



Indian Institute of Technology Indore

Minutes of the 57th meeting of the Senate held on 17th October 2025 (Friday)
Time: 15:00 hrs. POD 1-D 105, IIT Indore.

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

Chairman			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	Leave of Absence
6	Professor Prabhat Kumar Upadhyay	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 Amod C. Umarikar	Dean, Student Affairs	Online Attended
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	Leave of Absence
13	Prof. Satya S. Bulusu	Dean, IT Infrastructure & Automation	Leave of Absence
Head of Departments			
14	Dr. Gourab Sil	HOD, Civil Engineering	Present



15	Dr. Ranveer Singh	HOD, Computer Science and Engineering	Present
16	Dr. Swaminathan R.	HOD, Electrical Engineering	Present
17	Professor Shanmugam Dhinakaran	HOD, Mechanical Engineering	Online Attended
18	Dr. Ajay Kumar Kushwaha	HOD, Metallurgical Engineering and Materials Science	Present
19	Dr. Saurabh Das	HOD, Astronomy, Astrophysics and Space Engineering	Present
20	Professor Tushar Kanti Mukherjee	HOD, Chemistry	Leave of Absence
21	Dr. Sanjeev Singh	HOD, Mathematics	Present
22	Professor Preeti A. Bhoje	HOD, Physics	Present
23	Dr. Eswara Prasad Kormilli	HOD, Chemical Engineering	Present
Head of Schools			
24	Professor Ruchi Sharma	HOD, Humanities and Social Sciences	Present
25	Dr. Parimal Kar	HOD, Mehta Family School of Bioscience & Biomedical Engineering	Online Attended
26	Professor Pritee Sharma	HOD, Mehta Family School of Bioscience & Biomedical Engineering	Present
Professors			
27	Professor Neelesh Kumar Jain	Mechanical Engineering	Leave of Absence
28	Professor Anand Parey	Mechanical Engineering	Leave of Absence
29	Professor Ram Bilas Pachori	Electrical Engineering	Leave of Absence
30	Professor Abhinav Kranti	Electrical Engineering	Online Attended
31	Professor Vimal Bhatia	Electrical Engineering	Leave of Absence
32	Professor Rajneesh Misra	Chemistry	Leave of Absence
33	Professor Suman Mukhopadhyay	Chemistry	Online Attended
34	Professor Subhendu Rakshit	Physics	Leave of Absence



35	Professor Krushna R. Mavani	Physics	Leave of Absence
36	Professor Sarika Jalan	Physics	Leave of Absence
37	Professor Sandeep Chaudhary	Civil Engineering	Leave of Absence
38	Professor Avinash Sonawane	Biosciences and Biomedical Engineering	Online Attended
39	Professor G. S. Murthy	Biosciences and Biomedical Engineering	Leave of Absence
40	Professor Santosh Kumar Vishvakarma	Electrical Engineering	Leave of Absence
41	Professor Shaibal Mukherjee	Electrical Engineering	Leave of Absence
42	Professor Vipul Singh	Electrical Engineering	Present
43	Professor Prabhat Kumar Upadhyay	Electrical Engineering	Online Attended
44	Professor Trapti Jain	Electrical Engineering	Leave of Absence
45	Professor Mukesh Kumar	Electrical Engineering	Leave of Absence
46	Professor Manish Kumar Goyal	Civil Engineering	Leave of Absence
47	Professor Neelima Devarakonda Satyam	Civil Engineering	Leave of Absence
48	Professor Palani Iyamperumal Anand	Mechanical Engineering	Leave of Absence
49	Professor Bhupesh Kumar Lad	Mechanical Engineering	Online Attended
50	Professor Santosh Kumar Sahu	Mechanical Engineering	Online Attended
51	Professor Ritunesh Kumar	Mechanical Engineering	Leave of Absence
52	Professor Dhinakaran Shanmugam	Mechanical Engineering	Online Attended
53	Professor Aruna Tiwari	Computer Science and Engineering	Online Attended
54	Professor Abhishek Srivastava	Computer Science and Engineering	Leave of Absence
55	Professor Kapil Ahuja	Computer Science and Engineering	Leave of Absence



56	Professor Abhirup Datta	Astronomy, Astrophysics and Space Engineering	Present
57	Professor Amit Kumar	Biosciences and Biomedical Engineering	Leave of Absence
58	Professor Prashant Kodgire	Biosciences and Biomedical Engineering	Leave of Absence
59	Professor Sk. Safique Ahmad	Mathematics	Leave of Absence
60	Professor Apurba Kumar Das	Chemistry	Leave of Absence
61	Professor Sampak Samanta	Chemistry	Leave of Absence
62	Professor Sanjay Kumar Singh	Chemistry	Online Attended
63	Professor Biswarup Pathak	Chemistry	Leave of Absence
64	Professor Nirmala Menon	Humanities and Social Sciences	Leave of Absence
65	Professor Pritee Sharma	Humanities and Social Sciences	Present
66	Professor Ruchi Sharma	Humanities and Social Sciences	Present
67	Professor Preeti Anand Bhobe	Physics	Present
68	Professor Rajesh Kumar	Physics	Leave of Absence
69	Professor Sudeshna Chattopadhyay	Physics	Present
70	Professor Parasharam M. Shirage	Metallurgical Engineering and Materials Science	Leave of Absence
71	Professor Swadesh K. Sahoo	Mathematics	Present
72	Professor Raghunath Sahoo	Physics	Leave of Absence
73	Professor Amod C. Umarikar	Electrical Engineering	Online Attended
74	Professor Vivek Kanhangad	Electrical Engineering	Leave of Absence
75	Professor Srivathsan Vasudevan	Electrical Engineering	Leave of Absence



76	Professor Devendra L. Deshmukh	Mechanical Engineering	Leave of Absence
77	Prof. Pankaj Ramesh Sagdeo	Physics	Present
78	Prof. Ankhi Roy	Physics	Leave of Absence
79	Prof. Somaditya Sen	Physics	Leave of Absence
80	Prof. Mobin Shaikh	Chemistry	Leave of Absence
81	Prof. Tushar Kanti Mukherjee	Chemistry	Leave of Absence
82	Prof. Anjan Chakraborty	Chemistry	Leave of Absence
83	Professor Satya Silendra Bulusu	Chemistry	Leave of Absence
84	Professor Chelvam Venkatesh	Chemistry	Online Attended
85	Professor Kiran Bala	Biosciences and Biomedical Engineering	Leave of Absence
86	Professor Mirza Saqib Baig	Biosciences and Biomedical Engineering	Leave of Absence
87	Professor Anirban Sengupta	Computer Science and Engineering	Leave of Absence
88	Professor Neminath Hubballi	Computer Science and Engineering	Leave of Absence
89	Professor Rupesh Shivaji Devan	Metallurgical Engineering and Materials Science	Online Attended
90	Professor Santosh Sattappa Hosmani	Metallurgical Engineering and Materials Science	Leave of Absence
91	Professor Antony Vijesh Villavarayan	Mathematics	Leave of Absence
92	Professor Niraj Kumar Shukla	Mathematics	Leave of Absence
93	Professor Satyajit Chatterjee	Mechanical Engineering	Online Attended
94	Professor Kazi Sabiruddin	Mechanical Engineering	Online Attended
95	Professor Pavan Kumar Kankar	Mechanical Engineering	Leave of Absence
96	Professor Sharad Gupta	Biosciences and Biomedical Engineering	Leave of Absence



97	Professor Surya Prakash	Computer Science and Engineering	Leave of Absence
98	Professor Somnath Dey	Computer Science and Engineering	Present
99	Professor Sanjaram Premjit Khanganba	Humanities and Social Sciences	Present
100	Professor M. Tanveer	Mathematics	Leave of Absence
101	Professor Shailesh Kundalwal	Mechanical Engineering	Leave of Absence
102	Professor Debayan Sarkar	Chemistry	Present
103	Professor Gourinath Banda	Computer Science and Engineering	Present
104	Professor Mohd. Aquil Khan	Mathematics	Present
Other Authorities			
105	Dr. Saptarshi Ghosh	Chief Warden	Leave of Absence
106	Dr. Sharad Gupta	Convener, Health Center Advisor Committee	Leave of Absence
107	Dr. Anand Petare	Workshop Superintendent, Central Workshop	Present
Secretary			
108	Mr. S. P. Hota	Registrar, IIT Indore	Present
Special Invitees			
109	Dr. Rajan Singh	DUGC-Chemical Engineering (for agenda item no. 57.5)	Present
110	Dr. Manoneeta Chakraborty	DPGC-Astronomy, Astrophysics and Space Engineering (for agenda item no. 57.7.1)	Present
111	Dr. Manavendra Mahato	DPGC-Physics (for agenda item no. 57.7.1)	Present
112	Dr. Kumar Gaurav	Assistant Registrar, Academic Affairs	Present
113	Mr. Tapesch Parihar	Section Officer, Academic Affairs	Present



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Minutes of the 57th Meeting of the Senate

ITEM 57.1: Welcome and Opening remarks by the Chairman, Senate.

The Chairman, Senate, welcomed all the members present in the meeting. In his opening remarks, he extended a warm welcome to the following newly appointed Professors:

1. Prof. Debayan Sarkar
2. Prof. Gourinath Banda
3. Prof. Mohd. Aquil Khan

He informed the Senate about the **AISHE data submission** and the **National Task Force Survey**.

The Chairman also apprised the members that the faculty members of the **Department of BSBE** have been affiliated with the **Mehta Family School of Biosciences and Biomedical Engineering**. Furthermore, **Prof. Preeti Sharma** has been migrated from the **Department of HSS** to the **Mehta Family School of Sustainability**.

ITEM 57.2: Confirmation of minutes of the meeting of 56th Senate held on 17th September 2025.

The Senate confirmed the minutes of the 56th Meeting of the Senate held on 17th September 2025.

ITEM 57.3: Action Taken Report (ATR) on minutes of 56th Meeting of the Senate held on 17th September 2025.

The Senate confirmed the Action Taken Report (ATR) of the minutes of the 56th Meeting of the Senate held on 17th September 2025.

ITEM NO. 57.4: Discussion on the required revision in the course structure of 7th semester of B.Tech. programs.

The Dean of Academic Affairs (DoAA) presented the following agenda to the Senate:

Curriculum of 7 th Semester B. Tech. (For the batches admitted from AY 2023-24 onwards)			
Course Code	Course Code	Course Code	Credits
ZZ XXX	Course-V for Minor Program	x-x-x	2
ZZ 493N	B Tech Project (BTP)	0-0-32	16
ZZ 495	Internship	x-x-x	1.5
	OR		
ZZ XXX	Professional/ Societal-Connect basket course		
Total			17.5/ 19.5

The Senate approved the same with the following remark:

1. Internship may be allowed during summer break of 2nd year and 3rd year.
2. The internship duration must be 8-week.
3. Professional/ Societal Baskets course will be of 2XX/ 3XX/ 4XX level courses. It may be taken by students at any level and it can be redeemed in 7th semester.



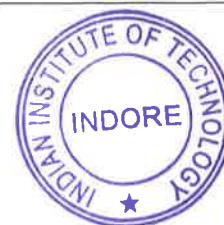
ITEM NO. 57.5: Course structure and syllabus of 6th semester of B.Tech. in Chemical Engineering.

The HoD of Chemical Engineering has presented the agenda. The senate has approved the same with following suggestion.

Sr. No.	Course Code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
1	ZZ xxx	Minor Program	X-X-X	3	-
2	ChE 3xx	Computer-Aided Process Equipment Design	2-1-0	3	- Books to be updated - Approved
3	ChE 3xx	Chemical Process Synthesis and Simulation	2-1-0	3	- Books to be updated - Approved
4	ChE 3xx	Chemical Process Technology and Intensification	2-1-0	3	- Books to be updated and use new edition of books. - Approved
5	ChE 3xx	Plant Design and Economics	2-1-0	3	- Books to be updated. - Remove typo errors. - Approved
6	ChE 3xx	Department Elective - IV	2-1-0	3	-
7	ChE 3xx	Department Elective - V	2-1-0	3	-
8	ZZ 3xx	Institute Open Elective - III	2-1-0	3	-
9	ChE 3xx	Process Control Laboratory	0-0-2	1	Approved
10	ChE 3xx	Computer-Aided Chemical Engineering Laboratory - II	0-0-2	1	Approved
Total			14-7-4	23 / 26	-

Elective courses for 6th semester:

Course Code	Course title	Weekly Contact Hours (L-T-P)	Credits	Remarks
ChE 3XX	Petroleum Refining	2-1-0	3	- Include one more reference book. - Approved.
ChE 3XX	Introduction to Microhydrodynamics	2-1-0	3	Approved.
ChE 3XX	Colloids and Interfaces	2-1-0	3	Approved.
ChE 3XX	Industrial Catalyst Design and Development	2-1-0	3	Approved.



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ITEM NO. 57.6: Syllabus of proposed new courses in various departments.

The concerned Heads of Departments (HODs) and faculty members presented their courses for approval. The Senate approved the same with the following remarks:

S. No.	Course code Title of the Course	Contact Hours	Program for which course is offered	Remarks
1	MM 3XX: Multicomponent Alloys	2-1-0-3	UG	• Approved
2	MM 3XX: Crystallographic Texture and Crystal Plasticity	2-1-0-3	UG	• Approved
3	MM 3XX: Surface Engineering of Alloys	2-1-0-3	UG	• Approved
4	CE 3XX: Sustainable Geotechnics	2-1-0-3	UG	• Approved
5	HS 2XX/3XX/4XX: The Digital Economy	2-1-0-1.5	UG	• Include overview of Blockchain technology. • Approved
6	HS 2XX/3XX/4XX: The Making of Digital Cultures	2-1-0-1.5	UG	• Approved
7	PH 4XX/ 6XX Magnetism in Condensed Matter Physics	2-1-0-3	UG, PG and Ph.D.	• Approved
8	PH 4XX / PH 6XX Spintronics and Applications	2-1-0-3	UG, PG and Ph.D.	• Approved
9	PH 4XX / PH 6XX: Weak Interactions and the Standard Model	2-1-0-3	UG, PG and Ph.D.	• Approved

ITEM NO. 57.7: Discussion on the syllabus of 2nd to 4th semester courses pertaining to the following revised programs as per the NEP-2020:

- M.Sc. in Astronomy
- M.Sc. in Mathematics
- M.Sc. in Physics

The concerned Heads of Departments (HODs) and DPGC Convener presented their courses for approval. The Senate approved the same with the following remarks mentioned against each course:

M.Sc. Astronomy:

1st Year: Semester-II

Course code	Course Title	Contact Hours (L-T-P-Credits)	Credits	Remarks
AA 472/ AA 672	Galactic and Extragalactic Astronomy	2-1-0	3	• Already approved.



AA 4XX/ AA 6XX	Cosmology	2-1-0	3	• Approved.
AA 474/ AA 674	Radio Astronomy	2-1-0	3	• Already approved.
AA 4XX/ AA 6XX	Stellar Evolution and Planets	2-1-0	3	• Approved.
AA 408/ AA 608	Astrostatistics	2-1-0	3	• Already approved.
AA 652N	Flexi core Laboratory: Observational Astronomy Laboratory	0-0-6	3	• To be discussed in the subsequent meeting of the Senate, subject to recommendation of SPGC.
AA 6XX	Flexicore Theory - I	2-1-0	1.5 (3/2 half sem)	-
AA 6XX	Flexicore Theory - II	2-1-0	1.5 (3/2 half sem)	-
Total minimum credits during the semester			21	

Courses from AASE for Flexicore - I and II

Course code	Course Name	Contact Hours (L-T-P)	Credits	Remarks
AA 6XX	Introduction to Astrobiology	2-1-0	1.5	• Approved.
AA 6XX	Astroparticle Physics	2-1-0	1.5	• Approved.
AA 6XX	Time Series Analysis for Astronomy	2-1-0	1.5	• Approved.
AA 6XX	Transient Phenomena in Astrophysics	2-1-0	1.5	• Approved.

2nd Year: Semester-III

Course code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
AA 799	M.Sc. Research Project (Stage-I)	0-0-12	6	-
AA 6XX	Departmental Elective-I	2-1-0	3	-
AA 6XX	Departmental Elective-II	2-1-0	3	-
ZZ 6XX	Institute Elective	2-1-0	3	-
AA 6XX	Scientific Communication	1-0-0	1	• Approved.
AA 698	PG Seminar course	0-2-0	2	-
AA XXX	Makerspace for Astronomy	0-0-2	1	• Approved.
Total minimum credits during the semester			19	

Courses from Astronomy for Departmental Elective- I and II

Course code	Course Name	Contact Hours (L-T-P)	Credit	Remarks
AA 478/ AA 678	Space Weather	2-1-0	3	Already approved course.



AA 403 / AA 603	Space Engineering Systems	2-0-2	3	Already approved course.
AA 405 / AA 605	Detectors and sensors for Space Observations	2-0-2	3	Already approved course.
AA 606	Random Signals and Applied Kalman Filtering	2-1-0	3	Already approved course.
AA 411 / AA 611	Advanced Optics	2-0-2	3	Already approved course.
AA 409 / AA 609	Computational Methods in Astronomy and Space Sciences	2-0-2	3	Already approved course.
AA 676 / AA 476	Remote sensing for Atmospheric and Space Sciences	2-0-2	3	Already approved course.

2nd Year: Semester-IV

Course code	Course Title	Contact Hours (L-T-P)	Credits
AA 800	M.Sc. Research Project (Stage-II)	0-0-30	15
Total minimum credits during the semester			15
Total minimum credits during the program			76

M.Sc. Mathematics:

The HoD informed the Senate that there are no new courses included in revised curriculum. Some existing courses are updated, and some already approved elective courses are included in the revised curriculum. However, for some courses re-coding will be required, which will be taken care of by the Academic Office.

1st Year: Semester-II

Course Code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
MA 610N	Complex Analysis	2-1-0	3	• Approved.
MA 621	Ordinary Differential Equations	2-1-0	3	• Already approved.
MA 602	Numerical Analysis	2-0-2	3	• Include write-up about lab. • Include use of mathematical tools. • Approved.
MA 604	Point Set Topology	2-1-0	3	• Approved.
MA 606	Basics of Data Structures and Algorithms	1-0-2	2	• Approved.
MA 6XX	Department Elective I	2-1-0	3	-
Total minimum credits during the semester			17	



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2nd Year: Semester-III

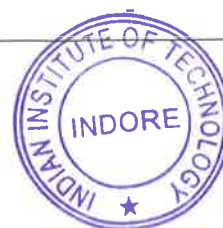
Course Code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
MA 615	Partial Differential Equations	2-1-0	3	• Already approved.
MA 617	Functional Analysis	2-1-0	3	• Already approved.
MA 6XX	Department Elective II	X-X-X	3	-
MA 6XX	Department Elective III	X-X-X	3	-
ZZ XXX	Institute Elective I	X-X-X	3	-
MA 6XX	Flexicore I	X-X-X	3/2 (Half Semester)	-
MA 799	M.Sc. Project (Stage-I)	0-0-6	3	• Recommended.
Total minimum credits during the semester			19.5	

2nd Year: Semester-IV

Course Code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
MA 6XX	Department Elective IV	X-X-X	3	-
ZZ XXX	Institute Elective II	X-X-X	3	-
MA 6XX	Flexicore II	X-X-X	1.5 (3/2 Half Semester)	-
MA 800	M.Sc. Project (Stage-II)	0-0-18	9	• Recommended.
Total minimum credits during the semester			16.5	

M.Sc. Physics:**1st Year: Semester-II**

Course code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
PH 6XX	Statistical Mechanics	2-1-0	3	• Already approved course.
PH 6XX	Atomic and Molecular Physics	2-1-0	3	• Approved.
PH 6XX	Fundamentals of Solid-State Physics	2-1-0	3	• Approved.
PH 6XX	Nuclear and Particle Physics	2-1-0	3	• Approved.
PH 6XX	Nuclear Physics Lab	0-0-4	2	• Include more experiments or club with other lab course like Makerspace and accordingly update the title. • Not approved.
PH 6XX	Flexi core (ANY TWO x 1.5	2-1-0	3	



	credits)			
PH 6XX	Seminar Course	0-2-0	2	• Approved.
Total minimum credits earned during the semester			19	

Flexi core (ANY TWO)				
Course Code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
PH 6XX	Approximation Techniques in Quantum Mechanics	2-1-0	1.5	• Approved.
PH 6XX	Relativistic Quantum Mechanics	2-1-0	1.5	• Approved.
PH 6XX	Digital Electronics	2-1-0	1.5	• Approved.

2nd Year: Semester-III

Course code	Course Title	Contact Hours (L-T-P)	Credits	Remarks
PH 6XX	Electronics and Maker space lab	0-1-4	3	• Not approved in view of required revision in the course PH 6XX: Nuclear Physics Lab.
PH 6XX	Dept. Elective - I	2-1-0	3	-
PH 6XX	Institute Elective - I	2-1-0	3	-
PH 6XX	M.Sc. Project (Stage-I)	0-0-20	10	• Approved.
Total minimum credits to be earned during the semester			19	

2nd Year: Semester-IV

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



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ITEM NO. 57.8: Cross-listing and level change of Physics courses.

The HoD Physics presented the following courses for cross-listing and changing the course level. The Senate approved the same with the following remarks:

Title of the course	Previous course code	Revised course code	Remarks
Group Theory in Particle Physics	PH 316	PH 4XX / PH 6XX	• Approved for level change from 3 rd year to 4 th year and cross-listing with PG/ PhD.
Introduction to String Theory	PH 318	PH 4XX / PH 6XX	• Approved for level change from 3 rd year to 4 th year and cross-listing with PG/ PhD.
Experimental and Theoretical Aspects of Heavy Ion Collisions	PH 308/ PH 408	PH 408 / PH 6XX	• Approved for level change from 3 rd year to 4 th year and cross-listing with PG/ PhD.
Dualities in field theory and gravity	PH 612	PH 612 / PH 4XX	• Approved for cross-listing for UG program with 4 level.

ITEM NO. 57.9: Any other matter with the permission of the Chair

NIL



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



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