ph.D. programs for approval. Annexure – 15.

Matter is placed before Senate for discussion and decision.

Decision: The current policy of Fee waiver for SC/ST/PH category shall continue. Senate approved the Fee structure proposed by the constituted committee for the students admitting in the July 2022 session. Further the Ph.D. and other PG programs including sponsored & internal candidates not covered in the current fee waiver will not be entitled for any type of fee waiver.

Senate recommends the above fee structure to be placed in FC & BOG for considerations.

Item S-49.2022-I-2.9: Regarding registration & result of Mr. Manish Kumar (151110227).

As per decision taken in 46th Senate vide **Item S-46.2021-III-2.5** "In case of Mr. Manish Kumar, first two points are approved by the Senate and third point is to be reviewed in the next Senate Meeting based on the recommendations of the HOD (Arch.) and Dean Academic", the recommendation of DUPC is placed before Senate for discussion & decision. Annexure - 16

Decision: The recommendation of DUPC are approved and the course completion period is increased by one year for Mr. Manish Kumar as a special case.

Item S-49.2022-I-2.10: Case of Afghan Ex-student ECE 2012-2016 Batch.

Mohammad Hamid from Afghanistan with Scholar No. 121114145 one of the ICCR EX student of B. Tech. ECE 2012-2016 batch MANIT, Bhopal has requested for the permission to complete the course.

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As per the record of COE he did not appeared in any exam since May-June 2017 and he has not cleared 3 subjects.

V Sem. May 2017 EC 313 VLSI Design

VI Sem. May 2017 EC 322 Optical Communication

VIII Sem. May 2017 EC 421 Embedded Systems

He has already completed more than NiNE years till date. **Annexure - 17**

Matter is placed before Senate for discussion and decision.

Decision: The maximum allowable period to complete B Tech programme is six years (UG Ordinance), the student, Mohammad Hamid (Scholar No. 121114145) has already completed Nine Years till date, therefore, the Senate rejected the application.

Item S-49.2022-I-2.11: Signing and Approving Authorities for various certificates.

The list of signing and approving authorities for various certificates is tabulated and attached. Also, the formats for printing the Grade Report for various PG programs as per new guidelines are attached for approval.

Annexure – 18.

Matter is placed before Senate for approval.

Decision: Senate has approved the signing and approving authorities for various certificates, as proposed. The format of Grade Report is approved with minor corrections. The approved Signing & Approving Authorities and Grade Report are attached.

Item S-49.2022-I-2.12: Academic MoU of MANIT with nearby Central / State Institutes.

In view of NEP 2020, it is proposed to increase the interaction with the nearby Central / State Institutes / Organizations / Universities to enhance the interdisciplinary teaching & research activities. A model academic MoU with NITTTR, Bhopal, MPCST, Bhopal & M. P. Police is proposed and placed before Senate for approval. **Annexure – 19.**

Decision: Senate has approved the academic MoU with NITTTR, Bhopal, MPCST Bhopal and M P Police. It is also approved that admission for employees / officers of such Institutions / Organizations having more than 10 years of field / research experience can be given direct admission subject to maximum number of 02 candidates per course / department in M. Tech. & Ph.D. respectively.

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Section-3
Any Other Point
(With permission of Chair)

Item S-49.2022-I-3.1:

Dr. Ramesh K. Nayak has received a research project from the Ministry of Mines, sanctioned amount is Rs. 39.075 lakhs and Nalco contribution is Rs. 10.5 lakhs, total cost of the project is Rs. 49.575 lakhs.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.2:

MPCST has granted R&D Project entitled: "Development of fast bidirectional battery chargers for electric vehicles considering power quality aspects" for Rs.7,40,000/- (Seven Lakh Forty Thousand Only) with Project Investigator: Dr. Shailendra Kumar, Assistant Professor, Department of Electrical Engg., MANIT, Bhopal, Co-PI: Prof. Sanjeev Singh and Prof. Sushma Gupta, Professor, Department of Electrical Engg., MANIT, Bhopal.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.3:

MPCST has granted R&D Project entitled: "Implementation and prototyping of IoT module for demand side management and improved efficiency" for Rs.5,92,500/- (Rs. Five Lakh Ninty Two Thousand Five Hundred Only) with Project Investigator: Dr. Tripta Thakur, Professor, Department of Electrical Engg., MANIT, Bhopal and Co-PI: Dr. Priyanka Paliwal, Assistant Professor, Department of Electrical Engg., MANIT, Bhopal.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.4:

S. Chatterjee, Rini S. Thakur, Dr. R. N. Yadav, Dr. Lalita Gupta and Dr. D. K. Raghuvanshi received the IET Premium (Best Paper) Award 2021 for the paper titled. "Review of Noise Removal Techniques in ECG Signals", Volume 14, Issue 9, December 2020, pp. 569-590 published in IET Journal of Signal Processing.

Decision: Noted and appreciated by the Senate.


Item S-49.2022-I-3.5:

Dr. Narendra Gajbhiye has received a research project from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India Project Titled Numerical investigation of MHD flow and pressure drop in 3-D sudden expansion with partitioned channels using wall-function treatment. The sanctioned amount is Rs. 7,00,000/- for Capital (Non-recurring) and Rs. 19,89,764/- toward Recurring Expenses, total cost of the project Rs. 26,89,764/-.

Decision: Noted and appreciated by the Senate.







Item S-49.2022-I-3.6:

Dr. Giribabu Dyanamina has received a research project from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India Project Titled Design and Development of Intelligent Controller Based Dual Configured Wind Energy Conversion System for Enhanced LVRT operation. The sanctioned amount is Rs. 25,00,000/- for Capital (Non-recurring) and Rs. 21,80,764/- toward Recurring Expenses, total cost of the project Rs. 46,80,764/-.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.7:

Dr. Kali Charan Sabat has received a research project from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India Project Titled Investigation into direct reduction of alumina and red mud by hydrogen plasma for production of metal values. The sanctioned amount is Rs. 45,21,264/-.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.8:

Dr. Pritikana Das has received a research project from CSIR-Central Road Research Institute Project Titled Development of Trip Generation Manual for Indian Cities. The sanctioned amount is Rs. 8,14,000/-.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.9:

1. Dr. Rajnish Kurchania has been awarded as a Chartered Engineer (CEng) by the Engineering Council UK; Institute of Materials, Minerals and Mining (IOM3), UK on 07 December 2021.
2. The Board of Studies for the Faculty of Engineering & Design has reappointed Dr. Rajnish Kurchania as Senior Visiting Research Fellow on 14 Dec 2021 in the Department of Architecture & Civil Engineering, University of Bath UK for a period of three years from 01 March 2021 to 29 February 2024.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.10:

Nomination of External members for Senate.

1. Dr. Rajni Joshi, Professor (Mathematics) IIT Bombay.
2. Dr. Aysha Iqbal, Professor (HSS) IIT Madras.
3. Dr. B. K. Panigrahi, Professor (EE) IIT Delhi.

Decision: Approved.

Item S-49.2022-I-3.11:

Unique individual ID's for all the programmes run at MANIT, Bhopal are placed before Senate for approval. Annexure – 20.

Decision: Approved with minor corrections as suggested.



Item S-49.2022-I-3.12:

Mr. M. Phani Sushnath of M. Tech. Artificial Intelligence under the guidance of Dr. Meenu Chawla received Best Oral Presentation Award for his paper titled "Review: Deep Learning Techniques for Automatic Target Detection in Infra Red Images" at the International Conference on "Applied Mechanics, Machine Learning and Advanced Computation (AMMLAC-2022)" held virtually during 16-17 March 2022 at NIT Raipur.

Decision: Noted and appreciated by the Senate.

Item S-49.2022-I-3.13:

It is proposed that SMILE ERP may be implemented from the session 2021-22 onwards & all the results of UG, PG & Ph.D. programmes be prepared on ERP and verified with the existing examination software.

Decision: The result of current First Semester B. Tech., B. Plan & B. Arch. to be prepared on SMILE ERP and verified by the existing software i.e. the entry has to be done on both software's. For PG programmes the departmental coordinators need to prepare the results of 1st Semester already declared in the SMILE ERP at the earliest. For PG programmes the Academic section is required to fill the Admission details & respective departmental DRPC coordinators are required to fill the course work proforma.

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