

GUIDELINES FOR INTERDISCIPLINARY DUAL DEGREE PROGRAMME
(IDDDP)

1) Minimum Eligibility Criteria:

- a) Undergraduate (UG) students admitted to B.S., B.Tech. and DD (B.Tech. + M.Tech.) programmes can apply for IDDDP at the end of sixth semester.
- b) At the end of sixth semester, students must have CPI ≥ 7.5 and should not have any FR/DR/DX/W grade in mandatory courses including NSO/NSS/NCC.
- c) Through IDDD Programme, students can apply for all the specializations of Dual Degree (DD) and M.Tech./ MBA/ M.Sc. programmes approved by the Academic Senate of IIT Bombay.
- d) Over and above minimum eligibility criteria [a-c], a DUGC/ DPGC may enforce additional eligibility and selection criteria [through Academic Senate of IIT Bombay].
- e) Students admitted to B.S. programme through Maths Olympiad are not eligible.
- f) Refer Annexure-I for additional details with regard to eligibility criteria by certain Academic units.

2) Procedure:

- a) Interested and eligible UG students from B.S., B.Tech. and DD (B.Tech. + M.Tech.) programmes should apply using the form (as attached) directly to their respective parent departments at the end of 6th semester and before 15th July of that Calendar year.
- b) The application must clearly state the course plans to finish the B.S. / B.Tech. programme by the 8th semester and the intended IDDD specialization by the 10th semester. No additional time will be provided for either one.
- c) The completed application of the student must be examined and approved first by the DUGC of the parent academic unit, followed by the DUGC/ DPGC [as applicable] by the Host academic unit.
- d) The list of the short-listed candidates will be forwarded to Convener UGAPEC by the Convener, DUGC / DPGC of the admitting [Host] departments. An academic unit can also provide a waiting list based on the merit.
- e) The final list of selected candidates will be conveyed to the Convener, DUGC of the respective parent academic units and the Convener, DUGC / DPGC of the destination academic units. The final list will also be conveyed to Associate/ Dean, SA for adjustment in hostel accommodation.

3) Rule & Regulations:

- a) IDDDP is only for the movement of students from one academic unit to another.
- b) A DD specialization / M.Tech. programme usually requires the completion of 8 to 9 courses of 6 credits and a DD/M.Tech. project (DDP/MTP) of 74 - 92 credits.
- c) IDDDP should also be treated as (b). However, considering (a), IDDDP also allows the completion of only 4 PG level courses (as specified by the concerned academic unit) and the DDP/MTP project to earn a "Dual Degree in xxx Specialization WITHOUT HONORS".
- d) An admitting academic unit can prescribe additional courses over and above that required for IDDDP, (with/ without HONORS) which may differ depending on the parent academic unit of the incoming student to facilitate introduction considering (a).
- e) The DUGC/ DPGC of the admitting academic unit must prescribe beforehand and certify the completion of the HONORS requirement.
- f) An academic unit can admit at most 2 UG students in each DD/ M.Tech. specialization.
- g) The selection and entry of all candidates in IDDDP will remain provisional till the successful completion of B.S./ B.Tech. curriculum by the end of 8th semester. The

- payment of TAship to the selected candidates will remain subject to terms and conditions as applicable to usual DD programs and other rules as applicable from time to time.
- h) The roll no. of the selected list of candidates will remain the same.

Following additional criteria are specified by some Academic Units for IDDDP

Department	Eligibility Criteria
SJMSOM	<p>B.Tech/B.S. and Dual Degree (B.Tech+M.Tech) students.</p> <ol style="list-style-type: none"> 1. Students with CPI of 7.5 at the end of their sixth semester and with no backlog in their UG courses can apply for the programme. 2. The CPI criteria would be a benchmark and interviews will be conducted as per specialization applied for. 3. The fees applicable to IDDDP students will be the same as that applied for the students in 2nd year MBA programme. 4. On completion of programme, the students would get B.Tech. Degree in parent department and MBA degree in given specialization. 5. The students would not be eligible for Minor in Management (SJMSOM)
Environmental Science and Engineering Department	<p>A maximum of two students would be permitted to leave the Department for joining IDDDP programmes.</p>
Systems and Control Engineering	<ol style="list-style-type: none"> 1. The candidate must satisfy the minimum eligibility criteria stipulated by the Academic section. 2. A SysCon core faculty member must agree to guide the candidate. 3. In any year, a core faculty member can agree to guide (i.e. recommend) at most one candidate applying for the SysCon IDDDP. 4. The candidate must have completed any two courses from our list of minor courses within the first six semesters of the B.Tech program and have an average score of at least 7.5 in these two courses. This requirement can be waived if the student has credited some equivalent courses in other departments which in their entirety cover the topics covered in any two SysCon minor courses. The average grade requirement for the equivalent courses is 7.5. The decision about granting the waiver will be taken by the IDPC. <p>In case more than two candidates satisfying all the above requirements apply for the SysCon IDDDP, then the two candidates with the highest CPIs will be recommended for admission.</p>
CMInDS	<p>Any IITB B.Tech. with CPI > 8.0 can opt for the program in their sixth and seventh semester with the approval of the DUGC of the B.Tech. department and DPGC of the M.Tech. department.</p> <p>Dual degree students can be admitted via usual rules of a branch change. The student must have completed at least two AI and Data Science minor courses (including the soft core or equivalent courses). A DDP guide who is a faculty member associated with the Centre for MI&DS must be identified, and give approval as part of the application process. The final decision will be based on CPI, consent from an associated faculty who agrees to serve as advisor, statement-of-purpose, and/or interviews. The center will make the admission decisions before the start of placements in the seventh semester. A student who chooses to convert to IDDDP in AI and Data Science and thus receives a Masters in AI and Data Science, will not be eligible for a minor in AI and Data Science.</p> <p>Number admitted: In its first year of operation we propose to admit eight* students in the institute TA category and 22 additional students in the RA category. Students in the TA category will support the minor courses offered by the Centre. The students in the RA category will be funded by projects of the faculty with whom the student engages in the year- long project.</p> <p>Curriculum Structure: The master's degree requires:</p> <ul style="list-style-type: none"> • Completion of at least two AI and Data Science minor courses (including the soft-core or equivalent courses) by 6th semester. For the first year of admission this requirement will be waived. • Completion of 4 PG level courses. Two courses are to be completed in the 4th year, and the remaining two courses in the 5th year; these courses must be from

	<p>a list of courses approved as electives for Minor/ IDDDP in AI and ML by the CMInDS. The elective list includes a wide variety of relevant courses already offered by different departments. These are organized into three baskets: Mathematics, AI and ML, and Applications. The current list of such courses appears in the appendix.</p> <ul style="list-style-type: none"> • Completion of two stages of the Dual Degree Project as per the standard IDDDP structure <p>The degree offered by the center would be WITHOUT HONORS since we require only four PG-level courses. This is as per Rule 3(c) of institute guidelines on IDDD Programme. However, as per rule 3(d) and 3(e), the CMInDS may prescribe additional pre-requisite courses over and above those discussed above if an incoming student is deemed to require them. These will be determined by the DPGC and informed to the student in advance</p> <p>Project topics: https://docs.google.com/spreadsheets/u/1/d/e/2PACX-1vQ38EkqrIX00g3qHDd2Ks1yVFLx7wzjN48kbTV2CUymqfYeTQvsY8zZB09Pu0TKm-tcGmVO0Yt0_-e/pubhtml?gid=1597903800&single=true</p> <p>Project preference form: https://docs.google.com/forms/d/1FIAILHMqi0XvlokP5j22j6sZSuEml4H5FGKKkawKyj8/edit</p>
Centre for Digital Health	<p>Under-graduate students pursuing a B.Tech. / B.S. / DD (B.Tech. / B.S. + M.Tech. / M.Sc.) degree in an academic unit at IIT Bombay with CPI > 7.5 at the end of sixth semester can apply. The applications would be screened first at the DUGC of the home academic unit of the applicants and subsequently, by a select academic committee of CDH.</p> <p>The applicant is also required to identify through mutual discussion a faculty member associated with CDH as a supervisor for the dual degree project (DDP). Prior consent from the concerned faculty member is essential for the IDDD application.</p> <p>The final decision will be based on CPI, consent from an associated faculty who agrees to serve as the DDP supervisor, statement-of-purpose, and/or interviews. The center will make the admission decisions before the start of placements in the seventh semester.</p> <p>A student, selected for IDDD in CDH for a masters in "Healthcare Informatics", will not be eligible for a minor degree in Healthcare Informatics.</p> <p>Under-graduate students pursuing a B.Tech. / B.S. / DD (B.Tech. / B.S. + M.Tech. / M.Sc.) degree at IIT Bombay can pursue additional one year of PG-level courses and a year-long project in the area of Healthcare Informatics to earn a masters' degree in "Healthcare Informatics" along with their B.Tech. / B.S. degree in dual degree mode.</p> <p>Number of students to be admitted: For the AY 2021-22, it is proposed to admit 8 students in the institute TA category and 22 students in the RA category. The students in the RA category will be funded by the research projects of the concerned faculty member with whom the student would engage in the year-long project.</p> <p>Link : https://www.kcdh.iitb.ac.in/academics#IDDDP</p>
Climate Studies	<p>The Minimum eligibility criteria, Application procedure, Rules & Regulations will remain the same as provided in the UG Rule Book. The department can have a maximum intake of 5 students in an academic year.</p> <p>https://www.climate.iitb.ac.in/IDDDP_in_Climate_and_Sustainability_IIT_Bombay.pdf</p>
Mathematics	<p>(Ref. 259th Senate Meeting): Candidates interested in the IDDDP of the Mathematics Department should satisfy the following criteria: 1. By end of 3rd year (while applying) the applicant should have</p>

	<p>(a) CPI > 8.0, (b) no FF/FR in any MA/SI courses at any point of time, (c) completed at least 4 courses from S**.</p> <p>2. By the end of 4th year, the applicant should have completed (a) any required courses offered by other departments (e.g. CS101, ES200, HS200, etc.) and (b) at least 7 courses from S**.</p> <p>3. At the end of the fifth year, the student should have done at least 12 courses from S**.</p> <p>4. In 2 (b) and 3, a student can replace a particular course in S with an advanced Ph.D. level course in the same broad area in consultation with the faculty advisor.</p> <p>5. The student should overall complete 124 credits (of MA 4xx, 5xx, 8xx courses and/or project) to get the degree. A project will be of 36 credits.</p>
Statistics	<p>(Ref. 260th Senate Meeting): Candidates interested in the IDDDP in Statistics should satisfy the following criteria:</p> <p>1. By end of 3rd year (while applying) the applicant should have (a) CPI \geq 8, (b) completed MA403 (Real Analysis) and atleast 3 courses out of remaining 4 in S1*, (c) no FF/FR in any MA/SI courses at any point of time.</p> <p>2. By the end of 4th year, the applicant should have completed (a) any required courses offered by other departments (e.g. CS101, ES200, HS200, etc.), and (b) at least 8 courses from S1* or S2*.</p> <p>3. At the end of the fifth year, the student should have done at least 12 courses from S1* or S2* or S3*</p> <p>4. In 2. (b) and 3., a student can replace a particular course in S2* or S3* with an advanced PhD level course in the same broad area in consultation with the faculty advisor.</p> <p>5. The student should overall complete 124 credits (of the courses from above lists and/or project) to get the degree. A project will be of 36 credits.</p> <p>*Please check Maths department website for S1/ S2/ S3 baskets</p>
Physics	<p>Information about Quantum Mechanics https://www.quicst.org/news-events</p>