भारतीय प्रौद्योगिकी संस्थान जोधपुर
Indian Institute of Technology Jodhpur

अभिषद
SENATE

37वीं बैठक के कार्यवृत्त

Minutes of
37th Meeting

20th March, 2024
Senate Room, IIT Jodhpur

This page is left blank, intentionally

भारतीय प्रौद्योगिकी संस्थान जोधपुर
Indian Institute of Technology Jodhpur

<table>
<tr><td></td><td colspan="2">Minutes of 37th Meeting
20th March 2024 at 3:00 pm
Senate Room, IIT Jodhpur</td></tr>
</table>

The following members were present:		
The Director, Ex-officio, who shall be the Chairman of the Senate	1.	Prof. Santanu Chaudhury Director, IIT Jodhpur
The Deputy Director, Ex-officio	2.	Prof. S.R. Vadera Deputy Director, IIT Jodhpur
Three persons, not being employees of the Institute, to be nominated by the Chairman in consultation with the Director, from among educationists of repute, one each from the fields of science, engineering and humanities; and	3.	Dr. Sanjeev Misra Vice Chancellor, Atal Bihari Vajpayee Medical Universi Former Director, AIIMS Jodhpur
	4.	Prof. H.P. Khincha Chairman Karnataka State Innovation Council, Bengaluru (Online)
	5.	Prof. Purnima Singh Deptt. of Humanities & Social Sciences IIT Delhi (Online)
	6.	Prof. Neeraj Jain, Deptt. Of BSBE
	7.	Prof. Mitali Mukerji, Deptt. Of BSBE
	8.	Prof. Ajay Agarwal, Deptt. of EE
	9.	Prof. Somitra K. Sanadhya, CS&E
	10.	Prof. Gaurav Bhatnagar, Mathematics
	11.	Prof. Bharat Singh Rajpurohit, EE
	12.	Prof. Deepakkumar M. Fulwani, EE
	13.	Prof. Shree Prakash Tiwari, EE
	14.	Prof. Anil Kumar Tiwari, EE

	15.	Prof. Ananya Debnath, Chemistry	
	16.	Prof. Samanwita Pal, Chemistry	
	17.	Prof. Atul Kumar, Chemistry	
	18.	Prof. B. Ravindra, ME	
	19.	Prof. Anand Krishnan Plappally, ME	
	20.	Prof. Kaushalkumar A. Desai, ME	
	21.	Prof. Prodyut Ranjan Chakraborty, ME	
	22.	Prof. Rahul Chibber, ME	
	23.	Prof. Suril Shah, ME	
	24.	Prof. Ram Prakash, Physics	
	25.	Prof. Ambesh Dixit, Physics	
	26.	Prof. Ashutosh Kumar Alok, Physics	
	27.	Prof. Gaurav Harit, CS&E	
	28.	Prof. Amit Mishra, BSBE	
	29.	Prof. Sushmita Jha, BSBE	
	30.	Prof. Meenu Chhabra, BSBE	
	31.	Prof. Ankita Sharma, SoLA	
	32.	Prof. Parag Arvind Deshpande, CE	
Deans	33.	Prof. Samanwita Pal, Dean (R&D)	
	34.	Prof. Somitra K. Sanadhya Dean (Digital Transformation)	
	35.	Prof. Atul Kumar Dean (Academics)	
	36.	Prof. Ankita Sharma Dean (Student Affairs)	
	37.	Prof. Ram Prakash Dean (Infrastructure)	
	38.	Prof. Kaushal Desai Dean (PRG, IITJ Connect & Executive Education)	
Heads of the Departments or Schools as may be established by the Institute.	39.	Department of Bioscience and Bioengineering	
		Prof. Mitali Mukerji	
	40.	Department of Chemical Engineering	
		Prof. P.K. Tewari	
	41.	Department of Chemistry	
		Dr. Ramesh K. Metre	

4

	42.	Department of Computer Science & Engineering
		Prof. Gaurav Harit
	43.	Department of Electrical Engineering
		Prof. Ajay Agarwal
	44.	Department of Mathematics
		Dr. V.V. M.S. Chandramouli
	45.	Department of Mechanical Engineering
		Prof. Suril V. Shah
	46.	Department of Physics
		Prof. Ashutosh Kumar Alok
	47.	Department of Civil & Infrastructure Engineering
		Prof. Subhasish Dey
	48.	School of Management & Entrepreneurship (SME)
		Prof. Chhanda Chakraborti
	49.	School of Artificial Intelligence & Data Science (AIDE)
		Prof. Neeraj Jain
	50.	School of Liberal Arts (SoLA)
		Dr. Farhat Naz
	51.	School of Design
		Dr. Nimish Vohra
	52.	Centre for Emerging Technologies for Sustainable Deve
		Prof. Meenu Chhabra
	53.	Inter-Disciplinary Research Platform (IDRP)
		Dr. S.C. Bose
	54.	Center for Research & Development of Scientific Instru
		Prof. Amitava Mitra
	55.	Center for Education and Technology for Education
		Prof. Bijnan Bandyopadhyay
	56.	Rishabh Center for Research and Innovation in Clean E
		Prof. Prodyut R. Chakraborty
One or more members of academic from each of the Departments and Schools, nominated by the Chairman of the Senate, for a period of one year, subject to a	57.	Department of Bioscience and Bioengineering
		Dr. Indranil Banerjee, AD (Hostel Affairs)
	58.	Department of Chemistry
		Dr. Dibyendu Kumar Sasmal

maximum of two persons from any Department or School.	59.	Department of Civil & Infrastructure Engg.
		Dr. Debanjan Guha Roy, AD (PRG)
	60.	Department of Computer Science & Engineering
		Dr. Suchetana Chakraborty, AD (R&D)
	61.	Department of Mathematics
		Dr. Abhishek Sarkar, AD (Student Affairs)
	62.	Department of Mechanical Engineering
		Dr. Ankur Gupta, AD (IRO)
	63.	Department of Metallurgical & Materials Engineering
		Dr. Abir Bhattacharyya, Associate Professor
	64.	Department of Physics
		Dr. Satyajit Sahu, Associate Professor
	65.	Chairperson, IRC_IDRP
		Dr. S.C. Bose, Head (IDRP)
	66.	School of Artificial Intelligence & Data Science
		Dr. Dipanjan Roy, Associate Professor
	67.	School of Liberal Arts
		Prof. Ankita Sharma, Dean (Student Affairs)
Two distinguished persons from the industry, Research & Development, Financial Institutions and any other comparable organizations, nominated by the Chairman of the Senate, for a period of two years.	68.	Dr. Souvik Bhattacharyya, Former Vice Chancellor BITS, Pilani (Online)
Special Invitee	69.	Prof. C. Venketesan Professor-in-charge (Faculty)
	70.	Dr. Somnath Ghosh Faculty-in-charge (Curriculum Implementation)
Up to five student representatives nominated by the Chairman of the Senate, as special invitees, for a period of one year whose participation shall be for the non-evaluation items of the Senate.	71.	Vice President, Board of Academic Interaction
Secretary to the Senate	72.	Dr. Hari Om Yadav, Registrar
Special Invitee	73.	Dr. Reetanjali Moharana
Special Invitee	74.	Dr. Rachel Philip
Special Invitee	75.	Dr. Deepak Saxena

The following members and special invitees could not attend the Meeting	
1.	Prof. Surajit Ghosh, Dean (International Relations, Alumni Relations and Corporate Relations)
2.	Prof. Mayank Vatsa, Department of CS&E
3.	Prof. Richa Singh, Department of CS&E
4.	Prof. Mahesh Kumar, Department of EE
5.	Prof. Manikandan Paranjothy, Department of Chemistry
6.	Prof. Rakesh Kumar Sharma, Department of Chemistry
7.	Prof. Subhashish Banerjee, Department of Physics
8.	Dr. K.R. Ravi, Head (Department of Metallurgical & Materials Engineering)
9.	Dr. Kirankumar Hiremath, Acting Head (Centre for Technology Foresight & Policy)
10.	Dr. Angan Sengupta, Department of Chemical Engineering
11.	Dr. Manish Narwaria, AD (Academics)
12.	Dr. Venkatesha Murthy R, School of Management & Entrepreneurship
13.	Dr. Manish Gupta, Director, Google Research India
14.	Sh. P.G. Basak, Advisor (Administration)
15.	General Secretary, ACAC
16.	General Secretary, Student Senate

The following were the recommendations of the Senate:

S. No.	Items
37.1	**Welcome by the Chairman, Senate**
	The Chairman, Senate, welcomed all the members to the 37th Meeting of the Senate. On behalf of the Senate, he warmly welcomed and introduced the new Senate Members Prof. Parag Arvind Deshpande, Department of Chemical Engineering, and Dr. Nimish Vohra, First Head, School of Design, to Senate Members. The Chairman, further informed that after the last meeting of the Senate, the 9th Convocation of the Institute was successfully organized on 21st November, 2023.
	Further, he shared that out of the 3 Honoris Causa Doctorate approved by the Senate, Board of Governors and the Hon'ble Visitor of the Institute, 1 Honoris Causa Doctorate Degree was awarded in-person to Professor P.N. Prasad during the 9th Convocation. He expressed that the Institute would facilitate the remaining 2 Honoris Causa Doctorate

		shortly during the physical visit of the recipients. He suggested that the Institute shall keep following up with them for an early-date of visit to the IIT Jodhpur. Also, the Chairman shared with the members of Senate that the Institute has signed an MoU as part of Bharat Tex with NIFT Jodhpur.
37.1.1		**Confirmation of Minutes of the 36th Meeting of the Senate held on 16th and 18th November, 2023**
		The Senate confirmed the Minutes of the 36th Meeting of the Senate, as circulated.
37.1.2		**Report on Action Taken on decisions of the 36th Meeting of the Senate held on 16th and 18th November, 2023**

The Senate noted the Action Taken Report (ATR) on decisions of the 36th Meeting of the Senate held on 16th and 18th November, 2023 and recommended the following :

Item	Discussion Item	Senate Recommendation
36.2.1	Proposal for Guidelines for the implementation of Student Innovation and Entrepreneurship Policy	Senate noted the Action taken that the guidelines along with the Policy were circulated and implementation is under process.
36.2.5	Course curriculum for M.Tech. Programme in Quantum Technologies	The Senate resolved that the comprehensive review of the Course Structure and Course Curriculum to be obtained from Experts at the earliest as per the resolution of the last Senate meeting. The Chairman expressed that the laboratory equipment's requirement for effective implementation of the Program has to be finalized on an immediate basis as the Program has already commenced. The Senate requested Dr. S.C. Bose, Head, IDRP to prepare and present the comprehensive proposal towards laboratory development for running this Program, including a report on the utilization of Rs. 1.00 Crore sanctioned towards the development of laboratory facilities, to the Chairman, Senate for approval. The Senate also resolved that CRDSI facilities cannot be normally used for running regular laboratory courses. It shall be used for exploratory research. **Action: Head, IDRP/ Program Coordinator**

	36.2.6	Proposals for New Courses from various Departments/ Schools/ Centres			
		Particulars	Department/ IDRP/School/ Center	Annexure AP 36-8	Senate Recommendations
		Proposal of new courses	Center for Technology Foresight and Policy	1. Smart Contracts for Logistics retitled as Technologies and Policies for Smart Contract Applications Offered as elective at 700 level; L-T-P [C]- 2-0-0 [2] 2. Socio Technical Systems: Complexity and Governance as elective at 700 level; L-T-P [C]- 2-0-0 [2]	The Senate noted the following Action Taken and recommended to complete the same: *"Under process (Minor changes in the course Socio Technical Systems: Complexity and Governance and authorize the chairman senate to approve the course after incorporating the changes)"*
		Proposal of new courses and revision in BS specialization Green Energy	Chemistry	1. Revised structure for Green Energy BS specialization 2. Artificial Photosynthesis, offered as elective of 700 level Structure L-T-P [C] 3-0-0[3] for BS in Chemistry 3. Electrode Materials Offered as elective of 600 Structure L-T-P [C] 3-0-0 [3] for BS in Chemistry	The Senate noted the following Action taken and recommended to complete the same: *"Under process:* *For specialization Green Energy and course Artificial Photosynthesis, the Chairman, Senate was authorized to approve after incorporating the changes."*
		Proposal of new courses	School of Liberal art	1. Horror Fiction offered as an elective at 200 level for B.Tech. students L-T-P [C]- 3-0-0 [3] 2. Perspectives on Indian Education Offered as an elective at 400 level for B.Tech. students L-T-P [C] 3-0-0 [3] 3. Inclusive Practices Offered as an elective at 300 level for B.Tech. students L-T-P [C]- 3-0-0 [3] 4. Sociology of Language Offered as an elective at 300 level for B.Tech. students	The Senate noted that the same has been Implemented except the Course Indian English Writing would be placed in the next Senate meeting.

			L-T-P [C]- 3-0-0 [3] 5. Indian Childhoods in Popular culture Offered as an elective at 200 level for B.Tech. students L-T-P [C]- 3-0-0 [3] 6. Introduction to Comics Studies Offered as an elective at 200 level for B.Tech. students L-T-P [C]- 3-0-0 [3] 7. Languages of the world Offered as an elective at 200 level for B.Tech. students L-T-P [C]- 3-0-0 [3] 8. Indian English Writing Offered as an elective at 200 level for B.Tech. students L-T-P [C]- 3-0-0 [3]	
36.6	**Any other Item with the prior permission of the Chairman, Senate**			
36.6.2	Sports Quota for admissions to programmes of IIT Jodhpur		The Senate noted the Action Taken as presented in the Agenda. The Chairman, Senate expressed that in line with the Courses of Minor in Performing Arts, Courses in Sports, stretched over all Semesters starting from the 3rd Semester, need to be explored. This would also contribute to the mental wellness of the students. The Chairman, Senate further suggested that a Committee be constituted comprising of Dean (Student Affairs), Dean (Academics) and one Faculty Member having interest in the Sports to explore the possibility of running such courses. **Action: Registrar**	

37.2	Discussion Items
37.2.1	**Proposal to increase the number of seats in B.Tech. Programs in light of the projected strength of students at IIT Jodhpur**

Dean (Academics) presented the proposal to the Senate for increasing 50 Seats in B.Tech. Programs to meet the projected growth of the Institute in the next 10 years. The following proposal for increasing the intake was presented before the Senate :

S.N.	B.Tech. Branch	Existing intake	Proposed increase in intake	Total intake
1.	Artificial Intelligence & Data Science	50	20	70
2.	Electrical Engineering	80	10	90
3.	Mechanical Engineering	80	10	90
4.	Civil and Infrastructure Engineering	50	10	60

The Dean (Academics) further apprised the Senate that with this increase, the total intake in B.Tech. Programs will increase from **490 to 540.**

The Senate after detailed deliberation on the availability of Teaching-Learning Resources, Hostels, skill sets required by the industries, and Job opportunities in various engineering domains approved the proposal for increasing 50 seats in the B.Tech. Programs.

Action: Dean (Academics)

37.2.2	**Proposal to start B.Sc.-B.Ed. Program (ITEP)**

Dr. Rachel Philip, Affiliate Faculty, Center for Education & Technology for Education (CETE) presented the proposal to start a 4-year (8 semesters) B.Sc-B.Ed. Integrated Teachers Education Program (ITEP) before the Senate. Dr. Philip shared that students would be admitted through the National Common Entrance Test (NCET) conducted by the National Testing Agency (NTA), on behalf of the National Council for Teacher Education (NCTE). The Program would prepare the teachers of secondary level (class 9-12) as per the NEP-2020.

Dr. Philip presented that the candidates with a minimum of 50% Marks or an equivalent Grade in Class 12 from a recognized Board / State Board with Physics, Chemistry, and Mathematics subjects would be eligible for admission in the Program. The first Batch of B.Sc.-B.Ed. (ITEP) program would start from Semester-I, of A.Y. 2024-25 with 50 seats.

Dr. Philip further apprised that the total number of Credits required as per the NCTE guidelines is 160, where 1 Credit is equal to 15 hours. To bring parity with other programs at the Institute (At the Institute, 1 Credit is equivalent to 14 lecture hours), this Program is proposed with 175 Credits.

The Senate after a detailed discussion on the benefit of running the Program approved the proposal for starting the B.Sc.-B.Ed. (ITEP) program from the upcoming Semester-1, AY 2024-25.

The detailed proposal is placed as *"Annexure I"* of the Minutes.

Action: Head/Convener (CETE)
Dean (Infrastructure)
Dean (Academics)

37.2.3	**Proposal for an IITJ-NLU Jodhpur Joint Centre on Technology and Law, and to initiate Joint Programmes: PhD and Masters in Law and Technology by the Centre**
	Prof. Chhanda Chakraborti presented the proposal for an IITJ-NLUJ Joint Centre on Technology and Law, and to initiate Joint Programs: Ph.D. and Masters in Technology and Law by the Centre before the Senate. The Senate observed that with the advancements in technological landscapes and associated legal aspects, legal experts and technologists must collaborate and ensure that the legal framework keeps pace with technological innovations to enhance the efficiency of the justice delivery system through technological interventions. The Senate after a detailed discussion of the proposal recommended the following: 1. To establish a Joint Center of Law and Technology with National Law University Jodhpur (NLUJ) at the institute; 2. The center will be a constituent of the Interdisciplinary Research Division (IDRD); 3. The Joint Center may have affiliated faculty from IIT Jodhpur. Also, the center may appoint distinguished academics and legal luminaries as adjunct faculty and regular faculty in future; Associated faculty from NLU J will be considered as affiliated guest faculty; 4. To start a Joint Masters Program in Law and Technology of minimum duration of 2-years from Semester-I, A.Y. 2024-25 in regular, part-time, and Hybrid mode with a maximum of 10 seats; 5. The Master's Programme will comprise a total of 60 credits with 24 credits of coursework (including 4 non-graded courses) and 36 credits of project/research work. It will be governed as per regulations of MS(R) programme of the institute if not otherwise special provisions are approved by the Senate. 6. These Master's students will further have the option to convert their registration from a Master's to a Ph.D program as per the norms of the Institute. The detailed proposal is placed as *"Annexure II"* of the Minutes. **Action: Prof. Chhanda Chakraborti**
37.2.4	**Proposal to start an M.S.(Research) and M.S.(Research)-Ph.D. Program in Astronomy and Astrophysics in collaboration with Aryabhatta Research Institute of Observational Sciences (ARIES), Nainital**
	Dr. Reetanjali Moharana, made a detailed presentation to start an M.S. (Research) and M.S. (Research)-Ph.D. Program in Astronomy and Astrophysics in collaboration with Aryabhatta Research Institute of Observational Sciences (ARIES), Nainital before the Senate. She informed that the detailed course curriculum will be placed in the ensuing meeting of the Senate, after the academic workshop scheduled during April 2024 with subject experts. The Senate after detailed deliberation approved to establish IITJ-ARIES Joint Centre for Research in Astronomy and Astrophysics at IITJ under the following themes: 1. Astronomy; 2. Astrophysics; 3. Data Analytics and AI in Astronomy and Astrophysics; 4. Atmospheric Science; and 5. Geo-spatial Science & technology. The Senate also in-principle approved to start M.S. (Research) and M.S. (Research)-Ph.D. Programs in Astronomy and Astrophysics in collaboration with ARIES under the Interdisciplinary Research Division (IDRD). It will be managed by the ARIES-IITJ joint The detailed proposal is placed as *"Annexure III"* of the minutes. **Action: Dr. Reetanjali Moharana / Head (IDRD)**

37.2.5	**Proposal for a stackable Program in Applied AI and Data Science in collaboration with an external partner – Futurense**
	Prof. Somitra Kumar Sanadhya presented the Concept Note for the B.Sc./ B.S. Program in Applied AI and Data Science in collaboration with an external partner – Futurense before the Senate. The proposal had the following program structure given the NEP guidelines: • Certification Program (2 Semesters: 32 Credits: 8 courses) • Diploma Program (4 Semesters: 64 Credits: 16 courses) • B.Sc. Degree Program (6 Semesters: 96 Credits: 24 courses) • B.S. Degree Program: 2 Tracks (8 Semesters: 128 Credits: 32 courses). Track-1 is intended for students interested in a career in industry while Track-2 is meant for students who wish to take up higher education. Prof. Sanadhya also presented that the course delivery will be in a mix of 40% Asynchronous (Institute Faculty Recorded Lecture), 25% Synchronous (Delivered by Local Faculty), and 35% Synchronous + Asynchronous (Delivered by Partner (industry Experts)). Local faculty will use the local language for their lectures to make the course delivery multi-lingual. Students will be divided into groups based on their background and will have regular contact hours with the local faculty members. Contact hours and evaluations of every course will be as per IIT Jodhpur norms. He shared that the minor and major examinations will be conducted at institute-approved examination centers. The Partner will work with test centers, like TCS iON to implement the exam center model. The eligibility for admission to the program would be as under: • All candidates who have a minimum score of 60% in the 10+2 examination with Mathematics as one of the papers in the Board Exam would be eligible for applying for the program. • If a candidate does not have the prerequisite 60% score in the 10+2 Board examination, but has qualified for JEE Main examination, the candidate will be eligible to apply for the program. • The candidate will have to pass an online Qualifier examination, conducted by the Institute with the support of the partner, to be eligible for admission to the program. Further, Prof. Somitra shared that the student has to maintain a 50% cumulative score to be eligible to move to the next level. He briefed the Senate that the partner organization Futurense would provide Tech. support, marketing, onboarding, LMS, print and video content development, course development charges, facilitate industry immersions, licenses of software used in various courses, maintaining question and assessment bank, job assistance and placement support etc. Whereas the JCKIF at IITJ will provide local support, organize FDP for local faculty members, ensure optional immersion for students at IITJ during summer, provide student TAs, facilitate student registrations and fee collection, and tie-up with local faculty in Rajasthan etc. JCKIF will also explore alliances with state governments for student fellowships as well as offering some courses as minor programs to degree colleges. The copyright of all material developed by IIT faculty members would remain with the Institute.

The Senate after a detailed discussion approved the proposal with the following suggestions:

1. As the program is application-oriented, the number of practical credits may be increased in each course from one to two; thereby increasing the credits per semester from 16 to 20;
2. The minimum number of credits to be earned for Certificate, Diploma, B.Sc. and B.S. programs should be
   a. Certificate- 40 Credits
   b. Diploma- 80 Credits
   c. B.Sc.- 120 Credits
   d. B.S.- 160 Credits
1. The detailed course descriptions are to be placed in the upcoming senate meeting;
2. Attractive fellowships for the Ph.D. students assisting the Program may be awarded;
3. To start the Program from Semester-I, AY 2024-25, efforts should be made to make available the recorded lecture from 1st August 2024; and
4. The students who graduate with the B.Sc. and B.S. Degree would get Alumni status of the Institute.

The detailed concept note is placed as *"Annexure IV"* of the minutes.

Action: Prof. Somitra Kumar Sanadhya

37.2.6	**Proposals for New elective Courses from various Departments/ Schools/ Centres**

Particulars	Department/ IDRP/School/Center	Course	Senate Recommendation
Proposal of new course	School of Liberal Arts	Introduction to linguistics Offered as elective of 200 Structure L-T-P [C] 3-0-0[3] for UG	Prof. Ankita Sharma, Faculty, SoLA presented the Course "Introduction to linguistics" before the Senate. The Senate after detailed discussion recommended changing the level of course from 200 to 300/400 and making it an open elective. Further, a possibility to include a module on computational linguistics may be explored. The Senate authorized the Chairman, Senate to approve the course after incorporating the above suggestions. **Action: Prof. Ankita Sharma / Head, SoLA**

Proposal of new courses	School of Management & Entrepreneurship	Introduction to Business and Management Offered as an open elective of 400 level Structure L-T-P [C] 3-0-0[3] for UG	Dr. Deepak Kumar Saxena from the School of Management & Entrepreneurship (SME) presented the Course Introduction to Business and Management before the Senate. After detailed deliberation, the Senate did not approve the course and advised the SME to strengthen the Minors in Management and Entrepreneurship. **Action: Head, SME**
Proposal of new courses	Center for Emerging Technologies for Sustainable Development	New course: 1. Industrial Ecology and Life Cycle Assessment offered as elective of 700 level Structure L-T-P [C] 3-0-0[3] for B.Tech, M.Sc., M.S., M.Tech, M.Tech-Ph.D., Ph.D. Revised Courses 2. Water Sustainability offered as elective of 700 level Structure L-T-P [C] 3-0-0[3] for B.Tech, M.Sc., MS, M.Tech, M.Tech-Ph.D., Ph.D. 3. Climate Change and Public Health offered as elective of 700 level Structure L-T-P [C] 3-0-0[3] for B. Tech, M.Sc., MS, M. Tech, M. Tech-Ph.D., Ph.D. 4. Sustainable Development Goals offered as elective of 700 level Structure L-T-P [C] 2-0-0	Dr. Meenu Chhabra, Head, CETSD presented the courses to the Senate as under: New course **Industrial Ecology and Life Cycle Assessment**: The Senate after discussion approved the course. **Water Sustainability**: The Senate after discussion approved the Course with minor amendments to include the recharging of groundwater and one case study on the Israel Model. **Climate Change and Public Health**: The Senate suggested keeping one separate module on Public Health by bringing the public health proportions from different modules- this will highlight the Public Health module effectively and collectively. The Senate authorized the Chairman, Senate to approve the Course after incorporating the suggestions. **Sustainable Development Goals:** The Senate after a detailed discussion approved the course. **Technology for Rural Sanitation:** The Senate after discussion approved the Course with minor amendments to include next generation sanitation technology.

15

			[2] for B. Tech (Final), MSc, M. Tech, PhD. 5. Technologies for Rural Sanitation offered as elective of 700 level Structure L-T-P [C] 3-0-0 [3] for B. Tech (Final), MSc, M. Tech, PhD. 6. Principles of Membrane Fabrication offered as elective of 700 level Structure L-T-P [C] 3-0-0 [3] for B.Tech, M.Sc., MS, M.Tech, M.Tech-Ph.D., Ph.D.	**Principle of Membrane Fabrication:** After detailed discussion, the Senate approved the Course after **Action: Head, CETSD**
	Proposal of new courses	Center for Education and Technology for Education	Education: An Overview Offered as elective of 700 level Structure L-T-P [C] 3-0-0 [3] for Ph.D.	Dr. Rachel Philip, Affiliate faculty, CETE presented the course to the Senate. The Senate after a detailed discussion on the scope of the Course suggested that this Course may be restructured in a bouquet of Courses in place of one Course. It may be placed before the Senate in the ensuing meeting with the recommendations of ACM, **Action: Dr. Rachel Philip**
	Proposal of new courses	School of Design	Design Research Methods Offered as elective of 700 level Structure L-T-P [C] 2-0-2 [3] Research-based Project Offered as elective of 700 level Structure L-T-P [C] 1-0-4 [3] Design-based Project Offered as elective of 700 level Structure L-T-P [C] 1-0-4 [3]	Prof. Nimish Vohra, Head, School of Design, presented the Courses to the Senate The Chairman, Senate suggested that there is a need for an all-faculty workshop on Design Research and Design Thinking to have more critical understanding of these courses. The Senate approved the courses provisionally, which will be revisited after the Workshop. **Action: Head, School of Design**

	The Chairman, Senate advised all Heads to ensure that any approved Course should not be restrictive to a Program or a Faculty Member (including external Faculty) or a Department / School/ Center/ Division. Any Faculty Member from any Academic Unit can teach any approved Course. Further, industry-oriented courses can be taught by an Industry Expert or a Faculty Member within the Institute with requisite expertise / specialization. **Action : All Heads**
37.3	**Procedural Items**
37.3.1	**Academic Calendar for AY 2024-25 Semester-I**
	The Dean (Academics) presented the Academic Calendar for AY 2024-25 Semester-I before the Senate. The Senate discussed the Academic Calendar in detail and approved the Academic Calendar (placed at **Annexure-V**) for AY 2024-25 Semester I. **Action: Dean (Academics)**
37.4	**Reporting, Adopting and Noting Items**
37.4.1	**Academic recommendations of the Executive Committee of Senate (ECS) made in its 31st Meeting held on 13th February 2024**
	The Senate noted and accepted the academic recommendations of the Executive Committee of Senate (ECS) made in its 31st Meeting held on 13 February, 2024. **Action: All Heads /Concerned**
37.4.2	**Academic recommendations of the Executive Committee of Senate (ECS) made in its 32nd Meeting held on 13th March 2024**
	The Senate noted and accepted the academic recommendations of the Executive Committee of Senate (ECS) made in its 32nd Meeting held on 13 March 2024. **Action: All Heads/Concerned**
37.5	**Ratification Items**
37.5.1	**Approval accorded by the Chairman, Senate on behalf of the Senate**
	The Senate ratified the approvals accorded by the Chairman, Senate on behalf of the Senate, as presented in the Agenda.
37.6	**Any other Item with the prior permission of the Chairman, Senate**
37.6.1	**Revised guidelines for the award of Best Thesis Work**
	Prof. Sampat Raj Vadera, Deputy Director apprised the Senate that the Board of Governors suggested to revise the guidelines for the award of Best Ph.D. Thesis Work. Subsequently, the Ph.D. Thesis Award Committee of the Institute has revised the guidelines. Thereafter, Prof. Vadera presented the revised guidelines for the award of Best Thesis Work before the Senate. The Senate discussed the guidelines in detail and opined that the criteria for award in different categories (Science, Engineering, Interdisciplinary Research, and Humanities and Social Sciences & Management) for the Stage A & Stage B selection has to be laid down separately. The Chairman, Senate suggested sharing the proposed guidelines with all the Academic Units for their suggestions. The criteria for Humanities and Social Sciences and Management can be prepared by the respective Schools for further consideration. After detailed deliberation, the Senate resolved that a Workshop involving Ph.D. Student representatives and Faculty Members may be conducted to finalize the revised guidelines for the award of Best Thesis Work. The revised guidelines incorporating the outcome of the workshop shall be presented in the next meeting of the Senate. **Action: Deputy Director**

37.6.2	Proposal for Additional Scope for Interdisciplinary Research Division (IDRD)

Dr. S.C. Bose Head, Inter-disciplinary Research Division (IDRD) presented the proposal for Additional Scope for IDRD before the Senate.

Dr. Bose shared that at IIT Jodhpur, a Division of Inter-disciplinary Research (IDRD) has been established since AY 2019-20 to support interdisciplinary research platforms (IDRPs) in the contemporary areas of research & innovation and operating with the following six platforms:

- Digital Humanities (DH),
- IoT and Applications (IoT),
- Quantum Information and Computation (QIC),
- Robotics and Mobility (RM),
- Smart Health Care (SHC) and
- Space Science Technology (SST)

Dr. Bose further apprised the Senate that with the expansion of activities and new collaborations, including multi-institutional initiatives emerging in the area of interdisciplinary research, it has become imperative to expand the scope of operations of IDRD. IDRD will be the institutional umbrella to manage intra and inter-institutional interdisciplinary activities.

Due to expansion of activities and new collaborations with external entities it was decided to set up following centres upgrading the existing IDRPs into Interdisciplinary Centres under IDRD:

- Centre for AIOT and Applications (with AIOT Innovation Hub Foundation) (converting IOT and Applications IDRP)
- IIT Jodhpur – AIIMS Jodhpur Joint MedTech Centre (arising out of Smart Health IDRP)
- Centre for Digital Health (with Libra Foundation) (arising out of Smart Health IDRP)

And, also establishment of following New Multi-institutional Inter-disciplinary Centres are proposed

- IITJ - NLUJ Joint Centre on Law and Technology
- IITJ – ARIES Joint Centre of Research in Astronomy and Astrophysics

The Centers may be allowed to propose new research-based PG Programs in addition to the Ph.D. programs.

The Senate after detailed discussion approved the proposal for setting up these interdisciplinary centres under IDRD which may have with dedicated physical space, administrative support, affiliate and core faculty members representing various disciplines as per the proposal placed as *"Annexure VI"* of the Minutes.

Action: Head, IDRD

The meeting concluded with thanks to the Chairman and all Members.

26/12/2024

(Dr. Hari Om Yadav)
Registrar & Secretary, Senate

Approved

(Prof. Santanu Chaudhury)
Director & Chairman, Senate IIT Jodhpur