



Indian Institute of Technology Indore

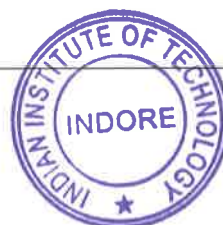
Minutes of the 61st Meeting of the Senate

Date: 26th February 2026 (Thursday) at 04:30 pm

Venue: POD 1D-105, IIT Indore

Attendance of Members of Senate of IIT Indore Members of Senate of IIT Indore

Chairman		Members	Signature
Professor Suhas S. Joshi		Director, IIT Indore	Present
External Experts			
1	Professor Himanshu Rai	Director, IIM Indore	-LoA-
Deans			
2	Professor Vipul Singh	Dean, Academic Affairs	Present
3	Professor Sandeep Chaudhary	Dean, Administration	-LoA-
4	Professor Prabhat Kumar Upadhyay	Dean, International Relations	-LoA-
5	Professor Pankaj R. Sagdeo	Dean of Infrastructure Development	(Online Attend)
6	Professor Abhirup Datta	Dean, Research and Development	(Online Attend)
7	Professor Amod C. Umarikar	Dean, Student Affairs	(Online Attend)
8	Professor Suman Mukhopadhyay	Dean, Alumni and Corporate Relations	(Online Attend)
9	Professor Abhishek Srivastava	Dean, Faculty Affairs	-LoA-
10	Professor Devendra L. Deshmukh	Dean, Educational Outreach	-LoA-
11	Prof. Satya S. Bulusu	Dean, IT Infrastructure & Automation	(Online Attend)
Head of Departments			
12	Dr. Gourab Sil	HOD, Civil Engineering	(Online Attend)
13	Dr. Ranveer Singh	HOD, Computer Science and Engineering	Present
14	Dr. Swaminathan R.	HOD, Electrical Engineering	Professor S. Vasudevan represented
15	Professor Shanmugam Dhinakaran	HOD, Mechanical Engineering	(Online Attend)
16	Dr. Ajay Kumar Kushwaha	HOD, Metallurgical Engineering and Materials Science	Present
17	Dr. Saurabh Das	HOD, Astronomy, Astrophysics and Space Engineering	(Online Attend)
18	Professor Tushar Kanti Mukherjee	HOD, Chemistry	Present



19	Dr. Sanjeev Singh	HOD, Mathematics	Present
20	Professor Preeti A. Bhohe	HOD, Physics	Prof. Ankhi Roy represented
21	Dr. Eswara Prasad Kormilli	HOD, Chemical Engineering	(Online Attend)
Head of Schools			
22	Professor Ruchi Sharma	HOD, Humanities and Social Sciences	-LoA-
23	Dr. Parimal Kar	HOD, Mehta Family School of BSBE	(Online Attend)
24	Professor Pritee Sharma	HOD, Mehta Family School of Sustainability	Present
Professors			
25	Professor Neelesh Kumar Jain	Mechanical Engineering	-LoA-
26	Professor Anand Parey	Mechanical Engineering	-LoA-
27	Professor Ram Bilas Pachori	Electrical Engineering	-LoA-
28	Professor Abhinav Kranti	Electrical Engineering	(Online Attend)
29	Professor Vimal Bhatia	Electrical Engineering	-LoA-
30	Professor Rajneesh Misra	Chemistry	-LoA-
31	Professor Suman Mukhopadhyay	Chemistry	(Online Attend)
32	Professor Subhendu Rakshit	Physics	-LoA-
33	Professor Krushna R. Mavani	Physics	-LoA-
34	Professor Sarika Jalan	Physics	-LoA-
35	Professor Sandeep Chaudhary	Civil Engineering	-LoA-
36	Professor Avinash Sonawane	Biosciences and Biomedical Engineering	(Online Attend)
37	Professor G. S. Murthy	Biosciences and Biomedical Engineering	-LoA-
38	Professor Santosh Kumar Vishvakarma	Electrical Engineering	-LoA-
39	Professor Shaibal Mukherjee	Electrical Engineering	-LoA-
40	Professor Vipul Singh	Electrical Engineering	-LoA-
41	Professor Prabhat Kumar Upadhyay	Electrical Engineering	-LoA-
42	Professor Trapti Jain	Electrical Engineering	-LoA-
43	Professor Mukesh Kumar	Electrical Engineering	-LoA-
44	Professor Manish Kumar Goyal	Civil Engineering	Present
45	Professor Neelima Devarakonda Satyam	Civil Engineering	-LoA-
46	Professor Palani Iyamperumal Anand	Mechanical Engineering	-LoA-
47	Professor Bhupesh Kumar Lad	Mechanical Engineering	-LoA-
48	Professor Santosh Kumar Sahu	Mechanical Engineering	-LoA-
49	Professor Ritunesh Kumar	Mechanical Engineering	-LoA-
50	Professor Dhinakaran Shanmugam	Mechanical Engineering	(Online Attend)
51	Professor Aruna Tiwari	Computer Science and Engineering	(Online Attend)
52	Professor Abhishek Srivastava	Computer Science and Engineering	-LoA-
53	Professor Kapil Ahuja	Computer Science and Engineering	-LoA-
54	Professor Abhirup Datta	Astronomy, Astrophysics and Space Engineering	(Online Attend)

55	Professor Amit Kumar	Biosciences and Biomedical Engineering	-LoA-
56	Professor Prashant Kodgire	Biosciences and Biomedical Engineering	(Online Attend)
57	Professor Sk. Safique Ahmad	Mathematics	-LoA-
58	Professor Apurba Kumar Das	Chemistry	(Online Attend)
59	Professor Sampak Samanta	Chemistry	-LoA-
60	Professor Sanjay Kumar Singh	Chemistry	-LoA-
61	Professor Biswarup Pathak	Chemistry	-LoA-
62	Professor Nirmala Menon	Humanities and Social Sciences	-LoA-
63	Professor Pritee Sharma	Humanities and Social Sciences	-LoA-
64	Professor Ruchi Sharma	Humanities and Social Sciences	-LoA-
65	Professor Preeti Anand Bhobe	Physics	-LoA-
66	Professor Rajesh Kumar	Physics	-LoA-
67	Professor Sudeshna Chattopadhyay	Physics	-LoA-
68	Professor Parasharam M. Shirage	Metallurgical Engineering and Materials Science	-LoA-
69	Professor Swadesh K. Sahoo	Mathematics	-LoA-
70	Professor Raghunath Sahoo	Physics	Present
71	Professor Amod C. Umarikar	Electrical Engineering	(Online Attend)
72	Professor Vivek Kanhangad	Electrical Engineering	-LoA-
73	Professor Srivathsan Vasudevan	Electrical Engineering	(Online Attend)
74	Professor Devendra L. Deshmukh	Mechanical Engineering	-LoA-
75	Prof. Pankaj Ramesh Sagdeo	Physics	-LoA-
76	Prof. Ankhi Roy	Physics	Present
77	Prof. Somaditya Sen	Physics	-LoA-
78	Prof. Mobin Shaikh	Chemistry	-LoA-
79	Prof. Tushar Kanti Mukherjee	Chemistry	Present
80	Prof. Anjan Chakraborty	Chemistry	-LoA-
81	Professor Satya Silendra Bulusu	Chemistry	-LoA-
82	Professor Chelvam Venkatesh	Chemistry	(Online Attend)
83	Professor Kiran Bala	Biosciences and Biomedical Engineering	Present
84	Professor Mirza Saqib Baig	Biosciences and Biomedical Engineering	-LoA-
85	Professor Anirban Sengupta	Computer Science and Engineering	(Online Attend)
86	Professor Neminath Hubballi	Computer Science and Engineering	-LoA-
87	Professor Rupesh Shivaji Devan	Metallurgical Engineering and Materials Science	-LoA-
88	Professor Santosh Sattappa Hosmani	Metallurgical Engineering and Materials Science	-LoA-
89	Professor Antony Vijesh Villavarayan	Mathematics	Present
90	Professor Niraj Kumar Shukla	Mathematics	-LoA-
91	Professor Satyajit Chatterjee	Mechanical Engineering	-LoA-
92	Professor Kazi Sabiruddin	Mechanical Engineering	-LoA-



93	Professor Pavan Kumar Kankar	Mechanical Engineering	-LoA-
94	Professor Sharad Gupta	Biosciences and Biomedical Engineering	-LoA-
95	Professor Surya Prakash	Computer Science and Engineering	-LoA-
96	Professor Somnath Dey	Computer Science and Engineering	Present
97	Professor Sanjaram Premjit Khanganba	Humanities and Social Sciences	Present
98	Professor M. Tanveer	Mathematics	-LoA-
99	Professor Shailesh Kundalwal	Mechanical Engineering	-LoA-
100	Professor Debayan Sarkar	Chemistry	(Online Attend)
101	Professor Gourinath Banda	Computer Science and Engineering	-LoA-
102	Professor Mohd. Aquil Khan	Mathematics	(Online Attend)
Other Authorities			
103	Dr. Saptarshi Ghosh	Chief Warden	-LoA-
104	Professor Sandeep Chaudhary (Dean, Administration)	Convener, Health Center Advisor Committee	-LoA-
105	Dr. Anand Petare	Workshop Superintendent	Present
Secretary			
106	Mr. S. P. Hota	Registrar, IIT Indore	Present
Special Invitee			
107	Dr. Pankaj Dey	Assistant Professor, MF School of Sustainability	Present
108	Dr. Kumar Gaurav	Assistant Registrar, Academic Affairs	Present
109	Mr. Tapesb Parihar	Section Officer and PA to DoAA	Present



Minutes of the 61st Meeting of the Senate held on 26th February 2026

ITEM No. 61.1: Welcome and Opening remark by the Chairperson, Senate.

The **Chairman, Senate**, welcomed all the members present at the meeting. He also announced that **Prof. Abhay Karandikar, Secretary to the Government of India, Department of Science & Technology (DST)**, has kindly consented to be the **Chief Guest** at the **14th Convocation of the Institute**, scheduled to be held on **27 June 2026**.

ITEM No. 61.2: Confirmation of the minutes of the 60th Meeting of the Senate held on 29th January 2026.

The Senate confirmed the minutes of the 60th Meeting of the Senate held on 29th January 2026.

ITEM No. 61.3: Action Taken Report (ATR) on minutes of 60th Meeting of the Senate held on 29th January 2026.

The Senate noted the Action Taken Report (ATR) of the minutes of the 60th Meeting of the Senate held on 29th January 2026.

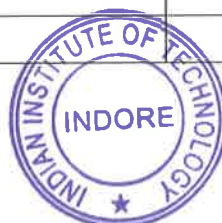
ITEM No. 61.4: Proposal for the B.Tech. Programme in Environmental Economics and Sustainable Engineering by the Mehta Family School of Sustainability.

After due deliberation, the Senate approved the B.Tech. Programme in Environmental Economics and Sustainable Engineering with 30 Seats to be started from AY 2026-27. The admissions to the programme will be done through JEE (Adv.).

1st Year B.Tech. in Environmental Economics and Sustainable Engineering (ESEE)

Semester I

Course Code	Course	Weekly Contact Hours (L-T-P)	Credit
EE 101	Basic Electrical Engineering	1-1-0	2
ME 101	Engineering Mechanics	2-0-0	2
MA 101N	Calculus-I (half Semester)	3-1-0	2
MA 103N	Calculus-II (half Semester)	3-1-0	2
CH 105	Chemistry	3-0-0	3
CH 155	Chemistry Lab	0-0-2	1
HS 109	Language and Composition	2-0-0	2
HS XXX	Flexible Elective (HSS)	1-0-0	1
CS 103	Computer Programming	2-0-0	2
IC 151	Computer Programming Lab	0-0-3	1.5



NO 101	National Sports organization (NSO)	0-0-0	P/NP
		Total Credit	18.5

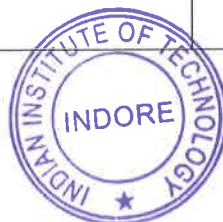
Semester II

Course Code	Course	Weekly Contact Hours (L-T-P)	Credit
BSE 102	Biosciences	2-1-0	3
MA 102N	Linear Algebra (Half Semester)	2-1-0	1.5
MA 104N	Differential Equations-I (Half Semester)	2-1-0	1.5
HS 102	Environmental Studies: Social Aspects (Half Semester course)	2-1-0	1.5
ES 102	Environmental Studies: Scientific & Engineering Aspects (Half Semester course)	2-1-0	1.5
HS 104	Fundamentals of Economics	2-0-0	2
IC 152	Makerspace	1-0-6	4
PH 107	Basics of Physics	2-1-0	3
PH 157	Physics Lab	0-0-2	1
ZZ XXX	Flexible Elective-I	1-0-0	1
ZZ XXX	Flexible Elective-II	1-0-0	1
HS XXX	Flexible Elective-(HSS)	1-0-0	1
NO 102	National Sports organization (NSO)	0-0-0	P/NP
		Total Credit	22

2nd Year B.Tech. in Environmental Economics and Sustainable Engineering (EESE)

Semester III

Course Code	Course Title	Weekly Contact Hours (L-T-P)	Credits
ZZ xxx	Course-I for Minor Program	X-X-X	3
MA 205	Complex Analysis	3-1-0 (4/2 Half semester)	2
MA 207	Differential Equations-II	3-1-0 (4/2 Half semester)	2
SE 2XX	Environmental Economics	2-1-0	3
SE 2XX	Statistics and Computations for Sustainability	2-0-2	3
SE 2XX	Thermodynamics and Energy Conversion	2-1-0	3
SE 2XX	Introduction to Electronics: Applications for Energy Systems lab	1-0-2	2
SE 2XX	Fluid Mechanics and Heat Transfer	2-0-2	3
SE 2XX	Earth System and Natural Resource Management	2-1-0 (3/2 Half semester)	1.5



SE 2xx	Department Elective-I	x-x-x	3
Total			22.5/25.5

Semester IV

Course Code	Course Title	Weekly Contact Hours (L-T-P)	Credits
ZZ 2XX	Course-II for Minor Program	X-X-X	3
MA 204N	Numerical Methods	2-1-0	3
SE 2XX	Resource Economics and Circular Economy	2-1-0	3
SE 2XX	Energy Systems: Analysis and Modelling	2-0-2	3
SE 2XX	Optimization and Project Management	2-0-2	3
SE 2XX	Remote Sensing and Climate Data Analytics	2-0-2	3
SE 2XX	Mini Project - I	0-0-2	1
SE 2XX	Department Elective-II	x-x-x	3
ZZ 2XX	Institute Elective-I	x-x-x	3
Total			22/25

3rd Year B.Tech. in Environmental Economics and Sustainable Engineering (ESEE)

Semester V

Course Code	Subject Name	Weekly Contact Hours (L-T-P)	Credits
ZZ 3XX	Course-III for Minor Program	X-X-X	3
SE 3XX	Ecological and Institutional Economics	2-1-0	3
SE 3XX	ESIA and LCA	2-0-2 (3/2 Half semester)	1.5
SE 3XX	Linear Control Systems	2-0-2 (3/2 Half Semester)	1.5
SE 3XX	IoT for Environment	2-0-2 (3/2 Half Semester)	1.5
SE 3XX	Process and Plant Design	2-0-2	3
SE 3XX	Engineering Hydrology	2-1-0	3
SE 3XX	Ecological Systems	2-1-0 (3/2 Half semester)	1.5
SE 3XX	Mini Project - II	0-0-2	1
SE 3XX	Department Elective -III	x-x-x	3
ZZ 3XX	Institute Elective-II	x-x-x	3
Total			22/25



Semester VI

Course Code	Subject Name	Weekly Contact Hours (L-T-P)	Credits
ZZ 3XX	Course-IV for Minor Program	X-X-X	3
SE 3XX	Environmental Econometrics	2-0-2	3
SE 3XX	Energy Storage Technologies	2-1-0	3
SE 3XX	Environmental Pollution and Waste Control	2-0-2	3
SE 3XX	Green Infrastructure for Urban Ecosystem	1-0-2	2
SE 3XX	Department Elective -IV	x-x-x	3
SE 3XX	Department Elective -V	x-x-x	3
ZZ 3XX	Institute Elective-III	x-x-x	3
Total			20/23

4th Year B.Tech. in Environmental Economics and Sustainable Engineering (EESSE)

Semester VII

Course Code	Subject Name	Weekly Contact Hours (L-T-P)	Credits
ZZ 4XX	Course-V for Minor Program	x-x-x	2
SE 493N	B. Tech. Project (BTP)	0-0-32	16
SE 495 Or ZZ 4XX	Internship Or Professional/Societal-Connect Basket Course	x-x-x	1.5
Total			17.5/19.5

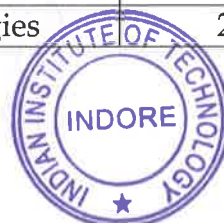
Semester VIII

Course Code	Subject Name	Weekly Contact Hours (L-T-P)	Credits
SE 4XX	Department Elective-VI	x-x-x	3
SE 4XX	Department Elective-VII	x-x-x	3
ZZ 4XX	Institute Elective-IV	x-x-x	3
ZZ 4XX	Institute Elective-V	x-x-x	3
ZZ 4XX	Institute Elective-VI	x-x-x	3
Total			15



Suggested List of the Elective Courses

Semester	Course Code	Subject Name	Weekly Contact Hours (L-T-P)	Credits
II (Flexible Elective)	ZZ 1XX	Policy and Standards for Water Energy Food (WEF)	1-0-0	1
	ZZ 1XX	Sustainable Development and Climate Change	1-0-0	1
III (Department Electives)	SE 2XX	Frontiers in Experimental Economics	3-0-0 (One-third Sem)	1
	SE 2XX	Technologies for Batteries and Supercapacitors	3-0-0 (One-third Sem)	1
	SE 2XX	Weather Engineering	3-0-0 (One-third Sem)	1
	SE 2XX	Water Security: Indian and International Perspectives	1-0-0 (One-third Sem)	1
IV (Department Electives)	SE 2XX	Economics of Climate Change	3-0-0 (Half Semester)	1.5
	SE 2XX	Sustainable Materials & Mining	2-0-2 (Half Semester)	1.5
	SE 2XX	Resource Quality Monitoring: Sensor Based	2-0-2 (Half Semester)	1.5
IV (Department Elective)	ZZ 2XX	Emerging Contaminants	2-0-2	3
V (Department Electives)	SE 3XX	Behavioral Economics	2-0-2	3
	SE 3XX	Energy Management	2-0-2	3
	SE 3XX	Numerical Weather Predictions and Geoinformatics	2-0-2	3
V (Department Elective)	ZZ 3XX	Disaster Management, Resilience and Adaptation	2-0-2	3
VI (Department Electives)	SE 3XX	Agricultural and Industrial Economics	2-0-2	3
	SE 3XX	Game Theory Applications in Natural Resource Management (NRM)	2-0-2	3
	SE 3XX	Green hydrogen and Fuel Cells	2-0-2	3
	SE 3XX	Solar Energy Systems	2-0-2	3
	SE 3XX	Water and Waste Treatment Plant Design	2-0-2	3
	SE 3XX	Water Resource System and Planning	2-0-2	3
VIII (Department Electives)	SE 4XX	Logistics & Marketing	2-0-2	3
	SE 4XX	Carbon Trading	2-0-2	3
	SE 4XX	Green Transportation	2-0-2	3
	SE 4XX	Computational Material Science and Applications	2-0-2	3
	SE 4XX	Modern Battery Technologies	2-0-2	3



	SE 4XX	Environmental Hydraulics: Open Channel and River Mechanics	2-0-2	3
	SE 4XX	Industrial Pollution Management	2-0-2	3

ITEM No. 61.5: Proposal for new elective courses for 3rd year B.Tech. in Mathematics and Computing.

After due deliberation, the Senate approved the following new elective courses for 3rd year B.Tech. in Mathematics and Computing, proposed by the Department of Mathematics.

S. No.	Course code	Title of the Course	Contact Hours (L-T- P-C)	Remarks
1	MA 3XX/ CS 3XX	Mathematical Methods in Risk Theory	2-1-0-3	• Cross-list it for 'CSE' course as well. • Approved
2	MA 3XX/ CS 3XX	Algebraic Coding Theory	2-1-0-3	• Cross-list it for 'CSE' course as well. • Use full form of abbreviations. • Books should be mentioned in uniform format. • Use 4th reference book "Coding Theory: A First Course by S. Ling and C. Xing, as textbook. • Approved

ITEM NO: 61.6 Approval of the syllabi of the proposed Flexi-Core and Elective courses for the M.Sc. Mathematics.

After due deliberation, the Senate approved the following flexi core and elective courses for the M.Sc. Mathematics Program.

Flexi-Core Courses

S. No.	Course Code	Title of the Course	Contact Hours (L-T- P-C)	Remarks
1	MA 6XX	Multivariable Calculus	2-1-0-1.5 (3/2 half semester)	• Approved
2	MA 6XX	Fractal Geometry	2-1-0-1.5 (3/2 half semester)	• Include some examples in the module-4, instead of writing 'some applications of Fractals'. • Approved



Elective Courses

S. No.	Course Code	Title of the Course	Contact Hours (L-T- P-C)	Remarks
1	MA 6XX	Basic Algebraic Topology	2-1-0-3	• Approved
2	MA 4XX/ MA 6XX	Introduction to Commutative Algebra	2-1-0-3	• Approved
3	MA 4XX/ MA 6XX	Introduction to Modal Logic and Applications	2-1-0-3	• Approved

ITEM NO. 61. 7: Any other item with the permission of the Chair.

Nil.

अध्यक्ष के प्रति आभार के साथ बैठक का समापन हुआ।

The meeting ended with a vote of thanks to the Chair.



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



(S. P. Hota)

Registrar and Secretary, Senate