

भारतीय प्रौद्योगिकी संस्थान मण्डी
कमांद-175075, हिमाचल प्रदेश

INDIAN INSTITUTE OF TECHNOLOGY MANDI
KAMAND – 175075, HIMACHAL PRADESH



कार्य सूची
AGENDA

तैंतीसवीं सीनेट बैठक सूची

AGENDA FOR THE 33rd SENATE MEETING

बैठक सं०	:	तैंतीसवीं
MEETING NO.	:	THIRTY THIRD
स्थान	:	ए 1, एनकेएन कक्ष, आई0आई0टी मण्डी, कमांद
VENUE	:	A1- NKN ROOM, IIT MANDI, KAMAND
दिनांक	:	10 दिसंबर 2021
DATE	:	10 th December, 2021
समय	:	04:00 अपरान्ह
TIME	:	04:00 P.M.

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



**33rd SENATE MEETING
FRIDAY, 10th DECEMBER, 2021**

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PART – ‘A’

Item No. 33.1: To confirm the minutes of the 32nd Senate meeting held on 22nd September, 2021.

The minutes of the 32nd Senate meeting held on 22nd September, 2021 at IIT Mandi Kamand Campus were circulated to members of the Senate on 18th October, 2021 (through email) for comments, if any. No comments have been received on the minutes.

In view of the above, the Senate may consider confirming the minutes of 32nd Senate meeting of the Institute.

Item No. 33.2: To receive report on the actions taken for the decisions taken in the 32nd Senate meeting held on 22nd September, 2021.

Given below are the details of actions taken for the decisions taken in 32nd Senate meeting held on 22nd September, 2021.

Item No.	Particulars	Status of Action Taken
32.3	To consider minimum performance in M.Tech./M.S. (by Research)/Ph.D/I-Ph.D etc. programmes for continuation of Assistantship/Fellowship/Scholarship.	After incorporating the suggestions of the Senate, the revised proposal would be presented during the subsequent Senate meeting.
32.4	To consider modification in the degree requirement for Integrated Ph.D (Physics) programme.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3244-49 dated 17.11.2021
32.5	To consider the proposal for calculation of Cumulative Grade Point Average (CGPA).	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3251-54 dated 17.11.2021
32.6	To consider the proposal of Double Major B.Tech. degree.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3255-58 dated 17.11.2021
32.7	To consider modification of the minimum requirements of HSS course credits in B.Tech. and Integrated Dual Degree (IDD) programmes.	i. Partially approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3259-63 dated 17.11.2021. ii. Item again being presented in current Senate meeting as item no. 33.6.
32.8	To consider proposal on resolving the issue of registration of IC142 as a 4 credit course by B.Tech. (2018-22) batch.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3264-68 dated 17.11.2021
32.9	To consider modification in the IC Engineering basket for students of B.Tech. in Engineering Physics.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3269-72 dated 17.11.2021
32.10	To consider the proposal for modification in Branch Change rules for UG programme.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3273-75 dated 17.11.2021

32.11	To review the request of a B.Tech. 2020 batch student for Branch Change.	Considering the decision of the Senate, the branch of the student has been changed.
32.12	To consider the proposal to start a new programme, M.Tech. in Electric Transportation.	Approved and Notified vide Notification No. IIT Mandi/Acad/Senate/2021/3276-80 dated 17.11.2021
32.13	To consider award of Ph.D., I-Ph.D.(Physics), M.S. (by Research), M.Tech., M.Sc., M.A. and B.Tech degree.	As approved, Degrees were conferred on the graduands during the 9 th Convocation of the Institute held on 23 rd October, 2021.
32.14	To consider the award of Medals and Prizes to the winners among the graduands, which are to be awarded during the 9 th Convocation of the Institute.	As approved, medals and prizes were awarded to the winners during the 9 th Convocation of the Institute held on 23 rd October, 2021.

Item No. 33.3: To consider implementation of reservation policy in MS/PhD admissions.

In the 43rd meeting of the Board of Academics held on 21st October, 2021, Prof. Chayan K. Nandi, Associate Dean (Research) presented a proposal regarding implementation of reservation policy of Government of India in MS/PhD admissions. After discussions, the BoA recommended the proposal, as placed at **Annexure-A; Page No. 16 to 17** to the Senate for consideration.

Item No. 33.4: To consider modification in Pass/Fail credits.

In the 43rd meeting of the Board of Academics held on 21st October, 2021, Dr. Srikant Srinivasan, Associate Dean (Courses) presented a proposal that the number of credits that a student takes towards Pass/Fail (P/F) courses be made **flexible**. In the past students were compelled to take a fixed number of P/F credits towards their curricular requirements. However, it has been observed that some students prefer not to take P/F courses and wish to get a regular grade while other students wish to explore more courses beyond the curricular requirements towards the degree and would like to avail the P/F option. It may be noted that the benefits of P/F courses include:

- Enabling students to take courses from online platforms such as NPTEL,
- Exploring courses within IIT Mandi to broaden their academic awareness without Grade constraints,
- Exploring new topics under independent study/ research study.
- For the UG students, P/F credits can also be applied towards internship

Considering the curricular needs of the students, the following provisions are proposed for the inclusion of P/F credits towards degree requirements:

- B.Tech - maximum 9 credits (FE)
- B.Tech with honors- maximum 9 credits (FE)

- Dual Degree - maximum 12 credits (9 credits FE + 3 credits DE/ODE/FE)
- M.Tech./MSc/MA/IPh.D - maximum 3 credits (towards DE/ODE/FE)

Any P/F credits taken by students beyond the above prescribed limit will not contribute towards degree requirements. However, it would reflect on their transcripts. As a consequence of these changes, the semester internship of UG/dual degree students will also count as 9 credits of Free Elective. The revision may come into force with immediate effect for all PG and UG students. However, UG students of 2018 batch who have already availed 3 credits DE under P/F category may be allowed 3 credits of DE + 6 credits of FE under P/F category (as they are already in their final year).

After brief discussion, the BoA recommended the proposal to the Senate for consideration.

Item No. 33.5: To consider modification in the structure for Minor in Management.

In the 43rd meeting of the Board of Academics held on 21st October, 2021, Dr. Saumya Dixit, Asstt. Professor, SHSS presented a proposal regarding modifications in the Minor in Management structure. After discussions, the BoA recommended the proposal, as placed at **Annexure-B; Page No. 18** to the Senate for consideration.

Item No. 33.6: To consider the proposal for modification in the number of HSS course credits requirements for B.Tech and IDD programmes.

During the 32nd Senate meeting held on 22nd Sept. 2021, Dr. Tushar Jain, Associate Professor had presented a proposal regarding modifications in the minimum requirements of HSS course credits in B.Tech and IDD programme. The Senate had suggested to compare the percentage-wise HSS course credits requirements of other IITs, and and re-submit the proposal.

Accordingly, following proposal was presented to the 43rd meeting of the Board of Academics held on 21st October, 2021:

Current practice: 1 credit from Creative Understanding HSS basket or equivalently from 5WIP + 17 compulsory credits from any HSS basket or HSS electives. Also, students are allowed to take additional HSS courses as their free electives.

Recommended: 1 credit from Creative Understanding HSS basket or equivalently from 5WIP + 12 compulsory credits from any HSS baskets or HSS electives and 5 HSS electives to covert to 5 free electives with an upper cap of 18-20 credits on HSS courses taken by students.

After brief discussion, the BoA recommended the proposal to the Senate for consideration.

Item No. 33.7: To consider proposal for provision of B.Tech (Honours) to B.Tech. – M.Tech Integrated Dual Degree (Bioengineering) students.

In the 44th meeting of the Board of Academics held on 24th November, 2021, Dr. Shubhajit Roy Chowdhury, Coordinator for B.Tech – M.Tech Integrated Dual Degree in Bioengineering programme presented a proposal for B.Tech (Honours) to IDD (Bioengineering) students. After discussions, the BoA recommended the proposal, as placed at **Annexure-C; Page No. 19** to the Senate for consideration.

Item No. 33.8: To reconsider proposal on Dual Degree/Conversion to PhD programme (PG+PhD).

In the 44th meeting of the Board of Academics held on 24th November, 2021, Dr. Manas Thakur, Chairperson of the committee presented the proposal for conversion from master degree programs to dual degree/conversion to Ph.D. After discussions, the BoA recommended the proposal, as placed at **Annexure-D; Page No. 20 to 23** to the Senate for consideration.

Item No. 33.9: Any other agenda item with the permission of the Chairman, Senate.

Item No. 33.10: To report decisions/action taken by the Chairman, Senate:

(i) To consider the Academic Calendar for First Year B.Tech 2021 batch and calendar for semester/academic year: (Approved on 12th November, 2021)

● **B.Tech 2021 batch (First Year)**

- Registration in the Programme 23rd November, 2021 to 24th November, 2021
- Classes begins from 1st December, 2021 and ends by 28th January, 2022
- Final CCM will be on 7th February, 2022
- Grade submission will be on 8th February, 2022

● **The Feb-June, 2022 (Even Semester)**

- Begins from 15th Feb 2022 and ends by 11th June 2022
- Final CCM will be on 13th June, 2022
- Grade submission will be on 14th June, 2022

● **The Summer-Term 2022 (June-August)**

- Begins from 20th June, 2022 and ends by 5th August, 2022
- Grade submission will be on 4th August, 2022

● **The Aug-Dec, 2022 (Odd Semester)**

- Begins from 10th August, 2022 and ends by 3rd December, 2022
- Final CCM will be on 5th December, 2022

- Grade submission will be on 6th December, 2022

The classes will be conducted in hybrid (online/offline) mode. Depending upon the improvement in COVID-19 situation, further decision regarding conduct of classes in offline mode may be taken.

The Academic Calendar for B. Tech 2021 batch (First Year), Feb-June 2022 (Even Semester), Summer-Term 2022 (June-August) and Aug-Dec 2022 (Odd Semester), as approved, is placed at **Annexure-E; Page No. 24 to 26.**

(ii) Conversion of 4-credit course CS671: Deep Learning and Applications offered in the last semester (Feb-June 2021) to 2-credit special topic course "CS599: Special Topics in Deep Neural Networks"(Approved on 8th November, 2021):

During the 43rd BoA meeting held on 21st October, 2021, the Associate Dean (Courses) presented the recommendations of the committee constituted to look into the issues related to CS671: Deep Learning and Applications, which is a discipline elective course and was offered in Even Semester (Feb-Jun) 2021. Considering the recommendations of the committee and BoA, the Chairman - Senate approved the following:

- Convert the original course to 2-credit special topic course "CS599: Special Topics in Deep Neural Networks".
- During the upcoming winter vacation, offer the unfinished portion of CS671 as a 2-credit special topic course "CS699: Special Topics in Deep Learning" only to interested students among the students who credited the course CS671 during Feb-June 2021 semester.

(iii) Withdrawal from the programme during 20th Sept. 2021– 19th Nov., 2021:

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

S.No.	Roll No.	Student Name	School/ Branch	Program	Date of Joining	Date of Resignation Accepted
1	T21103	Saurav Mamgain	PED	M.Tech	6 th September, 2021	20 th September, 2021
2	T21201	Sasanka Sekhar K Deka	MES	M.Tech.	9 th August, 2021	20 th September, 2021
3	S21016	Shivank Kumar	SE	M.S.	4 th September, 2021	20 th September, 2021
4	T21101	Rohit Kumar Goyal	PED	M.Tech	6 th September, 2021	20 th September, 2021
5	D20067	Harsh Gupta	SBS	Ph.D.	15 th February, 2021	20 th September, 2021
6	S20018	Swaroop Rajendra Sonawane	SE	M.S.	15 th February, 2021	20 th September, 2021
7	T21094	Ramavath Rakesh	PED	M.Tech	9 th August, 2021	30 th September, 2021
8	T21131	Vishnu Sisodia	VLSI	M.Tech	9 th August, 2021	30 th September, 2021
9	T21094	Ramavath Rakesh	PED	M.Tech	9 th August, 2021	30 th September, 2021
10	T21251	Chayan Mazumdar	MEE	M.Tech	9 th August, 2021	7 th October, 2021
11	D21055	Riya Joseph	SBS	Ph.D.	9 th August, 2021	24 th October, 2021
12	T21130	Amit Kumar	VLSI	M.Tech	9 th August, 2021	26 th October, 2021

13	T21250	Aayush Mittal	MEE	M.Tech	9 th August, 2021	26 th October, 2021
14	D21005	Utkarsha Negi	SHSS	Ph.D.	9 th August, 2021	1 st November, 2021
15	T21212	Ashish Gupta	MES	M.Tech.	9 th August, 2021	10 th November, 2021
16	D20049	Subhajit Dey	SCEE	Ph.D.	15 th February, 2021	14 th November, 2021
17	D20065	Neelam Budania	SBS	Ph.D.	15 th February, 2021	14 th November, 2021
18	T21254	Vijay Kumar Patel	MEE	M.Tech	9 th August, 2021	19 th November, 2021
19	T21125	Palak Mahajan	VLSI	M.Tech.	9 th August, 2021	19 th November, 2021
20	D21020	Sarikul Islam	SBS	Ph.D.	9 th August, 2021	19 th November, 2021
21	S21018	Arka Samanta	SCEE	M.S.	9 th August, 2021	19 th November, 2021

(iv) Additional list of graduands for conferment of degree during 9th Convocation of the Institute during 24th September, 2021 to 14th October, 2021 (approved on 18th October, 2021):

The following students of MS/M.Tech./Ph.D. had completed all the requirements of the programme after 32nd Senate meeting and before ten days of commencement of the 9th Convocation (23rd October, 2021). On approval of the Chairman- Senate, degree was conferred on them during the 9th Convocation held on 23rd Oct. 2021.

S.No	Roll No.	Student Name	Programme	School	Date of Joining	Provisional Certificate issued on
1	D16008	Priyanka Kajal	Ph.D.	SE	28 th July, 2016	24 th September, 2021
2	D15010	Manju Bisht	Ph.D.	SE	27 th July, 2015	30 th September, 2021
3	D16034	Saurav Yadav	Ph.D.	SE	5 th August, 2016	30 th September, 2021
4	D15064	Shitole Pankaj Popatrao	Ph.D.	SE	22 nd February, 2016	30 th September, 2021
5	D16017	Ajay Kumar	Ph.D.	SBS	1 st August, 2016	5 th October, 2021
6	D15067	Ashutosh Singh	Ph.D.	SBS	8 th March, 2016	7 th October, 2021
7	S18007	Kamal Sadhuram Khemani	M.S.	SE	1 st August, 2018	12 th October, 2021
8	T19127	Jashan	M.Tech.	VLSI	1 st August, 2019	12 th October, 2021
9	D14039	Anshul Kumar Mishra	Ph.D.	SCEE	13 th February, 2015	14 th October, 2021
10	D15054	Vijender Kumar Sharma	Ph.D.	SCEE	1 st February, 2016	14 th October, 2021
11	D15047	Ashish Kumar	Ph.D.	SCEE	1 st February, 2016	14 th October, 2021

(v) Provisional Certificate issued to M.S./ Ph.D. scholars after 9th Convocation (approved during 14 – 30 Nov.2021):

On completion of all requirements of M.S./Ph.D., Provisional Degree Certificates have been issued to following students:

S.No	Roll No.	Student Name	Programme	School	Date of Joining	Provisional Certificate issued on
1	S18008	M Nikhil Mathew	M.S.	SE	1 st August, 2018	14 th November, 2021
2	S18017	Shreesh S Parvatikar	M.S.	SE	2 nd August, 2018	19 th November, 2021
3	S18023	Dhanyunjaya Varma D	M.S.	SCEE	1 st February, 2019	30 th November, 2021
4	D16001	Pooja Sankhyan	Ph.D.	SHSS	25 th July, 2016	30 th November, 2021

(vi) To report Seat Matrix for UG programme for AY 2021-22 (approved on 30-09-2021):

Seat Matrix for UG programme for AY 2021-22:

Programme		Open 40.5%	Open-PwD	SC 15%	SC-PwD	ST 7.5%	ST-PwD	OBC-NCL 27%	OBC-NCL-PwD	Gen-EWS 10%	Gen-EWS-PwD	Total (including Female Supernumerary)	Total PwD* 5%	Seat Capacity	Female Supernumerary	Total Branch Capacity	Foreign Nationals Supernumerary 10%
Civil Engineering	Gender Neutral	15	1	6	0	3	0	10	0	3	1	39	2	45	4	49	5
	Female	4	0	1	0	1	0	2	1	1	0	10 (including "4" Supernumerary)	1				
Computer Science and Engineering	Gender Neutral	22	1	8	0	3	1	14	1	6	0	56	3	64	6	70	6
	Female	6	0	1	1	1	0	4	0	1	0	14 (including "6" Supernumerary)	1				
Electrical Engineering	Gender Neutral	21	1	7	1	4	0	15	0	4	1	54	3	65	3	68	7
	Female	6	0	2	0	1	0	3	1	1	0	14 (including "3" Supernumerary)	1				
Engineering Physics	Gender Neutral	8	1	3	0	2	0	6	0	2	0	22	1	28	0	28	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0				
Mechanical Engineering	Gender Neutral	18	1	7	0	3	0	11	1	5	0	46	2	52	6	58	5
	Female	5	0	1	1	1	0	3	0	1	0	12 (including "6" Supernumerary)	1				

												Supernumerary)					
Data Science and Engineering	Gender Neutral	8	1	3	0	2	0	6	0	2	0	22	1	28	0	28	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0				
B.Tech.- M.Tech. Integrated Dual Degree in Bio- Engineering	Gender Neutral	8	1	3	0	2	0	6	0	2	0	22	1	28	0	28	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0				
Total		127	7	45	3	23	1	86	4	31	2	329	17	31 0	19	329	32
		134		48		24		90		33							

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

Item No. 33.11 To report approval of the courses by the Board of Academics (BoA).

(i) List of courses approved by the BoA during its 43rd meeting held on 21st October, 2021:

S. No.	Course No.	Course Name	Credit	Distribution (L-T-P-C)	Remarks
1	BE302	Bioelectric Systems Modeling	4	3-0-2-4	
2	BE305	Bioethics and Regulatory Affairs	1	1-0-0-1	
3	BE501	Anatomy and Physiology	3	3-0-0-3	
4	BE 502	Design and Analysis of Bioalgorithms	3	2-0-2-3	
5	BE503	Biosensing and Bioinstrumentation	4	3-0-2-4	
6	BE504	Biomaterials	4	3-0-2-4	
7	BE505	Computational Biology	3	2-0-2-3	
8	CS511	Applied Probability	2	2-0-0-2	
9	CS512	Matrix Theory	2	2-0-0-2	
10	CS513	Discrete Mathematics	4	3-1-0-4	
11	CS 551	Human Computer Interaction	3	3-0-0-3	
12	EN503	Energy Storage Technologies	3	3-0-0-3	Revision in course
13	EE537	Power Quality Problems and Mitigation Techniques in Microgrids	3	3-0-0-3	
14	EN 509	Functional Materials for Energy Engineering	3	3-0-0-3	Revision in course
15	HS543	Epidemics in World History: From the Black Death to COVID-19	3	3-0-0-3	
16	ME518	Conduction and Radiation	3	3-0-0-3	
17	ME 519	Technical communication for Engineers	2	0-2-0-2	
18	IC 240	Mechanics of Rigid Bodies	3	1.5-1.5-0-3	
19	CY 556	Organic Spectroscopy	3	3-0-0-3	Course Code was changed from CY647

(ii) The BoA in its 43rd meeting held on 21st October, 2021 accorded One Time approval on the following courses taken by the graduating students at IIT Mandi or at other Universities as an exchange student.

S.No.	Course No.	IIT Mandi Credits	Course Name	Universities at Semester Exchange Programmes
1	020975000/020976000	4	Information Visualization and Visual Analytics	University of Stuttgart, Germany
2	021601200/021601205	4	Operating Systems	
3	021971000/021972000	4	Computer Vision	
4	1915100000	5.33	Intensive German Course	
5	1915200000	2	Extensive German Course	
6	372104510	4	Software Engineering for Real Time Systems	
7	1211901	4	IT-Security 1 - Network Security	RWTH Aachen University, Germany
8	1212310	4	Basic Techniques in Computer Graphics	
9	1212311	4	Computational Differentiation	
10	1212341	4	Satisfiability Checking	
11	1215694	4	Introduction to Artificial Intelligence	
12	1215744	4	Machine Learning	
13	4011680	3.33	Advanced Software Engineering	
14	8014854	3.33	Foundations of Entrepreneurship	
15	IN0012-IN2106-IN4274	6.67	Building Smart Services for a Tourism Platform	Technical University Munich (TUM), Germany
16	IN0014	3.33	Data Visualization	

17	IN0037	4	Game Physics	Aalto University, Finland
18	IN2028	3.33	Business Analytics	
19	IN2106	6.67	Edge Computing and the Internet of Things	
20	IN2107	3.33	Advanced Seminar Blockchain Technologies	
21	KON-C2004	3.33	Mechatronics Basics	
22	MEC-E1080	3.33	Production Engineering	
23	MS-C2111	3.33	Stochastic Processes	
24	30C00200	4	Econometrics	
25	CS-C1000	2	Introduction to Artificial Intelligence	
26	CS-E4890	3.33	Deep Learning	
27	CS-EJ3211	1.33	Machine Learning with Python	
28	MS-C2105	3.33	Introduction to Optimization	
29	21C10000	4	Business and Society	
30	CS-C3100	3.33	Computer Graphics	
31	CS-C3120	3.33	Human-Computer Interaction	
32	CS-E4110	3.33	Concurrent Programming	
33	CS-EJ4103	1.33	Cloud Systems and Technologies	
34	EEN-E1010	3.33	Power Plants and Processes	
35	EEN-E1020	3.33	Heat Transfer	

The following courses were taken by the graduating students at IIT Mandi:

Sl.No.	Course Code	Credit	Course Title	Remarks
1	EE 630P	3	Independent Study	Feb-June 2020 (Dr. Ankush Bag)
2	DS 201	3	Data Handling and Visualization	Feb-June 2021 (Dr. Arnav Bhavsar)
3	EE 593	3	E-mobility, Electric and Hybrid Vehicles	Feb-June 2021 (Dr. Bharat S Rajpurohit)

The Senate may kindly note the above.

PART – ‘B’

Item No. 33.12: Issues to be discussed by the Senate without Student Members being present.

-None-

RESERVATION OF SEATS IN MS/PhD ADMISSIONS

Indian nationals belonging to certain categories are required to be admitted under the seats reserved for them in accordance with the rules prescribed by the Government of India. The categories and the extent of reservation are as follows:

Overall % of seats	100
General/Open Seats	40.5
General (EWS): <i>Economically Weaker Section</i>	10
OBC (NCL): <i>Non-Creamy Layer</i>	27
SC: Scheduled Caste	15
ST: Scheduled Tribe	7.5
Persons with Disabilities (PwD) (<i>Horizontal reservation</i>)	5

- 1) **General-EWS:** General Category belonging to Economically Weaker Section (GEN-EWS) – 10% of seats in every course. The benefit of reservation will be given only to those **General category** candidates who satisfy the condition given in the OM No 20013/01/2018-BC-II dated January 17, 2019 issued by the Ministry of Social Justice and Empowerment.
- 2) **OBC(NCL):** Other Backward Classes belonging to the Non-Creamy Layer (OBC-NCL) – 27% of seats in every course.
 - i OBCs should be listed in the current updated central list of OBCs (<http://www.ncbc.nic.in>).
 - ii OBCs present in the state list but not covered in the central list of OBCs (as per the list in <http://www.ncbc.nic.in>) are not eligible to claim the reservation.
 - iii The criteria for Non-Creamy Layer (OBC-NCL) will be as per the notification of Government of India.
 - iv Candidates belonging to the creamy layer of OBC are **NOT** entitled for reservation. Such candidates are treated as belonging to the general (GEN), i.e. unreserved category, and they will be eligible only for the OPEN seats – *the seats for which all candidates are eligible.*
- 3) **Scheduled Caste (SC)** – 15% of seats in every course.
- 4) **Scheduled Tribe (ST)** – 7.5% of seats in every course.

The benefit of reservation will be given only to those **Castes** and **Tribes** that are mentioned in the respective central list of corresponding states published by the Government of India (websites: <http://socialjustice.nic.in> and <https://ncst.nic.in>).

- 5) **Persons with Disability (PwD)** – 5% seats in each of OPEN, GEN-EWS, OBC-NCL, SC and ST category seats.

Section 2(r) of the RPwD Act, 2016 states the following:

Persons with benchmark disabilities (PwD) means a person with not less than forty percent (40%) of a “specified disability” where specified disability has not been defined in measurable terms and includes a person with disability where specified disability has been defined in measurable terms, as certified by the certifying authority.

“Specified Disability” means the disabilities as specified in the Schedule of the RPwD Act 2016. The categories of disabilities are:

- i Blindness and low vision
- ii Deaf and hard of hearing
- iii Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy
- iv Autism, intellectual disability, specified learning disability and mental illness, and
- v Multiple disabilities from amongst persons under clauses (i) to (iv)
- vi Other ‘specified disabilities’ mentioned in the Schedule of the RPwD Act 2016.

Important Note: The reservation policy, as communicated by the respective Ministry of Government of India from time to time will be followed by the institute.

Modifications in MINOR IN MANAGEMENT

The Minor in Management is open to B. Tech. and B.Tech. + M.Tech. dual degree students at IIT Mandi, who have completed the required prerequisites listed in the Summary below.

This minor consists of a curriculum in management, which is organized as core and elective courses. Successful completion of the minor requires 6 credits of core courses and a minimum of 6 credits of elective courses. The 6 credits of core courses will be earned against the following 2 core courses 1) Principles of Economics (HS202) and 2) Organizational Management (HS304). The remaining 6 credits will be earned from any of the remaining courses of the basket of managerial competence listed in the Summary section below.

To obtain a Minor in Management, students need to maintain a minimum GPA of 7.0 in the dedicated 12 credits that they have taken to fulfil the course requirement of the Minor programme.

Summary:

Prerequisites for Minor in Management:

- IC 252: Data Science II (3-0-2-4)
- One course from the Communicative Competence basket

Courses for Minor in Management:

A. Core Courses (6-credits):

- HS 202: Principles of Economics(3-0-0-3)
- HS304: Organizational Management(3-0-0-3)

B. Elective Courses* (Students have to opt for any two courses from this basket to complete 6-credits):

- HS 205: Financial Accounting(3-0-0-3)
- HS 403: Organizational Behaviour(3-0-0-3)
- HS 551: Financial Management(3-0-0-3)
- HS 616: Managerial Thinking and Decision Making(3-0-0-3)
- HS 461: Consumer Behaviour(3-0-0-3)
- HS 510: Essentials of Entrepreneurship(3-0-0-3)

* The list of elective courses is based on current offerings and may be modified by the HSS PFG and reported in the BoA

The modifications shall be applicable on all the UG students including BTech 2018 batch.

**Proposal for B.Tech (Honours) provisions to B.Tech.-M.Tech Integrated Dual Degree
(Bioengineering) students**

R.28 Eligibility for Award of the B.Tech. Degree

A student should be declared to be eligible for award of the B.Tech. degree if he/she has:

R.28.1 registered and successfully completed all the requirements as per the curriculum of the program.

R.28.2 acquired a minimum of 160 credits satisfying all the course basket requirements and projects mentioned under R.3.7 and completed all other compulsory requirements such as the Internship, NSS/NSO/H&T requirements etc. within the stipulated time as mentioned under R.12.

R.28.3 satisfied the minimum residence requirement of eight (8) semesters. "Residence" implies being formally registered for academic work. Any time on a semester exchange at another institute/university, with the approval of the Dean (Academics), shall count towards this residence requirement.

R.28.4 secured a minimum cumulative grade point average (CGPA) of 5.0 in passed subjects.

R.28.5 no dues to the Institute, Hostels, Libraries, NSS/NSO/H&T etc.

R.28.6 no disciplinary action is pending against him/her.

R.29 Eligibility for Award of the B.Tech. (Honours) Degree

R.29.1 In addition to the general eligibility criteria mentioned for the award of regular B.Tech. degree under R.28, a student must earn additional 12 credits (over and above the required 160 credits for regular B.Tech. degree) relevant to her/his discipline as recommended by the Faculty Adviser to be eligible for B.Tech. (Honours) degree.

R.29.2 Student must do DP401P & DP402P: Major Technical Project and DP-301P: Interactive Socio-Technical Practicum (ISTP) and obtain a grade of 'B' or above in these courses.

R.29.3 Student should not have received 'F' grade throughout the B.Tech. program.

R.29.4 Student should secure an overall CGPA of 8.5 or more out of 172-174 credits.

Proposed amendments in the criteria for B.Tech (Hons.) of IDD students:

1. To be at par with R 29.1 students need to do extra 12 credits of discipline electives. This means they have to earn 218 instead of 206 credits for the award of the B.Tech (Hons.) degree.

2. Since an IDD student is required to do 34 credits of PGP, the requirement of 8 credits of MTP is waived off. However, to earn a B.Tech (Hons.) they are still required to do DP-301P: Interactive Socio-Technical Practicum (ISTP) and obtain a minimum grade of 'B' in it. These 4 credits of Interactive Socio-Technical Practicum (ISTP) can come from 22 credits of free electives contributing to 4 out of 22 credits allotted for free electives. Also, the students have to earn a minimum of 'B' grade in the PGP.

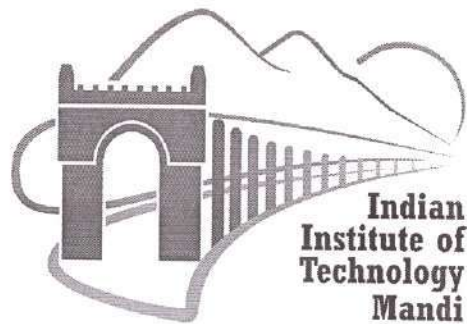
3. Student should not have received 'F' grade throughout the IDD program.

4. Student should secure an overall CGPA of 8.5 or more out of 218-220 credits.

Proposal for

PG+PhD Dual Degree Upgradation Options

- A. Upgrade from MS by Research to MS+PhD**
- B. Upgrade from MTech to MTech+PhD**
- C. Upgrade from MSc to MSc+PhD**
- D. Upgrade from MA to MA+PhD**



**Indian Institute of Technology Mandi
Himachal Pradesh, India.**

November 2021

1. Preamble

Many IITs have programs that allow students admitted as part of PG programs (MTech/MS/MSc) to upgrade to a dual-degree PG+PhD program, or admit students after an undergraduate degree for a PG+PhD program. The motivations (particularly for the former) from the perspectives of candidates and institutes are as follows:

Motivations for candidates:

- Save time in doing PhD (no re-application, courses and/or PG thesis waived off, can continue working on the same problem).
- Those having a clear mindset towards pursuing PhD in a certain area after undergrad also get the tick mark of a PG degree in their profile.

Motivations for institutes:

- Retain in-house trained PG students for PhD.
- Improve overall research quality.

2. Methodology and Scope

A committee, constituting Dr. Manas Thakur (chair), Dr. Manoj Thakur, Dr. Sunny Zafar, Dr. Sayantan Sarkar, Dr. Puran Singh and Mr. Vivek Tiwari was constituted by the Dean (Academics) in September 2021, to look into PG+PhD upgradation options for existing PG students of IIT Mandi. The committee studied in detail the existing policies in this regard at various IITs (old as well as new), conducted a survey to gauge the interest of PG students at IIT Mandi, and proposed the policies with respect to (i) eligibility; (ii) selection process; (iii) degree requirements; (iv) program/fellowship duration; (v) award of degrees; and (vi) exit option, for MTech+PhD, MS+PhD, MSc+PhD and MA+PhD upgradation options, as listed subsequently. The proposal was deliberated and updated based on the comments received in two Board of Academics meetings during October and November, 2021.

3A. Upgrade from MS by Research to MS+PhD

1. Interested MS scholars with minimum 8.0 CGPA across their MS course work at IIT Mandi can place a request to their Academic Progress Committee (APC), for upgradation to MS+PhD program under the same advisor. Upon approval, the APC of the scholar can be converted to a Doctoral Committee (DC) as per institute norms.
2. The scholar would need to complete a total of 24 credits of course work, and the courses already credited during MS can be considered towards the same by the DC.
3. The MS thesis of the upgraded scholar will be waived off, but he/she needs to submit a Comprehensive Literature Review (hereafter referred to as CLR) report and make a presentation to the DC, within one year of upgradation.
4. The PhD fellowship for the upgraded MS+PhD scholar would start from the date of upgradation and may be paid up to six years from the date of MS registration. All other PhD norms will be applicable as is from the date of upgradation.
5. The scholar would be awarded both the degrees (MS by Research towards partial fulfilment of the requirements of dual MS+PhD, and PhD) after fulfilment of the requirements of the PhD degree. Provisional MS degree may be issued after completion of the PhD synopsis.

6. In case the scholar exits the dual-degree program as per existing PhD ordinances, he/she may be allowed to leave with an MS by Research degree only after fulfilling the requirements of the baseline MS by Research degree.

3B. Upgrade from MTech to MTech+PhD

1. Interested MTech students with minimum 8.0 CGPA across the required MTech course work of first two semesters at IIT Mandi can apply for upgradation to MTech+PhD program based on an internal call made twice a year by the PG admissions (or equivalent) committee of the respective school. The committee may prescribe a higher shortlisting criteria as per the number of requests and need, and would interview the shortlisted candidates in their broad area of interest. Upon approval, a guide may be allotted and a DC be formed for the candidate as per institute norms.
2. The DC may prescribe additional courses beyond those already credited by the scholar, if needed, based on the research area of the scholar.
3. The Post-Graduate Project (PGP) of the scholar will be waived off, but he/she needs to submit and make a CLR report+presentation to the DC, within one year of upgradation.
4. The PhD fellowship for the upgraded MTech+PhD scholar would start from the date of upgradation and may be paid up to six years from the date of MTech registration. All other PhD norms will be applicable as is from the date of upgradation.
5. The scholar would be awarded both the degrees (MTech towards partial fulfilment of the requirements of dual MTech+PhD, and PhD) after fulfilment of the requirements of the PhD degree. Provisional MTech degree may be issued after completion of the PhD synopsis.
6. In case the scholar exits the dual-degree program as per existing PhD ordinances, he/she may be allowed to leave with an MTech degree only after fulfilling the requirements of the baseline MTech degree. Letter grades, as applicable, may be awarded for the PGP dissertation relative to the original batch of the scholar (either by the original evaluation committee or a committee empowered by the school chair).

3C. Upgrade from MSc to MSc+PhD

1. Interested MSc students with minimum 8.0 CGPA across the required MSc course work of first three semesters at IIT Mandi can apply for upgradation to MSc+PhD program based on an internal call made twice a year by the PG admissions (or equivalent) committee of the respective school. The committee may prescribe a higher shortlisting criteria as per the number of requests and need, and would interview the shortlisted candidates in their broad area of interest. Upon approval, a guide may be allotted and a DC be formed for the candidate as per institute norms.
2. The scholar would have to finish his/her MSc requirements within the stipulated duration of the MSc program (possibly by aligning the PGP dissertation with the area of PhD research).
3. The DC may prescribe additional courses beyond those already credited by the scholar, if needed, based on the research area of the scholar.
4. The PhD fellowship for the upgraded MSc+PhD scholar would start after finishing the MSc requirements. In case the scholar is not eligible for a fellowship at the time of upgradation, he/she will be allowed to start PhD without fellowship, and may be paid the same if he/she clears an examination that entitles fellowship, from the respective date. In both cases the scholar may be paid the fellowship up to six years from the date of MSc registration. All other PhD norms will be applicable as is after finishing MSc requirements.

5. The scholar would be awarded both the degrees (MSc towards partial fulfilment of the requirements of dual MSc+PhD, and PhD) after fulfilment of the requirements of the PhD degree. Provisional MSc degree may be issued after completion of the PhD synopsis.
6. In case the scholar exits the dual-degree program as per existing PhD ordinances, he/she may be allowed to leave with the baseline MSc degree.

3D. Upgrade from MA to MA+PhD

1. Interested MA students with minimum 8.0 CGPA across the required MA course work of first three semesters at IIT Mandi can apply for upgradation to MA+PhD program based on an internal call made twice a year by the PG admissions (or equivalent) committee of the respective school. The committee may prescribe a higher shortlisting criteria as per the number of requests and need, and would interview the shortlisted candidates in their broad area of interest. Upon approval, a guide may be allotted and a DC be formed for the candidate as per institute norms.
2. The scholar would have to finish his/her MA requirements within the stipulated duration of the MA program (possibly by aligning the PGP dissertation with the area of PhD research).
3. The DC may prescribe additional courses beyond those already credited by the scholar, if needed, based on the research area of the scholar.
4. The PhD fellowship for the upgraded MA+PhD scholar would start after finishing the MA requirements. In case the scholar is not eligible for a fellowship at the time of upgradation, he/she will be allowed to start PhD without fellowship, and may be paid the same if he/she clears an examination that entitles fellowship, from the respective date. In both cases the scholar may be paid the fellowship up to six years from the date of MA registration. All other PhD norms will be applicable as is after finishing MA requirements.
5. The scholar would be awarded both the degrees (MA towards partial fulfilment of the requirements of dual MA+PhD, and PhD) after fulfilment of the requirements of the PhD degree. Provisional MA degree may be issued after completion of the PhD synopsis.
6. In case the scholar exits the dual-degree program as per existing PhD ordinances, he/she may be allowed to leave with the baseline MA degree.

Common Note (for Options 3B, 3C and 3D). At the time of application, if the results of the second or the third semester courses (as applicable for MTech or MSc/MA students) are not known, the admissions committee may make a provisional offer for upgradation subject to fulfilment of the CGPA requirement.

**Academic Calendar for Odd Semester of the AY 2021-22
(B.Tech 2021 Batch)**

Day	November	December	January	February
Sunday				
Monday	1		31	
Tuesday	2			1 End Sem A
Wednesday	3	1 Class begins:		2 End Sem B
Thursday	4 Diwali	2		3 End Sem C
Friday	5	3		4 End Sem D
Saturday	6	4	1	5
Sunday	7	5	2	6
Monday	8	6	3	7 Final CCM
Tuesday	9	7	4	8 Grade Submission
Wednesday	10	8	5	9
Thursday	11	9	6	10
Friday	12	10	7	11
Saturday	13	11	8	12
Sunday	14	12	9	13
Monday	15	13	10	14
Tuesday	16	14	11	15 Classes begin: Students report to FA (Add/Drop of courses starts)
Wednesday	17	15	12	16 Last date to submit Fees
Thursday	18	16	13	17
Friday	19 Guru Nanak's Birthday	17	14	18
Saturday	20	18	15	19
Sunday	21	19	16	20
Monday	22	20	17	21
Tuesday	23 Programme Registration	21	18	22
Wednesday	24 Programme Registration	22	19	23
Thursday	25	23	20	24 Foundation Day
Friday	26	24 Semester Break	21	25
Saturday	27	25 Christmas Day	22	26
Sunday	28	26	23	27
Monday	29	27 Semester Break	24	28
Tuesday	30	28 Quiz	25	
Wednesday		29 Quiz	26 Republic Day	
Thursday		30 Quiz	27 (Monday Schedule)	
Friday		31 Quiz	28 Last day of Teaching	
Saturday			29	
Sunday			30	

Day Name	No. of Days	
Saturday	Holiday	
Sunday	Holiday	
Monday	8	7+1=8
Tuesday	8	
Wednesday	8	
Thursday	8	9-1=8
Friday	8	
Total Days	40	

Academic Calendar for Even Semester (Feb-June, 2022) and Summer-Term 2022 of AY 2021-22

Day	January	February	March	April	May	June
Sunday					1	
Monday	31				2 Quiz II	
Tuesday		1	1 Maha Shivratri		3 Id-ul-Fitr	
Wednesday		2	2		4 Quiz II	1
Thursday		3	3 Last date to add/drop courses		5 Quiz II	2
Friday		4	4	1	6	3 End Sem A
Saturday	1	5	5	2	7	4 End Sem B
Sunday	2	6	6	3	8	5 End Sem C
Monday	3	7	7 CCM Week	4	9	6 End Sem D
Tuesday	4	8 Vacation ends for Faculty	8	5	10	7 End Sem E
Wednesday	5	9	9	6	11	8 End Sem F
Thursday	6	10	10	7	12	9 End Sem G
Friday	7	11	11	8	13	10 End Sem H
Saturday	8	12	12	9	14	11 Vacation begins for students (Makeup Exam)
Sunday	9	13	13	10	15	12 (Makeup Exam)
Monday	10	14	14 Quiz I	11	16 Buddha Purnima	13 Final CCM
Tuesday	11	15 Classes begin: Students report to FA (Add/Drop of courses starts)	15 Quiz I	12	17	14 Grade Submission
Wednesday	12	16 Last date to submit Fees	16 Quiz I	13	18	15 Vacation begins for Faculty
Thursday	13	17	17 Quiz I	14 Mahavir Jyanti	19	16
Friday	14 Announcement of Comprehensive Exam Result	18	18 Holi	15 Good Friday	20	17
Saturday	15	19	19	16	21	18
Sunday	16	20	20	17	22	19
Monday	17	21	21 Quiz I	18 CCM Week	23 TCF starts	20 Classes begin: Summer Term (for certain batches)
Tuesday	18	22	22 Quiz I	19	24	21
Wednesday	19	23	23 Quiz I	20	25 (Friday Schedule)	22
Thursday	20	24 Foundation Day	24 Quiz I	21	26	23
Friday	21	25	25	22	27	24
Saturday	22	26	26	23	28	25
Sunday	23	27	27	24	29	26
Monday	24	28	28	25 Quiz II	30 TCF Ends	27
Tuesday	25		29	26 Quiz II	31 Last day of teaching	28
Wednesday	26 Republic Day		30	27 Quiz II		29
Thursday	27		31	28 Quiz II		30
Friday	28 Last date to submit APC/DC Report			29 Quiz II		
Saturday	29			30		
Sunday	30					

Day Name	No. of Days
Saturday	Holiday
Sunday	Holiday
Monday	14
Tuesday	14
Wednesday	14
Thursday	14
Friday	14

15-1=14

13+1=14

Total Days 70

Academic Calendar for ODD Semester (Aug-Dec, 2022) of AY 2022-23

Day	July	August	September	October	November	December
Sunday	31 Vacation ends for Faculty			30		
Monday		1		31		
Tuesday		2			1	
Wednesday		3			2	
Thursday		4 Grade Submissions for Summer Term	1		3	1 End Sem G
Friday	1	5 End of Summer Term	2		4	2 End Sem H
Saturday	2	6	3	1	5	3 Vacation begins for students (Makeup Exam)
Sunday	3	7	4	2 Mahatma Gandhi's Birthday	6	4 (Makeup Exam)
Monday	4	8	5	3 CCM Week	7	5 Final CCM
Tuesday	5	9 Muharram	6 Quiz I	4	8 Guru Nanak's Birthday	6 Grade Submission
Wednesday	6	10 Classes begin: Students report to FA (Add/Drop of courses starts)	7 Quiz I	5 Dusschra	9	7 Vacation begins for Faculty
Thursday	7	11 Last date to submit Fees	8 Quiz I	6	10	8
Friday	8	12	9 Quiz I	7	11	9
Saturday	9	13	10	8	12	10
Sunday	10 Id-ul-Zuha (Bakrid)	14	11	9 Milad-un-Nabi or Id-e-Milad	13	11
Monday	11	15 Independence Day	12 Quiz I	10	14 TCF starts	12
Tuesday	12	16	13 Quiz I	11	15	13
Wednesday	13	17	14 Quiz I	12 Quiz II	16	14
Thursday	14 Announcement of Comprehensive Exam Result	18	15 Quiz I	13 Quiz II	17 (Monday Schedule)	15
Friday	15	19 Janmashtami	16	14 Quiz II	18	16
Saturday	16	20	17	15	19	17
Sunday	17	21	18	16	20	18
Monday	18	22	19	17 Quiz II	21 TCF starts	19
Tuesday	19	23	20	18 Quiz II	22 Last day of teaching	20
Wednesday	20	24	21	19 Quiz II	23	21
Thursday	21	25 Last date to add/drop courses	22	20 Quiz II	24	22
Friday	22	26	23	21 Quiz II	25 End Sem A	23
Saturday	23	27	24	22	26 End Sem B	24
Sunday	24	28	25	23	27 End Sem C	25 Christmas Day
Monday	25	29 CCM Week	26	24 Deenawali	28 End Sem D	26
Tuesday	26	30	27	25	29 End Sem E	27
Wednesday	27	31	28	26	30 End Sem F	28
Thursday	28 Last date to submit APC/DC Report		29	27		29
Friday	29		30	28		30
Saturday	30			29		31

Day Name	No. of Days
Saturday	Holiday
Sunday	Holiday
Monday	14
Tuesday	14
Wednesday	14
Thursday	14
Friday	14

13+1=14

15-1=14

Total Days 70