

ORDINANCES FOR BTECH PROGRAMME

For details please visit at the following link:

<http://www.iiitd.ac.in/sites/default/files/docs/education/BTech-Ordinances.pdf>

REGULATIONS FOR BTECH PROGRAMS

1 General

- (1) This document gives the general regulations applicable to all BTech programs. Specific requirements for a particular BTech program (e.g. BTech in Computer Science and Engineering) are specified in regulations for that program.
- (2) While the Senate is the main statutory body for all academic matters, the Undergraduate Committee (UGC), a standing committee of Senate, shall oversee matters related to the undergraduate program. This committee shall be appointed by the Senate and shall have a term of two years. It will consist of Faculty members and members of the Senate. In addition, there will be at least one student representative, who will be a full time UG student of the Institute.
- (3) Any condition arising in the BTech program and not covered in the regulations shall be referred to the UG committee which may refer it to the Senate.
- (4) Dean of Academic Affairs (DOAA) is the main functionary who ensures the smooth functioning of the academic programs as approved by the academic Senate, executes the policies and decisions of the Senate and UGC and PGC. DOAA's office receives, processes and maintains all records relating to the undergraduate programs including curricula, courses offered, academic calendar, registration, leave, examinations, grades and award of degrees and prizes; disseminates information and issues orders pertaining to all academic matters; processes requests from students regarding academic matters.

2 Academic Session and Calendar

There are two regular semesters and one summer term in a year. Most courses are taught in the regular semesters. The semester timeline shall be defined in the academic calendar and will be broadly the following.

- a) **Semester I (Monsoon Semester).** Starts around August 1 and ends around the last week of November.
- b) **Semester II (Winter Semester).** Starts around January 2 and ends around the last week of April.
- c) **Summer Term.** Starts around the middle of May and ends around middle of July.

A semester is of about four months in duration with 13 weeks of teaching, a mid-semester recess, a mid-semester examination, and an end-semester examination. Generally the last 10 days in the semester are reserved for the end-semester examination, presentations, demos etc. The summer term is about half the duration of the regular semesters, and the courses taught run at faster pace to complete in duration of the summer term.

The **academic calendar**, published every year/semester specifies the dates for major academic activities like registration, examinations, mid-semester recess, etc. will be prepared and published by DOAA, and tabled in the Senate.

3 Admission

Number of Seats

The total number of seats will be as decided by the Board of Governors and will be announced every year in the prospectus. No change in the total number of seats will be done after the merit list for admission has been announced. The Board may also decide to have a special supernumerary quota for foreign students.

Admission Criteria

Admission to the undergraduate program at IIIT-Delhi is based on criteria which use scores from entrance test(s), class XII, and other competitions. Details about the admission criteria and entrance test(s) whose scores are to be used, are announced through the admission prospectus each year. The minimum eligibility criteria for applying is that a candidate must have secured 80 percent or more marks in the aggregate and 80% or more in Mathematics in class XII from CBSE/ICSE/IB board or equivalent is eligible for applying to IIIT-D. Relaxation is given for category students, as specified in the prospectus. Additional requirements for minimum eligibility for specific programs are also as specified in the prospectus. Candidates whose programs had been terminated at any other university/institute on disciplinary grounds are not eligible

Reservations

The current reservation policy (decided by the Board of Governors) of the Institute largely reflects the policy of Delhi Government. Currently, 85% of the seats are reserved for Delhi candidates (i.e. those who have completed class XII from a school/college/institute located in Delhi), and 15% for outside Delhi candidates. Category-wise reservation is provided within these limits, as explained in the prospectus for each year.

Offer of Admission

- (1) During counseling, based on the merit list, a candidate will be invited to join the institute.
A candidate will be admitted if he/she
 - a) presents all original documents for verification of the information provided in the admission form
 - b) pays the required fee, and
 - c) completes the admission formalities.

- (2) Those candidates unable to show the proof of fulfilling the eligibility criteria may be given a provisional admission subject to their presenting such a proof by the following September 30.

Cancellation of Admission

- (1) The admission of a candidate to the undergraduate program may be cancelled if any material information provided is found to be incorrect, he/she does not pay the fee by the given date, or does not report on the announced day for registration. The Institute reserves the right to extend the date of reporting and date of depositing fee in case of genuine reasons.
- (2) The admission of a student may be cancelled by the Senate even at a later date if it is found that the student had supplied some false information or suppressed relevant information while seeking admission.

Foreign Students

Some seats may be reserved for foreign students. These are usually supernumerary, and admission for them is handled separately. The number of seats and the process for application and admission are described in the prospectus every year.

Non-degree Students

A non-degree student is a student registered for a degree in a recognized university/ institute in India or abroad and who is officially sponsored by that Institute/university to complete part of the academic requirements at IIT-Delhi. Such students may do courses or projects in IIT-D, and will be given transcripts for the academic work carried out at IIT-Delhi. During their stay at IIT-D, such students will also be governed by all academic and disciplinary rules of IIT-Delhi. Credits earned by a non-degree student at IIT-Delhi cannot be applied towards any degree/diploma offered by IIT-Delhi at any time. The admission to non-degree status is decided on a case to case basis. The applications are received by the Dean, Academic Affairs.

4 Courses and Credits

- (1) Every semester the Institute offers some courses, taught by faculty appointed by it.
- (2) A course may be of 4, 2, or 1 credit. A registered student who passes a course earns the credits assigned for that course.
 - a) **A 4-credit course.** The course will have 3 hours of lectures per week, with a total of about 39 hours of lectures (13 weeks). In addition, one hour of interaction per week is expected, which may be in form of structured tutorials. There may also be labs in the course.

- b) **A 2-credit course.** The course will have 1.5 hrs lectures per week for the whole semester, or 3 hrs. lectures per week for half the semester. The total lectures hours will be about 20. Intensive short-term courses of 2 credits are also possible, though it is expected that the duration of such a course will not be less than 3 weeks. A 2-credit course may or may not have tutorials and labs.
 - c) **A 1-credit course.** The course is likely to be run as a short course on a very specialized topic. Such courses may also be run during vacations. A 1-credit course will have a total of about 10 hours of lecture over a period of, generally, not less than 2 weeks.
 - d) Certain courses such as self growth, community work, may be taken for variable number of credits.
- (3) While taking courses in the Institute is the primary means for a student to earn credits, there may be other approved provisions for earning credit through projects, studying in other Institutions and transferring credits, etc. Such provisions will be provided in these or other regulations.

Online Courses

IIIT-Delhi has evolved a system for allowing students to take online courses. Students can take advantage of the increasing amount of such courses made available by reputed universities across the world to complement the courses offered in the institute.

Form for online course is available at the following link:

<http://www.iiitd.ac.in/sites/default/files/docs/education/online-course-application.pdf>

5 Registration

1. At the beginning of each semester, a student shall register for the courses he/she wishes to take in that semester. A student shall normally be allowed to register for a course only if he/she has passed all the necessary pre-requisites for that course.
2. Registration is compulsory for all students who are not on leave of absence, and is the sole responsibility of the student and must be completed before the last date of registration. Failure to register may lead to termination of the program of the student for that semester.

5.1 Registration Procedure

- (1) Registration will generally be done just before the start of classes in a semester. Pre-registration for a semester can be done toward the end of the previous semester. Students will be informed about these dates and other details every semester.
- (2) Registration process has two parts: academic, and administrative and both must be completed in order to complete the registration process. Academic registration includes

specifying the courses that the student wishes to do in the semester and getting the necessary approvals. Students can seek advice from Advisors nominated for the purpose by Dean of Academic Affairs. Administrative part includes paying all dues to the Institute.

5.2 Late Registration

Late registration is permitted as per academic calendar on the payment of late registration fee. The late fee may be waived if the delay is due to an academic activity undertaken with prior permission. The number of days missed due to late arrival shall be treated as leave of absence. A fee for late academic registration may be imposed.

5.3 Pre-registration of Courses

Pre-registration is necessary part of the academic registration for non-first semester students. In case a student fails to do pre-registration of courses, a penalty may be imposed if the student does not register his/her preference within the stipulated period.

5.4 Adding or Dropping of Courses

A student can change the courses that he/she does in a semester by adding and dropping courses till the last date for add/drop as specified in the academic calendar. In addition, a student can withdraw from at most one elective course up to the last date specified in the academic calendar, which will normally be after the mid-semester examination. During the summer term, a student may be permitted to drop one course any time.

5.5 Registration of Students with Backlogs

A student has a backlog if he/she has not taken or has taken but failed in course(s) of previous semester(s). The registration of such a student must be approved by the DOAA who will advise the student. Generally, the student should register in a manner that he/she can clear as many backlog courses as are available.

5.6 Cancellation of registration

A student is solely responsible to ensure that all conditions for proper registration are satisfied, and there are no timetable clashes. The registration may be cancelled by DOAA for a course if any irregularity is found at a later stage. A student's registration for the semester may be cancelled as part of disciplinary action. Leave beyond permissible limits may also result in cancellation of registration for a semester.

5.7 Summer term registration

Registering in the summer term is optional. A student may register for up to 8 credits of courses that are offered during the summer term. Out of this 8 credits a student may be allowed up to 4 credits for IP/IS/UR/BTP except that students of the graduating batch may be allowed up to 8 credits for BTP. The registration shall be done just before the start of

the term. There will not be any late registration in the summer term and a student shall not be allowed to add a course after registration.

5.8 Academic Load

Normally students will take courses as per the program. Normal load for a semester is 16 to 20 credits. An overload is defined as when a student takes more than 20 credits in a semester. An underload is defined as when the student registers for less than 16 credits in a semester. A student may be allowed, with permission of the Dean, Academic Affairs (DOAA) an overload of up to 4 credits in a semester. Students in the Honors program are allowed 4 credit overload in one semester during the last four semesters of their program, without needing permission for the same. Students under warning or with weak academic record may not be permitted any overload. Such students may be advised by DOAA to take an under-load. Under-load for other students may be permitted by DOAA. A student can also take an underload. For a load of 12 to 16 credits, no permission is necessary; a lesser load may be allowed with permission.

6 Teaching and Evaluation

6.1 Teaching

Each course is conducted by the Instructor-in-charge with the assistance of tutors and/or teaching assistants. The Instructor-in-charge is responsible for conducting the lectures, tutorials, and labs, holding the tests and examinations, evaluating the performance of the students, awarding grades at the end of the semester/summer term, and transmitting the grades to the DOAA's office within the prescribed time limit.

6.2 Continuous Evaluation System

- (1) The Institute follows a system of continuous evaluation, in which, during a course, various instruments like tests, exams, assignments, projects etc. are given by the instructor to assess the learning of students and assign grades. All evaluations are the responsibility of the instructor in-charge of the course. The two main exams – the mid-sem exam and the end-semester exam – shall normally be scheduled as per the academic calendar while the schedule of the rest will be decided by the Instructor. For 1 or 2 credit courses, the Instructor will decide the evaluation criteria and the schedule of tests and exams.
- (2) **Make-up Exam.** If a student, for valid reasons such as illness, etc., fails to appear in the end-semester examination in one or more course(s), he/she may make a request to the instructor for a make-up examination within two days of the date of the scheduled examination. Such a request must, however, be supported by proper documentary evidence for justifying the request. For medical reasons, a doctor's certificate is needed, which must be appropriately countersigned by a parent. Only one make-up examination, for the end-semester examination, is allowed per course. For failures to appear in mid-semester examinations, etc., it is entirely up to the Instructor to ascertain the proficiency of the

student by whatever means he/she considers appropriate if he/she is satisfied with the reason(s) of absence given by the student.

6.3 Grading Scheme

- (1) One of the letter grades given in the following table shall be awarded to a student reflecting his/her overall performance in a course. Each letter grade carries certain points as given in the table, and these points are used in the computation of the SGPA/CGPA as explained later.

Letter Grade	Points	Remarks
A+ (Outstanding)	10	Letter grades A+ to F and I are given only in the regular courses. This grading scheme is effectively A to F; A+ is only to recognize excellent performers in a course – it has same points as A.
A (Very Good)	10	
A(-)	9	
B (Good)	8	
B(-)	7	
C (Satisfactory)	6 points	
C(-)	5 points	
D (Marginal)	4 points	
F (Fail)	2 points	
I (Incomplete)	Nil	Incomplete (I grade must be converted to one of the letter grade (A to F) as per the academic calendar
S (Satisfactory)	Nil	S and X are grades for only certain kinds of courses like Audit course.
X (Unsatisfactory)	Nil	
W(Withdrawal)		“W” grade shall be printed in the transcript of the students who do ‘Late Drop’.

- (2) In the academic courses, the final grades awarded are A to F (A+ is a grade with same points as A, and is there to honor excellence).
- (3) An I (Incomplete) grade may be awarded in cases when all the requirements for a course are not met by the student at the time of submission of grades, and essentially reflects an “incomplete” status in the course. This grade must be converted to a regular letter grade (A+ to F) before the registration date of the next semester. For courses other than project / independent study, I is meant primarily for medical reasons. All unconverted I grades get automatically converted to F after the grade conversion deadline.
- (4) In certain courses, such as self-growth and community service courses, only S or X grade is awarded.
- (5) The F and X grades are “fail” grades and the student shall be required to repeat the course. If the course is a compulsory course, the same course shall be repeated in another

semester/summer when the course is offered. In the case of an elective/optional course, the student can replace the course by another elective course.

- (6) For at most one compulsory course, after getting an F twice in the course, a student may be allowed to replace it by an elective course with the permission from DOAA.
- (7) An F and X grade obtained in any course shall be reflected in the grade sheet. However when the course is replaced or repeated, the new grade will be used for computation of the CGPA. 'F' grade shall not be counted in the calculation of CGPA, however, it is counted in the calculation of SGPA.

6.4 Change of Grade Already Awarded

As mentioned in Ordinances, a letter grade once awarded shall not be changed unless the request is made by the Instructor-in-Charge of the course and is approved by the Chairman, Senate. Any such request for change of grade must, however, be made within four weeks of the start of the next semester with all relevant records and justification.

6.5 Grade Improvement

For some important core courses, refresher modules may be offered during vacations for students' benefit. Students who got a low grade earlier in the course, may be allowed to enroll in these and based on their performance in the refresher module, their grade may be improved by at most one letter grade. Decision regarding whether these modules are to be offered during vacation and whether they may be used for grade enhancement will be taken every year. As with a grade change, this grade improvement will be approved and authorized by Chairman, Senate.

6.6 Performance Indicators

- (1) The semester performance is indicated by a Semester Grade Point Average (SGPA) which is a weighted sum of all the points earned in the courses done in a semester. The SGPA is given for each semester and is computed using the following formula.

$$SGPA = (u_1.w_1 + u_2.w_2 + \dots + u_n.w_n) / (u_1 + u_2 + \dots + u_n)$$

where u_i is the number of credits for the course i and w_i is the points earned through the letter grade in that course, and n is the number of courses taken in the semester. While doing the computation of SGPA, the course/thesis credits with grades S and X are ignored.

- (2) The overall performance is indicated by a Cumulative Grade Point Average (CGPA) which is computed in the same manner as the computation of SGPA but for all the courses done in the program.

'F' grade shall not be counted in the calculation of CGPA, however, it is counted in the calculation of SGPA.

- (3) A grade report for the semester is issued to each student after the semester. The grade report may be withheld if the student has not paid the fees or other dues, has a disciplinary case pending against him/her, has not completed other formalities, or for any other pertinent reason.

6.7 Waiver and Transfer of Credits

Students may be permitted to do academic work and courses in places of repute outside IIT-Delhi. Based on their performance/quantum of work done and the contents of the course/work, some credit requirements may be waived for similar courses/projects. Institutions with which IIT-D has arrangements/MOU/student exchange programs, transfer of credits may also be permitted. This transfer/waiver of credits will be done on a case-by-case basis by the DOAA, and will be reported to the Senate.

7 Continuing in the Program

For continuing in the undergraduate program the student has to show satisfactory academic performance as may be defined by the Senate from time to time. If the academic performance falls short, a student may be asked to repeat the first year, placed under warning, or his/her program may be terminated.

7.1 Rules for the first year

- (1) A student will be put on probation at the end of the 1st semester, if he/she passes 2 or less CSE/Maths/ECE courses in the first semester.
- (2) If a student passes 3 or less CSE/Math/ECE courses in the entire first year, his/her program will be terminated.
- (3) If a student passes 4 or 5 CSE/Math/ECE courses only in the entire first year, he/she will have to repeat the year.
- (4) If a student repeating the first year fails in more than 1 CSE/Math/ECE courses in the first semester of the repeat year, his/her program will be terminated.
- (5) A student repeating the first year may be allowed transfer of credits for the non CSE/Maths/ECE courses that he/she had passed in his/her previous attempt.
- (6) A student is allowed to move to 2nd year standing, if he/she passes at least 6 of the CSE/Math/ECE courses of the first year. Regular rules for backlog will apply for any courses he/she may have failed.

7.2 Academic Warning/Probation

A student shall be placed under academic warning/probation on the grounds of inadequate academic performance for one (subsequent) semester

- (1) If he/she fails in any course in a semester
- (2) If he/she gets an SGPA of 4.5 or less in a semester, or has a CGPA of 4.5 or less at the end of the semester.

The following will apply to a student who is placed on a warning (academic as well as warning due to disciplinary reasons):

- (1) The student will not be allowed to hold any elected or nominated post for any institute body including the hostel management, students' activities, student council.
- (2) The student will not be allowed to participate in any events outside the Institute as member of the Institute team.
- (3) No academic overload shall be permitted to such students.
- (4) The students may be required by the DOAA to take an under load.
- (5) The student will be required to sign an undertaking to agree and follow all stipulated conditions of warning. All such undertakings shall be countersigned by parent/guardian of the student.

7.3 Attendance and Leave of Absence

- (1) A student is expected to attend all classes. For any absence of more than two days, the student should apply for and take a leave of absence. Penalty for students' whose attendance falls below a threshold will be as decided by Senate from time to time, and communicated to students.
- (2) A student may be allowed to take semester leave, with permission, on account of exchange program or medical reasons. (No fee refund is admissible if the student has registered for the semester which is converted to a semester leave later.) Usually, a student shall not be permitted more than two semester leaves in the entire program. Any circumstances leading to more than two semester leave/drop may result in automatic termination of the program (like any termination, the student may appeal.)
- (3) If a student is absent from the Institute for more than 20 days in a semester due to medical or any other reason, this may be converted to a semester leave for that semester by DOAA.

However, if a student represents IIIT-D in some event, with prior permission of Dean of Students Affairs, absence due to this participation will not be counted.

7.4 Appeals

A student, whose program has been terminated, may appeal against the decision. All such appeals shall be made to the Academic Senate within two weeks, and the decision of the Academic Senate shall be final. Other academics related appeals may be made to UGC.

7.5 Branch Transfer

Branch transfer from CSE to ECE or ECE to CSE is possible only after the grades of the second semester are out. A student must make an explicit request to be considered for branch transfer. Rules for branch transfer are:

- The total number of students permitted branch transfer is limited to the extent of 10% of the existing strength (i.e. at the time seeking the applications) in any discipline excluding the repeaters.
- To be eligible for transfer from ECE to CSE: a B- or better grade in DSA and IP and no F in the entire first year.
- To be eligible for transfer from CSE to ECE: a B- or better grade in DC, Basic Electronics, Math1 and PS (Math2), and no F in the entire first year.
- The students eligible for branch transfer will be ordered in a priority list based on CGPA, and will be granted transfer in order as long as the rule about strength given above is not violated.

7.6 Migration to Dual Degree Program

A B.Tech student can opt to migrate to dual degree program of the institute anytime before the last date of Add/Drop of his/her 7th semester of the BTech program. Eligibility criteria and regulations for the dual degree program are given separately.

8 Graduation Requirements and Award of Degree

8.1 Minimum and Maximum Duration and Credits

The minimum duration for completing the BTech program is 8 semesters. The minimum number of credits for a BTech program is 152. The maximum duration within which the requirements must be completed is six years (12 semesters).

8.2 Graduation Requirements

A student enrolled in a BTech program is eligible for graduation if he/she:

- a) Fulfils all academic requirements of the BTech program in which he/she is enrolled, as given in the regulations for that program.
- b) Has completed a minimum of eight semesters in the program.
- c) Paid all dues to the Institute and hostels.
- d) Has no disciplinary proceedings pending against him/her.

A student who has completed all the graduation requirements may be recommended for award of the degree.

8.3 Graduating with Honors

A student enrolled in a BTech program may also graduate with Honors, provided the student completes all the additional requirements for Honors, as specified by the regulations for the program in which he/she is enrolled. These additional requirements normally should include:

- a) The student earns at least 12 extra credits.
- b) The student's program includes a BTech project .
- c) The student has a CGPA of 8.0 or more at graduation.

8.4 Graduating with a Minor

A student enrolled in a BTech program may also take a minor in some other area. Requirements for a minor in an area will be as stated in regulations for that minor. A student can graduate with a minor if he/she satisfies the requirements for his/her program as well

as requirements for the minor. Requirement for each approved minor will be specified separately. BTP cannot be done in the minor area.

8.5 Award of Degrees

- (1) A student who completes all graduation requirements is recommended by the Senate to the Board of Governors (BOG) for the award of degree in the convocation.

Upon a satisfactory report from the Dean, Academic Affairs, the Academic Senate may recommend the award of the BTech degree to the student. While pending the actual award of the degree in a regular convocation of the Institute, the Dean of Academic Affairs may authorize the Registrar to issue a provisional certificate to a student who completes the requirements for graduation.

- (2) The date on the degree shall be as follows:

May 21 for the students who finish their requirements during the winter semester (e.g. 8th semester of BTech)

Aug 21 for those who finish the requirements during summer term

Dec 21 for those who finish the requirement during the Monsoon semester

- (3) As mentioned in ordinances, under extremely exceptional circumstances, where gross violation of the graduation requirements or use of dishonest means is detected at a later stage, the Senate may recommend to the Board of Governors to withdraw an already awarded degree.

8.6 Convocation

Normally the convocation will be held in the second half of August.

A student who has completed all graduation requirements since the last convocation can receive the degree in the convocation. In case the convocation is delayed, students who are expected to finish the requirements soon, may also be allowed to participate in the convocation.

The results of the students who complete the degree requirements in December may be verified and put up to Chairman, Senate who is authorized to approve on behalf of Senate. The Degree and the scroll of such students may then be got signed from the Chairman, BoG. The approval so accorded by the Chairman, Senate may be reported to the Senate for ratification in the due course.

8.7 Prizes and Medals at Graduation

The academic senate of the institute can set up awards, prizes, medals etc. to be given to deserving students during the Convocation.

Under exceptional circumstances, where gross violation of the conditions of the awards/recognition or academic misconduct is detected at a later stage, the Senate may recommend to the Board of Governors to withdraw the award and recognition.

9 Disciplinary Action

IIT-Delhi maintains global academic standards in its own education system. Therefore, it does not tolerate any form of indiscipline/ academic dishonesty. Action will be taken against students found engaging in acts of indiscipline/ academic dishonesty by the Disciplinary Action Committee (DAC), constituted by the Director. The disciplinary action may result in semester/year/two year drop or even expulsion from the Institute. Separate rules and regulations have been formulated to handle the cases of violations.

10 Power to Modify

Notwithstanding all that has been stated above, the Senate has the right to modify any of the above regulations from time to time.

Change History

V 2.0 of the UG Manual, applicable from 2010. Main changes: Organized as Ordinances and Regulations; Minimum credit requirement for graduation increased to 152. Repeat rules for first year changed assuming 10 courses in first year.

Version 3.0 (July,2013): Main Changes made:

Enabler to Ordinances

UGC as a body defined and included

Admission – clarified about the “number of seats”, admission criteria, about foreign students

Added “Pre Registration”

Underload defined, along with rule for how a student can go on underload

Grading scheme clarified – made similar to PG

Rule for Grade Improvement added

Rule for Branch Transfer added

Rule for Migration to Dual degree added

“Graduating with Minor” added

Dates for degrees specified in “Award of Degrees”

A small note on “Disciplinary Action” added

Small changes elsewhere: Penalties for late registration, etc

Also some reorganization for improved clarity and organization

Version July, 2014: Main Changes made are:

- (i) Procedure to award degree to students who complete requirements in December
- (ii) Registration of Online courses
- (iii) CGPA calculation
- (iv) Reduction of grade due to shortage of attendance
- (v) Revision of criteria for branch transfer
- (vi) Revision of structure of minor

Version July, 2015:

- (i) Changes in Attendance rules
- (ii) Change in branch transfer rule