



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Minutes of the 26th meeting of the Senate held from 10.00 hours to 22:00 hr on March 22, 2021 (Monday) online through Google Meet from Room no. 1D-105, POD Building, IIT Indore.

Following members attended the meeting:

Chairman

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| 1. Prof. Neelesh Kumar Jain | Director (Officiating) |
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External Expert

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| 2. Mr. B. Anil Baliga | Ex-EVP, VE Commercial PVT. Ltd.
(Through VC) |
| 3. Prof. Ajay Kumar Jain | Dean, EGP & Consultancy, MDI Gurgaon
(Through VC) |

Internal Members

- | | |
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| 4. Dr. Devendra L. Deshmukh | Dean of Academic Affairs |
| 5. Dr. Pritee Sharma | Dean of Administration (through VC) |
| 6. Prof. Avinash Sonawane | Dean of International Affairs (through VC) |
| 7. Dr. I. A. Palani | Dean of Research and Development (through VC) |
| 8. Dr. Manish Kumar Goyal | Dean, Infrastructure Development |
| 9. Dr. Santosh Kumar Vishvakarma | Dean of Student Affairs and Head, CSFDT
(through VC) |
| 10. Prof. Anand Parey | Dean of Resource Generation (through VC) |
| 11. Dr. Kaustav Bakshi | Representative, HOD, Civil Engineering
(through VC) |
| 12. Dr. Somnath Dey | HOD, Computer Science and Engg. (through VC) |
| 13. Dr. Vipul Singh | HoD, Electrical Engineering (through VC) |
| 14. Dr. Santosh Kumar Sahu | HOD, Mechanical Engineering (through VC) |
| 15. Dr. Vinod Kumar | HOD, MEMS |
| 16. Dr. Debasis Nayak | HOD, BSBE (through VC) |
| 13. Dr. Abhirup Datta | HOD, AASE (through VC) |
| 18. Dr. Chelvam Venkatesh | Representative, HOD, Chemistry (through VC) |
| 19. Dr. Md. Aquil Khan | HOD, Mathematics (through VC) |
| 20. Dr. Pritee Anand Bhubhe | Representative, HOD, Physics (through VC) |
| 21. Dr. Nirmla Menon | HOS, Humanities and Social Sciences |
| 22. Prof. N. S. Chaudhari | Computer Science and Engg. (through VC) |
| 23. Prof. Subhendu Rakshit | Physics (through VC) |
| 24. Prof. Sarika Jalan | Physics (through VC) |



25. Prof. Sandeep Chaudhary	Civil Engineering and Head, CRDT (through VC)
26. Prof. Krushna R. Mavani	Physics (through VC)
27. Prof. Abhinav Kranti	Electrical Engineering(through VC)
28. Prof. Vimal Bhatia	Electrical Engineering
29. Prof. Suman Mukhopadhyay	Chemistry and Head, SIC (through VC)
30. Prof. Rajneesh Misra	Chemistry (through VC)
31. Prof. Ram Bilas Pachori	Electrical Engineering
32. Prof. G. S. Murthy	BSBE and Head CISKS (through VC)
33. Dr. Lalit Borana	Chief Warden (through VC)
34. Dr. Abhishek Rajput	Head, Training and Placement (through VC)
35. Dr. Pavan K. Kankar	Head, Counselling Services (through VC)
36. Dr. Mukesh Kumar	Head, CAE
37. Dr. Hemant Borkar	Convener, Health Centre Committee (through VC)
38. Dr. Anjali Bandiwadekar	Deputy Librarian (through VC)
39. Dr. Anand Petare	DGM, Central Workshop (through VC)

Student Representatives [as Special Invitees for non-evaluation items only as per IITI Statutes]

40. Mr. Shreyansh Jain	President Student Gymkhana (Through VC)
41. Ms. Kanika	Academic Secretary [PG] (Through VC)
42. Mr. Jogesh Mukla	Academic Secretary [UG] (Through VC)

Special Invitees (for this meeting only)

43. Dr. Eswara Prasad Korimilli	ADOAA (PG Programs)
44. Mr. Suresh Chandra Thakur	Administrative Officer (Academic Affairs)
45. Mr. Tapeshe Parihar	Manager (Academic Affairs)
46. Mr. Abhay K. Awasthi	Deputy Manager (Academic Affairs)

Leave of absence: Following members could not attend the meeting and were granted leave of absence:

1. Prof. Himanshu Rai	Director, IIM Indore
2. Shri Debashis Das	Director, RRCAT, Indore
3. Prof. Abhiram G. Ranade	Professor, IIT Bombay
4. Dr. Neminath Hubballi	Head, Computer Centre



Part A: Non-Evaluation Items

ITEM 26.1: Welcome and Opening remarks by the Chairman of the Senate.

Chairman, Senate welcomed all the members to the meeting.

The Senate Chairman informed about appointment of **Prof. Avinash Sonawane** as new Dean of International Affairs and Outreach (DOIAO) using the BoG approved procedure, appointment of **Prof. G.S. Murthy** as Head of newly established Center for Indian Scientific Knowledge Systems (CISKS) and appointment of **Dr. Pankaj R. Sagdeo** as HOD of Physics and **Dr. Debasis Nayak** as HOD of BSBE based upon opinion of the concerned faculty members. He welcomed HODs of BSBE and Physics as new members of the Senate who became the members by the virtue of their positions.

The Senate Chairman also welcomed **Prof. N.S. Chaudhari** who has joined back the Institute on 5th March 2021 after resigning from Vice- Chancellor of Uttarakhand Technical University, Dehradun.

He informed the committee that 8th Convocation of the Institute was organized on October 19, 2020 in the virtual mode. Hon'ble Union Minister of Education, Govt. of India, Dr. Ramesh Pokhriyal 'Nishank' was the Chief Guest of the Convocation. Professor Deepak B. Phatak, Chairperson, BoG, IIT Indore presided over the event with his virtual presence. Prof. Neelesh Kumar Jain, Director (Officiating) and Chairman Senate gave the medals and certificates to the students on behalf of the Chief Guest. He informed that in the 8th Convocation total 412 (B.Tech. 233, M.Tech. 57, M.Sc. 58, MS (R) 6, Ph.D. 58) students were graduated, out of these, 12 students (B.Tech. 6, M.Tech. 2, M.Sc. 2, Ph.D. 2) attended the convocation in person and remaining 400 students were awarded the degree in the online mode.

The Chairman mentioned that despite ongoing pandemic, Institute was able to manage admissions in virtual mode. A total of 661 students (B.Tech. 351, M.Tech. 78, M.Sc. 102, MS (R) 24, Ph.D. 106) students admitted in the AY 2020-21. Orientation Program was conducted for PG and PhD students, through online mode, on August 22, 2020, while for UG students, Orientation Program through online mode was held on November 19, 2020. Further, all the registration formalities were also placed online.

The chairman, Senate reported to the committee that Five Doctoral students of the Institute namely Neha Bhadala, Tarun Verma, Gourab Giri, Shivendra Singh, Koyal Suman have bagged the prestigious Prime Minister Research Fellowship (PMRF) for the May 2020 cycle.



ITEM 26.2: Confirmation of the minutes of the 25th meeting of Senate held on October 17, 2020.

The Senate confirmed the Minutes of its 25th meeting of Senate held on October 17, 2020 with the following observations:

- a) Dean, Students Affairs and President, Student Gymkhana, raised their observations on the Best All Rounder Award for 8th convocation. It was clarified that Senate Chairman's prior approval is needed to constitute any committee for conferring any medal/award/certificate during the Convocation of the Institute. This was not followed for constituting the committee for nominating the names for the Best All Rounder Award for the 2020 Convocation. Whereas, the committee constituted by the Senate Chairman has recommended constituting two medals separately for the Best all-rounder Award i.e. one medal for UG students and one medal for PG and PhD students. This recommendation required approval by the BoG based upon the recommendation of the Senate. Since, the best all-rounder award is an inter-academic program award unlike the existing Gold and Silver medals, therefore, it was stressed that there must be BoG approved policy and clearly defined evaluation criteria for the nominations received from the students of different academic programs (i.e. BTech, MTech, MSc, MS (Research), and PhD) for the best all-rounder award. Because of these reasons, no medal could be awarded in the 8th convocation.
- b) Either names of both the thesis supervisors of Ravi Kumar should have been mentioned OR name of the thesis supervisor should not have been mentioned in the Minutes.

ITEM 26.3: Action Taken Report (ATR) on minutes of 25th meeting of Senate held on October 17, 2020.

The Senate noted the actions taken on the decisions of the 25th meeting of Senate held on October 17, 2020 with the following observations:

- Regarding to the point no. 25.11 pertaining to relieving of Co-Supervisor of Mr. Ravi Kumar, the Chairman advised HoD-EE to form a committee for constitution of a fresh PSPC after discussion with the student.
- On point no. 25.13.3, it was suggested that Computer and Information Technology Center and Alumni Cell would work together to find a solution for providing new alumni e-mail id to all the graduated students.

ITEM 26.4: Recommendations of the committee constituted for suggesting the policy for the Best All-Rounder Award.

Associate Dean, Academic Affairs (PG and PhD) presented the proposed policy to the Senate. He mentioned that elaborate deliberations had been done with the Student Gymkhana before bringing in the Senate. He thanked the Student



Gymkhana, specially to Mr. Jogesh (Academic general secretary, UG) and Ms. Kanika (Academic general secretary, PG), for help in the preparation of the draft of the policy. Associate, Dean, Student Affairs was also called as a Special Invitee for discussion on this matter.

The Senate deliberated on the draft of the policy and agreed on the following changes:

- For PG students of those department(s) where PG thesis component is not there, the grade points of course work done in lieu of PG thesis should be considered.
- Extra one mark should be given for each 'AP' grade obtained in a credited course for each nominated student.
- The Senate discussed the policy in depth and finalized the following **distribution of weightage for the different Components of the Evaluation:**

A. Academics / Curricular activities: (30% for A(i) and A(ii) combined)

- (i) Credit Work
- (ii) Research Work/ PG Thesis/ BTech Project ()

B. Co-Curricular and Extra-Curricular Activities: (70%)

- (i) Position of Responsibilities held at institute level (15%)
- (ii) Awards at National/International Level/ Social work/ Incubation and Entrepreneurial activities (15%)
- (iii) Outstanding achievements in Cultural activities (10%)
- (iv) Outstanding achievements in Science and Technology related activities (10%)
- (v) Outstanding achievements in Games and Sports related activities (10%)
- (vi) Outstanding achievements in Co-Curricular/Extra Curricular activities (10%)

The Senate recommended implementation of the above-mentioned evaluation policy for nominations of the Best All-rounder Award from AY 2021-12 onward for approval by the BoG.

The The Committee constituted by the Senate Chairman, announced the names of two students (Avdesh Kumar Sharma of the PhD program and Chaitanya of BTech program) for conferring the Silver Medals for the Best All-rounder Award for AY 2020-21, which are to be given during Orientation Program of AY 2021-22.

ITEM 26.5: Joint Online Degree Program with IIM Indore in Data Science.

Dean, Academic Affairs, presented the proposal to the committee. The Senate discussed the proposal and approved 'in principle', to start the MS Degree Program with the program name "*Data Science and Management*" jointly by IIT Indore and IIM Indore from AY 2022-23 onwards.



Further, the Senate suggested changes in the MEQ and forward the revised proposal to the '*Academic Affairs Committee*' of IIM Indore. On receipt of the approval from IIM Indore, the same will to be discussed in the next meeting of the Senate members along with Syllabi of the new courses.

ITEM 26.6.: Proposal to establish Center for Electric Vehicles and Intelligent Transport Systems (CEVITS) and start MTech and MTech + PhD dual degree program in Electric Vehicles from AY 2021-22.

The Senate recommended to the FC and BoG for approval the proposal to establish an *independent inter-disciplinary Center for Electric Vehicles and Intelligent Transport Systems (CEVITS)* and starting of MTech and MTech + PhD dual degree program in '*Electric Vehicle Technology*'. The committee recommended starting the programme from AY 2021-22 onward with course structure modified during the meeting and no upper limit on intake under non-TA category and an intake of 5 TA students using the reservation as: GEN-2, EWS-1, OBC-NC-1, SC-1 as per reservation policy of GoI and using roster system in the subsequent years.

Senate agreed that since CEVITS will be an independent inter-disciplinary Center, its courses should have specific course code as 'EV'.

Syllabi of the new courses will be discussed in the next meeting of the Senate based upon the due recommendations of the SPGC.

ITEM 26.7: Proposal to start MTech and MTech + PhD dual degree program in Biomedical Engineering.

The Senate recommended to the FC and BoG for approval the proposal to start MTech and MTech + PhD dual degree program in '*Biomedical Engineering*' with the course structure modified during the meeting from **AY 2022-23** onward with no upper limit on intake under non-TA category and an intake of 5 TA students using the reservation as: GEN-2, EWS-1, OBC-NC-1, SC-1 as per reservation policy of GoI and using roster system in the subsequent years.

Syllabi of the new courses will be discussed in the next meeting of the Senate based upon the due recommendations of the SPGC.

ITEM 26.8: Proposal to start MTech and MTech + PhD dual degree program in Space Engineering.

The Senate recommended to the FC and BoG for approval the proposal to start MTech and MTech + PhD dual degree program in '*Space Engineering*' with the course structure modified during the meeting from **AY 2021-22** onward with no upper limit on intake under non-TA category and an intake of 5 TA students

using the reservation as: GEN-2, EWS-1, OBC-NC-1, SC-1 as per reservation policy of GoI and using roster system in the subsequent years.

Syllabi of the new courses will be discussed in the next meeting of the Senate based upon the due recommendations of the SPGC.

ITEM 26.9: Proposal to start MS (Research), MS (Research) + PhD dual degree program in Space Science and Engineering.

The Senate recommended to the FC and BoG for approval the proposal to start MS (Research) and MS (Research) + PhD dual degree program in '*Space Science and Engineering*' with the course structure modified during the meeting from AY 2021-22 onward with no upper limit on intake under non-TA category and an intake of 5 TA students using the reservation as: GEN-2, EWS-1, OBC-NC-1, SC-1 as per reservation policy of GoI and using roster system in the subsequent years.

Syllabi of the new courses will be discussed in the next meeting of the Senate based upon the due recommendations of the SPGC.

ITEM 26.10: Revised curriculum of MSc and MSc + PhD dual degree program in Biotechnology.

Head, Biosciences and Biomedical Engineering presented the revised curriculum during the meeting. The Senate discussed the revised curriculum of MSc and MSc + PhD dual degree program in Biotechnology for implementation from AY 2021-22 onwards. Senate agreed to the proposal 'in Principle' subject to the following changes:

- Lab courses should be reduced from Semester I and II to level the credit load compared to the other PG programs.
- Basic Science courses should be offered in the first semester instead of Summer (third) semester.
- Maximum credit should be in the range of 70-80.
- Syllabi of the new courses will be discussed in the next meeting of the Senate with due recommendations of the SPGC.

ITEM 26.11: Revised curriculum of MSc and MSc + PhD dual degree program in Chemistry.

The Senate discussed the details of the proposal and accorded the approval for revision in the curriculum of MSc and MSc + PhD dual degree program in Chemistry with the following suggestion:

- (a) The course code of the existing courses cannot be used for the new courses and new code should be provided to the new courses to avoid clashing of course codes.



- (b) Syllabi of the new courses will be discussed in the next meeting of the Senate with due recommendations of the SPGC.

ITEM 26.12: Inclusion of practical components in the courses ME 418/ 618 and ME 407/ 607.

The Senate approved the proposal of including the practical component in the following two courses:

Course Code	Title of the Course	Existing (L-T-P-Credit)	Revised (L-T-P- Credit)
ME 418/ 618	Computational Fluid Dynamics	2-1-0-3	2-0-2-3
ME 407/ 607	Biofluid Mechanics	2-1-0-3	2-0-2-3

The Senate suggested that in future such matters can be approved by the Senate Chairman based upon recommendations of SPGC and/or SUGC and DOAA and then ratified/reported in the next meeting of the Senate for the record purposes.

ITEM 26.13: Proposal for Cross-listing of the existing courses.

The Senate approved the cross-listing of the following courses:

EE 638: System on Programmable Chip Design as **EE 438/638**

AA 606: Random Signals and Applied Kalman Filtering as **AA 406/606**

HS 426: Economics of Innovation as **HS 426/626**

The Senate suggested that in future such matters can be approved by the Senate Chairman based upon recommendations of SPGC and/or SUGC and DOAA and then ratified/reported in the next meeting of the Senate for the record purposes.

ITEM 26.14: Updating of the course code ME 408/608: Hybrid Electric Vehicles, while included in EE department curriculum.

It was informed to the Senate that the course ME 408/608: Hybrid Electric Vehicles is of inter-disciplinary nature; hence it was offered to the B.Tech. student of Electrical Engineering as department elective in the AY 2020-21 with the approval of the Chairman Senate.

The Senate **approved** from AY 2021-22 this course be allotted separate course code as **EV 408/EV 608** under the Center for Electric Vehicles and Intelligent Transport Systems (CEVITS). The course codes ME 408/ ME 608 will be applicable only for AY 2020-21.

ITEM 26.15: Proposal for revision of Civil Engineering UG curriculum.

The Senate discussed the proposal on revised curriculum of B.Tech. Civil Engineering and approved 'in principle' for the implementation from the AY 2021-22, with the following suggestions:

- (a) Since there is Institute Core Course on "Environmental Studies" in 6th semester of the B.Tech. program of all the branches, therefore, the course



- proposed on “**Environmental Engineering**” should be replaced with the course title “**Water Treatment and Engineering**”.
- (b) Syllabus of the new courses will be discussed in the next meeting of the Senate with due recommendations of the SUGC.

ITEM 26.16: Proposal for offering Academic Program in Centre for Advanced Electronics (CAE).

Senate deliberated and approved the proposal of the Centre for Advanced Electronics (CAE) to start Ph.D. program under Non-TA category only from AY 2021-22 onward allowing one non-TA category PhD student per academic year per faculty of CAE subject to the condition that such CAE faculty will not demand any additional fund and/or space from his/her parent department for selecting such non-TA category student from CAE.

Item 26.17: Reservation Policy in Ph.D. Admission.

The Senate approved following:

- (i) Each Department/School/Center should make maximum possible efforts to follow the reservation policy as Govt. of India norms in selection of PhD students of TA and FA categories from AY 2021-22 onward.
- (ii) A Reservation Roster should be maintained and followed by each Department/School/Center at the beginning of each Academic Year for TA and FA category PhD students from AY 2021-22 onward.
- (iii) Each Department/School/Center should conduct a *special admission drive* for PhD admissions in case seats for the reserved categories are not filled in an academic year.

Each faculty may recruit one TA category Ph.D. student and subject to a maximum limit of 3 TA students at any given point in time. Actual number of total TA category PhD students that can be selected in AY 2021-22 will depend upon the receipt of the funds under OH 31 (recurring expenses) for FY 2021-22 from the MoE. Each Department should maximize selection of non-TA category PhD students for AY 2021-22 also.

ITEM 26.18: Revision of Declaration Form of Ph.D. Thesis.

The Senate discussed the proposal and approved the modified declaration form for Ph.D. Thesis with signature of Student and Thesis Supervisor (s) only.

ITEM 26.19: Comprehensive Examination in the Ph.D. Program.

Item deferred.

ITEM 26.20: Discussion on Modification in Ph.D. Oral Examination Board

The Senate discussed the proposal and approved that HoD and DPGC Convener be excused as *ex-officio* members of Ph.D. Oral Examination Board (OEB) of Ph.D. examination. The Form PTS 6 will be modified by the Academic Office accordingly.



ITEM 26.21: Best Thesis Award for Ph.D.

Item deferred. To be brought after discussion in the DPGCs and SPGC.

ITEM 26.22: Increase of seats to international students from the present 10% to 25%.

The Senate approved increase of supernumerary seats for the International students from the present 10% to 25% of the sanctioned intake (with minimum 5 Seats) in each PG program of the Institute with effect from AY 2021-22.

ITEM 26.23: Alumni Representative Nominee to Senate IIT Indore.

Item deferred after the discussion.

The senate thankfully acknowledged the contribution of the outgoing alumni representative member **Mr. Jawalant Shah** (Graduated in 2014 in Mechanical Engineering) during his tenure from Nov 2018 to Nov. 2020.

ITEM 26.24: Proposal of New Courses.

Item differed due the paucity of the time.

Item 26.30: Any other item with the permission of the Chair.

Item 26.30.1: Proposal for Minor Programs in Humanities and Social Sciences.

Item deferred.

Item 26.30.2: Proposal to start MS (Research) and MS (Research) + PhD in Humanities and Social Sciences in School of Humanities and Social Sciences.

The Senate recommended to the FC and BoG for approval the proposal to start MS (Research) and MS (Research) + PhD dual degree program in '*Humanities and Social Sciences (HSS)*' with the course structure modified during the meeting from **AY 2021-22** onward with no upper limit on intake under non-TA category and an intake of 5 TA students using the reservation as: GEN-2, EWS-1, OBC-NC-1, SC-1 as per reservation policy of GoI and using roster system in the subsequent years.

Syllabi of the new courses will be discussed in the next meeting of the Senate based upon the due recommendations of the SPGC.

Item 26.30.3: Amendment in the Policy for the admissions under College Teacher (CT) category.

Senate deliberated on the difficulties in recruiting the PhD students under college teacher (CT) category and resolved that eligibility criteria for PhD admission under College Teacher (CT) category to be modified as:

"The College/Institute/University from which the faculty member is sponsored should be amongst top 200 NIRF ranked institutes in the respective category in the preceding year. The NIRF ranking will not be mandatory for



faculties sponsored from Government Engineering College/ Institution/University”

The Senate also resolved that CT category will also be applicable for admission to MTech and MS (Research) programs with the following modifications from PhD admission under CT category:

- One Publication criteria in SCI Indexed journal is not mandatory for the admission to MTech and MS (Research) programs.
- Candidate for MTech and MS (Research) will be admitted as Full-Time candidate for 2 years.

Part B: Evaluation Items

ITEM 26.25: Discontinuation of students from the Ph.D. Programme (As per Senate and BoG approved policy according to which a PhD student is discontinued upon accumulation of more than three XX grade in PhD thesis and/or not registering in a semester without permission of the competent authority,).

Item deferred.

Agenda Items for Ratification

ITEM 26.26: Approval of the releasing fellowship of newly admitted the PG and PhD students during AY 2020-21 after their online/offline verification of their documents.

Item ratified.

ITEM 26.27: Senate Nominee to BoG IIT Indore

Item deferred.

Agenda Items for Reporting

Item 26.28: Exemption in some fee component based upon request by many 1st Year BTech students due to financial hardship being faced by them in view of COVID 19.

Item reported

Item 26.29: Certification courses for working professionals from Industrial, Research, Defense and other Organizations.

Item reported.

The Maraton meeting of the Senate ended at 22.00 with thanks to the Chair.



Mr. S.P Hota
Secretary, Senate and Registrar-in-charge



(Prof. Neelesh Kumar Jain)
Director (Officiating) and Chairman, Senate

