

बारहवीं सिनेट बैठक का कार्यवृत्त

**MINUTES OF THE 12<sup>th</sup> SENATE MEETING OF  
IIT MANDI**

2<sup>nd</sup> March, 2017



**भारतीय प्रौद्योगिकी संस्थान मण्डी**

**कमांद- 175005, हिमाचल प्रदेश**

**Indian Institute of Technology Mandi**

**Kamand – 175005, Himachal Pradesh**

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**12<sup>th</sup> SENATE MEETING OF IIT MANDI**

**2<sup>nd</sup> March, 2017**

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## INDIAN INSTITUTE OF TECHNOLOGY MANDI

Minutes of the 12<sup>th</sup> Senate Meeting of IIT Mandi held on 2<sup>nd</sup> March, 2017 at A1 NKN Room, Kamand Campus of IIT Mandi at Kamand.

The following members were present:

### In the Chair

Prof. Timothy A. Gonsalves, Director, IIT Mandi

### Members:

Prof. B.D.Chaudhary, Dean (Academics) & Emeritus Professor, SCEE, IIT Mandi

Prof. Ramesh Oruganti, Emeritus Professor, SCEE, IIT Mandi

Prof. Deepak Khemani, Visiting Faculty, SCEE, IIT Mandi

Prof. B. Subramanian, Visiting Professor, SHSS, IIT Mandi

Prof. Bhavender Paul Sharma, Adjunct Professor, SHSS, IIT Mandi

Prof. Rowena Robinson, Professor, Dept. of HSS, IIT Bombay

Dr. Prem Felix Siril, Dean (SRIC) , IIT Mandi

Dr. Bharat Singh Rajpurohit, Dean (Faculty), IIT Mandi

Dr. Suman Kalyan Pal, Dean (Students), IIT Mandi

Dr. A. K. Sao, Chairperson, SCEE, IIT Mandi

Dr. Prasanth P. Jose, Chairperson, SE, IIT Mandi

Dr. Rajeshwari Dutt, Chairperson, SHSS, IIT Mandi

Dr. Venkata Krishnan, Co-ordinator, AMRC & Associate Dean (Research), IIT Mandi

Dr. Tulika P. Srivastava, Co-ordinator, BioX & Associate Dean(Recruitment), IIT Mandi

Dr. Pradeep Parameswaran, Associate Dean (Course), IIT Mandi

Dr. Samar Agnihotri, Associate Dean (SRIC), IIT Mandi

Dr. Astrid Kiehn, Chair, Library Advisory Committee (LAC), IIT Mandi

Mr. Naresh Singh Bhandari, Deputy Librarian, IIT Mandi (in absence of Librarian)

Dr. Dhiraj V. Patil, CIG- ME, IIT Mandi

Dr. Viswanath Balakrishnan, Assistant Professor, SE, IIT Mandi

Dr. Kaustav Sarkar, Assistant Professor, SE, IIT Mandi

Dr. Manoj Thakur, Assistant Professor, SBS, IIT Mandi

Dr. Shyam Kumar Masakapalli, Assistant Professor, SBS, IIT Mandi

Dr. Devika Sethi, Assistant Professor, SHSS, IIT Mandi

Dr. Suman Sigroha, Assistant Professor, SHSS, IIT Mandi

Mr. Ajay, Student Research Affairs Secretary, IIT Mandi

Mr. Ravi Kumar, Student General Secretary, IIT Mandi

Mr. Paawan Mukker, Student Academic Affairs Secretary, IIT Mandi

Dr. Vishal Singh Chauhan, In-charge Dean(F&A), Associate Dean(F&A), Registrar & Secretary, IIT Mandi

### Special Invitees:

Dr. Bringi Dev, IIM Bangalore

Dr. Kailash N. Srivastava, IIT Mandi

**Following senate members could not attend the meeting:**

Prof. Kenneth E. Gonsalves, Distinguished Visiting Professor, SBS, IIT Mandi

Prof. Subrata Ray, Distinguished Visiting Professor, SE, IIT Mandi

Prof. Sunil R. Kale, Professor, Department of Mechanical Engineering, IIT Delhi

Prof. N. Sathyamurthy, Director, IISER Mohali

Dr. Rajeev Kumar, Chairperson, SBS, IIT Mandi

Dr. Satinder K. Sharma, Co-ordinator , C4FED, IIT Mandi

Dr. Subrata Ghosh, Dean (I&S), IIT Mandi

Dr. Varun Dutt, Associate Dean (International Relations) & Chief Warden, IIT Mandi

Dr. Arnab Bhavsar Vinayak, SAP Advisor, IIT Mandi

Dr. Dileep A. D., CIG- CSE, IIT Mandi

Dr. Deepak Swami, CIG- CE, IIT Mandi

Dr. Rahul Vaish, Associate Professor, SE, IIT Mandi

**In addition, the Senate meeting was also attended by the following faculty/staff members of IIT Mandi:-**

Dr. Chayan Kanti Nandi, Chair CPC & Associate Professor, SBS

Dr. Shail Shankar, Assistant Professor, SHSS

Dr. Surya Prakash Upadhyay, Assistant Professor, SHSS

Dr. Bhakti Madhav Joshi, Assistant Professor, SCEE

Dr. Ashok Kumar Mocherla, Assistant Professor, SHSS

Dr. Rajendra Kumar Ray, Assistant Professor, SBS

Dr. Mohammad Talha, Assistant Professor, SE

Dr. Aruna Bommareddi, Assistant Professor, SHSS

Dr. Shyamasree Dasgupta, Assistant Professor, SHSS

Dr. Renu M. Rameshan, Assistant Professor, SCEE

Dr. Srikant Srinivasan, Assistant Professor, SCEE

Dr. Siddhartha Sarma, Assistant Professor, SCEE

Dr. Tripti Singh, Media Design Fellow, SHSS

Dr. Sriram Kailasam, Assistant Professor, SCEE

Dr. Narsa Reddy Tummuru, Assistant Professor, SCEE

Dr. Gaurav Bhutani, Assistant Professor, SE

Dr. Gopi Shrikanth Reddy, Assistant Professor, SCEE

Dr. Shubhajit Roy Chowdhury, Assistant Professor, SCEE

Dr. Hari Verma, I-Ph.D. Coordinator & Assistant Professor, SBS

Dr. Pradeep Kumar, Assistant Professor, SE

Dr. Satyajitsinh A. Thakor, Assistant Professor, SCEE

Dr. Muslim Malik, Assistant Professor, SBS

Dr. Sandip Kumar Saha, Assistant Professor, SE

Shri Vivek Tiwari, Assistant Registrar(Academics)

The Chairman welcomed Prof. Rowena Robinson, Department of Humanities and Social Sciences, IIT Bombay, member of the Senate and all other members of the revised Senate and faculty for attending the 12<sup>th</sup> Senate meeting. He informed the Senate that two other external members; Prof. N. Sathyamurthy, Director, IISER

Mohali and Prof. Sunil R. Kale, Professor, Department of Mechanical Engineering, IIT Delhi have also included in the new Senate as external members. He informed the Senate about the accidental drowning of one of the 1<sup>st</sup> year students (Mr. Deep Prakash Singh, Roll. No. B16053) on 16<sup>th</sup> February 2017. The Senate observed one minute silence to condole the death of the student.

The Chairman informed the members about the goals set by the Institute for the year 2017. The goals include;

- a) increase in student enrollment to 1000.
- b) starting of at least 3 new Master programs.
- c) 10 international faculty and 50 international students in the Campus.
- d) more Ph.D students attending conferences abroad.
- e) one major international conference to be hosted by the Institute.
- f) Rs.30 crore external funded research project grant, out of which Rs.10 crore from industries.
- g) 5 new start-ups, out of which 2 with rural focus.
- h) 5 interactions with Himachal Pradesh Government.
- i) completion of the Office Automation process, and;
- j) ensuring predictable services at the Institute. All the faculty and staff were urged by the Chair to try to achieve these goals in the current year.

Further, the Chairman briefed the Senate about the appointment of Shri Subodh Bhargava, Chairman of Tata Communications Ltd., as the Chairperson, Board of Governors of the Institute and shared the decisions taken in last BoG meeting held on 27<sup>th</sup> February, 2017 at IIT Delhi. This included the approval of the proposal for a new Campus School with the brand Mind Tree. The Chairman also informed the Senate about setting up of Higher Education Funding Agency (HEFA) by the Govt. of India, its purpose and responsibilities. The Chairperson, BoG had also offered to help in getting top industrialist as Chief Guest for the 5<sup>th</sup> Convocation function of the Institute. The following names came up in BoG meeting as potential Chief Guest;

- a) Smt. Kiran Mazumdar-Shaw  
CMD  
Biocon Limited, Bangalore (Bengaluru), India  
& the Chairperson of IIM-Bangalore.
- b) Shri Banmali Agrawala  
President & CEO  
GE South Asia.
- c) Shri Rahul Bajaj  
Chairman of Bajaj Group & Member of Parliament.  
Pune, Maharashtra, India
- d) Shri Sunil Bharti Mittal  
Founder & Chairman Bharti Enterprises  
New Delhi, India

The Chairman requested the Senate members to give their suggestions in this regard. In addition, the BoG also suggested to explore the option for honoring an

eminent person during the convocation who has made significant technological contributions relevant to the Himalayan region.

Then the agenda items were taken up.

**Item No. 12.1: To confirm the minutes of the 11<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2016.**

The Senate confirmed the minutes of its 11<sup>th</sup> meeting held on 7<sup>th</sup> October, 2016.

**Item No. 12.2: To receive a Report on the actions taken to implement the decisions of the 11<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2016.**

The Senate noted the action taken on its earlier decisions.

**Item No. 12.3: To consider the recommendations of the Board of Academics for new M.Sc. and M.Tech Programmes.**

The Senate considered the following proposals:

(a) New M.Sc. programme:

(i) M.Sc. in Physics enclosed as **Annexure-1; Page No. 1 to 7.**

(b) New M.Tech. Programmes:

(i) M.Tech. in Communications and Signal Processing enclosed as **Annexure-2; Page No. 8 to 13.**

(ii) M.Tech in Power Electronics and Drives enclosed as **Annexure-3; Page No. 14 to 32.**

After detailed deliberations, the Senate approved the proposals to start these new programmes from the Academic Year 2017-18.

**Item No. 12.4: To consider new courses recommended by the Course Proposal Committee and Board of Academics (BoA):**

➤ The Chairperson, CPC presented 22 course proposals for the approval of the Senate

S. No.	Course No.	Course Title	Credits L-T-P-C	School
1.	CS507	Advanced Computer Architecture	3-0-0-3	SCEE
2.	CS522	Distributed Algorithms	3-0-0-3	SCEE
3.	CS592	Selected Topics in Artificial Intelligence: Constraint Satisfaction Problems	2-0-0-2	SCEE

4.	CS661	Knowledge Representation and Reasoning	3-0-0-3	SCEE
5.	CS671	Deep Learning and Applications	3-1-0-4	SCEE
6.	EE208P	Digital Systems Design Practicum	1-0-2-2	SCEE
7.	EE301	Control Systems	2.5-0.5-0-3	SCEE
8.	EE301P	Control Systems Laboratory	0-0-2-1	SCEE
9.	HS107	Exploring Creative Art Forms	1-0-0-1	SHSS
10.	HS331	Role of Aesthetics in Design	1-0-4-3	SHSS
11.	HS393	Technology through History: 1400 to the present	3-0-0-3	SHSS
12.	CS549	Computer Networks Analysis	3-0-0-3	SCEE
13.	CS592	Selected Topics in Algorithms	0-0-4-2	SCEE
14.	ME 617	Mechanics of Composite Materials	3-0-0-3	SE
15.	EE507	Transmission Lines and Basic Microwave Engineering	3-1-0-4	SCEE
16.	EE621	Radiating systems	3-1-0-4	SCEE
17.	HS541	Technical Communication	1-0-0-1	SHSS

The Senate considered the course proposals and the recommendations of the CPC. After deliberations, the Senate approved the above course proposals with suggested changes. The approved courses are enclosed as **Annexure – 4; Page No. 33 to 64.**

- The Senate approved the modifications in the following courses:

S. No.	Course No.	Course Title	Credits L-T-P-C	School
1.	CS202	<b>Old Title:</b> Advanced Data Structures and Algorithms <b>New Title:</b> Data Structures and Algorithms	3-0-2-4	SCEE
2.	CS302	Paradigms of Programming	<b>Old:</b> 0-0-2-2 <b>New:</b> 3-0-2-4	SCEE
3.	CS310	Introduction to Communicating and Distributed Processes	<b>Old:</b> 3-0-0-3 <b>New:</b> 3-0-2-4	SCEE

- CS202 will be considered as Data Structures and Algorithms from Feb-June 2017 Semester onwards.
- Due to typographical error, wrong credit structures for CS302 and CS310 were accepted in 9<sup>th</sup> Senate. The change in credit structure is w.e.f. Odd Semester (Aug-Dec) 2016.

- The Senate deferred the approval of the following courses as many members raised various concerns about these course proposals:

S. No.	Course No.	Course Title	Credits L-T-P-C	School
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1.	CE602	Programming in Finite Element Method	2.5-0-1-3	SE
2.	CE603	Theory of Elasticity	3-0-0-3	SE
3.	CE553	Introduction to Earthquake Engineering 604	3-0-0-3	SE
4.	CE605	Theory of Plasticity	3-0-0-3	SE
5.	CE554	Prestressed concrete structures	2-1-0-3	SE

**Item No. 12.5: Additional agenda item with the permission of the Chair**

▪ **To consider seats for the Academic Year 2017-18**

The Senate approved the following upper limits on intake. The actual intake for each year will be decided within these limits based on administrative considerations.

Programme	Existing Intake	Total Intake
B.Tech. (Civil Engineering)	30	60
B.Tech. (Computer Science & Engineering)	40	60
B.Tech. (Electrical Engineering)	40	60
B.Tech. (Mechanical Engineering)	40	60
M.Sc. (Chemistry)	30	30
M.Sc. (Mathematics)	12	30
M.Sc.(Physics)	New Programme	30
M.Tech. (Energy Engineering (Materials))	12	30
M.Tech. (Mechanical Engineering (Energy Systems))	12	30
M.Tech. (BioTechnology)	12	30
M.Tech. (Electrical Engineering -VLSI)	12	30
M.Tech (Communications and Signal Processing)	New Programme	30
M.Tech (Power Electronics and Drives)	New Programme	30
I-Ph.D. (Physics)	12	20
M.S. (by Research)	As per the institute norms on faculty cap and requirements	
Ph.D. Programme		

**Item No. 12.6: To report decisions / action taken by the Chairman, Senate**

The Senate noted the decisions with thanks to Chairman, Senate for timely decisions and approvals.

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



**Chairman, Senate**



**Dr. Vishal Singh Chauhan  
Registrar I/c & Secretary, Senate**