



Indian Institute of Technology Indore

Minutes of the 28th meeting of the Senate held from 14.30 hrs on 1st November 2021 (Monday) Hybrid Mode (In-person and Online) from Maitreyi Seminar Hall, IIT Indore.

Following members attended the meeting:

Chairperson

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

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| 2. Prof. Himanshu Rai | Director, IIM Indore (Through VC) |
| 3. Shri. Shankar V. Nakhe | Director, RRCAT, Indore (Through VC) |
| 4. Mr. B. Anil Baliga | Ex-EVP, VE Commercial PVT. Ltd.
(Through VC) |
| 5. Prof. Ajay Kumar Jain | Dean, EGP and Consultancy, MDI Gurgaon
(Through VC) |

Internal Members

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| 6. Dr. Devendra Deshmukh | Dean of Academic Affairs |
| 7. Dr. Pritee Sharma | Dean of Administration |
| 8. Prof. Avinash Sonawane | Dean of International Affairs |
| 9. Dr. Ruchi Sharma | Representing, Dean of Research and Development |
| 10. Dr. Manish Kumar Goyal | Dean, Infrastructure Development |
| 11. Dr. Srivathsan Vasudevan | Dean of Student Affairs |
| 12. Prof. Anand Parey | Dean of Resource Generation (through VC) |
| 13. Prof. Sandeep Chaudhary | Acting HOD, Civil Engineering and Head, CRDT
(through VC) |
| 14. Dr. Somnath Dey | HOD, Computer Science and Engineering. |
| 15. Dr. Vipul Singh | HOD, Electrical Engineering (through VC) |
| 16. Dr. Santosh Kumar Sahu | HOD, Mechanical Engineering (through VC) |
| 17. Dr. Vinod Kumar | HOD, MEMS |
| 18. Dr. Amit Kumar | HOD, BSBE (through VC) |
| 13. Dr. Abhirup Datta | HOD, AASE |
| 20. Dr. Bishwarup Pathak | HOD, Chemistry (through VC) |
| 21. Dr. Niraj Shukla | HOD, Mathematics (through VC) |
| 22. Dr. Manavendra Mahato | Representing HOD, Physics (through VC) |

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23. Dr. Nirmala Menon	HOS, HSS (through VC)
24. Prof. Suman Mukhopadhyay	Chemistry and Head, SIC (through VC)
25. Dr. Indrasen Singh	Head, CFDST (through VC)
26. Dr. Neminath Hubballi	Head, Computer and IT Centre (through VC)
27. Dr. Abhishek Rajput	Head, Training and Placement
28. Prof. N. S. Chaudhari	Computer Science and Engg. (through VC)
29. Prof. Ram Bilas Pachori	Electrical Engineering (through VC)
30. Prof. Abhinav Kranti	Electrical Engineering (through VC)
31. Prof. Vimal Bhatia	Electrical Engineering and Acting Head, CAE(through VC)
32. Prof. Rajneesh Misra	Chemistry (through VC)
33. Prof. Subhendu Rakshit	Physics (through VC)
34. Prof. Krushna R. Mavani	Physics (through VC)
35. Prof. G. S. Murthy	BSBE and Head CISKS (through VC)
36. Dr. Lalit Borana	Chief Warden
37. Dr. Hemant Borkar	Convener, Health Centre Committee (through VC)
38. Dr. Anand Petare	DGM, Central Workshop

Special Invitees

39. Dr. Amod C. Umarikar	ADOFA (Faculty Affairs)
40. Dr. Eswara Prasad Korimilli	ADOAA (PG Programs)
41. Dr. Antony Vijesh	ADOAA (Infrastructure) (through VC)
42. Dr. Ajay Kushwaha	Assistant Professor (for presenting agenda item no. 28.11(4).
43. Dr. Satyanarayan Patel	Assistant Professor (for presenting agenda item No. 28.7 and 28.13)
44. Mr. Rajesh Kumar	Assistant Librarian
45. Mr. Suresh Chandra Thakur	Assistant Registrar (Academic Affairs)
46. Mr. Tapesh Parihar	Jr. Superintendent (Academic Affairs)
47. Mr. Abhay K. Awasthi	Junior Assistant (Academic Affairs)

Special Invitees (Student Representative)

1. Mr. Prince Kaushik -	President, Student Gymkhana (Ex-officio) (through VC)
2. Mr. Pawan Kumar	GS Academics (PG) (Ex-officio) (through VC)
3. Mr. Shivam Rajpoot	GS Academics (UG) (Ex-officio) (through VC)

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

1. Prof. Abhiram G. Ranade	Professor, IIT Bombay
2. Prof. Sarika Jalan	Professor, Physics
3. Dr. Pavan K. Kankar	Head, Counselling Services

ITEM 28.1: Opening remarks by the Chairperson, Senate.

Chairperson, Senate welcomed all the members and special invitees to the meeting. He specially welcomed Dr Srivathsan Vasudevan, Dean of Student Affairs, and Dr. Niraj Kumar Shukla, HoD Mathematics who became Senate members (*ex-officio*) by virtue of their appointment. He also conveyed thanks to the outgoing members of the Senate, Dr. Santosh Kumar Vishvakarma, and Dr. Aquil Khan for their contribution. The senate Chairperson welcomed newly nominated student representatives of Student Gymkhana as special invitee to the senate and thanked the outgoing student representatives from Student Gymkhana.

The Chairperson proudly announced that a total of 13 PhD research scholars have been awarded with the prestigious PMRF scholarship during the period from August 2020 to October 2021. He also highlighted that highest number of graduating students shall be receiving their degrees during the 9th Convocation and extended invitation to all the members to grace the Convocation.

The Chairperson asked the Senate Secretary to go ahead with the Agenda after confirming the required quorum.

ITEM 28.2: Confirmation of the minutes of the 27th Meeting of the Senate held on August 02, 2021.

The Senate confirmed the Minutes of its 27th meeting held on August 2, 2021.

ITEM 28.3: Action Taken Report (ATR) on minutes of 27th Meeting of Senate held on August 02, 2021.

The Senate noted the actions taken on the decisions of the 27th meeting of Senate held on August 2, 2021.

ITEM 28.4: List of additional students who have completed all the prescribed requirements latest by 25th Oct 2021 for the award of degree during 9th Convocation of the Institute.

The Senate recommended an additional number of 64 students, who have completed all the prescribed requirements for award of Degree between 2nd August to 25th October 2021, for the approval by the BoG.

One PhD student whose thesis evaluation reports have been received and viva has been scheduled on 3rd November 2021 was also included in this list of additional graduating students. The Senate resolved to consider any other student (s) who would complete all the prescribed requirements for



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award of the Degree latest by 6th November 2021. The Senate Chairperson was authorized to recommend such additional students to the BoG for its approval in its 43rd meeting scheduled on 8th Nov. 2021.

ITEM 28.5: Guidelines and Procedure for award of VPP MENON MEDAL of Excellence for the best Ph.D. dissertation by a female Student.

The Senate discussed the proposal made by committee constituted by it. After deliberating on the various aspects, it made following suggestions to the Committee for its deliberations:

1. *Only those PhD theses which have been awarded 'A' Grade by all the external examiners and all the thesis supervisor(s) and recommended by each one of them, will be eligible for nomination to VPP Menon Medal for the Best PhD thesis by a female student provided that the nominated student **neither** has any pending case of indiscipline or violation of copyright or violation of academic ethics nor has been found/penalized in such activities during her PhD program at IIT Indore.*
2. *Questionnaires in PTS-5 to be included to enable the external examiners of PhD thesis and PhD thesis supervisors to nominate can be for suitability of the thesis for being considered for nomination as the best thesis award should be included.*
3. *Only the duly constituted Institute level committee will evaluate all eligible nominations received from all the Departments or Schools or Centers i.e. no evaluation of the eligible nominations at the level of Department/School/Center. After the very careful consideration and evaluation of all the eligible nominations, this committee will recommend the possible recipient(s) to the Senate Chairperson. The recipient(s) will be announced after recommendation by the Senate and approval by the BoG.*

It was suggested details/input from other IITs such as IIT Kanpur, IIT Bombay, IIT Delhi, and IISc Bangalore may be taken for the Best PhD thesis award.

After detailed deliberations, it was felt that the matter requires more discussion and clear recommendations to be made to the Senate to maintain high academic standard and keeping in view the above-mentioned suggestions of the Senate. Therefore, this agenda was deferred.

ITEM 28.6: Change of name for the existing minor program of AASE to "Minor in Astronomy and Space Sciences."

The Senate approved change of name of existing minor program in Astronomy to **"Minor program in Astronomy and Space Engineering"**.

ITEM 28.7: Change of MTech program in Production and Industrial Engineering (PIE) to MTech in Advanced Manufacturing (AM) with the revised course structure wef from AY 2022-23

The Senate discussed the proposal for the change of name of existing MTech Program in “Production and Industrial Engineering” (PIE) to MTech program in “Advanced Manufacturing” (AM) with the revised course structure wef from AY 2022-23.

The Senate approved this proposal and suggested ***to include practical components in the new courses offered in the revised MTech program.***

ITEM 28.8: Syllabi of courses of MS Degree Program in Data Science and Management jointly by IIT Indore and IIM Indore

The Senate discussed the Course Structure and Syllabi of MS Degree Program in Data Science and Management being started jointly by IIT Indore and IIM Indore and also draft MoU and recommended the same to the BoG with the following suggestions:

- 1. Fee structure and payment mode to be put up to the FC and BoG*
- 2. To start the program latest by Feb 2022 i.e within 3 months from the date of signing of MoU.*
- 3. Feasibility of incorporating practical components may be explored. The courses to include assignments.*

IIM Indore Director Prof. Himanshu Rai appreciated the initiative and efforts taken by Prof. Neelesh Kumar Jain since Sep 2020 to start such degree program jointly by IIT Indore and IIM Indore and appreciated the efforts and work done by the Core Committee to finalize the structure and other details of the program.

Both Prof Jain and Prof. Rai expressed happiness that perhaps it is the first occasion when an IIT and an IIM have joined to start such a degree program in an important area such as Data Science and Management.

It was decided that a MoU will be signed on 8th Nov. 2021 in presence of the BoG Chairperson of IIT Indore Prof. D.B. Phatak.

ITEM 28.9: Proposal to restructure the existing minor program in HSS to two minor programs i.e. one in Economics and other in Liberal Arts by School of HSS.

The Senate discussed the proposal and approved the following:

- 1. The proposed new minor programs will replace the existing Minor Program in HSS and hence there would be two minor programs i.e. (i) Minor program in Economics, and (ii) Minor program in Liberal Arts from the 2021 BTech batch onward.*
- 2. The course title of Industrial Organization to be changed to Industrial Economics*

3. School of HSS to coordinate with International Affairs and Outreach office for online/Offline teaching for French language courses.

ITEM 28.10: Proposal for Joint Ph.D. Degree program with foreign Universities/Institutions.

The Senate recommended to the BoG to start the joint degree programs with the following suggestions:

1. *Separate MoU to be signed with each University/ Institute specifying tenure of the MoU for offering Joint Degree Programs in line with the guidelines provided in the proposal.*
2. *Each MoU for joint degree programs to be approved separately by the Senate and reported to the BoG.*
3. *For Dual Degree programs, separate MoU to be signed with each Institute after approval by the BoG on recommendations by the Senate.*
4. *Each MoU for joint degree should have clarity of both the MoU signing Institutes/Universities on critical academic issues such as PhD/PG thesis examiners and their approval mechanism, mechanism of thesis evaluation and conduct of PhD/PG thesis viva, minimum semesters required for a student to submission his/her PhD thesis, maximum duration of the agreed PhD/PG program in the MoU, format of the degree, signing authorities in the degree, mechanism of awarding the degree.*

ITEM 28.11: Proposal for New and Revised Courses.

Senate discussed and approved the syllabus of the following courses with the observations mentioned against the course.

S. No	Course Code	Title of the Course	Contact Hours	Program for which course is offered	Date of Circulation	Faculty Members/ Scientist who undertake responsibility to teach this course	Remarks/ Observations
1.	MA 605/ MA 405	Differential Equations in Population Dynamics	2-0-2-3	UG and PG	5 th August 2021	Dr. Bapan Ghosh Dr. Santanu Manna	Recommended
2.	EE 661	Microwave Engineering	2-1-0-3	PG	25 th June 2021	Dr. Starship Ghosh Dr. Swaminathan R.	Cross-listing to be removed
3.	EE 662	Microwave Laboratory	0-0-3-1.5	PG	25 th June 2021	Dr. Satoshi Ghosh Dr. Swaminathan R.	Add theory course EE 661 as pre-requisite

Senate discussed the syllabus of the following courses and **deferred** the same for next meeting with the observations mentioned against each course.

S. No.	Course Code	Title of the Course	Contact Hours	Program for which course is offered	Date of Circulation	Faculty Members/ Scientist who undertake responsibility to teach this course	Remarks/ Observations
1	CAE 603/ CAE 403	Materials for Flexible Electronics	2-1-0-3	UG and PG	24 th Sep 2021	Dr. A.K. Kushwaha Dr. A.K. Das	To check overlapping with other similar courses

ITEM 28.12: Proposal to review the Minimum Educational Qualifications (MEQ) for PG (MTech and MS (Research) and Ph.D. Admission

The proposal was discussed keeping in view of the Ministry of Education notified requirement for faculty recruitment in CFTI which requires applicant to have 1st class in the degree preceding to the PhD irrespective of applicant category.

It was highlighted that Admitting students not having 1st class in their preceding degree (i.e. PG degree for applicant admitted with PG degree and applicants admitted with BTech/BE degree) in PhD programs of IIT Indore will put IIT Indore PhD graduates on disadvantage while applying for faculty position in CFTIs.

After detailed discussion it was sent back to the SPGC for more clarity after proper discussion keeping in view the above-mentioned facts.

ITEM 28.13: Proposal to start new MTech in Thermal Energy Systems in the Department of Mechanical Engineering with option to convert MTech and PhD dual degree program from AY 2022-23

The Senate discussed the proposal and agreed in-principle to recommend it to the BoG approval with an intake of 5 students under TA category and conditions that (i) encouraging applicants under non-TA category such as FA, SW, DF for greater outreach and (ii) this program to be managed within the existing resources i.e. funding, faculty, staff, lab facilities, etc.

The Senate also suggested that elective courses of the proposed program are more appealing, relevant, and attractive with the name of the program therefore some of the elective courses should be made compulsory to make the new MTech program to be more employment and interest generating.

Revised course structure and syllabi to be presented in the next meeting of the Senate.

ITEM 28.14: Proposal to start new MS (R) degree program in Metallurgy Engineering and Materials Science with an option to convert to MS and PhD dual degree program.

The Senate deliberated on the proposal and deferred the same for more clarity in Minimum Educational Qualifications (MEQ) and Qualifying Exam (QE) criteria.

ITEM 28.15: Fee Structure for International Students for BTech Program

The Senate discussed the proposal and recommended to the FC and BoG for approval with the following fee structure for International Students including OCI/PIO joining B.Tech. at IIT Indore

Particulars	Fee	Remarks
Tuition Fee	INR 6,00,000/ (As per MoE mandate)	INR 3,00,000/- per semester
Other charges (including living charges)	As applicable to the Indian Students per semester	
Dining charges	As applicable charges to be directly paid to the Caterer on the actual use basis	
Any other applicable charges	As notified by the Institute from time to time	
(The fee amount shall be payable in USD as per the exchange rate as on the date of payment)		

ITEM 28.16: Guidelines for utilization of Research grant/ Contingency of PMRF students

The Senate deliberated on the guidelines for utilization of the research grant from PMRF and recommended the same to the FC and BoG approval with following recommendations:

1. The Indent and expenditure up to and including Rs. 1,00,000/- (Rupees One Lakh only) to be approved by the supervisor of the concerned PMRF student.
2. The Indent and expenditure above Rs 1,00,000/- and (Rupees One Lakh only) to be approved by the Dean R&D on recommendations by the supervisor of the concerned PMRF student as per the delegation of Financial Powers by the Institute.
3. Machine/Equipment/Devices procured from the PMRF research grant to be retained by the Institute with entry in its register of the Assets i.e the

concerned PhD student cannot take it after completion his/her PhD program.

4. Laptop, PCs, books, computer accessories, external hard drives, pen-drives etc. may be retained by the Research Scholar on payment of depreciated / residual value as per Institute norms.

Item for Ratification

ITEM 28.17: Recipient of Institute Medal for Best All-Round Performance to be conferred during the 9th Convocation of the Institute.

The Senate recommended to the BoG the following student for award of silver medal during the 9th Convocation for the best all-round performance among all graduating students of all the academic program:

S. No.	Roll No.	Student Name	Program	Department
1	170002045	Shaik Nemath Ahmed	BTech	Electrical Engineering

ITEM 28.18: Any other item with the permission of the Chair.

The Senate Secretary presented the Invitation card for the 9th Convocation to all the members and took the opportunity to extend invitation to all the members to attend Dedication ceremony of newly constructed Nalanda Auditorium scheduled on 8th Nov 2021 and the Convocation on 9th Nov 2021.

The meeting concluded with thanks to the Chair.



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



(Prof. Neelesh Kumar Jain)
Director (Officiating) and Chairperson Senate

