



Indian Institute of Technology Indore

Minutes of the 51st meeting of the Senate held on 12th March, 2025 (Wednesday) 15:30 hrs. at Sandipani Seminar Hall, IIT Indore.

The following members attended the meeting:

Chairperson		
1	Prof. Suhas S. Joshi	Director, IIT Indore
Deans		
2	Prof. Vipul Singh	Dean, Academic Affairs
3	Prof. Srivathsan Vasudevan	Dean, Student Affairs
4	Prof. Manish Kumar Goyal (present online)	Dean, Infrastructure Development
5	Prof. Abhirup Datta (present online)	Dean, Research and Development
6	Prof. Devendra L. Deshmukh (present online)	Dean, Educational Outreach
7	Prof. Satya S. Bulusu (present online)	Dean, IT Infrastructure and Automation
8	Prof. Suman Mukhopadhyay (present online)	Dean, Alumni and Corporate Relations
Head of Departments		
9	Dr. Abhishek Rajput	HoD, Civil Engineering
10	Dr. Ranveer Singh	HoD, Computer Science and Engineering
11	Prof. Vivek Kanhangad	HoD, Electrical Engineering
12	Prof. Shanmugam Dhinakaran (present online)	HoD, Mechanical Engineering
13	Dr. Ajay Kumar Kushwaha (present online)	HoD, Metallurgical Engineering and Materials Science
14	Dr. Parimal Kar	HoD, Biosciences and Biomedical Engineering
15	Dr. Saurabh Das	HoD, Astronomy, Astrophysics and Space Engineering
16	Prof. Tushar Kanti Mukherjee (present online)	HoD, Chemistry
17	Dr. Sanjeev Singh (present online)	HoD, Mathematics
18	Prof. Preeti A. Bhobe	HoD, Physics
19	Prof. Ruchi Sharma (present online)	HoD, Humanities and Social Sciences
Professors		
20	Prof. Anand Parey	Mechanical Engineering
21	Prof. Abhinav Kranti (present online)	Electrical Engineering
22	Prof. Krushna R. Mavani	Physics
23	Prof. Prabhat Kumar Upadhyay (present online)	Electrical Engineering
24	Prof. Trapti Jain	Electrical Engineering
25	Prof. I.A. Palani	Mechanical Engineering
26	Prof. Ritunesh Kumar	Mechanical Engineering
27	Prof. Aruna Tiwari (present online)	Computer Science and Engineering



28	Prof. Prashant Kodgire (present online)	Biosciences and Biomedical Engineering
29	Prof. Sk. Safique Ahmad (present online)	Mathematics
30	Prof. Nirmala Menon	Humanities and Social Sciences
31	Prof. Pritee Sharma (present online)	Humanities and Social Sciences
32	Prof. Ruchi Sharma (present online)	Humanities and Social Sciences
33	Prof. Rajesh Kumar (present online)	Physics
34	Prof. Sudeshna Chattopadhyay	Physics
35	Prof. Parasharam M. Shirage	Metallurgical Engineering and Materials Science
36	Prof. Raghunath Sahoo	Physics
37	Prof. Amod C. Umarikar	Electrical Engineering
38	Prof. Vivek Kanhangad	Electrical Engineering
39	Prof. Pankaj Ramesh Sagdeo	Physics
40	Prof. Ankhi Roy	Physics & ADOA UG
41	Prof. Tushar Kanti Mukherjee (present online)	Chemistry
42	Prof. Chelvam Venkatesh (present online)	Chemistry
43	Prof. Kiran Bala (present online)	Biosciences and Biomedical Engineering
44	Prof. Anirban Sengupta (present online)	Computer Science and Engineering
45	Prof. Rupesh Shivaji Devan (Present online)	Metallurgical Engineering and Materials Science
46	Prof. Pavan Kumar Kankar (present online)	Mechanical Engineering
47	Prof. Sharad Gupta	Biosciences and Biomedical Engineering
48	Prof. Surya Prakash (present online)	Computer Science and Engineering
49	Prof. Somnath Dey	Computer Science and Engineering & ADOA PG
50	Prof. Sanjaram Premjit Khanganba (present online)	Humanities and Social Sciences
51	Prof. M. Tanveer	Mathematics
52	Prof. Shailesh Kundalwal (present online)	Mechanical Engineering
Other Authorities		
53	Prof. Sharad Gupta	Convener, Health Center Advisor Committee
54	Dr. Anand Petare	Workshop Superintendent, Central Workshop
Special Invitees		
55	Dr. Saptarshi Ghosh	Convener, DPGC, Department of Electrical Engineering
56	Dr. Subhadeep Paladhi	Programme Coordinator, M.Tech. in PSPE, Department of Electrical Engineering
57	Dr. Kumar Gaurav	Assistant Registrar, Academic Affairs
58	Mr. Tapesh Parihar	Section Officer, Academic Office
Secretary		
59	Mr. S. P. Hota	Registrar, IIT Indore
Leave of absence		
1	Shri. Unmesh D. Malshe	Director, RRCAT



2	Prof. Abhiram G. Ranade	Professor, Department of Computer Science and Engineering, IIT Bombay
3	Prof. Himanshu Rai	Director, IIM Indore
4	Prof. Sandeep Chaudhary	Dean, Administration
5	Prof. Avinash Sonawane	Dean, International Relations
6	Prof. Abhishek Srivastava	Dean, Faculty Affairs
7	Dr. Jayaprakash Murugesan	Chief Warden
8	Prof. G. S. Murthy	Biosciences and Biomedical Engineering
9	Prof. Amit Kumar	Biosciences and Biomedical Engineering
10	Prof. Mirza Saqib Baig	Biosciences and Biomedical Engineering
11	Prof. Rajneesh Misra	Chemistry
12	Prof. Apurba Kumar Das	Chemistry
13	Prof. Sampak Samanta	Chemistry
14	Prof. Sanjay Kumar Singh	Chemistry
15	Prof. Biswarup Pathak	Chemistry
16	Prof. Mobin Shaikh	Chemistry
17	Prof. Anjan Chakraborty	Chemistry
18	Prof. Neelima Devarakonda Satyam	Civil Engineering
19	Prof. Narendra S. Choudhary	Computer Science and Engineering
20	Prof. Kapil Ahuja	Computer Science and Engineering
21	Prof. Neminath Hubballi	Computer Science and Engineering
22	Prof. Ram Bilas Pachori	Electrical Engineering
23	Prof. Vimal Bhatia	Electrical Engineering
24	Prof. Santosh Kumar Vishvakarma	Electrical Engineering
25	Prof. Shaibal Mukherjee	Electrical Engineering
26	Prof. Mukesh Kumar	Electrical Engineering
27	Prof. Swadesh Kumar Sahoo	Mathematics
28	Prof. Antony Vijesh Villavarayan	Mathematics
29	Prof. Niraj Kumar Shukla	Mathematics
30	Prof. Neelesh Kumar Jain	Mechanical Engineering
31	Prof. Bhupesh Kumar Lad	Mechanical Engineering
32	Prof. Santosh Kumar Sahu	Mechanical Engineering
33	Prof. Satyajit Chatterjee	Mechanical Engineering
34	Prof. Kazi Sabiruddin	Mechanical Engineering
35	Prof. Santosh Sattappa Hosmani	Metallurgical Engineering and Materials Science
36	Prof. Subhendu Rakshit	Physics
37	Prof. Sarika Jalan	Physics
38	Prof. Somaditya Sen	Physics
39	General Secretary, Student Gymkhana	Ex-officio
40	Academic Secretary, Student Gymkhana	Ex-officio



ITEM 51.1: Welcome and Opening remarks by the Chairman, Senate.

The Chairperson, Senate welcomed all the members to the meeting.

The Chairperson, Senate also welcomed new HoD, Astronomy, Astrophysics and Space Engineering, he also thanked out-going HoD, Astronomy, Astrophysics and Space Engineering.

He conveyed thanks to Prof. Shailesh Kundalwal for his coordination educational proposal and secured INR 2.83 Cr. funding from National Technical Textiles Mission (NTTM) under Ministry of Textiles.

Further, he informed that Housing and Urban Development Corporation Limited (HUDCO) has donated INR 2.5 Cr. for the construction of one floor of PM AJAY Hostel at IIT Indore.

He also apprised Prof. Narendra S. Choudhary, Faculty of CSE of the Institute, will be superannuating on 31st March 2025.

ITEM 51.2: Confirmation of the minutes of the 50th Meeting of the Senate held on 19 February 2025.

The Senate confirmed the minutes of the 50th Meeting of the Senate held on 19 February 2025.

ITEM 51.3: Action Taken Report (ATR) on minutes of the 50th Meeting of the Senate held on 19 February 2025.

The Senate noted the actions taken on the decisions of the 50th Meeting of the Senate held on 19 February 2025

ITEM 51.4: Policy regarding fast-track submission of Ph.D. thesis (< 4 years) and other modalities.

The Dean, Academic Affairs, presented the agenda to the committee for discussion.

- The TA fellowship is available for 5 years duration.
- In case a student submits his/her PhD thesis in less than or equal to 4 yrs from the date of joining, s/he can continue to work under his/her supervisor as an RA for the remaining duration with the existing TA fellowship till the time PhD viva examination or completion of 5 years whichever happens earlier.
- This will especially be helpful to faculty members and enable them to hire another PhD student under TA category.
- However, in case the student submits thesis after 4 years from the date of joining, s/he will continue as a TA student only with the existing TA fellowship till the time PhD viva examination or completion of 5 years whichever happens earlier.
- Fast track students need to apply to the Academic office through proper channel.



No continuation Form will be required from students who are not in Fastrack mode. A detailed CERP report needs to be submitted at the time of the 4th CERP.

- No separate continuation form needs to be submitted by any PhD students at the end of 4 years. However, a CERP report with detailed work plan for 5th year needs to be submitted at the time of CERP through AROL to get better clarity about Thesis submission.
- These new rules will come into effect from 2nd April, 2025.

After the discussion, the Senate approved the same.

ITEM 51.5: Policy regarding MEQ for PG/ Ph.D. courses across Departments (regarding 1st class/ division).

The Dean, Academic Affairs, presented the agenda to the committee for discussion.

Marks CGPA/ CPI/ Percentage requirements in Qualifying Degrees: -

For UR/EWS/OBC(NC) category

- A minimum of 60% marks in aggregate, OR
- A First class as specified by the university, OR
- A minimum Cumulative Grade Point Average (CGPA) / Cumulative Performance Index (CPI) of 6.0 on a scale of 0 – 10, OR
- An equivalent to 6.0 CGPA/ CPI on other corresponding proportional requirements when the scales are other than 0 – 10.

For SC/ST/PwD category

- A minimum of 55% marks in aggregate, OR
- A First class as specified by the university, OR
- A minimum Cumulative Grade Point Average (CGPA) / Cumulative Performance Index (CPI) of 5.5 on a scale of 0 – 10, OR
- An equivalent to 5.5 CGPA/ CPI on other corresponding proportional requirements when the scales are other than 0 – 10.

After the discussion, the Senate approved the same. This will be implemented with immediate effect for all the departments.

ITEM 51.6: Course Structure of M.Tech. Program in Power Systems and Power Electronics with Syllabi of courses.

The Program Coordinator, M.Tech. in Electrical Engineering with specialization in Power Systems and Power Electronics (PSPE), Department of Electrical Engineering presented the following course structure and detailed syllabi of M.Tech. Program in Power Systems and Power Electronics.



Course Structure of M.Tech. / M.Tech. + Ph.D. Dual Degree Program in

Power Systems and Power Electronics (from AY 2025-26)

Minimum Educational Qualification: Four-year bachelor's degree or five-year integrated degree (with first division as defined by the awarding Institute/ University for Indian applicants and equivalent to international applicants, as assessed by the Institute) in Electrical Engineering or Electrical and Electronics Engineering or Power Engineering or Power and Control Engineering. Relaxation on CPI/CPGA or percentage marks of the qualifying degree is applicable as per Government of India rules.

Qualifying Examination:

- (a) **Indian Students:** Valid GATE qualification in Electrical Engineering (EE) or in Instrumentation Engineering (IN) or in Electronics and Communication Engineering (EC).
 (b) **International Students:** Valid score of TOEFL or IELTS and valid score of GRE.

Categories of Admission:

- (a) **International Students:** (i) International self-financed (ISF) students; (ii) International students sponsored by non-government organizations or by a reputed industry (ISW); (iii) International students sponsored by foreign government or its organizations or through mutual collaborative programs of India with other countries (GSW)
 (b) **Indian Students:** Teaching Assistantship (TA); (ii) Highly motivated sponsored candidate (SW) on full-time basis from highly reputed R & D organizations such as DRDO, ISRO, BHEL, C-DAC, ADE, ADA, etc. and highly reputed Industries; (iii) Defence Forces (DF): Candidates sponsored by the Defence Forces; (iv) Regular institute staff (IS) of IIT Indore on part-time basis only.

Candidates of SW, DF and IS categories will not be eligible for TA scholarship.

Duration of Program: 2 years on full-time basis.

Number of approved seats under TA category: 10 (reservation will be applicable as per the GoI norms)

Course Structure of 2-Year Full Time M. Tech. Program in Power Systems and Power Electronics

1st Year: Semester-I

Course Code		Course Title					Contact hours (L-T-P)	Credits
EE 607		Power System Operation and Control					2-1-0	3
EV 605/ EE 6XX		Electric Machines and Drives					2-0-2	3
EE 6XX/ EV 6XX		Elective - I (one from Group A)					X-X-X	3
EE 6XX	Elective - II	(all three from Group B) (Credits: 3 × 1.5 = 4.5)	OR	EE 6XX/ EV 6XX	Elective - II	(one from Group A) (Credit: 3)	4.5	
EE 6XX	Elective - III			EE 6XX	Elective - III	(one from Group B)		
EE 6XX	Elective - IV					(Credit: 1.5)		
EE 65X		Power Systems Lab					0-0-4	2



EE 6XX	Mini Project - 1	0-0-3	1.5
Total minimum credits earned during the semester			17
Additional course (as per the requirement basis)			
HS 641	English Communication Skills	2-0-2	PP/NP

1st Year: Semester-II

Course Code		Course Title					Contact hours (L-T-P)	Credits
EE 484/ EE 684		Power System Protection					2-1-0	3
EE 601/ EE 401C		Power Electronics					2-1-0	3
EE 6XX/ EV 6XX		Elective – V (one from Group C)					X-X-X	3
EE 6XX	Elective – VI	(all three from Group D) (Credits: 3 × 1.5 = 4.5)	OR	EE 6XX/ EV 6XX	Elective – VI	(one from Group C) (Credit: 3)	4.5	
EE 6XX	Elective – VII			EE 6XX	Elective – VII	(one from Group D) (Credit: 1.5)		
EE 6XX	Elective – VIII							
EE 65X		Power Electronics Lab					0-0-4	2
EE 6XX		Mini Project - 2					0-0-3	1.5
EE 698		PG Seminar course					0-2-0	2
Total minimum credits earned during the semester								19

2nd Year: Semester-III

Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 799	M. Tech. Research Project (Stage-I)	0-0-36	18
Total minimum credits earned during the semester			18



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2nd Year: Semester-IV

Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 800	M. Tech. Research Project (Stage-II)	0-0-36	18
Total minimum credits earned during the semester			18

Total minimum credits to be earned during the program: 72

Suggested Elective courses under Group-A® (Departmental/ Allied Electives (Full Semester))

Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 603	Optimization Techniques	2-1-0	3
EE 641/ EE 441	Advanced Signal Processing	2-1-0	3
EE 645	Mathematical Methods for Signal Processing	2-1-0	3
EV 608/ EV 408	Hybrid Electric Vehicles	2-1-0	3
EV 607/ EV 407	Energy Storage in Electric Vehicle	2-1-0	3

@In addition to this course list, a student can also opt any full-semester PG elective course being offered by the Department of Electrical Engineering (EE) or the Center for Electric Vehicles and Intelligent Transport Systems (CEVITS) allied with the program.

Suggested Elective courses under Group-B* (Departmental Electives (Half Semester))

Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 4XX/ EE 6XX	Power System Modelling	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Power System Stability	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Design of Electric Motors	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Linear Systems Theory	2-1-0 (Half Semester)	1.5

*In addition to this course list, a student can also opt any half-semester PG elective course being offered by the Department of Electrical Engineering (EE) allied with the program.

Suggested Elective courses under Group-C® (Departmental/ Allied Electives (Full Semester))



Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 610/ EE 410	Power Electronics Applications to Power Transmission	2-1-0	3
EE 638/ EE 438	System on Programmable Chip Design	2-1-0	3
EV 602/ EV 402	Vehicular Communication System	2-1-0	3

@In addition to this course list, a student can also opt any full-semester PG elective course being offered by the Department of Electrical Engineering (EE) or the Center for Electric Vehicles and Intelligent Transport Systems (CEVITS) allied with the program.

Suggested Elective courses under Group-D* (Departmental Electives (Half Semester))

Course Code	Course Title	Contact hours (L-T-P)	Credits
EE 4XX/ EE 6XX	Deregulated Power Systems	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Cyber resiliency in Smart Grid	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Microgrids and Distributed Generation	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Optimal and Adaptive Control	2-1-0 (Half Semester)	1.5
EE 4XX/ EE 6XX	Electromagnetic Interference and Compatibility	2-1-0 (Half Semester)	1.5

*In addition to this course list, a student can also opt any half-semester PG elective course being offered by the Department of Electrical Engineering (EE) allied with the program.

NOTE:

1. Request for conversion from M.Tech. to M.Tech. + Ph.D. dual degree will be considered after evaluating the research potential of the promising and motivated PG students at the end of the **third semester of their program**.
2. If a student opts for the Dual Degree Program but cannot complete the requirements of a Ph.D., an **exit option** with the M.Tech. degree can be earned at the end of the final semester of the normal M.Tech. Program by getting the M.Tech. Research Project examined in the standard manner as per the requirements for the award of an M.Tech. degree.
3. The enhancement in the scholarship will be from the beginning of the fifth semester or from the date on which all requirements for the award of M.Tech. degree are fulfilled, whichever is later.

The cross listings of the courses to be offered have to be discussed in subsequent meetings of Senate in consultation with SPGC.

After the discussion, the Senate approved the program, course structure and its syllabi to be started from AY 2025-26, subject to approval from the FC and BoG.



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ITEM 51.7: Modification in the Minimum Educational Qualification (MEQ) of the M.Tech. and MS (R) program offered by the Department of Computer Science and Engineering.

The HoD, Computer Science Engineering presented the agenda to the committee for discussion.

Modification of the CSE M.Tech and MS program's minimum eligibility qualification

Four-year Bachelor's degree in Computer Science and Engineering, Information Technology, Electronics and Communication Engineering or Electronics Engineering or Electrical Engineering (with first division/ first class/ as defined by the awarding Institute/ University or Equivalent grade for Indian applicants and equivalent to International applicants, as assessed by the Institute).

Additional Specialization as mentioned below:

1. Computer Engineering
2. Artificial Intelligence and Machine Learning
3. Computer Engineering (Software Engineering)
4. Computer Engineering and Application
5. Computer Networking
6. Computer Science and Applied Mathematics
7. Computer Science and Biosciences
8. Computer Science and Design
9. Computer Science and Business Systems
10. Computer Science and Engineering (Networks)
11. Computer Science and Engineering and Business Systems
12. Computer Science and Information Technology
13. Computer Science and Medical Engineering
14. Computer Science and Social Sciences
15. Computer Science and Systems Engineering
16. Computer Science and Technology
17. Computer Technology
18. Computing in Multimedia
19. Computing in Software
20. Information Engineering
21. Information Science and Engineering
22. Information Technology
23. Information Science and Technology
24. Information Technology and Engineering

After the discussion, the Senate approved the same.



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ITEM 51.8: Consideration of Joint Entrance Screening Test (JEST) examination for Ph.D. admission at the Department of Physics, IITI under the TA-category.

HoD, Department of Physics presented the agenda to the committee for discussion to consideration of Joint Entrance Screening Test (JEST) examination for Ph.D. admission at the Department of Physics, IITI under the TA-category with fellowship.

After the deliberation, the Senate approved the same to be implemented from AY 2025-26.

ITEM: 51.9: Reporting Items:

51.9.1 Approval of the redemption of the credits of additional Learning courses with the credit of open elective of the 8th Semester.

The Senate approved the same.

51.9.2 Modification in the Minimum Educational Qualification (MEQ) and Qualifying Exam (QE) for PG Programs.

The Senate approved the same.

ITEM: 51.10: Any other item with the permission of the Chair.
Nil.

The meeting ended with thanks to the Chair.



(Professor Suhas S. Joshi)
Director and Chairperson, Senate



(S. P. Hota)

Registrar and Secretary, Senate