



Indian Institute of Technology Indore

Minutes of the 54th meeting of the Senate held on 25th June, 2025 (Wednesday) 15:00 hrs. at PoD 1D 105 at IIT Indore.

Attendance of Members of Senate of IIT Indore

Chairman		Director, IIT Indore	Mode of Attendance
Professor Suhas S. Joshi		Director, IIT Indore	Present
External Experts			
1	Professor Himanshu Rai	Director, IIM Indore	Leave of Absence
2	Shri Unmesh D. Malshe	Director, RRCAT	Leave of Absence
3	Professor Abhiram G. Ranade	Professor, IIT Bombay	Leave of Absence
Deans			
4	Professor Vipul Singh	Dean, Academic Affairs	Present
5	Professor Sandeep Chaudhary	Dean, Administration	Online Attended
6	Professor Avinash Sonawane	Dean, International Relations	Online Attended
7	Professor Pankaj R. Sagdeo	Dean of Infrastructure Development	Present
8	Professor Abhirup Datta	Dean, Research and Development	Present
9	Professor Srivathsan Vasudevan	Dean, Student Affairs	Leave of Absence
10	Professor Suman Mukhopadhyay	Dean, Alumni and Corporate Relations	Online Attended
11	Professor Abhishek Srivastava	Dean, Faculty Affairs	Leave of Absence
12	Professor Devendra L. Deshmukh	Dean, Educational Outreach	Present
13	Prof. Satya S. Bulusu	Dean, IT Infrastructure & Automation	Leave of Absence
Head of Departments			
14	Dr. Abhishek Rajput	HOD, Civil Engineering	Leave of Absence
15	Dr. Ranveer Singh	HOD, Computer Science and Engineering	Present
16	Professor Vivek Kanhangad	HOD, Electrical Engineering	Online Attended
17	Professor Shanmugam Dhinakaran	HOD, Mechanical Engineering	Present
18	Dr. Ajay Kumar Kushwaha	HOD, Metallurgical Engineering and Materials Science	Present
19	Dr. Parimal Kar	HOD, Biosciences and Biomedical Engineering	Present



20	Dr. Saurabh Das	HOD, Astronomy, Astrophysics and Space Engineering	Present
21	Professor Tushar Kanti Mukherjee	HOD, Chemistry	Leave of Absence
22	Dr. Sanjeev Singh	HOD, Mathematics	Present
23	Professor Preeti A. Bhobe	HOD, Physics	Present
24	Professor Ruchi Sharma	HOD, Humanities and Social Sciences	Present
Professors			
25	Professor Neelesh Kumar Jain	Mechanical Engineering	Leave of Absence
26	Professor Anand Parey	Mechanical Engineering	Leave of Absence
27	Professor Ram Bilas Pachori	Electrical Engineering	Leave of Absence
28	Professor Abhinav Kranti	Electrical Engineering	Leave of Absence
29	Professor Vimal Bhatia	Electrical Engineering	Leave of Absence
30	Professor Rajneesh Misra	Chemistry	Leave of Absence
31	Professor Suman Mukhopadhyay	Chemistry	Online Attended
32	Professor Subhendu Rakshit	Physics	Leave of Absence
33	Professor Krushna R. Mavani	Physics	Online Attended
34	Professor Sarika Jalan	Physics	Online Attended
35	Professor Sandeep Chaudhary	Civil Engineering	Online Attended
36	Professor Avinash Sonawane	Biosciences and Biomedical Engineering	Online Attended
37	Professor G. S. Murthy	Biosciences and Biomedical Engineering	Leave of Absence
38	Professor Santosh Kumar Vishvakarma	Electrical Engineering	Present
39	Professor Shaibal Mukherjee	Electrical Engineering	Leave of Absence
40	Professor Vipul Singh	Electrical Engineering	Present
41	Professor Prabhat Kumar Upadhyay	Electrical Engineering	Leave of Absence
42	Professor Trapti Jain	Electrical Engineering	Leave of Absence
43	Professor Mukesh Kumar	Electrical Engineering	Leave of Absence
44	Professor Manish Kumar Goyal	Civil Engineering	Leave of Absence
45	Professor Neelima Devarakonda Satyam	Civil Engineering	Leave of Absence
46	Professor Palani Iyamperumal Anand	Mechanical Engineering	Online Attended
47	Professor Bhupesh Kumar Lad	Mechanical Engineering	Leave of Absence
48	Professor Santosh Kumar Sahu	Mechanical Engineering	Leave of Absence
49	Professor Ritunesh Kumar	Mechanical Engineering	Present
50	Professor Dhinakaran Shanmugam	Mechanical Engineering	Present
51	Professor Aruna Tiwari	Computer Science and Engineering	Leave of Absence



52	Professor Abhishek Srivastava	Computer Science and Engineering	Leave of Absence
54	Professor Kapil Ahuja	Computer Science and Engineering	Leave of Absence
54	Professor Abhirup Datta	Astronomy, Astrophysics and Space Engineering	Present
55	Professor Amit Kumar	Biosciences and Biomedical Engineering	Leave of Absence
56	Professor Prashant Kodgire	Biosciences and Biomedical Engineering	Online Attended
57	Professor Sk. Safique Ahmad	Mathematics	Present
58	Professor Apurba Kumar Das	Chemistry	Leave of Absence
59	Professor Sampak Samanta	Chemistry	Leave of Absence
60	Professor Sanjay Kumar Singh	Chemistry	Online Attended
61	Professor Biswarup Pathak	Chemistry	Leave of Absence
62	Professor Nirmala Menon	Humanities and Social Sciences	Present
63	Professor Pritee Sharma	Humanities and Social Sciences	Present
64	Professor Ruchi Sharma	Humanities and Social Sciences	Leave of Absence
65	Professor Preeti Anand Bhobe	Physics	Present
66	Professor Rajesh Kumar	Physics	Leave of Absence
67	Professor Sudeshna Chattopadhyay	Physics	Present
68	Professor Parasharam M. Shirage	Metallurgical Engineering and Materials Science	Present
69	Professor Swadesh K. Sahoo	Mathematics	Present
70	Professor Raghunath Sahoo	Physics	Leave of Absence
71	Professor Amod C. Umarikar	Electrical Engineering	Online Attended
72	Professor Vivek Kanhangad	Electrical Engineering	Online Attended
73	Professor Srivathsan Vasudevan	Electrical Engineering	Leave of Absence
74	Professor Devendra L. Deshmukh	Mechanical Engineering	Present
75	Prof. Pankaj Ramesh Sagdeo	Physics	Present
76	Prof. Ankhi Roy	Physics	Present
77	Prof. Somaditya Sen	Physics	Leave of Absence
78	Prof. Mobin Shaikh	Chemistry	Leave of Absence
79	Prof. Tushar Kanti Mukherjee	Chemistry	Leave of Absence
80	Prof. Anjan Chakraborty	Chemistry	Leave of Absence
81	Professor Satya Silendra Bulusu	Chemistry	Leave of Absence
82	Professor Chelvam Venkatesh	Chemistry	Online Attended
83	Professor Kiran Bala	Biosciences and Biomedical Engineering	Online Attended
84	Professor Mirza Saqib Baig	Biosciences and Biomedical Engineering	Leave of Absence
85	Professor Anirban Sengupta	Computer Science and Engineering	Leave of Absence



86	Professor Neminath Hubballi	Computer Science and Engineering	Leave of Absence
87	Professor Rupesh Shivaji Devan	Metallurgical Engineering and Materials Science	Leave of Absence
88	Professor Santosh Sattappa Hosmani	Metallurgical Engineering and Materials Science	Leave of Absence
89	Professor Antony Vijesh Villavarayan	Mathematics	Leave of Absence
90	Professor Niraj Kumar Shukla	Mathematics	Online Attended
91	Professor Satyajit Chatterjee	Mechanical Engineering	Online Attended
92	Professor Kazi Sabiruddin	Mechanical Engineering	Online Attended
93	Professor Pavan Kumar Kankar	Mechanical Engineering	Online Attended
94	Professor Sharad Gupta	Biosciences and Biomedical Engineering	Present
95	Professor Surya Prakash	Computer Science and Engineering	Leave of Absence
96	Professor Somnath Dey	Computer Science and Engineering	Present
97	Professor Sanjaram Premjit Khanganba	Humanities and Social Sciences	Online Attended
98	Professor M. Tanveer	Mathematics	Online Attended
99	Professor Shailesh Kundalwal	Mechanical Engineering	Online Attended
Other Authorities			
100	Dr. Saptarshi Ghosh	Chief Warden	Leave of Absence
101	Dr. Sharad Gupta	Convener, Health Center Advisor Committee	Present
102	Dr. Anand Petare	Workshop Superintendent, Central Workshop	Present
Secretary			
103	Mr. S. P. Hota	Registrar, IIT Indore	Present
Special Invitees			
104	Dr. Ayan Mondal	Convener, DUGC, CSE	Present
105	Dr. Aniruddha Singh Kushwaha	Convener, DPGC, CSE	Present
106	Dr. Debajyoti Sarkar	Convener, DPGC, Physics	Present
107	Kumar Gaurav	Assistant Registrar, Academic Affairs	Present
108	Mr. Tapesb Parihar	Section Officer, Academic Affairs	Present



ITEM 54.1: Welcome and Opening remarks by the Chairman, Senate.

The Chairperson, Senate welcomed all the members to the meeting. Further he made the following announcements to the Senate:

- I. Under the ANRF-PAIR scheme, IIT Indore is chosen to host an ANRF-PAIR with 100 Cr. funding network called SAKSHAM along with 6 spoke institutions: Devi Ahilya Vishwa Vidyalaya (Indore), Vikram University (Ujjain), IIIT Bhopal, Bundelkhand University, NIT Kurukshetra, and RTM Nagpur University. This opportunity has been extended to only six other networks across the country.
- II. IIT Indore has been selected to host one of four Technology Translation Research Park (TTRP) under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS). IIT Indore submitted a proposal through the IITI Drishti-CPS Foundation to cater to the growing need of the nation in creating a robust digital health infrastructure. After a thorough examination of the proposal from IIT Indore, the Mission Governing Board of NM-ICPS has selected IITI Drishti CPS Foundation for upgradation to TTRP under NM-ICPS in the focus area of "Digital Healthcare." This new endeavor comes with an additional allocation of ₹150 crores over the next few years.
- III. The Institute has collaborated with the Mehta Family Foundation (MFF), based in Texas, USA to establish the following two interdisciplinary schools:
 - i. The Mehta Family School of Biosciences and Biomedical Engineering
 - ii. The Mehta Family School of Sustainability

Following several rounds of discussions and engagements, it has been finalized that the Mehta Family Foundation (MFF) will extend its generous support towards the establishment of the two schools at IIT Indore.

- IV. The Chairman Senate welcomed following newly appointed officials:
Prof. Amod Umerikar - DoSA
Dr. J. P. Murugesan-ADOSA -I
Dr. Abhijit Joshi- ADoSA-II
Prof. Prabhat Kumar Upadhyay-DoIR
Prof. Pankaj Sagdeo - DoID
Prof. Srivathsan Vasudevan - Professor In-Charge "New Projects"
Dr. Gourab Sil - Head Civil Engineering

He also acknowledged the contribution of outgoing officials.

- V. The Chairman Senate has given inputs on QS ranking methodologies and further Dr. Selva Kumar (Nodal officer for ranking) has given a short presentation on various ranking parameters.



ITEM 54.2: Confirmation of the minutes of the 53rd Meeting of the Senate held on 23 April 2025.

The Senate confirmed the minutes of the 53rd Meeting of the Senate held on 23 April 2025.

ITEM 54.3: Action Taken Report (ATR) on minutes of 53rd Meeting of the Senate held on 23 April 2025.

The Senate noted the actions taken on the decisions of the 53rd Meeting of the Senate held on 23 April 2025.

ITEM NO. 54.4: Mapping of the B.Tech. 3rd year courses in view of the NEP-2020.

Dean Academic Affairs has presented the agenda to the committee for discussion. After the discussion, the Senate approved the same.

ITEM NO. 54.5: Relaxation of Academic Standings in the VII semester of B.Tech. programs.

Dean Academic Affairs has presented the following to the committee for discussion.

- As per the latest policy w.r.t. Academic standing, a maximum limit is there w.r.t. the number of credits a student can register in a particular semester, which depends on his/her Academic Standing (AS).
- However, it is proposed to allow students to enroll for courses amounting to a maximum of ten credits, in addition to their BTP in the VIIth semester, irrespective of their AS.
- This would be beneficial to the students and help the students clear their backlog/dropped courses earlier instead of waiting till the end of eighth semester.
- These provisions shall be applicable only if the student concerned is doing his/her BTP within the Institute.
- Consent from the BTP supervisor will also be needed, and attendance of all such students will be mandatory.

After the discussion, the Senate approved the same.



ITEM NO. 54.6: Absolute grading system for NPTEL/SWAYAM in which the number of students is considerably lower.

Dean Academic Affairs has presented the agenda to the committee for discussion.

All UG/PG theory courses having done via Swayam/NPTEL courses will follow absolute grading scale.

Score (S)	Grade	Description
$S \geq 90$	AA	Outstanding
$90 > S \geq 80$	AB	Excellent
$80 > S \geq 70$	BB	Very Good
$70 > S \geq 60$	BC	Good
$60 > S \geq 50$	CC	Fair
$50 > S \geq 40$	CD	Poor
$40 > S \geq 30$	DD	Marginal
$30 > S \geq 0$	FR	Fail and repeat

After the discussion, the Senate approved the same.

ITEM NO. 54.7: Revision in the Course Structure of M.Tech. Biomedical Engineering.

The HoD, BSBE has presented the agenda to the committee for discussion. After the discussion, the Senate approved the following:

Course code	Course Title	Contact Hours (L-T-P)	Credits
BSE 636	Biomedical Instrumentation	2-1-0	3
BSE 638	Mechanobiology and Electrophysiology	2-1-0	3
BSE 624	Bioprocess Engineering and Technology	2-1-0	3
BSE 628	Bioprocess Engineering and Technology lab	0-0-4	2
BSE 698	PG Seminar Course	0-2-0	2
ZZ XXX	Elective-II	X-X-X	3
ZZ XXX	Elective-III	X-X-X	3
Total minimum credits earned during the semester			19

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ITEM NO. 54.8: Interdisciplinary Dual Degree Program at the Department of Computer Science and Engineering.

The HoD, CSE has presented an agenda on the Interdisciplinary Dual Degree program. The Senate discussed the agenda and approved the same with the following notes:

- Exit option will be available to the students to exit from the dual degree program with B.Tech. Degree in the parent department.
- Two Degree certificates i.e. B.Tech. and M.Tech. will be conferred.
- Seats 30: 15 Mathematics and Computing and Computer Science and Engineering. 15 seats from other departments.

Year	Semester	Course Code	Course		Weekly L-T-P	Credits
Years II and III	Sem 3-6	CS XXX (CS 203)	Data Structures and Algorithms		2-1-0	3
		CS XXX (CS 204)	Design and Analysis of Algorithms		2-1-0	3
		CS XXX (CS 201)	Discrete Mathematical Structures		2-1-0	3
		CS XXX (CS 202)	Automata Theory and Logic		2-1-0	3
Year IV	Sem 7	CS 639	Computing Foundations: Operating Systems		1-0-2	2
		CS 641	Computing Foundations: Compiler Design		2-0-2	1.5 (3/2)
		CS 643	Computing Foundations: Computer Architecture		2-0-2	1.5 (3/2)
		CS 411/611	Advanced Algorithms		2-1-0	3
		ZZ XXX	Interdisciplinary Research Project-I		0-0-8	4
	Sem 8	ZZ XXX	Interdisciplinary Research Project-II		0-0-8	4
		ZZ 6XX	Elective-1		X-X-X	3
		ZZ 6XX	Elective-2		X-X-X	3
		CS 4XX/6XX	Elective-3	Bucket -1 (AI/ML) Bucket -2 (Networking and Cyber Security)	X-X-X	3
		CS 4XX/6XX	Elective-4		X-X-X	3
		CS 4XX/6XX	Elective-5		X-X-X	3
Year V	Sem 9	CS 799	M. Tech. Research Project (Stage I)		0-0-36	18
	Sem 10	CS 800	M. Tech. Research Project (Stage-II)		0-0-36	18
Total						67



ITEM NO. 54.9 Syllabus of proposed new courses in the various departments.

The following is the list of the course(s) have been presented by the respective HoDs.
After due deliberation, the Senate has approved as per following remarks:

S. No.	Course code Title of the Course	Contact Hours L-T-P-C	Remarks
1	CS 4XX/6XX Software Verification and Certification	2-1-0-3	Approved
2	ME 4XX/ 6XX: Heat and Mass Transfer in Textiles	2-1-0-3	Approved
3	ME 3XX: Textiles for Noise Control	2-1-0-3	Deferred
4	ME 4XX/ 6XX: Transport Phenomena in Porous Textiles	2-1-0-3	Approved
5	ME 4XX/ 6XX: Technical Textiles for Ballistic Protection	2-1-0-3	Approved, but the same must be brought as a separate agenda to make it a core course of the M Tech MSD program before the commencement of Autumn-2025 semester.
6	MA 2XX: Database Management System	2-0-2-3	Approved subject to elaborate lab components by mentioning list of representative experiments
7	MA 4XX/ MA 6XX: Hyperbolic Geometry	2-1-0-3	Approved
8	MA 4XX/ MA 6XX: Algebraic Number Theory	2-1-0-3	Approved
9	MA 4XX/ MA 6XX: Theory of Modular Forms	2-1-0-3	Approved



A handwritten signature in blue ink, appearing to be "S. Anand", located below the circular stamp.

ITEM NO. 54.10: Revised course structure and syllabus (1st Sem) of M.Sc. Physics.

The HoD Physics has presented the agenda on the Revision course structure and syllabus (1st Sem) of M.Sc. Physics.

1st Year: Semester-I

Sr. No.	Course Title	Contact Hours (L-T-P)	Credits	Remarks
PH 6XX	Classical Mechanics	2-1-0	3	Approved
PH 6XX	Fundamentals of Quantum Mechanics	2-1-0	3	Name of the course proposed Quantum Mechanics, approved as Fundamentals of Quantum Mechanics
PH 6XX	Mathematical Methods in Physics	2-1-0	3	Approved
PH 6XX	Classical Electrodynamics	2-1-0	3	Name of the course proposed Electrodynamics, approved as Classical Electrodynamics
PH 6XX	Computational and Statistical Methods	1-1-2	3	Name of the course proposed Computational and Statistical Techniques Lab. Approved as Computational and Statistical Methods. L-T-P-C changed from 0-1-4-3 to L-T-P-Cas 1-1-2-3
PH 6XX	Experimental Physics Lab	0-0-6	3	Name of the course proposed General Physics Lab, approved as Experimental Physics Lab
Total minimum credits earned during the semester			18	Approved

1st Year: Semester-II : Only

Course code	Course Title	Contact Hours (L-T-P)	Credits
PH 6XX	Statistical Mechanics	2-1-0	3
PH 6XX	Atomic and Molecular Physics	2-1-0	3
PH 6XX	Solid State Physics	2-1-0	3
PH 6XX	Nuclear and Particle Physics	2-1-0	3
PH 6XX	Nuclear Phys & Digital Electronics Lab	0-0-6	3
PH 6XX	Seminar Course	0-2-0	2
	PHY Flexicore (any two courses)	2-1-0	(1.5 + 1.5) = 3
Total minimum credits earned during the semester			20



PHY Flexicore (Any Two)

Course Code	Course Title	Contact Hours (L-T-P)	Credits
PH 6XX	Approximation Techniques in Quantum Mechanics	2-1-0	1.5
PH 6XX	Relativistic Quantum Mechanics	2-1-0	1.5
PH 6XX	Semiconductor Physics	2-1-0	1.5
PH 6XX	Digital and Optoelectronics	2-1-0	1.5

2nd Year: Semester-III

Course code	Course Title	Contact Hours (L-T-P)	Credits
PH 6XX	Dept. Elective - I	2-1-0	3
PH 6XX	Institute Elective - I	2-1-0	3
PH 699	M.Sc. Project (Stage-I)	0-0-14	10
PH 6XX	Makers Space	0-0-2	1
Total minimum credits to be earned during the semester			17

2nd Year: Semester-IV

Course code	Course Title	Contact Hours (L-T-P)	Credits
PH 700	M.Sc. Project (Stage-II)	0-0-36	15
PH 6XX	Dept. Elective - II	2-1-0	3
Total minimum credits to be earned during the semester			18

Courses for Dept Elective - I and II (more courses to be added)

Course Code	Course Title	Contact hours (L-T-P)	Credits
PH 621	Dualities & Gravity	2-1-0	3
PH 614	Flavour & Neutrino	2-1-0	3
PH 761	Theoretical Particle Physics	2-1-0	3
PH 765	Experimental methods in High Energy Physics	2-1-0	3
PH 681	Network Science	2-1-0	3
PH 781	Theory of Complex Systems	2-1-0	3
PH 790	Statistical Methods in Physical Science	2-1-0	3
PH 721	Advanced Materials	2-1-0	3
PH 722	X-ray Spectroscopy	2-1-0	3
PH 725	Characterization of Surfaces & Interfaces	2-1-0	3
PH 745	Laser Physics	2-1-0	3
PH 710	Theory of Quantum Materials	2-1-0	3

The Senate has approved the above course structure for the entire program and syllabus of 1st semester of M.Sc. Physics.



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ITEM NO. 54.11: Reporting Item:

To conduct a Ph.D. admission under the India AI Ph.D. Fellowship program (MeiTY) in the domain of Artificial Intelligence (AI).

The Senate ratified the same.

ITEM 54.11: Any other agenda items with the permission of the Chair.

The Registrar informed the Senate about the disciplinary committee decision on the academic suspension of 8 students.

The meeting ended with thanks to the Chair.



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



(S. P. Hota)

Registrar and Secretary, Senate