



Indian Institute of Technology Indore

Minutes of the 41st meeting of the Senate held on 28 March 2024 (Thursday) at 14:00 hrs. at Maitreyi Seminar Hall, IIT Indore.

Following members attended the meeting:

Chairperson		
1	Prof. Suhas S. Joshi	Director, IIT Indore
Deans		
2	Prof. Vipul Singh	Dean, Academic Affairs
3	Prof. Manish Kumar Goyal (present online)	Dean, Infrastructure Development
4	Prof. I. A. Palani	Dean, Research and Development
5	Prof. Suman Mukhopadhyay	Dean, Alumni and Corporate Relations
6	Prof. Abhishek Srivastava	Dean, Faculty Affairs
Head of Departments		
7	Dr. Abhishek Rajput	HoD, Civil Engineering
8	Dr. Ranveer Singh	HoD, Computer Science and Engineering
9	Prof. Vivek Kanhangad (present online)	HoD, Electrical Engineering
10	Prof. Shanmugam Dhinakaran (present online)	HoD, Mechanical Engineering
11	Dr. Ajay Kumar Kushwaha	HoD, Metallurgical Engineering and Materials Science
12	Prof. Amit Kumar (present online)	HoD, Biosciences and Biomedical Engineering
13	Dr. Manoneeta Chakraborty	Acting HoD, Astronomy, Astrophysics and Space Engineering
14	Prof. Tushar Kanti Mukherjee	HoD, Chemistry
15	Dr. Vijay Kumar Sohani (present online)	Acting HoD, Mathematics
16	Prof. Preeti A. Bhobe	HoD, Physics
17	Prof. Ruchi Sharma	HoD, Humanities and Social Sciences
Professors		
18	Prof. Neelesh Kumar Jain	Mechanical Engineering
19	Prof. Suman Mukhopadhyay	Chemistry
20	Prof. Krushna R. Mavani	Physics
21	Prof. Manish Kumar Goyal (present online)	Civil Engineering
22	Prof. I. A. Palani	Mechanical Engineering



23	Prof. Santosh Kumar Sahu	Mechanical Engineering
24	Prof. Dhinakaran Shanmugam (present online)	Mechanical Engineering
25	Prof. Aruna Tiwari (present online)	Computer Science and Engineering
26	Prof. Abhishek Srivastava	Computer Science and Engineering
27	Prof. Abhirup Datta (present online)	Astronomy, Astrophysics and Space Engineering
28	Prof. Amit Kumar (present online)	Biosciences and Biomedical Engineering
29	Prof. Prashant Kodgire	Biosciences and Biomedical Engineering
30	Prof. Apurba Kumar Das	Chemistry
31	Prof. Sanjay Kumar Singh	Chemistry
32	Prof. Nirmala Menon	Humanities and Social Sciences
33	Prof. Ruchi Sharma	Humanities and Social Sciences
34	Prof. Preeti Anand Bhohe	Physics
35	Prof. Rajesh Kumar	Physics
36	Prof. Sudeshna Chattopadhyay	Physics
37	Prof. Parasharam M. Shirage (present online)	Metallurgical Engineering and Materials Science
38	Prof. Swadesh Kumar Sahoo	Mathematics
39	Prof. Raghunath Sahoo	Physics
40	Prof. Amod C. Umarikar	Electrical Engineering
41	Prof. Vivek Kanhangad (present online)	Electrical Engineering
42	Prof. Ankhi Roy	Physics
43	Prof. Mobin Shaikh	Chemistry
44	Prof. Tushar Kanti Mukherjee	Chemistry
45	Prof. Chelvam Venkatesh (present online)	Chemistry
46	Prof. Kiran Bala (present online)	Biosciences and Biomedical Engineering
47	Prof. Anirban Sengupta (present online)	Computer Science and Engineering
48	Prof. Rupesh Shivaji Devan	Metallurgical Engineering and Materials Science
49	Prof. Santosh Sattappa Hosmani	Metallurgical Engineering and Materials Science
50	Prof. Satyajit Chatterjee (present online)	Mechanical Engineering
51	Prof. Pavan Kumar Kankar (present online)	Mechanical Engineering
Other Authorities		
52	Dr. Sharad Gupta	Convener, Health Center Advisor Committee
53	Dr. Anand Petare	Workshop Superintendent, Central Workshop
Special Invitees		
54	Mr. Neeraj Kumar	Assistant Registrar, Academic Affairs
55	Mr. Tapes Parihara	Section Officer, Academic Office
Secretary		



56	Mr. S. P. Hota	Registrar, IIT Indore
Leave of absence		
57	Prof. Himanshu Rai	Director, IIM Indore
58	Dr. Shankar V. Nakhe	Director, RRCAT
59	Prof. Abhiram G. Ranade	Professor, Department of Computer Science and Engineering, IIT Bombay
60	Prof. Sandeep Chaudhary	Dean, Administration
61	Prof. Avinash Sonawane	Dean, International Relation
62	Prof. Srivathsan Vasudevan	Dean, Student Affairs
63	Prof. Devendra L. Deshmukh	Dean, Educational Outreach
64	Prof. Narendra S. Choudhary	Computer Science and Engineering
65	Prof. Anand Parey	Mechanical Engineering
62	Prof. Ram Bilas Pachori	Electrical Engineering
63	Prof. Abhinav Kranti	Electrical Engineering
64	Prof. Vimal Bhatia	Electrical Engineering
65	Prof. Rajneesh Misra	Chemistry
66	Prof. Subhendu Rakshit	Physics
67	Prof. Sarika Jalan	Physics
68	Prof. Sandeep Chaudhary	Civil Engineering
69	Prof. Avinash Sonawane	Biosciences and Biomedical Engineering
70	Prof. G. S. Murthy	Biosciences and Biomedical Engineering
71	Prof. Santosh Kumar Vishvakarma	Electrical Engineering
72	Prof. Shaibal Mukherjee	Electrical Engineering
73	Prof. Prabhat Kumar Upadhyay	Electrical Engineering
74	Prof. Trapti Jain	Electrical Engineering
75	Prof. Mukesh Kumar	Electrical Engineering
76	Prof. Neelima Devarakonda Satyam	Civil Engineering
77	Prof. Bhupesh Kumar Lad	Mechanical Engineering
78	Prof. Ritunesh Kumar	Mechanical Engineering
79	Prof. Kapil Ahuja	Computer Science and Engineering
80	Prof. Sk. Safique Ahmad	Mathematics
81	Prof. Sampak Samanta	Chemistry
82	Prof. Biswarup Pathak	Chemistry
83	Prof. Pritee Sharma	Humanities and Social Sciences
84	Prof. Srivathsan Vasudevan	Electrical Engineering
85	Prof. Devendra L. Deshmukh	Mechanical Engineering
86	Prof. Pankaj Ramesh Sagdeo	Physics
87	Prof. Somaditya Sen	Physics
88	Prof. Anjan Chakraborty	Chemistry
89	Prof. Satya Silendra Bulusu	Chemistry
90	Prof. Mirza Saqib Baig	Biosciences and Biomedical Engineering
91	Prof. Neminath Hubballi	Computer Science and Engineering



92	Prof. Antony Vijesh Villavarayan	Mathematics
93	Prof. Niraj Kumar Shukla	Mathematics
94	Prof. Kazi Sabiruddin	Mechanical Engineering
95	Dr. Jayaprakash Murugesan	Chief Warden
96	General Secretary, Student Gymkhana	Ex-officio
97	Academic Secretary, Student Gymkhana	Ex-officio

ITEM 41.1: Welcome and Opening remarks by the Chairperson, Senate.

The Chairperson, Senate welcomed all the members to the meeting. He informed the Senate about the inauguration of the **Centre for Experiential Learning on Innovation, Technology and Entrepreneurship (C-ELITE)** of IIT Indore at Ujjain Engineering College, Ujjain. This centre is an important initiative, which will benefit the students, teachers, and industrial workers for enhancement of their experiential learning. Initially, three laboratory facilities will be extended to students of Ujjain Engineering College (i) Makerspace laboratory (ii) Laser laboratories (iii) Astrophysics and Astronomy laboratories.

Chairperson Senate also acknowledged the contributions made by Late Prof. Bimla Buti and recognized her efforts towards creation/initiation of 'Buti Foundation Gold Medal Award' for the Best women student (graduating) for master's program in IIT Indore.

ITEM 41.2: Confirmation of the minutes of the 40th meeting of Senate held on 25 January 2024.

The Senate confirmed the minutes of its 40th meeting of Senate held on 25 January 2024.

ITEM 41.3: Action Taken Report (ATR) on minutes of 40th meeting of Senate held on 25 January 2024.

The Senate noted the actions taken on the decisions of the 40th meeting of Senate held on 25 January 2024.

ITEM 41.4: Revamping the procedure of Comprehensive Evaluation of Research Progress (CERP).

Dean, Academic Affairs, made presentation about revamping of the modalities regarding conduct of Comprehensive Evaluation of Research Progress (CERP) to the Senate based on the recommendation of 54th meeting of Senate Postgraduate Committee (SPGC).

The Senate discussed and approved the same with the following remarks as given below:

- (i) Initiation of CERP must be done by the Ph.D. student instead of Thesis supervisor(s) over the new AROL before the deadline (as applicable).

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- (ii) Notification of CERP/JRF to SRF upgradation/Open Seminar/Viva should be done through e-notice board portal of the Academic Office. Any other mode of circulation viz. via e-mail to all faculty members must be avoided.
- (iii) The Ph.D. students will submit a report on their research work up to 10 pages for CERP at least one week prior to the conduct of CERP seminar. For non-CERP semester students will submit a 2 pages report at least one week prior to the last date of the grade submission of ZZ 899 Ph.D. Thesis course. This will be mandatory for students joining the Ph.D. program from the 2024-Autumn Semester onwards. For the existing students, submission of the report/publications (arising out of research work) may be submitted, as it is good practice to be adopted by the Ph.D. students.
- (iv) The deadline for annual CERP cycles will be 31st July and 31st January every year, in place of the existing deadline for annual CERP cycle of 30th April and 31st October.
- (v) The deadline for grade submission of ZZ 899 by the Thesis Supervisor(s) will be same as the deadline for conduct of CERP viz. 31st July and 31st January.
- (vi) All efforts should be made to adhere strictly to the above deadlines. Permission for late CERP is to be sought from Dean, Academic Affairs, through proper channel and with proper justification for the same.
- (vii) CERP/JRF to SRF upgradation/Open Seminar/Viva must be conducted on working days and during the working hours.
- (viii) The Thesis supervisor and all PSPC members will collectively award the overall SS/US grade evaluating the work carried by the student and submit their individual assessment over the portal. The remarks must be in the form of Excellent/Good/Poor.
- (ix) After initiation of CERP evaluation report, the same must be routed through DPGC/ CPGC Convener and The Head of Department (HoD)/ center Head respectively. HoD/center Head will approve the CERP evaluation report in place of SPGC Convener, over the academic portal (new-AROL).

ITEM 41.5: Introduction of comprehensive examination for newly admitted Ph.D. students.

Dean, Academic Affairs presented the introduction of comprehensive examination for newly admitted Ph.D. students to the Senate based on the recommendation of 54th meeting of Senate Postgraduate Committee (SPGC).

The Senate discussed and approved the same with the following remarks as given below:

- (i) The first Comprehensive Evaluation of Research Progress (CERP) should be a comprehensive examination, i.e. within 12 months of joining the Ph.D. program.
- (ii) Comprehensive examination will have three components as listed below:
I: Written Test - 40% marks



II: Viva – 40 % marks

III: Research Plan – 20% marks

The passing percentage of marks for comprehensive examination will be 60%.

- (iii) The entire evaluation of all the components will be carried out by the Thesis Supervisor(s) and PSPC members. The questions/ topics for the viva examination shall be from the course work/ relevant research topics studied by the candidate and as prescribed by the PSPC. Preparation of question paper and conducting the written component of comprehensive examination will be the responsibility of the Thesis Supervisor(s).
- (iv) In case a student is unable to clear the comprehensive examination in the first attempt, the concerned student may again appear for the same 18 months from the date of joining the PhD program (24 months for the part time students). This would be the last and final attempt for the student. If the concerned student is unable to clear the comprehensive examination in his/her second attempt as well, he/she may be recommended for an early exit option from the PhD program of the respective department with a master's degree/ course completion certificate. The nature and title of the master's degree will be deliberated in the future Senate meeting.
- (v) Comprehensive examination will be mandatory for students joining Ph.D. program under any category, from the Academic Year 2024-25 onwards.
- (vi) Students opting for internal conversion under dual degree program, from M.Sc./ M. Tech./ M.S. (Res) → Ph.D. shall be exempted from comprehensive examination, subject to all other eligibility criteria being fulfilled by them.

ITEM: 41.6: Introduction of new Ph.D. admission category of FAP and FAR.

Dean, Academic Affairs presented the introduction of new Ph.D. admission category of FAP (funded through Sponsored Research Project) and FAR (funded through Research Development Fund) to the Senate based on the recommendation of 54th meeting of Senate Postgraduate Committee (SPGC).

The Senate discussed and approved the same with the following remarks:

- i. If FAR student needs to be converted to TA admission category, the rules of FA to TA conversion will apply (as per Senate resolution 31.9). For candidates admitted under FAR, Minimum Educational Qualification (MEQ) and Qualifying Examination (QE) will be at par with the TA category students.
- ii. Candidates can be supported under FAR for any duration as per the recommendation of supervisor(s).

ITEM: 41.7: Proposed new courses for UG/PG/Ph.D. program.

The Senate deliberated the proposals of new courses, received from the different departments for UG/PG/Ph.D. program in consideration of recommendation of the joint meeting of 54th Senate Post Graduate Committee (SPGC) and 60th Senate



Undergraduate Committee (SUGC) meeting held on 22 March 2024 and the Senate approved the same with the following remarks.

S. N	Course code Title of the Course	Contact Hours	Program for which course is offered	Senate Remarks
1	BSE 642: Bio fabrication	1-0-4-3	PG, PhD	Approved
2	MM 487/ MM 687: Advanced Battery Technologies	2-1-0-3	UG, PG, PhD	Approved
3	EV 608: Advanced Fuel Technology	2-1-0-3	PG, PhD	Approved
4	EV 609: Advanced Engine Technology	3-0-0-3	PG, PhD	Approved with suggestion to include Fuel Cell in the course component.
5	CS 214: Foundations of Hardware Security	2-1-0-3	UG	Approved
6	EE 213: Fundamentals of Optimization	2-1-0-3	UG	Approved
7	EE 321: Design of Photovoltaic Systems	2-1-0-3	UG	Approved with suggestion to remove the word 'solar' in course content of Design of Integrated solar PV systems.
8	HS 617: Essential of Human Memory	2-1-0-3	PG, PhD	Approved

ITEM: 41.8: Items for Information:

41.8.1: Approval of new course "ZZ 499: UG Project" for in-bound program.

The senate approved the same.



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41.8.2: Proposal to make GATE qualification mandatory at the time of Ph.D. admission for the students having a B.E./ B.Tech./ M.Sc. or equivalent degree; or M.E./ M.Tech. degree for admission under TA/ FA (project) category.

The senate approved with remarks that the Ph.D. students who join under FA (Project) (FAP)/FAR category and apply for conversion to the TA category after the completion of project tenure and fulfilling the criteria (as per Senate resolution no 31.9), the valid GATE score is not compulsory at the time of conversion. However, it must be ensured at the time of admission for B.E./ B.Tech. /M.Sc. candidates.

41.8.3: Modification in the constitution of Oral Examination Board (OEB) for MS (Research) program.

The senate approved the same.

41.8.4: Proposal to modify the Minimum Educational Qualifications (MEQs) for Ph.D. admission in the Department of Computer Science and Engineering.

The senate approved the same.

ITEM: 41.9: Any other item with the permission of the Chair.
Nil.



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



(Mr. S. P. Hota)
Registrar and Secretary, Senate