

भारतीय प्रौद्योगिकी संस्थान मण्डी
कमांद- 175075, हिमाचल प्रदेश

INDIAN INSTITUTE OF TECHNOLOGY MANDI
KAMAND – 175075, HIMACHAL PRADESH



कार्य सूची
AGENDA

इकत्तीसवीं सीनेट बैठक सूची

AGENDA FOR THE 31st SENATE MEETING

बैठक सं०	:	इकत्तीसवीं
MEETING NO.	:	THIRTYFIRST
स्थान	:	ए 1, एनकेएन कक्ष, आई0आई0टी मण्डी, कमांद
VENUE	:	A1- NKN ROOM, IIT MANDI, KAMAND
दिनांक	:	10 जून 2021
DATE	:	10 th June, 2021
समय	:	04:00 अपरान्ह
TIME	:	04:00 P.M.

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



**31st SENATE MEETING
THURSDAY, 10th JUNE, 2021**

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PART – ‘A’

Item No. 31.1: To confirm the minutes of the 30th Senate meeting held on 3rd February, 2021.

The minutes of the 30th Senate meeting held on 3rd February, 2021 at IIT Mandi Kamand Campus were circulated to members of the Senate on 19th March, 2021 (through email) for comments, if any (**Annexure-1; Page No. 18 to 26**).

Three comments were received on the minutes of the 30th Senate meeting, enclosed as **Annexure-2; Page No. 27, Annexure-3; Page No. 28 and Annexure-4; Page No. 29**.

In view of the above, the Senate may consider confirming the minutes of 30th Senate meeting of the Institute.

Item No. 31.2: To receive a report on the actions taken for the decisions taken in the 30th Senate meeting held on 3rd February, 2021.

Given below are the details of actions taken on the decisions made in 30th Senate meeting held on 3rd February, 2021:

Item No.	Particulars	Status of Action Taken
30.4	To consider modification in the Core Course list for B.Tech in Engineering Physics Curriculum.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/96-103 dated 09-04-2021
30.5	To consider the proposal for Semester long Internship in B.Tech program.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/104-111 dated 09-04-2021
30.6	To consider the proposal for revision of M.Tech program in Energy Engineering with Specialization in Materials (EEM) to M.Tech in Materials and Energy Engineering (MEE).	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/112-118 dated 09-04-2021
30.7	To consider the proposal for revision of M.Tech program in Mechanical Engineering with Specialization in Energy System (MES) to M.Tech in Fluid and Thermal Science (FTE).	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/119-123 dated 09-04-2021
30.8	To consider the proposal to start a new program M.Tech in Computer Science and Engineering (CSE)	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/124-128 dated 09-04-2021
30.10	Proposal for Addendum on Pass/Fail category courses.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/17150-53 dated 01-03-2021

Item No. 31.3: To consider the modification of course execution during the remainder of the Feb-June 2021 semester, upcoming summer (June-Aug 2021/AS3), grade change exams., and to declare Aug – Dec 2021 as online semester.

In the 40th meeting of the Board of Academics (BoA) held on 11th May, 2021, Dr. Srikant Srinivasan, Associate Dean (Courses) presented a revised plan for conduction of courses and exams. in view of the recently increased impact of COVID-19. After due deliberations, the BoA recommended the following to the Senate for consideration and approval:

- i) Due to the ten days halt in academic activities from May 7 – 16, six working days were lost. These lost days were compensated by utilizing two upcoming Saturdays and extending the semester by 4 days.
- ii) The summer term 'AS3' and the subsequent Aug-Dec 2021 semester may be declared as online semesters and the courses to be offered may be planned accordingly, to ensure that they can be successfully executed in the online mode. Hands-on activity that was earlier proposed during summer term is now deferred.
- iii) During the current semester, several students residing in different part of the nation are facing COVID related challenges at different times. As the students often end up taking a break of 1–2 weeks, the attendance shall not have any contribution towards the grade. Further, the students will be provided an opportunity to make up for their missed exams. and classes during the summer term.
- iv) For the graduating batch of students, the grade-change exams. will be conducted from June 22 - June 24, 2021.
- v) The execution of the summer terms shall be as follows:
 - Students will have the opportunity to avail 'grade-change' exams. from July 15 till July 30, 2021.
 - Earlier Senate notifications permitted students to attempt the grade-change exams. in person. However, as the return of the students seems uncertain in the near future and the courses eligible for grade-change exams. have been accumulating over 3 semesters, it is preferable to complete all the grade-change exams. in the online mode. A poll conducted over 800 students indicates that the majority of them prefer to complete the pending exams. in the online mode.
 - The duration from June 16 - July 15, 2021 will provide one month duration for the students to prepare for the subjects for which they are interested in availing the grade-change. After availing the online option, no further grade-change exam. related to the same course offering will be permitted, either online or in-person.
 - The format of the grade-change exam. and the syllabus will be determined by the course instructors and informed to the students well ahead in time.

- The grade-change exam. can be used to replace any component of the course (e.g. some students may have missed or have had internet connectivity issues with quiz 1, others with quiz 2 or the final exam.). The weight of the exam. cannot be less than 25% and cannot exceed 50%. For rare cases, where an exception may be required due to the course format, the AD (courses) may be approached by the course instructor.

Item No. 31.4: To consider the provision of making curricular internship optional for the B.Tech 2018 / M.Tech 2020 students and the concomitant relaxation in credit requirements for B.Tech 2018 (and B.Tech 2017) and M.Tech 2020 (and M.Tech 2019) batches of students.

In the 40th meeting of the Board of Academics (BoA) held on 11th May, 2021, Dr. Srikant Srinivasan, Associate Dean (Courses) presented the proposal of making the curricular internship optional for the B.Tech 2018 students and M.Tech 2020 students due to the COVID-19 situation. It was noted that a similar option was already provided to the students of B.Tech 2017 and M.Tech 2019 students, under similar circumstances. Therefore, the credit requirements for graduation should also be reduced accordingly to account for the waived internship credits for all the students availing this waiver.

After due deliberations, the BoA recommended the proposal to the Senate for consideration and approval.

Item No. 31.5: To consider modification in Core Course list for B.Tech Data Science and Engineering.

In the 39th meeting of the Board of Academics (BoA) held on 25th March, 2021, Dr. Manoj Thakur, Course Coordinator for B.Tech. Data Science and Engineering, presented a proposal for modification in the Core Course list of Data Science and Engineering. After due deliberations, the BoA recommended it to the Senate for consideration and approval. The proposal is placed as **Annexure – A; Page No. 30.**

Item No. 31.6: To record the closure of M.Tech in Electrical Engineering with specialization in VLSI programme.

In the 40th meeting of the Board of Academics (BoA) held on 11th May 2021, the BoA discussed that the Senate in its 9th meeting held on 11th May, 2016 vide Item No. 9.3 approved 'M.Tech. in Electrical Engineering with Specialisation in VLSI' programme w.e.f. Academic Year 2016-17. Further, a new program i.e., "M.Tech.in VLSI" was also approved by the Senate vide Item No. 16.5 in its 16th Meeting held on 26th April, 2018 w.e.f. Academic Year 2018-19. There is a need to record the closure of the earlier programme.

Therefore, the BoA recommended to the Senate to record that the M.Tech in Electrical Engineering with specialization in VLSI

programme has ceased to exist with the start of the M.Tech in VLSI programme in August, 2018.

Item No. 31.7: To consider the revised proposal for Independent Study Course.

Dr. Sandip Kumar Saha, Coordinator of the committee constituted to formulate Independent Study course presented the proposal during the 23rd Senate meeting held on 1st October, 2019. The Senate suggested changes in the proposal. After incorporating the suggested changes, the proposal was presented during the 38th BoA meeting held on 22nd January, 2021. After due deliberations, the BoA suggested further modifications and deferred it. Considering the suggestions of the Senate and BoA, the committee has modified the proposal and presented it in 40th meeting of the Board of Academics held on 11th May, 2021.

After due deliberations, the BoA recommended the proposal to the Senate for consideration and approval. The proposal is placed as **Annexure – B; Page No. 31 to 32.**

Item No. 31.8: To consider revision in the curriculum for B.Tech - M.Tech Integrated Dual Degree in Bio-Engineering programme.

In the 40th meeting of the Board of Academics (BoA) held on 11th May, 2021, Dr. Shubhajit Roy Chowdhury, Course Coordinator for B.Tech - M.Tech Integrated Dual Degree in Bio-Engineering programme presented a proposal regarding revision in the curriculum for the IDD (Bioengineering) programme. After due deliberations, the BoA recommended it to the Senate for consideration and approval. The proposal is placed as **Annexure –C; Page No. 33 to 34.**

Item No. 31.9: To consider procedure and norms for approval of the courses.

In the 40th meeting of the Board of Academics (BoA) held on 11th May, 2021, the Chair of the Course Proposal Committee (CPC) presented a proposal regarding the Course Proposal Process. After brief discussion, the BoA recommended it to the Senate for its consideration and approval. The proposal is placed as **Annexure- D; Page No. 35 to 37.**

Item No. 31.10: To consider the modification in M.Tech in Computer Science and Engineering (CSE) programme.

In the 40th meeting of the Board of Academics (BoA) meeting held on 11th May, 2021, Dr. Sriram Kailasam, the programme coordinator for M.Tech.- CSE programme presented the following proposal to amend the Eligibility criteria for the M.Tech.-CSE programme:

Existing criteria:

Candidates who have qualified for the award of a Bachelor's degree in Engineering (B.E.) / Technology (B.Tech.) from a recognized University/Institute in Computer Science and Engineering (CSE), Information Technology (IT), Computer Engineering (CE), Computer Technology (CT), or equivalent with minimum 60% (or 6.0 CGPA), and who have qualified and have a valid score in Graduate Aptitude Test in Engineering (GATE) in Computer Science and Engineering are eligible to apply for admission to this program.

To be replaced with:

Candidates who have qualified for the award of a Bachelor's degree in Engineering (B.E.) / Technology (B.Tech.) or equivalent from a recognized University/Institute with minimum 60% (or 6.0 CGPA), and who have qualified and have a valid score in Graduate Aptitude Test in Engineering (GATE) in Computer Science and Engineering are eligible to apply for admission to this program.

After due deliberations, the BoA recommended the above proposal to the Senate for consideration and approval.

Item No. 31.11: To consider relaxation in norms regarding minimum residential requirement for MS/PhD (Part-Time/ERP) Scholars due to COVID-19.

In the 40th meeting of the Board of Academics (BoA) held on 11th May, 2021, Prof. Chayan Kanti Nandi, Associate Dean (Research) presented the following proposal regarding relaxation in the Residential requirements for the Part-Time/ ERP scholars registered under MS/PhD programme due to Covid-19 situation.

As per the Ordinances & Regulations for PhD (R.15 (c)) :*The minimum residential requirement for the Ph.D. scholar under external registration and research scholars working on a part time basis not employed in the Institute is **one semester**.*

As per the Ordinances & Regulations for MS (by Res.) R.13 (b): *The minimum residential requirement for M.S research scholars under external registration or M.S research scholars working on a part time basis not employed in the Institute is **one semester**.*

Recommendation due to COVID 19

- Online classes are continuing since March 2020.
- PhD/MS (by Res.) Part-Time/ERP scholars have completed or will be completing course work in this duration (online mode).

In case scholars have completed minimum course work requirements during semester started from Feb, 2020 - till institute runs online classes, any of the above respective semesters can be treated as residential semester to fulfill the minimum residential requirement.

After brief discussion, the BoA recommended the above proposal for the consideration of the Senate and its approval.

Item No. 31.12: Any other agenda item with the permission of the Chairman, Senate.

Item No. 31.13: To report decisions/action taken by the Chairman, Senate.

(i) Approval of Branch Change for B.Tech 2019 batch:

The Chairman Senate approved the branch change for students admitted in B.Tech in the year 2019. Upon the branch change, the status of students' strength are given below:

Branch	Sanctioned Intake	Existing Strength	Students recommended for the branch	Students changed to other branch	Total Strength after Branch Change
BE	24	19	0	1	18
CE	42	40	0	19	21
CSE	60	60	32	0	92
DSE	24	22	15	1	36
EE	58	55	18	22	51
EP	24	19	1	1	19
ME	50	47	1	23	25
Total	282	262	67	67	262

(ii) Provisionally admitted students for AY 2020-21 (Even Semester):

The following students were admitted provisionally in the Academic Year 2020-21. Their admission is PROVISIONAL subject to fulfillment and verification of all the Academic and Non-academic requirement. Student must comply with the Eligibility and shortlisting criteria as per the advertisement, failure to meet eligibility and/or other criteria and/or furnishing any false information/documents will lead to suo-moto cancellation of their admission.

Programmes	Provisionally Admitted Student strength
MS	12
PhD (including ERP/PTD)	48
Total	60

(a) Provisionally admitted students In M.S. (by Research):

Sl. No.	Roll No.	Name	School
1	S20009	FIZA PARVEEN	SCEE
2	S20011	SUSHOVAN JENA	SCEE
3	S20012	MEETESH KALPESH MEHTA	SCEE
4	S20013	MD ARSHAD JAMAL	SCEE

5	S20014	SHIKHA SHARMA	SE
6	S20015	CHIRANJIV KUMAR PANDEY	SE
7	S20016	PAPPU KUMAR	SE
8	S20017	NILOTPAL KALITA	SE
9	S20018	SWAROOP SONAWANE	SE
10	S20019	AQIF KHURSHEED BHAT	SE
11	S20020	TUBA FATIMA	SE
12	S20021	JAVED AHAMAD	SE

(b) Provisionally admitted students in Ph.D. Programme:

Sl. No.	Roll No.	Name	School
1	D20039	RITRIBAN CHAKRABORTY	SHSS
2	D20040	SHAHYAR HUSAIN	SHSS
3	D20041	DEBALINA ROY	SHSS
4	D20042	VILIEBEINUO MEDOM	SHSS
5	D20043	SUJEET KUMAR	SCEE
6	D20044	APUROOP KUMAR BHATTARAM	SCEE
7	D20045	AKHILESH KUMAR	SCEE
8	D20046	LALITENDU SEKHAR BARIK	SCEE
9	D20047	MD IRSHAD ANSARI	SCEE
10	D20048	SIDDHANT KUMAR	SCEE
11	D20049	SUBHAJIT DEY	SCEE
12	D20050	ANANT KUMAR SINGH	SCEE
13	D20051	ACHARYA SATYA MURTI	SCEE
14	D20052	ASHUTOSH SHAH	SCEE
15	D20054	VINIT SRIVASTAVA	SCEE
16	D20055	CHIRAG PORWAL	SE
17	D20056	YADU CHANDRAN	SE
18	D20058	VIDHATE AKSHAY SANTOSH	SE
19	D20059	KARAN NARULA	SE
20	D20060	SAURABH PATEL	SE
21	D20061	IPSHITA PRIYADARSINI PRADHAN	SE
22	D20062	PRIYANKA GUPTA	SE
23	D20063	MANJEET RANI	SE
24	D20064	SANDEEP KUSHAWAH	SBS
25	D20065	NEELAM BUDANIA	SBS
26	D20066	NASARU KHAN	SBS
27	D20067	HARSH GUPTA	SBS
28	D20068	ISHITA GHORAI	SBS
29	D20069	GAUTHAM VARMA K	SBS
30	D20070	BHIM KUMAR	SBS
31	D20071	SATPUTE GANESH ASHOK	SBS
32	D20072	SHAHIN ANSARI	SBS
33	D20073	KAJAL MITTAL	SBS
34	D20074	MD SHAMSHAD HUSSAIN	SBS

		ANSARI	
35	D20075	SHRADDHA SALWAHAN	SBS
36	D20076	APARNA BHARDWAJ	SBS
37	D20077	PRITAM MUKHERJEE	SBS
38	D20078	ABDUL SALAM	SBS
39	D20079	ARIJIT GHOSH	SBS
40	D20080	MAYANK MAHAJAN	SBS
41	D20081	POOJA	SBS
42	D20082	ANKITA DHIMAN	SBS
43	D20083	SAPKALGORAKSHA TRIMBAK	SBS
44	D20084	PATIDAR PRATYUSHA RAMESHCHANDRA	SBS
45	D20085	VASU NAGPAL	SBS
46	D20086	PRAVEEN KUMAR	SCEE
47	ERPD2002	AISHWAYA KUMARI	SCEE
48	PTD2007	ANJALI PATHANIA	SBS

(iii) Withdrawal from the programme (from 22.02.2021 to 19.04.2021):

The following students resigned and requested for withdrawal which was recommended by their Faculty Advisor/Guide/DC. Consequently, Chairman, Senate approved their withdrawal from the programme.

Sl. No.	Roll No.	Student Name	School	Program	Date of Joining	Date of Resignation
1	T20008	Sanjeev Roy	SE	M.Tech.	16 th September, 2020	22 nd February, 2021
2	V20052	Rajgor Milap Kumar Khushalchandra	SBS	M.Sc.	16 th September, 2020	22 nd February, 2021
3	T20077	Sanjay Kumar Yadav	SE	M.Tech.	16 th September, 2020	15 th March 2021
4	T20039	Manish Mishra	SE	M.Tech.	16 th September, 2020	12 th March 2021
5	D20051	Acharya Satya Murthi	SCEE	Ph.D.	15 th February, 2021	11 th March 2021
6	T20037	Dhruv Paul	SE	M.Tech.	16 th September, 2020	26 th March 2021
7	T20219	Andemachugari Venkata Mahesh	SCEE	M.Tech.	16 th September, 2020	13 th April, 2021
8	S20015	Chiranjiv Kumar Pandey	SE	M.S.	15 th February, 2021	19 th April, 2021
9	S20016	Pappu Kumar	SE	M.S.	15 th February, 2021	19 th April, 2021

(iv) Termination/Cancellation from Ph.D./PG Programme (26.02.2021 to 13.04.2021):

Sl. No.	Roll No.	Student Name	School	Date of Joining	Programme	Date of Termination	Reasons
1	D20009	Kanak Rashmi	SCEE	16-09-2020	Ph.D.	26-02-2021	Submission of false/forged/manipulated

							documents for admission
2	ERPD1301	Rajneesh Vachaspati	SE	31-03-2014	Ph.D.	09-03-2021	Unsatisfactory performance
3	T20078	Naveen Kumar	SE	16-09-2020	M.Tech.	13-04-2021	Not reported/not paid the fee.
4	T20085	Sunil Kumar	SE	16-09-2020	M.Tech.	13-04-2021	Not reported/not paid the fee.

(v) Conversion from Ph.D. to M.S.(by Research) programme (till 24.03.2021):

The Chairman Senate approved the conversion from regular Ph.D. to M.S. (by Research) programme for the following student:

Sl. No.	Roll No.	Student Name	School	Date of Joining	Date of Conversion
1	D17024	Joe Johnson	SCEE	1 st February, 2018	24 th March, 2021

(vi) Provisional Certificate issued to M.S./Ph.D. scholars (after 8th Convocation) (from 18.02.2021 to 15.04.2021):

The following students of MS/Ph.D. have completed all the requirements of the programme. On the approval of the Chairman-Senate, Provisional Certificates have been issued to these students.

Sl. No.	Roll No.	Student Name	Programme	School	Date of Joining	Provisional Certificate issued on
1	D17019	Vishvendra Pratap Singh	Ph.D.	SE	21 st August, 2017	18 th February, 2021
2	D14038	Zahid Maqbool	Ph.D.	SCEE	13 th February, 2015	18 th February, 2021
3	D16024	Vipin Kumar	Ph.D.	SBS	3 rd August, 2016	2 nd March, 2021
4	D13004	Shubhanjali Pathak	Ph.D.	SBS	29 th July, 2013	3 rd March, 2021
5	D15051	Yashika Arora	Ph.D.	SCEE	1 st February, 2016	26 th March, 2021
6	D14017	Duni Chand	Ph.D.	SBS	18 th August, 2014	26 th March, 2021
7	D15012	Ankita Mathur	Ph.D.	SE	27 th July, 2015	1 st April, 2021
8	ERPD1401	Venkateswaran C	Ph.D.	SE	14 th August, 2014	6 th April, 2021
9	S18019	Ankush	M.S.	SCEE	1 st February, 2019	6 th April, 2021
10	S17001	Naman Agarwal	M.S.	SE	3 rd August, 2017	13 th April, 2021
11	S17010	Deepak Mori	M.S.	SE	1 st February, 2018	15 th April, 2021

12	S15011	Merlin Sundar	M.S.	SCEE	1 st February, 2016	15 th April, 2021
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(vii) **Approval for appearing in Comprehensive Exam. after two years:**

On the recommendations of concerned authorities, the Chairman, Senate permitted following Ph.D. students to appear in Comprehensive Exam. after two years from the date of registration, in relaxation of R.13(d) of the Ordinance & Regulations:

Sl. No.	Roll No.	Student Name
1	D17040	Raktim Bhattacharya
2	D18056	Manish Kumar

(viii) **The Revised Intake for PG for AY 2021-22:**

The Chairman Senate approved the following revised intake for various programmes:

Program	Intake	General	EWS	OBC (NCL)	SC	ST	PD*	Foreign Nationals
		40.50%	10%	27%	15%	7.50%	5%	5%\$
M.Sc. (Chemistry)	50	20	5	14	7	4	2	2
M.Sc. (Physics)	40	16	4	11	6	3	2	2
M.Sc. (Applied Mathematics)	50	20	5	14	7	4	2	2
M.Tech (MES)	34	14	3	9	5	3	2	2
M.Tech (MEE)	35	14	4	9	5	3	2	2
M.Tech (SE)	21	8	2	6	4	1	1	1
M.Tech (VLSI)	36	15	4	9	5	3	2	2
M.Tech (PED)	36	15	4	9	5	3	2	2
M.Tech (SPCOM)	35	14	4	9	5	3	2	2
M.Tech (Bio-Tech)	21	8	2	6	4	1	1	1
M.Tech (CSE)	18	7	2	5	3	1	1	1
M.Tech (FTE)	18	7	2	5	3	1	1	1
M.A.	19	8	2	5	3	1	1	1
I-Ph.D.	9	4	1	2	1	1	1	1
Total	422	170	44	113	63	32	22	22

*PD reservations @ 5% will be horizontal (i.e., PD candidates will consume seats from their birth category quota).

\$ **Foreign Nationals** Allotted to foreign national are supernumerary with a cap of 10% of total number of seats in every course. Considering the current constraints related to infrastructure, 5% of Intake in each branch is proposed. In case more applications are received for particular branch, then seat may be adjusted on inter-say-branch within the maximum seat limit of programme.

In addition to above, request for vacancies/reservation for (i) DRDO sponsored candidates (ii) Armed Forces Officers (Service officers from Army, Navy and Air Force) in M.Tech. programmes have been received from DRDO and Ministry of Defence respectively. In this regard, 2 supernumerary seats has also been reserved in each branch of M.Tech programme for each organization viz. DRDO and Armed Forces Officers or any other such organization as supernumerary in nature. In case if more applications are received for particular branch/organization, then seat may be adjusted on inter-say-branch within the maximum seat limit of programme.

The Senate may kindly note the above matters.

PART – ‘B’

Item No. 31.14: Issues to be discussed by the Senate without Student Members being present.

-None-

तीसवीं सिनेट बैठक का कार्यवृत्त

**MINUTES OF THE 30th SENATE MEETING OF
IIT MANDI**

3rd FEBRUARY, 2021



भारतीय प्रौद्योगिकी संस्थान मण्डी
कमांद – 175075, हिमाचल प्रदेश

**INDIAN INSTITUTE OF TECHNOLOGY MANDI
KAMAND – 175075, HIMACHAL PRADESH**

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



30th SENATE MEETING OF IIT MANDI

3rd FEBRUARY, 2021

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30.2	To receive a Report on the actions taken for the decisions taken in the 28 th and 29 th Senate meetings held on 5 th November, 2020 and 11 th December, 2020 respectively.	3
30.3	To consider recommendations of the Committee constituted for planning of the academic activities of Feb-June 2021 semester and Academic Calendar for the year 2021 in view of Covid-19 pandemic.	4-5
30.4	To consider modification in the Core Course list for B.Tech. in Engineering Physics Curriculum.	5
30.5	To consider the proposal for Semester long Internship in B.Tech. program.	5-6
30.6	To consider the proposal for revision of M.Tech. program in Energy Engineering with Specialization in Materials (EEM) to M.Tech. in Materials and Energy Engineering (MEE).	6
30.7	To consider the proposal for revision of M.Tech. program in Mechanical Engineering with Specialization in Energy System (MES) to M.Tech. in Fluid and Thermal Engineering (FTE).	6
30.8	To consider the proposal to start a new program M.Tech. in Computer Science and Engineering (CSE).	6
30.9	To consider a corrigendum regarding addition to the Medals and Prizes list for 8 th Convocation.	7
30.10	Any other agenda item with the permission of the Chairman, Senate.	7
30.11	To report decisions/action taken by the Chairman, Senate.	7
30.12	Issues to be discussed by the Senate without Student Members being present.	7

INDIAN INSTITUTE OF TECHNOLOGY MANDI

Minutes of the 30th Senate Meeting of IIT Mandi held on 3rd February, 2021 at 04:00 PM in A1 NKN Room, IIT Mandi, Kamand.

The following were present:

In the Chair

Prof. Ajit K. Chaturvedi, Director, IIT Mandi

Members:

Prof. N. Sathyamurthy, Former Director, IISER Mohali & Hon. Prof., JNCASR, Bengaluru
Prof. Rowena Robinson, Deptt. of HSS, IIT Bombay
Prof. Ramesh Oruganti, Adjunct Professor, SCEE, IIT Mandi
Prof. Tarun Kant, Visiting Distinguished Professor, SE, IIT Mandi
Prof. S. C. Jain, Emeritus Professor, SE & former Dean (I&S), IIT Mandi
Prof. Subrata Ghosh, Professor, SBS, IIT Mandi
Prof. Prem Felix Siril, Professor, SBS & Dean (Faculty), IIT Mandi
Prof. Suman Kalyan Pal, Professor & Chairperson (SBS), IIT Mandi
Prof. Pradeep C. Parameswaran, Professor, SBS & Dean (Academics), IIT Mandi
Dr. Vishal Singh Chauhan, Dean (F & A), IIT Mandi
Dr. Venkata Krishnan, Dean (SRIC & IR), IIT Mandi
Dr. Bharat Singh Rajpurohit, Dean (I&S), IIT Mandi
Dr. Manoj Thakur, Dean (Students), IIT Mandi
Dr. Samar Agnihotri, Chairperson, SCEE, IIT Mandi
Dr. Viswanath Balakrishnan, Chairperson, SE, IIT Mandi
Dr. Suman Sigroha, Chairperson, SHSS & Course Coordinator HSS Courses, IIT Mandi
Dr. Prosenjit Mondal, Co-ordinator, BioX Centre, IIT Mandi
Dr. Rik Rani Koner, Co-ordinator, AMRC, IIT Mandi
Dr. Rajeev Kumar, Associate Professor (SE), IIT Mandi
Dr. Srikant Srinivasan, Associate Professor, SCEE, IIT Mandi
Dr. Aditi Halder, Associate Professor, SBS, IIT Mandi
Dr. Sunny Zafar, Assistant Professor, SE, IIT Mandi
Dr. Qaiser Jahan, Assistant Professor, SBS, IIT Mandi
Dr. Gopi Shrikanth Reddy, Assistant Professor, SCEE, IIT Mandi
Dr. Amit Jaiswal, Chief Warden, IIT Mandi
Dr. Astrid Kiehn, Chair, Library Advisory Committee (LAC), IIT Mandi
Mr. Naresh Singh Bhandari, Deputy Librarian, IIT Mandi
Dr. Nadeem Akhtar, M/s Arista Networks
Shri K. K. Bajre, Registrar & Secretary-Senate, IIT Mandi

Invitees:

Dr. Anil Kumar Sao, Associate Dean (Courses), IIT Mandi
Dr. Rahul Vaish, Associate Dean (Research), IIT Mandi
Dr. Arnav Bhavsar, Associate Dean (SRIC), IIT Mandi
Dr. Tulika P. Srivastava, Associate Dean (Faculty), IIT Mandi
Dr. Kunal Ghosh, Chair, CPC, IIT Mandi
Dr. Dileep A. D., Associate Professor, SCEE, IIT Mandi

Dr. Ajay Soni, Associate Professor, SBS, IIT Mandi
Dr. Varun Dutt, Associate Professor, SCEE & SHSS, IIT Mandi
Dr. Arpan Gupta, Associate Professor, SE, IIT Mandi
Dr. Hitesh Shrimali, Associate Professor, SCEE, IIT Mandi
Dr. Shubhajit Roy Chowdhury, Associate Professor, SCEE, IIT Mandi
Dr. C. S. Yadav, Associate Professor, SBS, IIT Mandi
Dr. Muslim Malik, Associate Professor, SBS, IIT Mandi
Dr. Atul Dhar, Associate Professor, SE, IIT Mandi
Dr. Dericks Praise Shukla, Associate Professor, SE, IIT Mandi
Dr. Shyam Kumar Masakapalli, Associate Professor, SBS, IIT Mandi
Dr. Trayambak Basak, Assistant Professor, SBS, IIT Mandi
Dr. Bhaskar Mondal, Assistant Professor, SBS, IIT Mandi
Dr. Amit B. Pawar, Assistant Professor, SBS, IIT Mandi
Dr. Rahul Shrestha, Assistant Professor, SCEE, IIT Mandi
Dr. Narsa Reddy Tummuru, Assistant Professor, SCEE, IIT Mandi
Dr. Manas Thakur, Assistant Professor, SCEE, IIT Mandi
Dr. Adarsh Patel, Assistant Professor, SCEE, IIT Mandi
Dr. Ashutosh Kumar, Assistant Professor, SE, IIT Mandi
Dr. Sumit Sinha Ray, Assistant Professor, SE, IIT Mandi
Dr. Tushar Jain, Assistant Professor, SCEE, IIT Mandi
Dr. Swati Sharma, Assistant Professor, SE, IIT Mandi
Dr. Sayantan Sarkar, Assistant Professor, SE, IIT Mandi
Dr. Sandip Kumar Saha, Assistant Professor, SE, IIT Mandi
Dr. Neha Kaushik, Assistant Professor, SHSS, IIT Mandi
Dr. Srinivasu Bodapati, Assistant Professor, SCEE, IIT Mandi
Dr. Kala V. Uday, Assistant Professor, SE, IIT Mandi
Dr. Garima Agrawal, Assistant Professor, SBS, IIT Mandi
Dr. Gaurav Bhutani, Assistant Professor, SE, IIT Mandi
Dr. Jaspreet Kaur Randhawa, Assistant Professor, SE, IIT Mandi
Dr. Rameshwar Pratap, Assistant Professor, SCEE, IIT Mandi
Dr. Sreelakshmi Manjunath, Assistant Professor, SCEE, IIT Mandi
Dr. Moumita Das, Assistant Professor, SCEE, IIT Mandi
Dr. Baskar Bakthavachalu, Assistant Professor, SBS, IIT Mandi
Dr. Varunkumar Jayapaul, Assistant Professor, SCEE, IIT Mandi
Dr. Pratim Kundu, Assistant Professor, SCEE, IIT Mandi
Dr. P. Anil Kishan, Assistant Professor, SE, IIT Mandi
Dr. Parmod Kumar, Assistant Professor, SE, IIT Mandi
Dr. Prasad Kasturi, Assistant Professor, SBS, IIT Mandi
Dr. Saumya Dixit, Assistant Professor, SHSS, IIT Mandi
Dr. Pradeep Kumar, Assistant Professor, SBS, IIT Mandi
Dr. Rajesh Ghosh, Assistant Professor, SE, IIT Mandi
Dr. Pradeep Kumar, Assistant Professor, SE, IIT Mandi
Dr. Srikanth Sugavanam, Assistant Professor, SCEE, IIT Mandi
Dr. Prateek Saxena, Visiting Assistant Professor, SE, IIT Mandi
Dr. Erwin Fuhrer, Visiting Assistant Professor, SCEE, IIT Mandi
Mr. Arnav Prasad, Student Academic Affairs Secretary, IIT Mandi (Special Invitee)
Mr. Sachit Yadav, Student General Secretary, IIT Mandi (Special Invitee)
Shri Vivek Tiwari, Assistant Registrar (Academics), IIT Mandi also attended the meeting.

Following Senate members/invitees could not attend the meeting due to prior commitments:

Prof. Sunil R. Kale, Professor, Department of Mechanical Engineering, IIT Delhi
Prof. Rajan Kapur, Adjunct Professor, SCEE, IIT Mandi
Prof. Yvonne Dittrich, Adjunct Professor, SCEE, IIT Mandi
Prof. Chayan K. Nandi, Professor, SBS, IIT Mandi
Prof. Ajit Padmakar Annachattre, Visiting Professor, SE, IIT Mandi
Prof. Ing. Balthasar Novak, Adjunct Professor, SE, IIT Mandi
Prof. Sumant Nigam, Visiting Distinguished Professor, SE, IIT Mandi
Prof. Kenneth E. Gonsalves, Distinguished Visiting Professor, SBS, IIT Mandi
Prof. Subrata Ray, Distinguished Visiting Professor, SE, IIT Mandi
Prof. B.D. Chaudhary, Emeritus Professor, SCEE, IIT Mandi
Dr. Satinder K. Sharma, Co-ordinator, C4DFED, IIT Mandi
Dr. Puran Singh, Assistant Professor, SHSS, IIT Mandi
Dr. Kaustav Sarkar, Associate Dean (Infrastructure), IIT Mandi
Dr. Devika Sethi, Associate Dean (International Relations), IIT Mandi
Mr. Pawan Kumar Mandal, Student Research Affairs Secretary, IIT Mandi (Special Invitee)

The Chairman Senate extended a warm welcome to all the Senate members and Invitees attending the 30th Senate meeting of the Institute.

Thereafter, following agenda items were taken up.

Item No. 30.1: To confirm the minutes of the 28th and 29th Senate meetings held on 5th November, 2020 and 11th December, 2020 respectively.

The minutes of 28th and 29th Senate meetings held on 5th November, 2020 and 11th December 2020 at IIT Mandi Kamand campus were circulated to members of the Senate on 8th December, 2020 and 21st December, 2020 respectively (through email) for comments.

One comment was received on the Item No. 28.6 of the minutes of the 28th Senate meeting. No comment was received on the minutes of the 29th meeting of the Senate from any member.

Considering the comment received, the Senate decided to add the missing course code (i.e EE309) for the Power Electronics course and to change the course code for Digital System Design from EE208 to EE210 in the Annexure-'D'; page no. 20 to 24 (Proposal for Minor Programs in School of Computing and Electrical Engineering) related to item no. 28.6 of the minutes of 28th Senate meeting.

With the above mentioned modification, the Senate confirmed the minutes of its 28th and 29th meetings.

Item No. 30.2: To receive a Report on the actions taken for the decisions taken in the 28th and 29th Senate meetings held on 5th November, 2020 and 11th December, 2020 respectively.

The Senate noted the actions on the decisions taken in its 28th and 29th Senate meetings held on 5th November, 2020 and 11th December, 2020 respectively.

Item No. 30.3: To consider recommendations of the Committee constituted for planning of the academic activities of Feb-June 2021 semester and Academic Calendar for the year 2021 in view of Covid-19 pandemic.

The recommendations of the designated committee was presented before the Senate by the Chair of the committee, Dr. A. D. Dileep (Annexure-'A'; page no. 8 to 15). After detailed deliberations, the Senate resolved the following:

1. To conduct the entire Feb-Jun 2021 semester in online mode.

Instructors will have flexibility to conduct the classes in a hybrid mode considering that some of the students may return to the campus. In the hybrid mode, the students present on campus may be allowed to attend the classes in person following Covid protocols, while those away from the campus would attend the classes online. The dedicated class rooms set up for online teaching at IIT Mandi may be used for the purpose. However, the instructor should ensure that the students attending classes online are not at disadvantage compared to those attending in person.

2. Conduct as many labs. scheduled for Feb-Jun 2021 semester as possible in online mode.
3. In case of 2019 batch B. Tech. students (current 2nd year), Academic Session 3 (AS3) shall be used to conduct labs. scheduled in Feb-Jun 2021 semester which require physical presence of the students (assuming that the students will be back on campus by then). Choice will also be given to course instructors to conduct pending lab components either during AS3 or in the following regular semester.

The above shall be applicable for the 2020 batch PG students (current first year) as well.

4. In case of 2018 B.Tech. batch students (current 3rd year), the winter break (Dec 2021 to Feb 2022) shall be used to conduct pending labs. scheduled in Feb-Jun 2021 semester which require physical presence of students. Choice will also be given to the course instructors to conduct pending lab. components either during the winter break or in the following regular semester.
5. In case of 2020 batch B. Tech. students (current first year), all pending lab. courses/components of the first year shall be completed in AS3. The recorded lectures of IC courses as provided in AS1 shall be provided in Feb-Jun 2021 semester as well.
6. In case of 2017 batch B.Tech. students (graduating batch), there are no pending lab courses. The PFG shall ensure that backlog courses if any (lab. or theory) shall be completed in online mode.
7. Priority shall be given to graduating batch of B.Tech. students to return to the campus so that they can appear for grade improvement exams in person if they wish.

8. In case of graduating batch of PG students, most of the students are already on campus or shall be returning to the campus by Feb 2021. Therefore, their pending lab. courses shall be completed in person.
9. Execution of B.Tech. Design practicum (DP) course: DP is a unique course at IIT Mandi and has its own learning outputs. During the Feb-Jun 2021 semester, the execution of DP needs to be planned for two batches of B.Tech. students as follows:
 - a. For 2019 batch B.Tech. students (current second year): the DP may begin in online mode and use the AS3 for the components that need physical presence of the students.
 - b. For 2018 batch B. Tech. students (current third year): pending DP activities may be completed during the winter break, as most of the students will be doing internship during AS3. The DP open house may be scheduled in the first or second week of February 2022.
10. ISTP course may be executed in online mode.
11. The Senate approved the detailed Academic Calendar, as given in Annexure-'B'; page no. 16 to 18, for the year 2021.

While discussing this agenda, the Senate appreciated the patience and cooperation shown by the faculty and students to cope up with the situation created due to COVID -19 pandemic.

During the discussions, the Senate also noted a request by some faculty members to reconsider the relaxed attendance criteria due to COVID -19 pandemic. It was noted out that attendance is poor in some courses due to relaxed attendance criteria for online teaching. Senate discussed this matter in detail and decided to continue the relaxed attendance criteria for online teaching as decided earlier.

Item No. 30.4: To consider modification in the Core Course list for B.Tech. in Engineering Physics Curriculum.

On the recommendation of the Board of Academics, the Senate considered a proposal for the modification of the Core Course list for B.Tech. in Engineering Physics Curriculum presented by Dr. Pradeep Kumar.

After detailed deliberations, the Senate approved the proposal with modifications. The proposal, as approved by the Senate, is enclosed as Annexure-'C'; page no. 19.

Item No. 30.5: To consider the proposal for Semester long Internship in B.Tech. program.

On the recommendation of the Board of Academics, the Senate considered a proposal for Semester long internship in B.Tech. program to be implemented for B.Tech. 2018 batch onwards presented by Dr. Sunny Zafar.

The Senate advised that such internship should not be limited to industry.

After detailed deliberations, the Senate approved the proposal with minor modifications. The proposal, as approved by the Senate, is enclosed as **Annexure-'D'**; page no. 20 to 24.

Item No. 30.6: To consider the proposal for revision of M.Tech. program in Energy Engineering with Specialization in Materials (EEM) to M.Tech. in Materials and Energy Engineering (MEE).

On the recommendation of the Board of Academics, the Senate considered the proposal for revision and renaming of M.Tech. program in Energy Engineering with Specialization in Materials (EEM) to M.Tech. in Materials and Energy Engineering (MEE) presented by Dr. Sumit Sinha Ray.

After detailed deliberations, the Senate approved the proposal for revision and renaming of the program with minor modifications. The proposal, as approved by the Senate, is enclosed as **Annexure-'E'**; page no. 25 to 32. It was also suggested that all the courses mentioned in the approved proposal, which do not have formal Senate approval, should follow the normal course approval process before offering.

Item No. 30.7: To consider the proposal for revision of M.Tech. program in Mechanical Engineering with Specialization in Energy System (MES) to M.Tech. in Fluid and Thermal Engineering (FTE).

Although this item was mentioned as a proposal for revision of an existing M. Tech. program in the original agenda, it was clarified to the Senate that the proposal is for introduction of a new program. The Senate agreed to the proposal for introduction of M.Tech. in Fluid and Thermal Engineering (FTE) presented by Dr. Pradeep Kumar.

After detailed deliberations, the Senate approved the introduction of new program. The old program i.e. M.Tech. in Mechanical Engineering with Specialization in Energy System (MES) will also be continued to be offered. The new program proposal, as approved by the Senate, is enclosed as **Annexure-'F'**; page no. 33 to 38. It was also suggested that all the courses mentioned in the approved proposal, which do not have formal Senate approval, should follow the normal course approval process before offering.

Item No. 30.8: To consider the proposal to start a new program M.Tech. in Computer Science and Engineering (CSE).

On the recommendation of the Board of Academics, the Senate considered the proposal for introduction of M.Tech. in Computer Science and Engineering (CSE), presented by Dr. Manas Thakur.

After detailed deliberations, the Senate approved the new program proposal with minor modifications. The proposal, as approved by the Senate, is enclosed as **Annexure-'G'**; page no. 39 to 47. It was also suggested that all the courses mentioned in the approved proposal, which do not have formal Senate approval, should follow the normal course approval process before offering.

Item No. 30.9: To consider a corrigendum regarding addition to the Medals and Prizes list for 8th Convocation.

The Senate considered the addendum presented by Dr. Suman K. Pal, Chair of the Medals & Prizes Committee for 8th Convocation, and approved the award of "*Balasundaram Endowment Prize in German*" to Mr. Hritik Gupta (B16097) as proposed.

Item No. 30.10: Any other agenda item with the permission of the Chairman, Senate.

(i) Proposal for Addendum on Pass/Fail category courses:

Dr. Kunal Ghosh presented the proposal for addendum to the norms of Pass/Fail category courses already approved in 24th meeting of the Senate. The Senate deliberated on the proposal in detail and approved the following:

- (a) These norms shall be applicable to UG 2018 batch onwards.
- (b) These norms shall be applicable to M.Sc./M.A./I-Ph.D. 2019 batch onwards.
- (c) These norms shall be applicable to M. Tech. 2020 batch onwards.
- (d) Registration of the course credits (*as mentioned in the notification*) having Pass/Fail grade will be compulsory towards the respective degree requirements.
- (e) This is in addition to any Pass/Fail credits already approved in the curriculum.

Item No. 30.11: To report decisions/action taken by the Chairman, Senate.

The Senate ratified the decisions taken by the Chairman, Senate on behalf of the Senate, as given in the agenda.

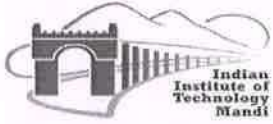
Item No. 30.12: Issues to be discussed by the Senate without Student Members being present.

None.

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

S/D
Chairman, Senate


19/03/21
Registrar & Secretary-Senate



Annexure-2'

Registrar IIT Mandi <registrar@iitmandi.ac.in>

Minutes of the 30th Senate meeting of IIT Mandi held on 03.02.2021-reg.

Pradeep Kumar (SBS) <pkumar@iitmandi.ac.in>

Mon, Mar 22, 2021 at 11:04 AM

To: Registrar IIT Mandi <registrar@iitmandi.ac.in>

Cc: "Ajit K. Chaturvedi" <akc@iitmandi.ac.in>, "Dr. Anil Sao (AD Courses)" <adcourses@iitmandi.ac.in>, "Tulika P. Srivastava" <adrecruit@iitmandi.ac.in>, Samar <adsric@iitmandi.ac.in>, Varun Dutt <adintrel@iitmandi.ac.in>, "Dr. Rahul Vaish" <adresearch@iitmandi.ac.in>, Kaustav Sarkar <srkr@iitmandi.ac.in>, Kunal Ghosh <kunal@iitmandi.ac.in>, senate@iitmandi.ac.in, Director office <diroffice@iitmandi.ac.in>, "AR Acad." <aracad@iitmandi.ac.in>, "Registrar, Office, IIT Mandi" <registraroffice@iitmandi.ac.in>

Dear Sir

With respect to the semester long internship, it was suggested that internship should not be limited to industry and as a result academic institutions were included.

On page 21, at the end of the first paragraph, it is mentioned that students can do academic internships in **India**, which implies that students can do academic internships **only in India** or if a student gets an offer from abroad, s/he won't be allowed to do so. There should not be such a country constraint.

with regards

[Quoted text hidden]

Dr. Pradeep Kumar
Assistant Professor (Physics)
School of Basic Sciences
IIT Mandi
Himachal Pradesh, India
Phone : 01905 - 267137

Home Page
Google Scholar

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Annexure-3

Registrar IIT Mandi <registrar@iitmandi.ac.in>

Minutes of the 30th Senate meeting of IIT Mandi held on 03.02.2021-reg.

P Anil Kishan <kishan@iitmandi.ac.in>

Tue, Mar 23, 2021 at 9:58 AM

To: Registrar IIT Mandi <registrar@iitmandi.ac.in>

Cc: "Dr. Rajeev Kumar (Chair, SE)" <chairse@iitmandi.ac.in>, Ramesh Oruganti <deanacad@iitmandi.ac.in>

Dear Sir,

In the presentation during the senate meeting, I observed that Advanced Analytical Techniques for Engineers / Numerical Methods for Engineering Computation was presented. Numerical Methods for Engineering Computation (ME504) Option is missing in the minutes (page 36, First Semester, Course Sl. No. 2).

regards

Anil Kishan

On Fri, Mar 19, 2021 at 4:33 PM Registrar IIT Mandi <registrar@iitmandi.ac.in> wrote:

Dear Senators,

The minutes of the 30th Senate meeting of IIT Mandi held on 03.02.2021 duly approved by the Chairman, Senate are attached herewith for information and record.

With regards,

K. K. Bajre

Registrar & Secretary, Senate

(28)



Annexure-4

Registrar IIT Mandi <registrar@iitmandi.ac.in>

Minutes of the 30th Senate meeting of IIT Mandi held on 03.02.2021-reg.

Sunny Zafar <sunnyzafar@iitmandi.ac.in>

Sat, Apr 10, 2021 at 3:22 PM

To: Pradeep Parmaeswaram <deanacad@iitmandi.ac.in>

Cc: Kunal Ghosh <kunal@iitmandi.ac.in>, Varun Dutt <varun@iitmandi.ac.in>, academic_secretary@students.iitmandi.ac.in, Registrar IIT Mandi <registrar@iitmandi.ac.in>

Dear Sir:

With respect to the semester internship some minor corrections are to be done in the proposal as mentioned below:

1. [Page 1, point 1 and Page 4, point 2] The preamble mentioned in the main proposal and the course proposal states only the industry, and there is no mention of academia (or academic internships) anywhere in the preamble. Since a preamble explains the purpose of the proposal, academic internships should be mentioned in the preamble.
2. [Page 2, point 3.3, bullet no. 4] Distribution of credits should not be mentioned in the main proposal, only should be mentioned in the course proposal. I'd had a discussion with Kunal sir regarding this when we were formulating the proposal, and also about the issue that putting it in 2 places can cause inconsistencies in the future.
3. [Page 3, point 3.4] As per this rule, we are relaxing the minimum credits-per-semester requirement to only 11 credits. out of which 2 credits are from the Industrial Internship. This currently implies that a student can not do an academic internship (because a student can not obtain 11 credits from an academic internship).
4. [Page 3, point 3.5 and Page 5, point 3] Prof. Ramesh Oruganti in the 30th Senate meeting had advised us to remove, "A report ideally 4 pages". However, there's still a mention of the same.
5. [Page 3, point 3.6] It was also decided to change the phrase "No industrial internship credits..." to "No partial credits will be awarded..."
6. The proposal currently does not state information on the number of credits that will be awarded if an academic internship, or an industrial internship is done.
7. The country constraint issue as also raised by Dr. Pradeep Kumar can also be discussed under the "confirmation of minutes" agenda point in the 31st Senate. To my knowledge, this was not deliberated over in the Senate.

As the subcommittee (formed by Dean Academics), we have discussed these points on 26 March 2021 and modified the semester internship and course proposal. As suitable, these may be discussed while confirming the minutes in the next senate meeting. Updated proposals are attached herewith for reference, please.

Thank you,
Sunny Zafar

[Quoted text hidden]

2 attachments

 DP399P_XX_Course_Proposal_Final_26 March.docx
22K

 Semester Internship Proposal_final_26 March.docx
31K

29

Annexure-‘A’

Revised List of Core Courses in B. Tech. Data Science and Engineering Program at IIT Mandi.

The following changes are proposed in the Core Courses in B. Tech. Data Science and Engineering Program.

1. Mathematical foundations of Data Science-I (3-0-0-3) is replaced with CS208 Mathematical Foundations of Computer Science (3-1-0-4).
2. Introduction to Data Structure and Algorithms (2-0-2-3) is replaced with CS202 Data Structures and Algorithms (3-1-0-4).
3. One credit tutorial is added in Mathematical Foundations of Data Science-II (3-0-0-3) and the course is renamed as Mathematical Foundations of Data Science (3-0-1-4).

List of Core courses for Data Science and Engineering Program (Total Credits for discipline core = 33)

S. No.	Course Title	Lecture	Tutorial	Practical	Total Credit	Semester
1	Mathematical Foundations of Computer Science (CS208)	3	1	0	4	III
2	Data Structures and Algorithms (CS202)	3	1	0	4	III
3	Data handling and visualization	2	0	2	3	IV
4	Statistical Foundations of Data Science	3	0	0	3	IV
5	Mathematical Foundations of Data Science	3	1	0	4	V
6	Matrix Computations for Data Science	2	0	2	3	V
7	Information Security and Privacy	3	0	0	3	V
8	Computing Systems for Data Processing	2	0	2	3	VI
9	Introduction to Statistical Learning	2	0	2	3	VI
10	Optimization for Data Science	3	0	0	3	VI

Proposal for Independent Study Course

Needs:

A student willing to learn a specific topic in greater depth, which otherwise is not covered in any other regular courses being offered at IIT Mandi.

Primary Objective:

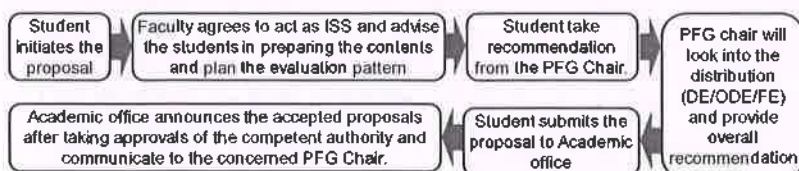
To complete certain number of credits completely in self-study mode under the supervision of a faculty related to the subject area of the study. The associated faculty will be called as Independent Study Supervisor (ISS).

Course Code, Credits and Distribution:

- Course Code: XX599I – Independent Study, *XX as per most relevant branch/specialization for the study area.*
- Credit: 3 (0-0-0-3)
- No discipline/institute core course credits can be substituted by independent study course(s).
- A student can credit maximum one independent study course (3 credits) during the entire program.
- The distribution of the credits, whether under discipline elective or under free/outside-discipline elective, will be decided by the PFG Chair based on the recommendation from the course ISS.

Proposal submission and approval:

- Academic office will announce a last date of submission of independent study course proposal for the students. Preferably, it can be marked/ in the academic calendar for each semester and winter/summer breaks. For regular semester it may start with pre-registration of the regular courses.
- Interested student(s) should initiate the proposal and approach suitable faculty/faculties (ISS) for guidance.
- Once the topic and supervisor(s) are decided, a detailed proposal in a prescribed format is to be prepared. The proposal of the independent study course is to be formulated together by the student and the supervising faculty as a 500-level course.
- Alternatively, contents of any pre-approved course of IIT Mandi may be taken as independent study course. However, if the course is running at a regular interval, then it is expected to complete the course credit as a regular course. PFG chair may take appropriate call during the approval process.
- The student will take the proposal, duly signed by Independent Study Supervisor, to the PFG Chair (of the program in which the student is registered) for recommendation. PFG Chair will ascertain the suitability of the content to be categorised under the proposed distribution (i.e., DE/ODE/FE). PFG Chair may seek inputs from other PFG Chair(s) if the course content is relevant to other disciplines. S/he may provide suitable comments and recommendation, including but not limited to credit distribution and evaluation plan, on the proposal to facilitate the final approval/rejection by the competent authority.
- Student will submit the proposal, duly recommended by the PFG Chair, to the academic office before the announced deadline for final approval.
- Once the proposal is approved by the competent authority, the list of approved independent study courses will be announced by the academic office with a link to the approved course content. Concerned PFG Chairs may be communicated for information.
- The flow of the approval process will be as follows:



- Decision on the proposal should be made available well before the registration for the regular courses starts (when the course is to be completed during regular semester) or the last date of teaching (when the course is to be completed during the summer/winter break).

Registration:

- Once the approval process is completed, the course can be registered for credit.
- This course can be registered during regular semesters or during the summer/winter term.
- Registration process (offline/online) can be decided by the academic office time to time.
- Not more than four students should generally be allowed to register for same topic as independent study course concurrently.

Evaluation:

- The independent study supervisor(s) may choose her/his/their own evaluation policy appropriate for a 500-level course and must mention that in the course proposal.
- The evaluation will be done as PASS/FAIL and will be counted towards total pass/fail credits as per the notification no.: IITMandi/Acad/Senate/2020/13441-45.

Eligibility:

- B.Tech./Dual Degree students (4th semester completed), and M.A./M.Sc./M.Tech. students (1st semester completed) can register for an independent study course.
- Minimum CGPA should be 7.5 at the time of applying for independent study course.
- The independent study course should not be allowed to merely reduce the expected challenge, e.g., literature review, of the Major Technical Project (U.G.), Postgraduate Project (M.A./M.Sc./M.Tech.).
- This course, in general, is not to be recommended for M.S. or Ph.D. students. An M.S. or Ph.D. student may take an independent study course which will reflect in the transcript, however the credits earned through independent study course will not be counted towards minimum course work requirements.

Other Guidelines:

- No classroom teaching or tutorial is admissible, the student is expected to be in self-learning mode.
- No teaching load will be considered for the faculty member associated with the course.
- Class Committee Meeting (CCM) is not required for this course.

Proposal for revision in curriculum of B.Tech., M.Tech Integrated
Dual Degree Programme in Bioengineering.

The Programme Faculty Group (PFG) of B.Tech M.Tech Integrated Dual Degree Programme (IDD) in Bioengineering met with the Associate Dean (Courses) and Dean (Academics) on February 10, 2021 to discuss and deliberate on the revision of curriculum of B.Tech M.Tech Integrated Dual Degree Programme in Bioengineering. The following members attended the meeting:

1. Dr. Anil Kr. Sao, AD (Courses)
2. Dr. Arnav V. Bhavsar, PFG Member
3. Dr. Erwin Fuhrer, PFG Member
4. Dr. GarimaAgrawal, PFG Member
5. Dr. PradeepParameswaran, Dean (A)
6. Dr. Prasad Kasturi, PFG Member
7. Dr. ProsenjitMondal, PFG Member
8. Dr. Rajesh Ghosh, PFG Member
9. Dr. Shubhajit Roy Chowdhury, PFG Chair
10. Dr. Shyam Kr. Masakapalli, PFG Member
11. Dr. SrikanthSugavanam, PFG Member
12. Dr. TrayambakBasak, PFG Member

The following observations were made:

1. It was recognized that several courses were placeholders with content keeping in view the major body of knowledge these will be covering.
2. The PFG has been entrusted to ensure the placeholder courses gets due approval from CPC and BoA, and has been practicing due process of deliberations and filling the placeholders with suitable Course number and Name (with minor changes if any are sent for CPC process with the minutes of the PFG meeting being enclosed for records and communicated to the CPC as well).
3. It was recognized as well as advised by Dean (Academics) that course names as well as content shouldn't be deviating much from senate approved structure. In case, under unavoidable circumstances PFG deems it is necessary, then proper process must be followed as per IIT Mandi practice leading to get revised approval from Senate.

Accordingly, the PFG (Bioengineering) met on March 05, March 17 and April 22, 2021 to duly deliberate on the curriculum and course content of B.Tech (core) courses on IDD (Bioengineering).

The following changes are proposed:

Course Code	Course title (Old title as approved by Senate)	Proposed title	Reason of change
BE201	Biology I	Cell Biology	To make the course title more meaningful with its contents
BE202	Biology II	Molecular Biology and Biochemistry	To make the course title more meaningful with its contents
BE203	Biology III	Enzymology and Bioprocessing	To make the course title more meaningful with its contents
BE303	Biostatistics	Applied Biostatistics	Course content has undergone major revision in view of content of IC252 and IC272. The course has also gone through CPC process.
BE304	Computational Biology	Basic Bioinformatics	Course has undergone revision because the course content was getting too heavy as per discussions in PFG. The course has also gone through CPC process.
BE3XX	Physics and Modeling of Biological Systems	Bioelectric Systems Modeling	Course content has undergone major change as per feedback received from external reviewers. Had detailed discussion and deliberation in the PFG. The course is currently under CPC process.

Course Proposal Process

Preamble: Once the syllabus of a course is notified to the Senate, it becomes an important reference document that governs the delivery of the course and portrays the course to the outside world. Hence, it is desirable to have each course proposal vetted by experts other than the proposers, as well as reviewed by a wider academic audience. The Course Proposal Committee (CPC) has been constituted at the institute level to facilitate the entire process of course development and approval, including courses that bridge schools and academic programs of the institute. The Committee will report to the Dean Academics through the AD (Courses).

The process to be followed from the initiation of a course proposal to its final acceptance is listed below:

1. Any proposal for a new course or modification to an existing course is initiated by a faculty member and submitted in the *prescribed format* to the relevant PFG Chair. The format is available on the IIT Mandi intranet. (Note: In the case where the course doesn't fit into one specific program, it may be submitted directly to the AD courses.)
2. The PFG Chair discusses the proposal within the PFG. If the PFG (with adequate quorum) finds that the proposal can be taken forward, then the PFG identifies the corresponding reviewers for detailed feedback on the course content, and the PFG Chair sends this information along with the PFG discussion minutes/ recommendations to the CPC Chair.
3. The CPC chair identifies a shepherd within the CPC to guide the course proposal process. The shepherd posts the course proposal on an IIT Mandi platform (faculty discussion board/mail to faculty local/ or other means) to make the course proposal available to all faculty for their feedback, if available.
4. After obtaining feedback from the internal faculty, the shepherd in consultation with PFG chair will choose at least two subject experts for review. These experts should be from other IITs or from similar institutions in India or abroad. In rare cases, they may be internal members of IIT Mandi.
 - When course proposals are sent to outside experts, the experts shall also be given relevant documentation related to the B.Tech. curriculum and the syllabi of related courses (or links to these documents/courses) so that they can provide their comments in the context of the IIT Mandi curriculum.
5. On receipt of the review comments from the experts, the CPC shepherd will send the same to the proposers for consideration. The course proposer will modify the course proposal as appropriate and prepare a point-wise response to the reviewers' comments. These comments should be accepted by the PFG and then sent back to the CPC shepherd through the PFG chair.

6. The CPC shepherd will send the modified course proposal along with the reviewers' comments and point-wise response, along with the recommendation of the PFG to the CPC chair.
7. The CPC chair conducts one final inspection to ensure that due diligence has been carried out (checking for format, prerequisites, exclusions and other such issues) and asks the shepherd to post the final version on the IIT Mandi internal forum (as mentioned earlier). Normally, a few days' time will be given to the faculty members to post their comments on the forum.
8. The CPC Chair will then present the course proposals to the Board of Academics (BoA). If required, the BoA may invite the CPC shepherd and/or course proposer to the respective BoA meeting for assisting the board in its deliberations. The BoA will decide whether or not to provide the final approval to the course. The board may also require the course proposer to make changes to the proposal and resubmit the same.
9. The finalized course proposals will be compiled and submitted to the AD (Courses) and Dean Academics by the CPC Chair after approval by the BoA. The approval of the course will then be included as a reporting item in the subsequent senate meeting.
10. In case of any issues in the above process, an appeal can be made by the course proposer/any other person to Dean Academics. Further, the Chairperson Senate, on the recommendation of the Dean Academics, or otherwise may relax any of the above processes, as the chairperson deems fit.
11. Modification in the content of existing courses that amounts to >25% change, in terms of course hours, will follow the same process as detailed in points 1-10. In such cases, the CPC chair may recommend the creation of a new course and the retirement of the earlier course.
12. Modification in the content of existing courses that amount to < 25% change, in terms of course hours, may be sent directly to BoA through the CPC Chair, without involving any external reviewers. Such modification requires due deliberation within the respective PFG, and such deliberations of the PFG and justification for changing the content shall also be sent along with the proposed course modification. The BoA will then take the decision on whether to accept the course modification. The BoA may also recommend sending the proposal to external reviewers.

Guidelines for Course Proposer

- The course proposer should ensure that the correct format is used for the course proposal.
- It is expected and preferred that course proposer should discuss the proposed course with relevant faculty colleagues before sending it to PFG.
- All approved courses will be visible on the Institute website. They will remain so for a long period of time. Hence, utmost care is to be taken to ensure that a good quality course proposal is prepared and submitted.
- The issues raised by the external experts, other faculty members and the BoA are to be appropriately addressed by the proposer and the proposal modified accordingly, if needed.
- The proposer shall be responsible for satisfactory defense in case of deliberations in the BoA.
- Normally, a course can be offered only after final approval from the BoA.

Guidelines for PFG

- The PFG hold a prominent role in the internal review and rebuttal process, because they are most closely related to the subject area.
- All the discussions on the course content, relevance to the program, course level, credit distribution, books and standard references, similarity content (as per lecture hours), suggested internal/external reviewers shall be done at the PFG level.
- It is suggested to have consensus on the acceptance of the proposal by the PFG quorum before sending for external review.
- The reviewer comments and pointwise responses to the same are also discussed and should be accepted by the PFG quorum before forwarding to the CPC Chair.

Guidelines for the CPC shepherd

- The CPC shepherd ensures that the due processes have been adhered to for course proposals, including course format.
- The CPC shepherd serves as the interface to the external reviewer's and ensures that the course proposal meets adequate standards before being sent out for review.

Tentative split-up of the work load, per above course proposal process

- ✓ PFG = 60% (Technical content and suitability)
- ✓ CPC = 20% (Administrative)
- ✓ BoA = 20% (validation and approval)