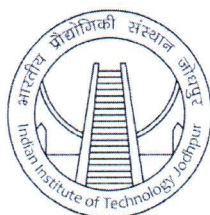# Indian Institute of Technology Jodhpur
Senate

Minutes of
15th Meeting

29 October 2018 (Monday)
15:30 – 20:30 Hours
Board Room, IIT Jodhpur

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Indian Institute of Technology Jodhpur
Senate

Minutes of 15th Meeting
29th October 2018 (Monday)
15:30 – 20:30 Hours
Board Room, IIT Jodhpur

The following were present:

1	C. V. R. Murty, Director, IIT Jodhpur	Chairman
2	H. P. Khincha, Chairman, Karnataka State Innovation Council, Bangalore	Member
3	Sanjeev Misra, Director, AIIMS, Jodhpur	Member
4	Sampat Raj Vadera, Professor and Head (PH)	Member
5	B. P. Kashyap, Professor In-charge (MT)	Member
6	Anil K. Tiwari, Head (EE)	Member
7	Gaurav Bhatnagar, Head (MA)	Member
8	Gaurav Harit, Head (CSE)	Member
9	Kaushal A. Desai, Head (ME)	Member
10	Ritu Gupta, Head (CY)	Member
11	Vidya Sarveswaran, Head (HS)	Member
12	Suril V. Shah, Associate Dean (Academics – UG Programs)	Invitee
13	Rakesh K. Sharma, Associate Dean (R&D)	Invitee
14	Samanwita Pal, Associate Dean (Students)	Invitee
15	Ankita Sharma, Chairperson, Student Counseling Services Committee	Invitee
16	Kirankumar R. Hiremath, Chairman, Library Committee	Invitee
17	Puneet Sharma, Chairman, Student Hostel Wardens Committee	Invitee
18	Anugrah Shukla, General Secretary, Students Gymkhana (SG)	Invitee
19	Rishabh Kanabar, Secretary, Students Academics & Careers Society, SG	Invitee

The following could not attend the meeting:

1	Pratap Bhanu Mehta, Vice Chancellor, Ashoka University, Sonipat	Member
2	Madhu Dikshit, Professor In-charge (BB)	Member
3	C. Venkatesan, Visiting Professor (ME)	Member
4	Somnath Gosh, Associate Dean (Academics – PG Programs)	Invitee

The following are the outcomes of the Senate Meeting:
Part A: Open Door Meeting

S.No.	Items
15.1	**Welcome by the Chairman**
	The Chairman welcomed all Members and Invitees to the *15th Meeting* of the Senate, especially Professor H. P. Khincha and Professor Sanjeev Misra. He informed the Senate that *Somnath Ghosh*, Assistant Professor (PH), was appointed as *Associate Dean (Academics – PG Programs)*, whereas Suril V. Shah, former *Associate Dean (Academics)* was assigned the charge of *Associate Dean (Academics – UG Programs)*. The Chairman briefed the Senate about admissions in August 2018 to the post-graduate programs. He informed the Senate of the shortfall in the final admissions at the Institute from the expected 1,080 seats to filled 962 seats, and that the vacant seats were many in the PG Programs. He requested the respective Heads of the Departments to introspect on the matter, analyse the shortcomings and suggest suitable measures to improve the admissions next time. He requested the *Associate Dean (Academics – PG Programs)* to submit a detailed proposal to AC by 15 December 2018, and thereafter table a formal Agenda Item before the Senate for discussion in the next meeting. Further, he briefed Members on the Agenda Items of the Meeting.

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15.1.1	**Confirmation of Minutes of the _14th Meeting_ of the Senate held on 21 July 2018**
	The Senate confirmed the Minutes of the 14th Meeting of the Senate, as circulated.
15.1.2	**Report on Action Taken on decisions of the 14th Meeting of the Senate held on 21st July 2018**
	The Senate noted the Action Taken Report.

15.2	**Discussion Items**
15.2.1	**Proposal for starting B.Tech.(MT) Program**
	The Senate discussed the details of the proposal. The Senate suggested to the Department of Metallurgical and Materials Engineering to: (1) Revisit the contents of three courses, namely _Engineering Materials_, _Physics of Materials_ and _Mechanical Behavior of Materials_, and minimize overlap in them; (2) Present a timeline for development of the required Laboratories for running of the compulsory courses to be offered by the department; (3) Identify industries, which can be prospective collaborators for industry immersion of Faculty Members and Students; With these suggestions, the Senate admitted the proposal _in-principle_ to: (1) Start _Bachelor of Technology (Materials and Metallurgical Engineering) Program_ from Academic Year 2019-20 Semester I with 30 students; and (2) Inform the JEE System of the starting of this new Program at IIT Jodhpur. And, the Senate sought that the final proposal be tabled at the next meeting with the changes incorporated as suggested, after due discussion in the AC. While discussing the above agenda, the Senate discussed some critical items that are common to all B.Tech. Programs. The Senate asked the Academic Committee to table a detailed agenda item in the next meeting that is applicable to all B.Tech. Programs, that includes: (1) Propose the same set of courses in the first year in all B.Tech. Programs to aid unbiased branch change; (2) Propose norms for the 5 semesters of B.Tech. Project courses, including well-defined procedure for allocation of Supervisors and evaluation of the performance of students in these courses; (3) Teach courses of Mathematics in 4 semesters instead of in 3 as of now; (4) Identify common courses across all relevant Departments, including the course on Engineering Drawing, and prepare a roster for teaching the same; and (5) Harmonise the Time Table such that the shortage of space in laboratories can be overcome by suitable scheduling.
15.2.2	**Proposal from the Department of Mechanical Engineering for revising curriculum of M.Tech. (ME) Program**
	The Senate admitted the proposal of revised Curriculum of M.Tech. (ME) Program with a view that the revised curriculum with specializations in _Thermal Sciences_, _Solid Mechanics and Design_, and _Manufacturing Sciences_. Also, the course _ME5XX Engineering Optimization_ in this revised curriculum will be offered by the _Department of Mathematics_. The revised curriculum will be implemented from Academic Year 2019-20 Semester I. While discussing the above agenda, the Senate discussed a critical item that is common to all Masters Programs, namely a common course on _Engineering Mathematics_. The Senate asked the Academic Committee to table a detailed agenda item in the next meeting that is common to all M.Tech. and M.Sc. Programs, as applicable.
15.2.3	**Proposal for revising Elective Courses from the Department of Mechanical Engineering**
	The Senate admitted the proposal to revise the contents of two Elective courses, namely _ME671 Robotics_ and _ME617 Computer Aided Manufacturing_, offered by the Department of Mechanical Engineering.

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	While discussing the above agenda, the Senate discussed a general item of the timeline for revision of list and contents of compulsory courses. It suggested the following timeline for detailed external review and change: (1) B.Tech. Programs or their courses : after every 4 years, and (2) M.Sc. and M.Tech. Programs or their courses : after every 2 years.
15.2.4	**Proposals for offering New Elective Courses**

	The Senate examined the proposals for the new elective courses. It suggested that the course contents be examined from the following standpoints:
	(1) Course Number to be pegged based on the level of the course (500, 600 or 700 level); and
	(2) Pre-requisite should not have a course number or consent of teacher, but have only the requirement of prior broad subject knowledge during the earlier degree Program, in case of students registered in the Masters and Doctoral Programs.
	
	The Senate approved the following courses with the said changes:
	(1) EE6XX Detection and Estimation Theory;
	(2) PH7XX Physics of Solar Cells;
	(3) PH7XX The Mössbauer Spectroscopy
	    :: Level of the course may be revisited to include Masters students;
	(4) PH7XX Computational Condensed Matter Physics
	    :: List of textbooks should include those on computation aspects; and
	(5) ME6XX Systems Modeling and Control
	    :: Title should be changed to "Modelling and Control of Mechanical Systems"
	    :: List of textbooks should include those on control of mechanical systems.
	And, the Senate suggested AC to re-examine the following courses and present revised proposals of the same at the next meeting:
	(1) EE6XX Optoelectronics
	    :: Contents of the course are at a level lower than the proposed number.
	    :: Advanced topics need to be included.
	    :: Laboratory experiments may be considered as part of the course.
	(2) ME6XX State Space Mechanics
	    :: Objectives be re-examined
	    :: Title of the course needs to be firmed up "Mechanics" or "Methods"
	    :: Remove overlap of contents with those "Systems Modeling and Control"
	(3) ME6XX Theory of Vibrations
	    :: Course contents need to be revised to elaborate the main topics
	    :: Course contents need to be presented in the requisite format
	(4) ME5XX Mechanical Vibrations
	    :: Course contents need to be revised to elaborate the main topics
	    :: Course contents need to be presented in the requisite format
	(5) ME6XX Helicopter Dynamics
	    :: Course contents need to be revised to elaborate the main topics
	    :: Course contents need to be presented in the requisite format
	
	The Senate authorized the Chairman, Senate, to approve the revised proposals for elective courses that are scheduled to be offered in the next semester (Academic Year 2018-19 II Semester), if any.

15.3	**Reporting, Adopting and Noting Items**
15.3.1	**Academic Calendar of Calendar Year 2019 (*i.e.,* of Academic Year 2018-19 Semester II, Summer Term and Academic Year 2019-20 Semester I)**
	The Senate noted and admitted the *Academic Calendar* for *CALENDAR Year 2019* with the following changes: (1) Item at S.No.30, *Last Date of Submission of Grades* be written as *Last Date of Submission of Grades for Courses, Thesis and Projects*; (2) Items at S.Nos. 9, 14, 24 and 26 be dropped from the list and added as *Notes* to the Academic Calendar. (3) Item S.No.32 be dropped, as no moderation is permitted as per Regulations.

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While discussing the above agenda, the Senate discussed the following important items and suggested the actions as below:

(1) Dates of submission of M.Sc. and M.Tech. Theses and their evaluation need to be stated more explicitly. The *Associate Dean (Academics – PG Programs)* was asked to submit a detailed proposal in the next meeting after due deliberation in the AC; and

(2) The Chairman, Senate, may constitute an *Academic Equivalence Committee*, to examine:
   (a) significant overlap between courses (new or old),
   (b) pre-requisites needed for higher level elective courses, and
   (c) equivalence of courses and credits of students registered in Programs at other Institutes/Universities.

15.4	**Ratification Items**
15.4.1	**Approvals accorded by Chairman, Senate**
	The Senate ratified the approvals accorded by the Senate, Chairman.

15.5	**Any other Item with the prior permission of the Chairman**
	None

The Meeting ended with thanks to Chairman and all Members.

Approved

Chairman, Senate, IIT Jodhpur