भारतीय प्रौद्योगिकी संस्थान जोधपुर
Indian Institute of Technology Jodhpur

अभिषद
SENATE

33वीं बैठक के कार्यवृत्त

Minutes of
33rd Meeting

01 March 2023 (Wednesday)
3:00 pm onwards
Senate Room, IIT Jodhpur

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Indian Institute of Technology Jodhpur

Minutes of 33rd Meeting
1st March, 2023 (Wednesday) at 3:00 pm
Senate Room, IIT Jodhpur

	The following members were present:	
1.	Prof. Santanu Chaudhury Director, IIT Jodhpur	Chairman
2.	Prof. S.R. Vadera Deputy Director, IIT Jodhpur	Member
3.	Dr. Sanjeev Misra Vice-Chancellor, Atal Bihari Vajpayee Medical University Lucknow & Former Director, AIIMS Jodhpur	Member
4.	Prof. H.P. Khincha, Chairman Karnataka State Innovation Council, Bangalore	Member
5	Prof. Ajay Agarwal, Deptt. of EE	Member
6.	Prof. Surajit Ghosh, Deptt. of BB	Member
7.	Prof. Somitra K. Sanadhya, AIDE	Member
8.	Prof. Sangeeta Sahney, SME	Member
9.	Prof. Mayank Vatsa, Deptt. of CSE	Member
10.	Prof. Richa Singh, Deptt. of CSE	Member
11.	Prof. Neeraj Jain, AIDE	Member
12.	Prof. Surajit Ghosh, Dean (International Relations, Alumni Relations and Corporate Relations)	Member
13.	Prof. Somitra K. Sanadhya, Dean (Digital Transformation)	Member
14.	Prof. Mayank vatsa, Dean(R&D)	Member
15.	Head, Department of Chemical Engineering Prof. P.K. Tewari	Member
16.	Head, Department of Chemistry Dr. Ramesh K. Metre	Member
17.	Head, Department of Electrical Engineering Prof. Ajay Agarwal	Member

No.		Role
18.	Head, Department of Mathematics Dr. Puneet Sharma	Member
19.	Head, Department of Mechanical Engineering Dr. Suril V. Shah	Member
20.	Head, Department of Metallurgical & Materials Engineering Dr. K.R. Ravi	Member
21.	Head, Department of Physics Dr. Ashutosh Kumar Alok	Member
22.	Head, Department of Civil & Infrastructure Engineering Dr. Ranju Mohan	Member
23.	Head, School of Management & Entrepreneurship (SME) Prof. Sangeeta Sahney	Member
24.	Head, School of Liberal Arts (SoLA) Dr. Farhat Naz	Member
25.	Head, Centre for Technology Foresight & Policy Dr. Krishna K Balaraman	Member
26.	Dr. S.C. Bose, Head & Chairperson, IRC_IDRP, Inter-Disciplinary Research Platform (IDRP)	Member
27.	Dr. Deepak Arora, AD (R&D)	Member
28.	Dr. Satyajit Sahu, Associate Professor , Department of Physics	Member
29.	Dr. Indranil Banerjee, AD (Hostel Affairs)	Member
30.	Dr. Atul Kumar, AD (Academics- PG Programs)	Member
31.	Dr. Gaurav Harit, AD (Academics- UG Programs)	Member
32.	Dr. Gaurav Bhatnagar, AD (IRO)	Member
33.	Dr. Deepak M. Fulwani, AD (PRG)	Member
34.	Dr. Anand K. Plappally, Associate Professor, Department Department of Mechanical Engineering	Member
35.	Dr. Abir Bhattacharyya, Assistant Professor, Department of Metallurgical & Materials Engineering	Member
36.	Dr. Sankalp Pratap, Associate Professor, School of Management & Entrepreneurship	Member

37.	Dr. Dipanjan Roy, Associate Professor, School of Artificial Intelligence & Data Science	Member
38.	Dr. Ankita Sharma, AD (Student Affairs) and Associate Professor, School of Liberal Arts	Member
39.	Prof. C. Venketesan Professor-in-charge (Faculty)	Special Invitee
40.	Dr. Kaushal Desai Faculty-in-charge (Executive Education)	Special Invitee
41.	Prof. Amitava Mitra, Professor-in-charge (Infrastructure Engineering)	Special Invitee
42.	Dr. Somnath Ghosh, Faculty-in-charge (Curriculum Implementation)	Special Invitee
43.	General Secretary, ACAC	Special Invitee
44.	Dr. Hari Om Yadav, Registrar	Secretary

The following members could not attend the Meeting due other pressing engagements:

1.	Prof. Souvik Bhattacharyya, VC, BITS Pilani	Member
2.	Prof. Purnima Singh, Deptt. of Humanities & Social Sciences, IIT Delhi	Member
3.	Dr. Jitendra Balakrishnan, CTO-Products, Sterlite Technologies Ltd.	Member

The following are the recommendations of the Senate:

S.No.	Items
33.1	**Welcome by the Chairman, Senate**
	The Chairman, Senate welcomed all the members to the 33rd Meeting of the Senate. The Chairman briefed members about the successful organization of *Industry Day* 2023 and *Conclave for Friends* of IIT Jodhpur 2023. The Chairman further apprised the Senate that IIT Jodhpur, AIIMS, Jodhpur & Jodhpur City Knowledge and Innovation Foundation (JCKIF) jointly organized the 1st Indian Conference on Med-Tech Innovations (ICMI) during 24-26th February, 2023. The Conference hosted participants from engineering and medical backgrounds from across the country. During the conference, various activities such as; Plenary Talks, a unique Med Tech Hackathon, Students Posters and Oral Presentations, Prototype / Product demonstrations were conducted. A Company based in Aurangabad has funded the final 06 entries for the Hackathon. In-principle, it was decided that 03 final entries for creating a Startup will be funded.

	The Chairman also informed the members regarding the foundation stone laying ceremony for the "Rishab Center for Research & Innovation in Clean Energy". The Chairman further informed that an Agreement with M/s. Rishabh Instruments Pvt. Ltd. and Ivaan Foundation is being executed for funding of Rs. 70 Crores for undertaking the various activities of the proposed Center. The Chairman suggested planning and organizing events for **Quindecennial Celebration** "Celebration of 15 Years of IIT Jodhpur" during 16-19th March 2023. The Chairman also informed that the Secretary, DST, Government of India is visiting the Institute on 16th March, 2023. The Chairman further suggested Senate Members to take judicious decisions while discussing and approving new academic programs from July 2023 as these programs will be binding to the Institute in the future. Any new program started must be owned by the Institute and relevant departments / centers for its successful implementation.
33.1.1	**Confirmation of Minutes of the 32nd Meeting of the Senate held on 20th December, 2022**
	The Senate confirmed the Minutes of the 32nd Meeting of the Senate, as circulated.
33.1.2	**Report on Action Taken on decisions of the 32nd Meeting of the Senate held on 20th December, 2022**
	The Senate noted report on Action Taken on decisions of the 32nd Meeting of the Senate held on 20 December 2022 as below and noted that the following proposals are under progress:

Item	Discussion Item	Action Taken
32.2.1	Proposal of a new Master Programme, M.DeS. in XR / Immersive Media hosted by School of Liberal Arts (SoLA), to be started from Semester-I, AY 2023-24	In the process of Implementation
32.2.4	Proposals for New Courses from various Dept./School/Centre	

SN	Department/ IDRP/School	New Courses	Action Taken
2	Department of Civil and Infrastructure Engineering	1. Rock Mechanics and Rock Engineering Laboratory	Under Process

	3	School of Management & Entrepreneurship	1. Qualitative Methods for Management Research 2. Technological Perspectives in Management Research 3. Quantitative Research Methods	Under Process
	4	School of Management & Entrepreneurship	1. Market Structures and Strategy 2. Personal Financial Planning 3. Strategizing for Indian Bazaars 4. Revenue & Pricing Management 5. Supply Chain Modeling and Behavioral Operations 6. Statistics of Management 7. Industrial Relations & Labour Law	Under process
	5	School of Liberal Arts;	1. Sociology of Education 2. Sentence Structure 3. Time and Literary Narratives 4. Language and Linguistics 5. Applied Time Series Modelling in Economics and Finance	Under process
	32.2.5	Conversion of a 4 Credit Course (Fundamentals of Machine Learning) to 1 Credit as Program Core and 3 Credit as Program or Open Elective.		Under Process

33.2	**Discussion Items**
33.2.1	**Proposal of a new MBA program in FinTech and Cyber Security from the School of Management & Entrepreneurship (SME)**

The Head, School of Management & Entrepreneurship presented the agenda before the Senate. The Senate after detailed discussion on the proposal recommended the proposal with minor modifications as indicated below:

1. The school will admit 40 students to the program. The school was advised to follow appropriate strategy to ensure that seats are completely filled;
2. An early exit policy should be formulated in the form of a Diploma;
3. The maximum duration of the program will be the same as that of an M.Tech. Program;
4. Admission criterion should clearly mention the skill set required for the applicants;
5. In addition to the standard requirements, the admission should be based on an interview process where Faculty Member(s) from relevant engineering departments or allied areas should also be involved;

	6. The project related activities should also address Cyber Security in Fintech; 7. The School must design more Elective Courses integrating Cyber Security and Fintech to be presented in the next Senate meeting; 8. There can.be Seminar Courses triggering debate about ethics in Fintech and Cyber Security; and 9. The School must initiate recruitment in this direction. The Senate authorized the Chairman, Senate on its behalf to approve the new MBA program in FinTech and Cyber Security proposed by the School of Management & Entrepreneurship (SME) after incorporating the suggestions. **Action: Head(SME)**
3.2.2	**Proposal of B.Tech. and M.Tech. Specializations from the Department of Metallurgical and Materials Engineering**
	The Head, Metallurgical and Materials Engineering presented the agenda to the Senate. The Senate approved following specializations for the M.Tech in Materials Engineering: 1. Functional Materials 2. Computational Materials Engineering 3. Structural Materials Through the choice of specializations, students can opt for M.Tech. as part of B.Tech-M.Tech 5 Year Dual Degree programme. The Senate after discussion on the matter, approved the following Dual Degrees Programmes which will be available to B.Tech. students based upon their choice of specializations in the Department of Materials and Metallurgical Engineering: 1. B. Tech. in Materials Engineering and M. Tech. in Structural Materials Engineering; 2. B. Tech. in Materials Engineering and M. Tech. in Functional Materials; and 3. B. Tech. in Materials Engineering and M. Tech. in Computational Materials Engineering. The Senate also approved corresponding specializations for the stand-alone 2-yr M.Tech. Programme of the department. The Senate in this context recommended introduction of a new M.Sc. (Chemistry)-M.Tech (in Materials Engineering with the approved specializations) Dual Degree Programme. Similarly, the present Dual Degree Programme M.Sc (Physics)–M.Tech (in Materials Engineering) will also have approved specializations. The Senate further recommended offering of specializations in Functional Materials and Computational Materials Engineering to the M.Sc-M.Tech Dual Degree Progarmmes. The Senate authorized the Chairman, Senate to approve the programmes with the suggested updates. **Action: Head, MT; Head, Chemistry; Head, Physics**

33.2.3	**Proposal for new M.S. by Research Programs**
	The Associate Dean (A-PG) presented the proposal for new M.S. by Research Programs to the Senate. The Senate discussed the proposal for new M.S. by Research in detail and approved the proposal with the proposed guidelines and rules. The Senate further considered and approved the requests to start new M.S. Programs in Center for Emerging Technologies for Sustainable Development and Rishabh Center for Research and Innovation in Clean Energy. **Action: Head (CETSD)** **AD (Academics-PG)**
33.2.4	**Proposal of new B.S. Specializations for Departments of Physics and Chemistry**
	The Heads, Departments of Physics and Chemistry presented new B.S. Specializations to be offered to B.S. Students enrolled in their respective Departments before the Senate. **1. A new specialization on Plasma Technology for B.S. Physics Students** The Senate, after detailed deliberation, recommended to include additional 3 to 4 Credits of Lab Components in B.S. Specialization in Plasma Technologies, and to rework proposed core and elective courses. The Senate also advised to offer courses related to Power Electronics for the specialization in Plasma Technologies. The specializations were approved in- principle. The detailed course contents of the courses need to be placed before the Senate in the next meeting. **2. New Specializations for B.S. Chemistry Programme** The Senate approved the following specializations for the B.S. (Chemistry) Programme: 1. Computational Chemistry 2. Spectroscopy & Analytical Methods 3. Catalysis & Synthesis In addition to the above, three specializations, the previously approved specializations on Advanced Energy Materials and Entrepreneurship will also be available to the B.S. (Chemistry) Students. The Senate further suggested including a full Course on Raman Spectroscopy as an Elective for the specialization in Spectroscopy & Analytical Methods. The Senate further suggested Head (Chemistry) to revise the proposed fourth specialization of *Green Energy* in the direction of Hydrogen and Clean Energy with inclusion of Electrode Materials, Green Hydrogen and Artificial Photosynthesis as Courses. The Senate authorized the Chairman, Senate to review and approve the proposal for the fourth specialization after incorporating the suggestions. The detailed course contents after incorporating the above suggestions may be placed before the Senate in the next meeting. **Action: Head (Chemistry) and Head (Physics)**

33.2.5	**Proposals for New Courses from the Department of Mechanical Engineering and School of Management & Entrepreneurship**

The Heads, ME and SME presented the proposal for new courses before the Senate :

SN	Particulars	Department / IDRP/School	Annexure	Senate Recommendations
1.	Proposal of a new elective courses	Mechanical Engineering	1.Measurements using Vision for Automation	The Head, Mechanical Engineering presented the proposed Course. The Senate after discussion in-principle approved the proposal and authorized the Chairman, Senate to approve the Course with respect to the state of the art, and prerequisites.
2	Proposal for Advanced Computational Lab as a compulsory course for M.Tech. Thermofluids Engineering	Mechanical Engineering	Advanced Computational Lab as a compulsory course for M.Tech. Thermofluids Engineering	The Head, Mechanical Engineering presented the proposed course. The Senate after discussion approved the Advanced Computational Lab as a compulsory course for M.Tech. Thermofluids Engineering.
3	Proposal of a new course	School of Management & Entrepreneurship	1.Multi-Sensory Experience	The Head, School of Management & Entrepreneurship presented the proposed courses. The Senate after discussion recommended revision of the course with a Lab component. The Senate also authorized the Chairman, Senate to approve the course after including the list of lab experiments and revising the Prerequisites.

Action: Head (ME) and Head (SME)

33.2.6	**Proposal for Enrolment of International Students in the Bachelor of Technology Program**

The Associate Dean (Academics-UG) presented the proposal for enrolment of International Students in the Bachelor of Technology Program. The Senate after detailed discussion recommended the following:

a) Maximum of 5 International Students (additional seats) shall be admitted per B.Tech. and B.S. Program; and
b) To be eligible for admission, an International Student would be required to qualify JEE (Advanced) with minimum valid score.

Action: AD (IRO)

33.2.7	**Proposal to schedule the Make-up Exams for the first year UG students in the fourth week of July, 2023**
	The Associate Dean (Academics-UG) presented the proposal to schedule the Make-up Exams for the first year UG students in the fourth week of July, 2023. The Senate approved the proposal. **Action: Office of Academics**
33.2.8	**Proposal for the creation of a Centre of Excellence on Intellectual Property (IP), School of Management and Entrepreneurship (SME), IIT Jodhpur**
	The Head, School of Management & Entrepreneurship presented the proposal for creation of a Centre of Excellence on Intellectual Property (IP) before the Senate. The Senate after detailed discussion approved the proposal placed at the **Annexure.** **Action: Head(SME)**
33.3	**Procedural Items**
33.3.1	**Academic Calendar for A.Y. 2023-24 Sem I**
	The Associate Dean (Academics-UG/PG) presented the Academic Calendar for A.Y. 2023-24 Sem I before the Senate. The Senate after discussion on the proposed Academic Calendar suggested modifications to the period of Mid-Semester Break and advised to complete the Major Exams by 5th December 2023. Further, the senate authorized the Chairman, Senate on its behalf to finalize the Academic Calendar for AY 2023-24 incorporating the suggestions. **Action: Office of Academics**
33.4	**Reporting, Adopting and Noting Items**
33.4.1	**Academic Recommendations of 27th ECS Meeting held on 20th February, 2023**
	The Senate accepted the academic recommendation of the 27th ECS meeting held on 20 February 2022. **Action: All Heads**

33.5	**Ratification Items**
33.5.1	**Approvals accorded by the Chairman, Senate**
	The Senate ratified the approvals accorded by the Chairman Senate.
33.6	**Any other Item with the prior permission of the Chairman**
33.6.1	Nil

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

12/III/2023

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

(Prof. Santanu Chaudhury)
Director & Chairman, Senate

Centre of Excellence on Intellectual Property
School of Management and Entrepreneurship, IIT Jodhpur

Introduction

IIT Jodhpur has evolved into a multidisciplinary institution with departments spanning sciences, mathematics, technologies, liberal arts, and management & entrepreneurship. Excellence in inclusive education with the urge to inculcate the spirit of Innovations, Entrepreneurship, and Socio-economic Development has been the focus at IIT Jodhpur. Recognizing the relevance of responsible use of Intellectual Property Rights (IPR) as integral to its innovation value chain, IIT Jodhpur has formulated and is actively implementing its institutional IPR policy.

The structured discovery and innovation activities over the last few years have brought to light the need for a Centre of Excellence (CoE) on Intellectual Property in IIT Jodhpur. The faculty and staff members of the centre are expected to be engaged in :

(A) Teaching and research on different aspects of intellectual property
(B) Comprehensively planning, strategize and manage IPs of IIT Jodhpur
(C) Participate in Outreach activities for IP awareness and IP facilitation

The proposed Centre of Excellence on IP will be part of the School of Management & Entrepreneurship (SME).

The CoE will function as a focal point for the exploration of avenues for inter-institutional synergistic collaborations in human resource and capacity building programmes to enhance the value of the combined creative potential and output of these institutions. Further, the CoE would also serve as a continual learning group not only to identify the current and emerging unmet national and regional needs to be addressed but also to research on the impact of evolving technologies and socio-economic frameworks to plan and flag off what lies ahead. The core focus would lie on issues about IP management, viz., patent search, patent technologies, patent analysis, patent landscaping, and commercialization. The CoE would indulge in academic and applied research in the area of IPR.

Vision of CoE

- To be the coveted destination for education and research on IP and related areas;
- To be the leading centre for IP generation, IP Portfolio construction and IP exploitation;
- To be the prime mover for creating IP strategy for start-ups and innovators.

Mission of CoE:

1. Offer foundational and advanced courses on different aspects of IP and IP use
2. Creating relevant Doctoral and Post-Doctoral programs
3. Design and offer short term certificate/diploma/training programs
4. Set up an enabling ecosystem for IP identification and filing at IIT Jodhpur
5. Explore opportunities for IP exploitation
6. Strategizing IP hedging, IP portfolio generation, etc. for managing innovations originating from the institute and its associate section-8 companies
7. Extending IP services to TISC and start-up's incubated at TISC
8. Consultancy and facilitation services for industry and other institutes/agencies
9. Promotion of a culture of IP generation and IP commercialization

The CoE would run an IP facilitation Centre which may include human resources from other organisations, supported by JCKIF to provide help and assistance to regional industries, art and craft on IP issues, and Geographical Indications.

Human resources for the Centre:

1. **Faculty:** Young faculty associate, Assistant professors, Associate professors, Professors, Professor-of-Practice, Adjunct Professor, Adjunct Professor of Practice, Affiliate Faculty from IITJ.

2. **Research Staff**

   a. Scientific officers
   b. Research associates/assistants
   c. Patent agents