पंद्रहवी सिनेट बैठक का कार्यवृत्त

MINUTES OF THE 15th SENATE MEETING OF IIT MANDI

19th February, 2018

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

15th SENATE MEETING OF IIT MANDI

19th February, 2018

Items

INDIAN INSTITUTE OF TECHNOLOGY MANDI

Minutes of the 15th Senate Meeting of IIT Mandi held on 19th February, 2018 in 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, Dean(Faculty) & Professor (on deputation), SCEE, IIT Mandi
Prof. Rowena Robinson, Dept. of HSS, IIT Bombay (Attended the meeting through NKN)
Dr. Subrata Ghosh, Dean (I&S), IIT Mandi
Dr. Suman Kalyan Pal, Dean (Students), IIT Mandi
Dr. Vishal Singh Chauhan, Dean(F&A) I/c /Associate Dean(F&A), IIT Mandi
Dr. Bharat Singh Rajpurohit, Chairperson, SCEE, IIT Mandi
Dr. Syed Abbas, Chairperson, SBS, IIT Mandi
Dr. Rajeshwari Dutt, Chairperson, SHSS, IIT Mandi
Dr. Venkata Krishnan, 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. Varun Dutt, Associate Dean (International Relations), 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. C. S. Yadav, Chief Warden, IIT Mandi
Dr. Satinder K. Sharma, Co-ordinator , C4FED, IIT Mandi
Dr. Rajendra Kumar Ray, SAP Advisor, IIT Mandi
Dr. Dileep A. D., CIG- CSE, IIT Mandi
Dr. Arpan Gupta, CIG- ME, IIT Mandi
Dr. Deepak Swami, CIG- CE, IIT Mandi
Dr. Rahul Vaish, Associate Professor, SE, IIT Mandi
Dr. Kaustav Sarkar, Assistant Professor, SE, IIT Mandi
Dr. Manoj Thakur, Assistant Professor, SBS, IIT Mandi
Dr. Devika Sethi, Assistant Professor, SHSS, IIT Mandi
Dr. Suman Sigroha, Assistant Professor, SHSS, IIT Mandi
* Ms. Manushree, Student Research Affairs Secretary, IIT Mandi
* Mr. Rakhde Anurag Keshav, Student General Secretary, IIT Mandi
Dr. Vishal Singh Chauhan, Registrar I/c & Secretary, Senate, IIT Mandi

Special Invitees:
Dr. Chayan Kanti Nandi, Chair CPC, IIT Mandi
Dr. Hari Verma, Coordinator CIG-I-PhD (Physics), IIT Mandi
Dr. Aniruddha Chakraborty, Coordinator CIG-M.Sc. (Chemistry), IIT Mandi

Following Senate members/Special Invitees could not attend the meeting due to prior commitments:
Prof. Kenneth E. Gonsalves, Distinguished Visiting Professor, SBS, IIT Mandi
Prof. Subrata Ray, Distinguished Visiting Professor, SE, IIT Mandi
Prof. Bhavender Paul Sharma, Adjunct Professor, SHSS, IIT Mandi
Prof. Sunil R. Kale, Professor, Department of Mechanical Engineering, IIT Delhi
Prof. N. Sathyamurthy, Former Director, IISER Mohali
Dr. Prem Felix Siril, Dean (SRIC), IIT Mandi
Dr. Rajeev Kumar, Chairperson, SE, IIT Mandi
Dr. Viswanath Balakrishnan, Coordinator, AMRC & Asstt. Professor, SE, IIT Mandi
Dr. Shyam Kumar Masakapalli, Assistant Professor, SBS, IIT Mandi
Mr. J. Raghunath, Student Academic Affairs Secretary, IIT Mandi
Dr. A. K. Sao, Coordinator CIG- M.Tech. Comm. & Signal Processing, IIT Mandi
Dr. Atul Dhar, Coordinator CIG – M.Tech. (Energy Engineering), IIT Mandi
Dr. Jaspreet Kaur Randhawa, Coordinator CIG- M.Tech. (Energy Materials), IIT Mandi

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

Dr. Srikant Srinivasan, Assistant Professor, SCEE
Dr. Shubhjit Roy Chowdhury, Assistant Professor, SCEE
Dr. Hiteshbhai Kantilal Shrimali, Assistant Professor, SCEE
Dr. Tushar Jain, Assistant Professor, SCEE
Dr. Sriram Kailasam, Assistant Professor, SCEE
Dr. Shyamasree Dasgupta, Assistant Professor, SHSS
Dr. Bhakti Madav Joshi, Assistant Professor, SCEE
Dr. Renu M. Rameshan, Assistant Professor, SCEE
Dr. Maheshreddy Gade, Assistant Professor, SE
Dr. Mausumi Mokherjee, Assistant Professor, SE
Dr. Sandeep Kumar Saha, Assistant Professor, SE
Dr. Rajneesh Sharma, Assistant Professor, SE
Dr. Subhamoy Sen, Assistant Professor, SE
Dr. Kasiviswanathan K. S., Assistant Professor, SE
Dr. Narsa Reddy, Assistant Professor, SCEE
Shri Suresh Rohilla, Assistant Registrar (Academics)

The Chairman Senate extended a warm welcome to all the Senate members and Special Invitees for attending the 15th Senate meeting of the Institute with special thanks to Prof. Rowena Robinson, Department of Humanities and Social Sciences,

IIT Bombay, member of the Senate for sparing her time in a very busy schedule. He appreciated her regular presence and contribution for the Senate meeting.

Then the agenda items were taken up.

Item No. 15.1: **To confirm the minutes of the 14th Senate meeting held on 4th October, 2017.**

The Senate confirmed the minutes of its 14th meeting held on 4th October, 2017.

Item No. 15.2: **To receive a Report on the actions taken to implement the decisions of the 14th Senate meeting held on 4th October, 2017.**

The Senate noted the action taken on implementation of decisions taken in its 14th meeting held on 4th October, 2017.

Item No. 15.3: **To consider the approval for courses recommended by the Course Proposal Committee (CPC) and Board of Academics (BoA) of the Institute**

The Board of Academics, in its 19th and 20th meetings held on 16.11.2017 and 01.12.2017 recommended the following seventeen courses for approval of the Senate. The Chairperson, CPC presented these course proposals for the approval of the Senate.

The Senate considered/deliberated the recommended proposals of the CPC in detail and approved all seventeen courses. Some specific suggestions/comments were given for certain courses to modify the proposals. The Senate suggested that the final proposals after incorporating the suggested changes should be signed by the Course proposer as well as the CPC Chair for records.

Sl. No.	Course No.	Course Name	Credits	Proposed by	School
1	CE 402	Geotechnical Engineering II	2-1-0-3	Dr. Kala Venkata Uday	SE
2	CE 509	Bridge Engineering	3-0-0-3	Dr. Sandip Kumar Saha	SE
3	CE 511	Structural Dynamics with Application to Earthquake Engineering	3-0-0-3	Dr. Sandip Kumar Saha	SE

4	CE 554	Prestressed Concrete Structures	3-0-0-3	Dr. Rajneesh Sharma	SE
5	CE 605	Engineering Seismology and Seismic Hazard Assessment	3-0-0-3	Dr. Maheshreddy Gade	SE
6	CE 606	Constitutive Modeling of Frictional Material	3-0-0-3	Dr. Mousumi Mukherjee	SE
7	CS 541P	IoT Systems and the Cloud	1-0-3-3	Dr. Srikant Srinivasan and Dr. Sriram Kailasam	SCEE
8	CY670	Fluorescence Spectroscopy, Microscopy and Applications	3-0-0-3	Dr.Chayan K Nandi	SBS
9	EE 530	Optimization Theory	3-0-0-3	Dr. Renu Rameshan and Dr. Samar Agnihotri	SCEE
10	EE 532P	Supervised Research Exposure	0-0-4-2	Dr. Renu Rameshan	SCEE
11	EE 623P	Practicum on Digital Control of Electric Drives	1-0-3-3	Dr. Narsa Reddy	SCEE
12	EE531	Estimation and Detection Theory	3-0-0-3	Dr. Samar Agnihotri	SCEE
13	HS 252	Introduction to Psychology	3-0-0-3	Dr. Shail Shankar	SHSS
14	HS550P	Statistical Methods (Practical)	0-0-2-1	Dr. Shyamasree Dasgupta	SHSS
15	ME 355	Internal Combustion Engines	3-0-0-3	Dr. Atul Dhar	SE
16	CE 510	Modelling and Simulation in Water Resources Engineering	2-0-2-3	Dr. KS Kasiviswanathan	SE
17	MA 525	Heuristic Optimization	3-0-0-3	Dr. Manoj Thakur	SBS

The revised version of the proposals after incorporating the suggested changes are given in **Annexure – A; Page No. 8 to 59**.

Item No. 15.4: **To consider a change in the course curriculum in M.Tech. programme in Electrical Engineering with specialization in VLSI.**

On the recommendations of the Board of Academics, the Senate considered the proposal presented for changes in courses curriculum for M. Tech. programme in Electrical Engineering with specialization in VLSI. In the present structure, Electrical Engineering core has 12 Credits and contains the following 04 Courses:

- EE 520: Microelectronic Devices and Modeling (3 Credits)

- EE 620: Advanced Digital Signal Processing (3 Credits)

- CS 507: Advanced Computer Architectures (3 Credits)

- ME 504: Numerical Methods for Engineering Computation (3 Credits)

It was proposed to shift CS-507 (Computer Architectures) from EE Core to VLSI specialization Elective. In place of this, EE 529: Embedded Systems (4 Credits) is brought from VLSI specialization elective to be part of EE Core. This change is made to strengthen the VLSI component which is based on 'RISC Architecture'. This will also change the number of EE core course credits from 12 to 13 and correspondingly the VLSI specialization elective credits will change from 13 to 12-13 so that the total numbers of credits for this programme are 71-72.

The Senate approved the proposal. While approving the proposal, Senate noted that the Senate meeting held on 04th Oct 2017 (14th Senate) had approved a proposal for changing the course title and credit pattern of CS507 as follows:

CS507: Computer Architecture (4 Credits)

After interchanging CS507 with EE529, as approved by the Senate, the revised curriculum structure is as follows:

Curriculum Structure:		
Sr. No.	Curriculum structure details	Credits
1	Electrical Engineering Cores	13
2	VLSI Specialization Cores	11
3	VLSI Specialization Electives	12-13
4	Electives outside specialization	6
5	Technical Communication	1
6	M. Tech. dissertation	28
7	**Total No. of Credits**	71-72

The modified course proposal is enclosed as **Annexure – 'B'; Page No. 60 to 62.**

Item No. 15.5:   **To consider the Conversion of 'B. Tech. to Dual M. Tech.' and 'M. Tech. to Ph.D.' programme.**

Dr. Bharat Singh Rajpurohit, Associate Professor & Chair, School of Computing and Electrical Engineering, IIT Mandi presented the proposed guidelines for conversions of B. Tech. to Dual M. Tech. and M.Tech. to Ph.D. programme. The Board of Academics in 22nd meeting of held on 05.02.2018 had recommended the proposal for approval by the senate.

After deliberations, the Senate approved the proposal in principle and suggested some specific changes/modification. The approved and modified guidelines are placed at **Annexure – 'C'; Page No. 63 to 65.**

Item No. 15.6:   **To accept Ph.D. students under Prime Minister's Research Fellowship scheme.**

After recommendation of the Board of Academics in its 22nd meeting held on 5th February 2018, Associate Dean (Research) presented before the Senate the guidelines received for 'Prime Minister's Research Fellowship' scheme to be implemented from this year onwards. The Senate approved the enrolment in Ph.D. degree programme of a candidate nominated under Prime Minister's Research Fellowship scheme without any further selection process at Institute level. Further, the Senate also approved the necessary modifications required in Ph.D. Ordinances in the context of the above scheme.

Item No. 15.7:   **To consider uploading of the Technical Reports on Institute repository.**

The Senate considered the proposal submitted for uploading of technical reports on Institutional Open Access Repository. The Senate approved the proposal as below:

a. A faculty member (as author or supervisor) can voluntarily upload any Technical Report (research paper/extended or full version of a conference paper/project report/experimental data) that he/she would like to disseminate independently on the institute repository.
b. Any issue of conflict of interest (such as copyright issue/IPR etc.) or plagiarism need to be taken care of by the faculty uploading the content on the repository.

Item No. 15.8:   **Additional agenda items with the permission of the Chairman, Senate.**

There were no other items for Senate's consideration.

Item No. 15.9:   **To report decisions / action taken by the Chairman of the Senate on behalf of the Senate.**

The senate noted the decisions taken by the Chairman Senate on behalf of the Senate.

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

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

Chairman, Senate