

Ordinances and Regulations

for

UNDERGRADUATE PROGRAMME 2023



(Applicable from 2023 Batch Onwards)

DR B R AMBEDKAR
NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR - 144008
(An Institute of National Importance)



B.TECH. ORDINANCES

O.1	All B.Tech. programmes offered by the Institute shall be governed by the B. Tech. Rules and Regulations.																																
O.2	The B.Tech. rules and regulations shall be applicable to any new discipline(s) under these programmes that may be introduced in future.																																
O.3	A student becomes eligible for the award of the B.Tech. degree after fulfilling all the academic requirements and extra-academic activities as prescribed by the B.Tech. Rules and Regulations.																																
O.4	The Academic departments involved in running the various B.Tech. programmes and the different disciplines in which B.Tech. degrees are currently offered, are as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Departments</th><th style="text-align: left;">B.Tech. Programmes</th></tr> </thead> <tbody> <tr> <td>1. Bio Technology</td><td>▪ Bio Technology</td></tr> <tr> <td>2. Chemical Engineering</td><td>▪ Chemical Engineering</td></tr> <tr> <td>3. Civil Engineering</td><td>▪ Civil Engineering</td></tr> <tr> <td>4. Chemistry</td><td>-----</td></tr> <tr> <td>5. Computer Science and Engineering</td><td>▪ Computer Science and Engineering ▪ Data Science and Engineering</td></tr> <tr> <td>6. Electrical Engineering</td><td>▪ Electrical Engineering</td></tr> <tr> <td>7. Electronics and Communication Engineering</td><td>▪ Electronics and Communication Engineering ▪ Electronics and VLSI Engineering</td></tr> <tr> <td>8. Humanities and Management</td><td>-----</td></tr> <tr> <td>9. Instrumentation and Control Engineering</td><td>▪ Instrumentation and Control Engineering</td></tr> <tr> <td>10. Mathematics</td><td>-----</td></tr> <tr> <td>11. Industrial and Production Engineering</td><td>▪ Industrial and Production Engineering</td></tr> <tr> <td>12. Information Technology</td><td>▪ Information Technology</td></tr> <tr> <td>13. Mechanical Engineering</td><td>▪ Mechanical Engineering</td></tr> <tr> <td>14. Physics</td><td>-----</td></tr> <tr> <td>15. Textile Technology</td><td>▪ Textile Technology</td></tr> </tbody> </table>	Departments	B.Tech. Programmes	1. Bio Technology	▪ Bio Technology	2. Chemical Engineering	▪ Chemical Engineering	3. Civil Engineering	▪ Civil Engineering	4. Chemistry	-----	5. Computer Science and Engineering	▪ Computer Science and Engineering ▪ Data Science and Engineering	6. Electrical Engineering	▪ Electrical Engineering	7. Electronics and Communication Engineering	▪ Electronics and Communication Engineering ▪ Electronics and VLSI Engineering	8. Humanities and Management	-----	9. Instrumentation and Control Engineering	▪ Instrumentation and Control Engineering	10. Mathematics	-----	11. Industrial and Production Engineering	▪ Industrial and Production Engineering	12. Information Technology	▪ Information Technology	13. Mechanical Engineering	▪ Mechanical Engineering	14. Physics	-----	15. Textile Technology	▪ Textile Technology
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B.TECH. RULES AND REGULATIONS

ACADEMIC YEAR	
R1.1	Academic Year of the Institute continues for a period, generally from July to June of the next year, as defined in the Academic Calendar. Each Academic Year comprises two regular Semesters: Odd semester (July to December) and Even semester (January to June). Each semester is of approximately 18 weeks duration (with at least 80 working days in a semester)
ACADEMIC CALENDAR	
R2.1	The Academic Calendar of the institute defines the exact dates of all the important events, such as orientation, registration dates, last date for applying for additional B.Tech. programmes, commencement of classes, Mid-semester and End-semester examinations, vacation, etc., during the Academic year and is approved by the Senate.
ADMISSION	
R3.1	Admission to any undergraduate B.Tech. programme requires that the applicant be eligible, go through the laid-down admission procedure, and pay the prescribed fees.
I.	Admission through JoSAA Admissions to the B.Tech. programmes of the Institute are carried out each year on the basis of performance of the students in the Joint Entrance Examination (JEE-Main) by common counseling through Joint Seat Allocation Authority (JoSAA). For admission to the B. Tech. programmes, the Institute shall follow the reservation policy as notified by MoE, Govt. of India from time to time.
II.	Admission under DASA Programme Direct Admission Students who are foreign nationals either residing in India or abroad, or Indian nationals residing abroad may be admitted to UG programme under the Direct Admission Students Abroad (DASA) scheme according to the policy guidelines laid down by the MoE Govt. of India from time to time. A few admissions are also given through the Ministry of External Affairs based on self-financing scheme as decided by the MoE Govt. of India from time to time.
III.	Admission under Cultural Exchange Programme A few admissions are offered under the Cultural Exchange Fellowship Programme of the Government of India, administered by the Indian Council of Cultural Relations (ICCR), New Delhi through the Ministry of External Affairs as decided by the MoE, Govt. of India from time to time. For these admissions, the candidates are required to apply through the Indian High Commission/Embassy in their respective countries.



IV.	Admission under Study in India Programme A few admissions are offered under the Study in India Programme for the foreign students under Government of India Scheme to Study in India.
R3.2	The number of seats in each branch of the undergraduate programme for which admission is to be made in NIT Jalandhar will be decided by the Senate of NIT Jalandhar.
R3.3	If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission, the Dean Academic may revoke the admission of the candidate and report the matter to the Senate.
R3.4	The Institute reserves the right to cancel the admission of any student and ask him/her to discontinue his/her studies at any stage of his/her career on the grounds of unsatisfactory academic performance or on disciplinary grounds. The criteria for the former will be governed by these Rules and Regulations, while the criteria for the latter will be governed by the Rules and Regulations of the Ordinance on Code and Conduct of Students.
R3.5	The Institute will follow the fee refund policy as notified by the Government of India from time to time.

REGISTRATION

R4.1

Every student is required to register in each semester for the approved courses through the assigned Academic Counselor within the time frame notified in the academic calendar. No credit is given to the student who attends a course without a formal registration. Registration is a mandatory procedural part of the academic system which includes payment of Institution Fees and Academic registration.

I. **Payment of Fee:** Payment of Fee is essential for completing the registration process. Following rules shall be applicable for payment of fee:

Normal Registration	Before Start of classes	Without late fee fine
Late Registration	Within 01 week of the Start of Classes	With late fee fine as per Institute norms
	Within 02 weeks of the Start of Classes	
Special Registration*	Within 02 months of the Start of Classes	Without late fee fine

* **Special Registration:** Those students who deposit their fee either through Loan/State Government Credit Card Scheme/Scholarship, etc. may apply for extension for fee submission date if their finances are delayed. Requests of students who are unable to pay their fees by the stipulated deadline due to severe financial crisis may also be considered subject to verification of their claims. The request of such students will be approved by Dean Academic. Such students may submit their fee at a later date as per the time limit sought by them but such time limit shall not exceed more than two months from the date of the start of classes.



	The guidelines of fee structure required for registration are placed in Appendix-A. Any exceptional approval after this date will be under the purview of Chairman, Senate. II. Academic registration: Each student needs to complete the Academic Registration through online ERP portal within the time frame as notified in the academic calendar. Even for those students who fall under the cases of Late Registration/ Special Registration, Academic Registration and attending the classes is mandatory from the due date as per academic calendar. The attendance requirements of 75% will not be relaxed for such cases and the same will be counted from the date of start of the class.
R4.2	Only those students will be permitted to register who have: I. cleared all Institute, Hostel and Library dues and fines (if any) of the previous semesters, II. paid all required advance payments of Institute and Hostel dues (for hostellers) for the current semester, and III. not been debarred from registering on any specific ground.
R4.3	During registration following conditions must be fulfilled: I. For registering in the 3rd/5th/7th semesters, a student needs to successfully complete a minimum number of credits in the preceding semesters. The details of the minimum credit requirements for registering in the 3rd/5th/7th semesters are placed in Appendix-A. II. The number of credits registered for during a semester should not exceed 32.
R4.4	Registration for Additional courses is to be done along with the registration of regular semester courses through online institute ERP portal.
R4.5	Registration for Summer Contact courses/Supplementary Exam is to be done as per schedule notified in the Academic Calendar through institute ERP portal.
R4.6	A student securing 'E' grade is allowed to improve the grade by re-registering for the course as Additional course(s), provided, the course(s) is/are being offered therein. However, only one attempt will be allowed for each course.
R4.7	For Registration of each Additional course/ Summer Contact course, the student is required to pay the course fee as per Institute norms.
R4.8	When a student re-registers for a course, in accordance with clause R4.6, the better of the two grades (the old and the new) in the course will be considered towards calculation of SGPA and CGPA.
SEMESTER WITHDRAWAL/ CANCELLATION	



R5.1	A registered student can apply [Form UG-3] for withdrawal from the semester on medical grounds/ other special circumstances. Approval of Dean Academic is required for withdrawing from a semester. In case of withdrawal from a semester, a ‘W’ grade shall be awarded in all courses of that semester. Such applications must be made as early as possible and latest before the start of the End-semester examinations. No application for semester withdrawal will be considered after the End-semester examination have commenced. Each application for semester withdrawal will be examined by the Dean Academic and depending on the merit of the case, an appropriate recommendation will be made. However, fee paid for the semester will not be refunded. The fee shall be adjusted against the semester registration fee when such student registers for the same semester again.
R5.2	The Dean academic can cancel the semester registration due to disciplinary or any such proceeding against the student. The Senate approval will be required for cancellation of semester. An ‘X’ grade shall be awarded in all courses of that semester. Fee paid for the semester will be forfeited.
COURSE(S) WITHDRAWAL/CANCELLATION	
R6.1	A student can withdraw from one or more registered Additional courses in a semester before the last date as announced in the academic calendar [Form UG-3]. (This date will be normally one week after the Mid-semester examinations). The course(s) will be removed from the list of registered courses for that student for that semester.
R6.2	The Dean academic can cancel the registration in one or more courses of a student due to disciplinary or any such proceeding against him/her. An ‘X’ grade shall be awarded in those courses.
TERMINATION FROM PROGRAMME	
R7.1	A student is required to leave the Institute on the following grounds: I. If a student is absent for more than 6 (six) weeks in a semester without intimation, his/her name will be struck off the rolls II. A student may also be required to leave the Institute on disciplinary grounds. III. On having been found to have produced false documents or having made false declaration at the time of seeking admission IV. On having been found to be pursuing regular studies (leading to degree or diploma) in any other college, university or an educational institution without approval. V. On having been found to be concurrently employed and performing duty or carrying out business in contravention to academic schedules of the Institute without approval from the Institute
ATTENDANCE	
R8.1	All students must attend every lecture, tutorial and practical class. The Institute desires 100%



	attendance. However, a minimum attendance requirement of 75% is compulsory for appearing in the End-semester examination.										
R8.2	A student with less than 75% attendance in a course during a semester will be awarded 'L' grade in that course and attendance grade of 'LL'.										
R8.3	The percentage of attendance will be indicated in the Detailed Mark-sheet as attendance grade in terms of code letters as follows: <table border="1"> <thead> <tr> <th>Attendance rounded to</th><th>Attendance Grade</th></tr> </thead> <tbody> <tr> <td>95% and above</td><td>HH</td></tr> <tr> <td>85% to less than 95%</td><td>HL</td></tr> <tr> <td>75% to less than 85%</td><td>LH</td></tr> <tr> <td>Below 75%</td><td>LL</td></tr> </tbody> </table> A student who has attendance grade 'LL' will not be allowed to sit for the End-semester examination in the course in which the shortfall exists. Chairman, Senate can condone the attendance requirements to a student to the tune of 10% beyond the minimum required attendance of 75% for appearing in the end semester examination on the recommendations of DUGC/DPGC of the Department. However, the DUGC/DPGC shall ensure that the request of the student is under special circumstances i.e. Medical reasons, other reasons beyond the control of the student etc. and not general circumstances.	Attendance rounded to	Attendance Grade	95% and above	HH	85% to less than 95%	HL	75% to less than 85%	LH	Below 75%	LL
Attendance rounded to	Attendance Grade										
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85% to less than 95%	HL										
75% to less than 85%	LH										
Below 75%	LL										
R8.4	For all female students the minimum attendance requirement for appearing in the Institute examinations is 73%, in compliance with the recommendations of Ministry of Women & Child Development (MWCD) regarding "Menstrual Leave" for female students										
CONDUCT AND DISCIPLINE											
R9.1	Students shall conduct themselves within and outside the precincts of the Institute in a manner befitting the students of an institution of national importance. The Institute has a separate Ordinance for Code and Conduct of Students which is applicable to all students of the Institute.										
COURSE STRUCTURE											
R10.1	All courses defined in the curriculum have a lecture-tutorial-practical (L-T-P) component to indicate the contact hours. E.g. a theory course in Digital Electronics has structure (3-1-0), indicating that there will be 3 lectures and 1 tutorial in a week, a separate laboratory course Digital Electronics has structure (0-0-2), indicating that there will be one Practical class of 2 hours in a week.										



R10.2	Each course has a certain number of credit(s) assigned to it depending upon its lectures/tutorials/practical contact hours as mentioned below: • Lectures/Tutorials: One lecture/tutorial hour per week over the period of one semester is assigned one credit. • Practical/Project: One practical/project work of two hours per week over the period of one semester is assigned one credit.
R10.3	In order to qualify for a B. Tech. degree of the Institute, a student is required to complete the credit requirements as prescribed in the curriculum for a particular programme. In addition, a student may also qualify for his/her Major degree with Minor by earning additional credits. For details related to Minor, refer to clause R20. Detailed UG programme curriculum structure is appended at Annexure-1.
R10.4	The course work requirements may be broadly divided into following categories: • Foundation Courses (FC) • Foundation Electives (FE) • Department Core Courses (DC) • Department Elective/Generic Elective Courses (DE/GE) • Training • Project A student is required to earn the prescribed credits in all the above categories. Prescribed number of credits in FC, FE, DE/GE courses should be completed within the requirement of total 164 credits for the B.Tech. degree.
R10.5	Every B. Tech. Programme will have a curriculum and syllabi for the courses approved by the Senate. DUGC will recommend the syllabi of all the UG courses offered by the department in consultation with the Department Faculty Board (DFB) from time to time before sending the same to the Senate Undergraduate Committee (SUGC). The composition, tenure and functions of DUGC, SUGC, and DFB are indicated in Appendix-B.
R10.6	A student can earn extra credits by registering in courses outside his prescribed curriculum of Major/Minor discipline. Such additional credits, however, will not be counted towards fulfilling the minimum credit requirements of his/her major/minor programme.
EXAMINATIONS AND EVALUATION	
R11.1	- In case of theory courses, the evaluation will be based on the internal continuous assessment, the Mid-semester examination and the End-semester examination. The Mid-semester examination and the End-semester examination shall be coordinated by the Academic section. - For laboratory based courses, the evaluation will be done on the basis of continuous internal assessment along with End-semester examination. The weightage assigned to different components of assessment can be found in Appendix-C.



	III. Project evaluation will be based on the internal continuous assessment by the project guide, Mid-semester review, and End-semester viva-voce examination. The Mid-semester review and the End-semester viva-voce examination will be conducted by a committee constituted by the Head of the Department IV. For Industrial Training and Summer Internship, evaluation will be based on the assessment by the respective Industry (Proforma-1), report submitted by the student, and presentation and viva-voce examination by the assessment committee formulated by the Head of the Department.
R11.2	A student must secure minimum 30 % in End-semester examination and 40% cumulatively to clear any course.
MAKE-UP EXAMINATIONS	
R12.1	Students who are unable to appear in their Mid-semester examination on grounds of medical emergency/or any other special circumstances can apply for the Make-Up examination [Form UG-4]. The Make-Up examination shall be held after the End-semester examination and the exam shall cover full syllabus of the course. The dates for Make-Up examination (03 consecutive days) will be notified in the Institute Academic calendar. A fee as specified by the Institute shall be charged for appearing in the Make-Up examination. Detailed guidelines are available in Appendix-D.
GRADING SYSTEM	



R13.1

The student is awarded a letter grade in each registered course, based on his/her performances evaluated through a prescribed scheme of evaluation. The letter grades and the corresponding grade points along with description of performance are as follows

Letter Grades	Grade Point	Description of performance
S	10	Outstanding
A	09	Excellent
B	08	Very Good
C	07	Good
D	06	Average
E	05	Marginal
U	01	Unsuccessful but with satisfactory attendance
I*	-	Incomplete
L	00	Unsuccessful due to less than 75% attendance
X	00	Cancellation for disciplinary action
W	-	Withdrawal from Semester

* An 'I' grade denotes incomplete performance in any course due to absence in the End-semester examination because of extraordinary emergency situation. 'I' grade is to be converted into appropriate letter grade as per clause 13.4.

'L' grade award: Refer to clause [R8.2](#)

'X' grade award: Refer to clauses- [R5.2](#) and [R6.2](#)

'W' grade award: Refer to clause [R5.1](#)

R13.2

A student is considered to have completed a course successfully and earned the corresponding defined credits if he/she secures a letter grade other than U/I/L/X/W in that course.

R13.3

For awarding any grade (E and above) the student should score at least 30% marks in the End-semester examination. In case the student scores less than 30% in the End-semester examination, or remains absent in the End-semester examination, he/she will be awarded a 'U' grade.

R13.4

An 'I' grade denotes incomplete performance in any course due to absence in the End-semester examination because of extraordinary emergency situation. 75% attendance in a course is necessary for being eligible for request of 'I' grade in that course.

An application requesting an 'I' grade should be made at the earliest, but not later than two days after the End-semester examinations to the concerned Head of department through the concerned course coordinator. Depending on the merits of the case in discussions with concerned course coordinator, HoD will approve allotment of 'I' grade. An 'I' grade must be converted by the course coordinator into an appropriate letter grade after conducting the examination. The examination can be conducted any time after the allotment of 'I' grade but not later than 15 days after End-semester examinations, failing which it will be converted to U grade.



R13.5	The structure and guidelines for award of grades based on “absolute grading” method are given as under. <table><tr><td>Recommended Cut off Marks</td><td>Grades</td><td>Point</td></tr><tr><td>≥ 90</td><td>S</td><td>10</td></tr><tr><td>≥ 80</td><td>A</td><td>09</td></tr><tr><td>≥ 70</td><td>B</td><td>08</td></tr><tr><td>≥ 60</td><td>C</td><td>07</td></tr><tr><td>≥ 50</td><td>D</td><td>06</td></tr><tr><td>≥ 40</td><td>E</td><td>05</td></tr><tr><td>< 40</td><td>U</td><td>01</td></tr></table> For 20 or more number of students in a course, “relative grading” method may be adopted. The grading criterion is flexible to the recommendations of individual course coordinators with proper justification.	Recommended Cut off Marks	Grades	Point	≥ 90	S	10	≥ 80	A	09	≥ 70	B	08	≥ 60	C	07	≥ 50	D	06	≥ 40	E	05	< 40	U	01
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≥ 40	E	05																							
< 40	U	01																							
R13.6	The performance of a student will be evaluated in terms of two indices, viz, the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point of time. The SGPA is calculated on the basis of grades obtained in all courses of one semester, registered for in the semester. $SGPA = \frac{\sum(\text{Course credit} \times \text{Grade point})}{\sum \text{Course credits}}$ The CGPA is calculated on the basis of grades obtained in all completed semesters. $CGPA = \frac{\sum(\text{Course credit} \times \text{Grade point})}{\sum \text{Course credits of all registered courses}}$ A sample copy of Detailed Marksheet and corresponding SGPA/CGPA calculations are illustrated in Appendix-E.																								
R13.7	SGPA calculation of a semester will be done on the basis of Grade Points obtained in all the regular courses of that semester. For SGPA/CGPA calculations, the Grade Points of Additional courses for earning additional credits outside the prescribed curriculum shall not be included. However, grades awarded for Additional courses registered for earning additional credits outside the prescribed curriculum shall be shown on the Detailed Marksheet.																								
SUMMER CONTACT COURSE, SUPPLEMENTARY EXAM AND ADDITIONAL COURSE																									
R14.1	A Summer Contact course is conducted during the summer vacation (as notified in the Academic calendar). A student can register online through institute ERP portal for a Summer Contact course if offered. The DUGCs of respective departments shall display the list of Summer Contact courses to be																								



	offered in a summer break before the commencement of the End-semester examination of even semester. I. A student can register for course(s) as Summer Contact course(s) if he/she is awarded 'L'/'W' grade in those course(s). II. The maximum number of courses that can be registered as Summer Contact course in one summer break will be limited to 02 courses. However, students of the graduating batch whose academic programme is expected to be completed by the end of on-going semester (8th semester) may register for up to 03 courses. III. The total number of contact hours in any Summer Contact course will be the same as in the regular semester course (minimum 40 with maximum 2 hours per day). The assessment procedure for the Summer Contact course shall be the same as that for a regular semester course. IV. The students appearing for the Summer Contact course shall be awarded one grade less than the actual grade obtained in that course and the highest grade that a student can get through this option is 'D'. However, an 'E' grade shall remain as 'E'. The detailed guidelines for Summer Contact course are placed in Appendix-F1.
R14.2	Supplementary exam I. A student obtaining 'U' grade in a theory course may register for a supplementary exam in that course. The supplementary examination will be held within a duration starting after the 'Display of grades' after the regular end semester exams up to one week after the commencement of classes in the next semester. II. The maximum number of times a supplementary examination can be taken for each course is 02. If the student fails to clear the course in 02 supplementary chances, he / she will have to repeat the course as additional course with 75% attendance requirement. III. The grade will be decided only on the basis of the performance in this examination. However, attendance grade awarded in that course during the regular semester will be considered. The students opting for supplementary exam shall be awarded one grade less than the actual grade obtained and the highest grade that a student can get through this option is 'D'. However, an 'E' grade shall remain as 'E'. Appendix-F2
R14.3	A student can register online through institute ERP portal for Additional course(s) during regular semesters in addition to his/her prescribed curriculum courses, under the following cases: I. Students awarded U//L/X/W or 'E' grade in any course(s) can register for its respective Additional course(s). II. Students willing to earn additional credits outside their curriculum, provided, the course(s) is/are being offered therein. a. Refer to clause 4.3 (II) for maximum number of credits that can be registered for during a regular semester. III. L/X/W grade students have to attend classes and satisfy the attendance requirement. IV. The students with 'U'/'E' Grade will not be required to attend classes, but will have to



	participate in the entire course evaluation process. V. For an elective course in which U/L/X/W grade has been obtained, the student may take the same course or any other course from the same category. However, students with 'U' grade will have to attend classes if the elective course is changed. For the students with 'E' grade, the Additional course is an improvement chance. The maximum number of courses that can be registered as additional courses for students with 'E' grade will be limited to 06 courses during his/her entire B.Tech programme. The detailed guidelines for Additional Course are placed in Appendix-F3.
CHANGE OF BRANCH	
R15.1	A student admitted to a particular discipline of B. Tech. will normally continue in that discipline till completion of the degree. However, there is a provision for change of discipline of study of a student after the completion of the first two semesters (1st year) provided vacancies/vacancy exist(s) in discipline(s). The filling of vacancies for change of discipline shall be done category wise (General/OBC-NCL/Gen-EWS/SC/ST/PWD or any other category notified by the Ministry of Education, Govt. of India, New Delhi).
R15.2	A student is eligible to apply for change of discipline at the end of the first year through institute ERP portal (after 2nd semester) only, provided he/she satisfies the following criteria: - CGPA for General/OBC-NCL/Gen-EWS category students: greater than or equal to 7.50 in the first attempt. - CGPA for SC/ST/PWD category students: greater than or equal to 6.50 in the first attempt. - Earned credits at the end of the 1st year must be equal to the credits prescribed in the scheme of first and second semesters of their studies. - Any credits earned through summer contact course, shall not be considered for discipline change. - Change of discipline shall be made strictly on the basis of inter-se-merit of the applicants based on CGPA at the end of the first year to the limitation that - The actual number of students in the 3rd semester in the branch to which transfer is to be made, should not exceed the sanctioned strength, and - Maximum 10% registered students in 3rd semester of the discipline from which transfer is sought, will be allowed the change of discipline. - Ties will be broken by JEE (Main) rank of applicants
R15.3	After the upgradation of the branch, if the academic requirement of a B. Tech. student is not fulfilled as per the requirement for earning B. Tech. degree of the upgraded branch, the student is required to attend and qualify the necessary course(s). These courses need to be offered as - Credit based crash courses with the start of the third semester (in case a course is prerequisite of 3rd semester courses), or - during the winter vacation by the respective departments. The final CGPA of the upgraded students will be calculated on the basis of their grades obtained in the courses approved in teaching scheme of their upgraded discipline. Rules for summer contact



	courses will be applicable (Available in Clause R14). No separate fee will be charged for these courses.
ELIGIBILITY FOR THE AWARD OF B. TECH. DEGREE	
R16.1	A student would be eligible to obtain B. Tech. Degree, if he/she - Completes all the credit requirements for the degree programme (Theory, Laboratory, Training, Project etc.) - Obtains a minimum Cumulative Grade Point Average (CGPA) of 5.0 - Maximum duration of B. Tech. degree programme is 07 years - Has cleared all Institute, Hostel and Library dues and fines (if any) by completing No Dues Form [Form UG-6]
R16.2	The award of B. Tech. degree will be recommended by the Senate and approved by the Board of Governors of the Institute.
CONTINUATION FEE FOR CLEARING BACKLOGS	
R17.1	Pass out students who have completed 4 years /8 semesters of study and are carrying backlogs shall have to pay a continuation fee as defined by the Institute in addition to the fee for additional course(s) The students need to apply to Dean Academic and register for backlog courses online through institute ERP portal registration.
PROVISION FOR CGPA IMPROVEMENT FOR PASSED OUT STUDENTS	
R18.1	Passed out students of B. Tech. programme of the Institute can apply for improvement in their CGPA. A student can opt for improvement in CGPA only after the declaration of his/her 8th semester result and within seven years of his/her initial registration. The improvement has to be done through additional courses only. However, such students can apply for a maximum of 6 additional courses with fee as defined by the Institute. Only two such chances for each course can be availed by a student. The students need to apply to Dean Academic and register for the courses through online institute ERP portal
B.TECH. (HONOURS)	
R19.1	All B.Tech. students who have cleared all courses in first attempt with minimum duration of programme and secured 8.5 CGPA shall be provided B.Tech. (Honours) degree
B.TECH. WITH MINOR	
R20.1	Minor degree programmes are secondary areas of study that offer students to gain specialized knowledge and create opportunities in their career. This is a 4-year programme in which a student earns a Minor in the emerging areas of the same discipline or in an area offered by other departments in addition to the Major degree in the B.Tech. programme in which he/she is admitted. The Minor programme will start from the 3rd semester. The option for enrolment in Minor



	programme may be exercised by any student after the 2nd semester provided he/she has cleared 1st and 2nd semester without backlog. II. A student will be allowed to enroll for one Minor programme. Each Minor programme will be of 20 credits. III. The Minor programme courses should not be a repetition of any of the courses comprising the Major programme. IV. A fee per semester as defined by the Institute shall be charged. The programme detail of Minor scheme along with eligibility and application process are placed in Appendix-G.						
B.TECH. WITH RESEARCH							
R21.1	B.Tech. with research is a program in which a student earns additional 10 credits for rigorous research project work in his/her areas of study in addition to the Major degree of B.Tech. programme in which he/she is admitted. I. The option for enrolment in B.Tech. with Research may be exercised by any student after the 4th semester provided he/she has secured 8.0 CGPA and above without any backlog. II. All such B.Tech. students who have cleared their B.Tech. programme within the minimum stipulated duration along with fulfilling additional requirements of research work, in the entire duration of the programme, shall be provided B.Tech. with Research. III. The research project work will span across the last four semesters of the B.Tech. with Research programme and the 10 additional credits shall be distributed in 4 semesters. IV. A fee per semester as defined by the Institute shall be charged. V. The programme detail of B.Tech. with Research. scheme along with eligibility and application process is mentioned in Appendix-H.						
MULTIPLE EXIT/ MULTIPLE ENTRY							
R22.1	During the 4 Year degree programme, a student is allowed to take 2 exits. They will be awarded following certificates: <table border="1"> <thead> <tr> <th>Award</th><th>Minimum Requirement</th></tr> </thead> <tbody> <tr> <td>UG Certificate in Engineering stream</td><td>Successfully earned 50% Credits of Total Credits (50% of 164 = 82 Credits) Min 40 Credits from DC + 3 weeks Industrial Training</td></tr> <tr> <td>UG Diploma in Engineering stream</td><td>Successfully earned 75% Credits of Total Credits (75% of 164 = 123 Credits) Min 80 Credits from DC/DE + 3weeks Industrial Training + Project</td></tr> </tbody> </table>	Award	Minimum Requirement	UG Certificate in Engineering stream	Successfully earned 50% Credits of Total Credits (50% of 164 = 82 Credits) Min 40 Credits from DC + 3 weeks Industrial Training	UG Diploma in Engineering stream	Successfully earned 75% Credits of Total Credits (75% of 164 = 123 Credits) Min 80 Credits from DC/DE + 3weeks Industrial Training + Project
Award	Minimum Requirement						
UG Certificate in Engineering stream	Successfully earned 50% Credits of Total Credits (50% of 164 = 82 Credits) Min 40 Credits from DC + 3 weeks Industrial Training						
UG Diploma in Engineering stream	Successfully earned 75% Credits of Total Credits (75% of 164 = 123 Credits) Min 80 Credits from DC/DE + 3weeks Industrial Training + Project						
R22.2	During the 4 Year degree programme, a student is allowed to leave the programme at any time due to any reason. For taking an exit, the student needs to apply to Dean, Academic [Form UG-9] for the						



	same through concerned Head of the department, and after sanction of the application only, the student can leave. His/her credits will remain preserved. A UG student registered at NITJ, who makes an exit without completing the course or at a specific exit point, can re-enter the course maximum within three years of his/her exit and continue to complete B.Tech. degree within a time limit of seven years. Meantime, if teaching scheme gets revised, then the student will have to fulfill the condition of revised requirements of the programme prevailing at the time of his re-entry. The credits earned in the past under different categories (Core, electives etc.) will remain preserved.
NON-DEGREE STUDENTS	
R23.1	A non-degree student is one who is registered for a degree in an Institute of repute in India or abroad (other than NIT Jalandhar), and who is officially sponsored by other Institute/University to complete a part of her/his academic programme at NIT Jalandhar. An external student may be admitted for a maximum period of two semesters (a maximum of one year). During stay at NITJ, such students admitted shall be governed by the academic and other rules/regulations of NIT Jalandhar. Any credits earned at the Institute by an external student cannot be counted towards any degree programme of NIT Jalandhar at any time.
AWARDS AND SCHOLARSHIPS	
R24.1	A number of Merit-cum-Means (MCM) scholarships, fee waivers, and SC/ST scholarships are awarded to the UG students in accordance with the prescribed procedure laid down by the Senate. Announcements of these scholarships stating eligibility, number and amount of scholarships etc. shall be made while inviting applications from time to time. These scholarships/ fellowships are administered by a designated committee. The details about these scholarships/fellowships can be found from the DSW office.
WAIVER AND AMENDMENTS	
R25.1	The procedures and requirements set out in this manual, other than those in clause R13.1 (Grading Criterion), and clause R16 (Eligibility for the award of B.Tech. Degree), may be relaxed or waived off in special circumstances by the Chairman, Senate. However, all such exceptions are to be reported to the Senate in its subsequent meeting.
R25.2	Notwithstanding anything contained in these Regulations, all categories shall be governed by the rules and procedures framed by the Senate, and in force from time to time. Any doubt or dispute about the interpretation of these Regulations shall be referred to the Director whose decision shall be final.
R25.3	All exceptions and issues not covered in this document may be referred by the Director to the SUGC. Recommendations of the SUGC are to be put up to the Director for consideration and to be implemented only if approved.

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Appendix-A: Guideline for Registration



1. A student who fails to register during the period of registration as per the Academic Calendar without any prior approval, he/she may register maximum within two weeks of commencement of classes by paying late registration fee along with other necessary Institute and Hostel dues. Following rules will be applicable for late registration

Before Start of classes	Without any late fee fine
Within one week of the Start of Classes	With late fee fine of Rs. 2000/-
Within two weeks of the Start of Classes	With late fee fine of Rs. 5000/-

2. For a student to be able to register in his/her 3rd/5th/7th semesters, following minimum credits need to be earned:

S. No.	Promotion to the next year from the previous year	Minimum Credits
i	1 st to 2 nd year (3 rd Semester)	25
ii	2 nd to 3 rd year (5 th Semester)	20 credits from 2 nd Year
iii	3 rd to 4 th year (7 th Semester)	20 credits from 3 rd Year

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Appendix-B: SUGC, DFB, DUGC and ABFC

Senate Under Graduate Committee (SUGC)

Constitution of SUGC

Dean Academic	Chairperson	Ex-officio
Associate Dean Academic - UG	Vice Chairperson	Ex-officio
Chairpersons of DUGC of all Departments	Members	02 years from date of nomination (respective department)
Associate Dean Examination	Invited member (on the basis of agenda)	
02 student nominees	Members* (at least 01 girl) (preferably 3 rd and 4 th year)	01 year from the date of their nomination or until they cease to be students of the Institute, whichever is earlier
Assistant Registrar Academic	Secretary	

*The selection of UG students for SUGC is done through a selection process on the basis of their academic, co-curricular and extra-curricular performance. The selection committee for the same would be constituted by the Dean, Academic.

Functions of SUGC

Subject to the overall jurisdiction and control of the Senate, the SUGC has the following functions covering the UG academic programmes of the Institute:



- (i) To oversee the conduct of all undergraduate courses of the Institute.
- (ii) To consider the proposals from the departments and make recommendations to the Senate for consideration and approval.
 - a. Proposal of new under graduate programmes/courses/curriculum
 - b. Proposal of restructuring/renaming/modification of existing under graduate Programme/courses/curriculum
- (iii) To Consider policy matters related to examinations of UG programmes and to suggest such actions to be taken by various Authorities/Bodies/Functionaries of the Institute, as may be considered necessary
- (iv) Recommendation for the award of degrees
- (v) To recommend an increase/decrease of intake in a programme
- (vi) To consider and recommend any other matter concerning the undergraduate programme of the Institute.
- (vii) Other related matters as may be referred to it by the Senate
- (viii) Constitute such number of its Sub-Committees as it deems fit to assist it in discharging its duties and responsibilities

The SUGC reports to the Senate for all its recommendations and decisions. The Senate has the power of final review and decision on all such matters, either on its own or on a reference/ appeal to it. SUGC shall meet at least 04 times during an academic year, or can meet more frequently depending on the requirement.

Department Faculty Board (DFB)

The Department Faculty Board (DFB) consists of all regular faculty members of the department. Whenever changes/modifications in the existing courses/curriculum, proposing and implementing new courses and programmes are to be carried out, the departments should preferably conduct a curriculum revision workshop ensuring participation of all stake holders i.e. external expert(s) from academics, Alumni of the department from Industry/ R&D organization, and faculty from allied engineering departments and sciences departments (If required).

Departmental Under Graduate Committee (DUGC)

The Department Undergraduate Committee (DUGC) is a statutory committee constituted at the department level for governing and monitoring all the issues related to the Undergraduate Academic Programmes and their activities. This committee shall be responsible for all matters connected with the UG programme(s) of the department. All academic policy and routine matters come under the purview of the Chairperson of the DUGC. The committee is responsible to follow the Senate approved rules and regulations along with guidelines prescribed in the Manuals.

Constitution of DUGC

Head of the Department	Chairperson	Ex-officio
Coordinator/ Academic Counsellors of 1 st , 2 nd , 3 rd and 4 th year students	Members	Every 02 years, 50% of the faculty members of the DUGC shall vacate their membership and their vacancies shall be filled by new faculty members.
Department Placement Officer	Member	Ex-officio
02 student nominees* (01 girl student)	Members	01 year from the date of their nomination or until they cease to be students of the Institute, whichever is earlier
Faculty coordinator of final year	Member Secretary	



- * Student nominees from 2nd and 3rd year B.Tech. programme to be nominated by the respective batches on the basis of their academic, co-curricular and extra-curricular performance.

The student members of the Senate and all its sub-committees abstain from the meetings, when the matters pertaining to academic evaluation of one or more students, admissions, or other administrative matters are to be considered.

Functions of DUGC

- (i) To review the conduct of all UG courses/programmes of UG level being run by the Department
- (ii) To ensure academic standard and excellence of the courses offered by the department
- (iii) To recommend the changes/modifications in the existing courses/curriculum, proposing and implementing new courses and programmes in consultation with DFB
- (iv) To allot Minor, project supervisors, electives, supervisor for research
- (v) To coordinate evaluation of projects, trainings
- (vi) To attend to students' problems and mentoring, counselling them in academic matters
- (vii) Internal moderation of result before submission to Associate Dean Examination.
- (viii) To evaluate the overall academic performance of UG students, and take corrective steps

The DUGC is fully responsible to the SUGC for its functions. DUGC considers and gives its opinion to the SUGC on such matters as may be referred to it. DUGC also deals with the academic matters raised by a UG student(s) and/ or a faculty member(s). It also advises the students in their academic programmes in general, with the focused advice being rendered by the Year Academic Counsellors.

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Appendix-C: Components of Evaluation

1. The evaluation of a theory course will be done in accordance with the following components:

Component	Weightage	Duration
Internal Continuous Assessment	20%	Throughout the semester
Mid-Semester Examination*	30%	2 Hrs written test
End-Semester Examination*	50%	3 Hrs written test

2. The evaluation in a Lab-course will be decided in following component-wise weightage:

Component	Weightage	Duration
Internal Continuous Assessment	40%	Throughout Semester
Practical file	10%	Throughout Semester
End-Semester Examination	Practical exam	2 Hrs/each sub-group
	Viva-voce	

3. The project evaluation will be done in following component-wise weightage:

Component	Weightage
Internal Continuous Assessment By Project Guide	25%
Mid-Semester review	25%
End-Semester viva-voce examination	50%



4. For Industrial Training and Summer Internship, evaluation will be based on the assessment by the respective Industry (Proforma-1), report submitted by the student, and presentation and viva-voce examination by the assessment committee formulated by the Head of the Department.
5. **A student must secure minimum 30 % in End-Semester Examination and 40% cumulatively to clear any course.**
6. The Departments can evolve their own rubrics for the Mid-semester and End-semester evaluation of Project work. The marks may be distributed among various components like selection of topic, problem statement, literature review, methodology, oral and written presentation of the work done and performance in viva-voce examination.
7. In case of the internal continuous assessment component, the course coordinators will have freedom to devise appropriate assessment or evaluation methods of their respective courses. The course coordinators may use the mix of quizzes, mini-projects, term paper, open-book tests, case studies or assignments or any other challenging and innovative exercise that they deem fit and relevant for the respective course. However, the assessment model of the course shall be approved by the DUGC of the department and shall be communicated to the students before the commencement of the course.
8. Mid-semester and End-semester examinations will be coordinated by the Academic section for all the courses of different undergraduate programmes. The dates for both examinations will be notified in the institute Academic Calendar.
9. The maximum percentage of students to be awarded 'S' grade in a course may be around 5%.
10. The different components of assessment need to be mapped with Course Outcomes (COs) of respective courses.

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Appendix-D: Guidelines for Make-up Examination

All such students who will not be able to appear in their Mid-semester examination on grounds of medical emergency/or any other special circumstances, can apply for the Make-up examination. The Make-up examination shall be held after the End-semester examination and shall cover full syllabus of the course. The dates for Make-up examination (03 consecutive days) are to be notified in the Institute Academic Calendar. An additional fee as specified by the Institute shall be charged per course. Following are the guidelines for Make-up examination:

1. A student can apply for Make-up examination only on grounds of medical emergency/or any other special circumstances.
2. The student has to apply for Make-up exam to the HoD within 7 days after the end of Mid-semester examination. No application shall be entertained afterwards in any case.
3. The students residing in the Hostels shall first report to the Institute Dispensary in case of any medical problem.
4. The Medical Officer of the Institute should clearly specify the rest period permitted.
5. Referral to other Hospitals shall be made by the Medical Officer of the Institute.
6. The medical certificate to be produced for Make-up application shall have to be issued either from the Institute Dispensary or from a Government Hospital only, clearly mentioning the rest period.
7. In case of any Competitive Examination/Interview/participation in any event, the student has to obtain prior approval before the commencement of the Mid-semester examination from the concerned HoD.

Dates for online registration for Make-up examination shall be notified in the Academic Calendar. The students shall fill the courses details on the portal, after evaluation of cases, the HoDs will approve the registered candidates online, and the students shall pay the fee of the approved courses through the portal. The academic section shall circulate a list of all registered students for the conduct of Make-up exam.

In case(s) of any ambiguity other than the above-mentioned guidelines, the matter shall be referred to Director by Dean



Academic and the decision of the Director shall be final and binding.

Appendix-E: Illustration of SGPA and CGPA Calculation

An Example of SGPA & CGPA Calculations of a student is given below:

Result of 1st Semester and corresponding Grade Points and Credits

Course No	Grade Awarded	Course Credits	GradePoints
Mathematics-I	C	4	7
Applied Physics	D	4	6
Program Core-1	A	4	9
Computer Programming	B	3	8
English Communication and Report Writing	U	2	1
English Communication Lab	S	1	10
Applied Physics Lab	B	1	8
Computer Programming Lab	E	1	5
Foundation Elective-1	C	1	7
		21	

The SGPA is calculated on the basis of grades obtained in all courses, registered for in the semester.

$$SGPA \text{ of 1st semester} = \frac{\sum (\text{Course credits} \times \text{Grade point})}{\sum \text{Course Credits}}$$

$$SGPA = \frac{4 \times 7 + 4 \times 6 + 4 \times 9 + 3 \times 8 + 2 \times 1 + 1 \times 10 + 1 \times 8 + 1 \times 5 + 1 \times 7}{21}$$

$$SGPA = \frac{144}{21}$$

$$SGPA = 6.86$$

Result of 2nd Semester and corresponding Grade Points and Credits

Course No	Grade Awarded	Course Credits	Grade Points
Mathematics-II	C	4	7
Applied Chemistry and Environmental Sciences	D	3	6
Problem Solving using Python	A	2	9
Program Core-2	B	4	8
Management principles Indian Constitutional Values	A	3	9



Applied Chemistry Lab	U	1	1
Python Lab	B	1	8
Product Realization through manufacturing Processes (workshop Training)	B	2	8
FE-2*	C	1	7
		21	

The SGPA is calculated on the basis of grades obtained in all courses, registered for in the semester.

$$SGPA = \frac{4 \times 7 + 3 \times 6 + 2 \times 9 + 4 \times 8 + 3 \times 9 + 1 \times 1 + 1 \times 8 + 2 \times 8 + 1 \times 7}{21}$$

$$SGPA = \frac{155}{21}$$

$$SGPA = 7.38$$

The CGPA is calculated on the basis of all grades, obtained in all completed semesters.

$$CGPA = \frac{\sum (\text{Course credits} \times \text{Grade point})}{\sum \text{Course Credits of all registered courses}}$$

$$CGPA = \frac{144 + 155}{42}$$

$$CGPA = 7.12$$

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Appendix-F1: Guidelines for Summer Contact Course

A Summer Contact course is conducted during the summer vacation (as notified in the Academic calendar). A Student can register for Summer Contact course if being offered by the respective department. The DUGCs of respective departments shall display the list of Summer Contact courses to be offered in a summer break before the commencement of the End-semester examination of the even semester.

1. A student can register for course(s) as Summer Contact course(s) if he/she is awarded 'L'/'W' grade in those course(s).
2. Registration for Summer Contact courses is to be done as per schedule notified in the Academic Calendar through online institute ERP portal form.
3. A fee as specified by the Institute is to be submitted by the students for registering in each Summer Contact course.
4. The maximum number of courses that can be registered as Summer Contact Course in one summer break will be limited to 02 courses. However, students of the graduating batch whose academic programme is expected to be completed by the end of on-going semester (8th semester) may register for up to 03 courses.
5. The total number of contact hours in any Summer Contact course will be the same as in the regular semester course (minimum 40). The assessment procedure for the Summer Contact course shall be same as that for a regular semester course.



6. The students during Summer Contact course shall be awarded one grade less than the actual grade obtained and the highest grade that a student can get through this option is 'D'. However, an 'E' grade shall remain as 'E'.
7. For elective courses the student may take the same course or any other course from the same category.

Summer Contact Course guidelines for the faculty:

A faculty member can take maximum of 02 summer courses during summer vacations. Lab courses (maximum 02 Labs) can be conducted during the summer vacations as a special case. Number of classes has to be the same as in the regular semester with a maximum of two contact hours for one course in a day (typically 40 classes). However, a teacher cannot engage more than 4 hours for Summer Contact Courses (Theory and Practical) for the students of 'L' Grade.

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Appendix-F2: Guidelines for Supplementary Exam

1. A student obtaining 'U' grade in a theory course may register for a supplementary exam in that course. The supplementary examination will be held within a duration starting after the 'Display of grades' after the regular end semester exams up to one week after the commencement of classes in the next semester.
2. The maximum number of times a supplementary examination can be taken for each course is 02. If the student fails to clear the course in 02 supplementary chances, he / she will have to repeat the course as additional course with 75% attendance requirement.
3. The grade will be decided only on the basis of the performance in this examination. However, attendance grade awarded in that course during the regular semester will be considered. The students opting for supplementary exam shall be awarded one grade less than the actual grade obtained and the highest grade that a student can get through this option is 'D'. However, an 'E' grade shall remain as 'E'.
4. Registration for supplementary exam is to be done as per schedule notified in the Academic Calendar through institute ERP portal.
5. A fee as specified by the Institute is to be submitted by the students for registering in each supplementary exam.

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Appendix-F3: Guidelines for Additional Course

1. A student can register for course(s) as Additional course(s) during the regular semesters in addition to their prescribed curriculum courses, under following cases:
 - a. Students awarded with 'U'/'L'/'X'/'W' or 'E' grade in any course(s) can register for them as Additional course(s). However, such students cannot register for more than the prescribed limit of 32 credits.
 - b. Students willing to earn additional credits outside their curriculum, provided, the course(s) is/are being offered therein. However, such students cannot register for credits more than the prescribed limit of 32 credits.
2. Registration for Additional courses is to be done along with the registration of regular semester courses through online institute ERP portal.
3. A fee as prescribed by the Institute is to be submitted by the students for registering in each Additional course.
4. The students with 'U'/'E' Grade will not be required to attend classes.



5. The students with 'L'/'X'/'W' Grade will have to attend classes and satisfy the attendance requirement.
6. A course of Even/Odd semester can be carried as Additional course with the corresponding regular semester only i.e, Even semester courses can be opted in Even semester and Odd semester courses can be opted in Odd semester.
7. There will be no change in the grade obtained by the student if appeared in regular semester examination as Additional course.
8. The evaluation process for all registered students in Additional course shall be based on all the components of evaluation, i.e. continuous assessment, Mid-term examination and End-semester examination.
9. For an elective course in which U/L/X/W grade has been obtained, the student may take the same course or any other course from the same category. However, students with 'U' grade will have to attend classes if the elective course is changed.
10. The Additional course is an improvement chance for students with 'E' grade. The maximum number of courses that can be registered as additional courses for students with 'E' grade will be limited to 06 courses during his/her entire B.Tech programme.

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Appendix-G: Guidelines for B.Tech. with Minor

Minor degree programmes are secondary areas of study that offers students to gain specialized knowledge and create opportunities in their career. This is a 4-year programme in which a student earns a Major degree in the discipline in which he/she is admitted, along with Minor in the emerging areas of the same discipline or in an area offered by other departments. A student who is keen to enhance his/her skill sets can opt for this scheme subject to fulfilling the eligibility criteria. All such B.Tech. students who have cleared all the courses of their Major and Minor within the stipulated duration shall be provided B.Tech. with Minor.

The Minor is awarded to a student along with his/her Major discipline provided the student earns requisite additional 20 credits of Minor.

Each Department will offer Minor in their own discipline as well as Minor in emerging areas as shown below:

1.	Minor in General Engineering Discipline	For the students of other engineering disciplines
2.	Minor in Emerging Areas of an Engineering Discipline	For students of their own as well as other Engineering disciplines

Programme Details

Each Minor programme will have total 20 credits that will be duly approved by the department DUGC, and subsequently by the Institute Senate. The structure of these 20 credits will be as follows:

- **3 Core Courses (09 credits)** relevant to the Minor programme
- **3 Elective Courses (09 credits)** There should be a basket of Electives for each Minor. 03 Elective Courses are to be selected from the basket depending on the available faculty expertise.
- **2 Lab Courses (02 credits)** to be designed specifically for the Minor programme to give practical exposure to the students in the relevant area.



A department may offer multiple Minor programmes in different emerging areas depending on the facilities and faculty strength available.

Semester Wise Course Allocation for Minor Degree

Semester - III					
S. No.	Course	L	T	P	Credits
1.	XXMI (Core-1)	3	0	0	3
2.	XXMI (Core-1 Lab)	0	0	2	1
Semester - IV					
S. No.	Course	L	T	P	Credits
3.	XXMI (Core-2)	3	0	0	3
4.	XXMI (Core-2 Lab)	0	0	2	1
Semester - V					
S. No.	Course	L	T	P	Credits
5.	XXMI (Elective-1)	3	0	0	3
Semester - VI					
S. No.	Course	L	T	P	Credits
6.	XXMI (Core-3)	3	0	0	3
Semester - VII					
S. No.	Course	L	T	P	Credits
7.	XXMI (Elective-2)	3	0	0	3
Semester - VIII					
S. No.	Course	L	T	P	Credits
8.	XXMI (Elective-3)	3	0	0	3
	Total				20

(*Institute shall have a common slot in the time table for Minor Programme courses)

• Application Process

- The option for enrolment in Minor programme may be exercised by any student after the 2nd semester provided he/she has cleared 1st and 2nd semester without backlog. The last date of applying for additional programmes will be notified in the academic calendar.
- The concerned department will invite applications after the declaration of 2nd semester result. List of courses being offered under each Minor will be displayed by all departments at the same time.
- A student can apply with his/her preferential choice from all departments and multiple Minor programmes. No change will be permitted once the programme is allotted.
- Before applying for any Minor, the students must ensure that there is no repetition of their Major courses in the core curriculum of the Minor they wish to apply for.
- A student can apply for more than one Minor programmes, however, he/she can enroll in only one Minor Programme.
- The number of students enrolled in a particular Minor programme of a department cannot be more than the sanctioned intake for Major degree of that department, i.e. If Department of Mechanical Engineering has a sanctioned intake of 90 students in B.Tech. (Mechanical Engineering) in a batch, then the maximum number of students who can be enrolled for each Minor programme in Mechanical Engineering will be limited to 90 only.



- In case of number of applications for enrolment in a programme are higher than the number of seats available, allotment will be done on the basis of CGPA up to 2nd semester.
- A list of shortlisted students will be released by the offering department latest by the commencement of registration of 3rd semester.
- Students shall register for Minor programme along with 3rd semester registration.
- Additional fee will be applicable per semester for the registered students.
- The DUGC may also suggest and offer some bridge courses (additional) to the deficient candidates.

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Appendix-H: Guidelines for B.Tech. with Research

Each Department will offer B.Tech. with Research programme in emerging areas for the students of their own discipline.

Programme Details

The B.Tech. with Research is awarded to a student along with his/her major discipline provided the student earns the requisite additional 10 credits. The credits will be awarded to enrolled students upon execution of a rigorous research project in his/her major area(s) of study, as specified by the offering department, with at least 01 SCI/Scopus journal/IPR publication. The DUGC will constitute an evaluation committee for assessing the performance and authenticity of the work done by the enrolled students. The evaluation committee shall comprise of the following members:

Chairperson of DUGC	Chairperson
Associate Dean Academic-UG (or his/her nominee)	Member
Head of the Department	Member
Supervisor	Member
02 Senior Faculty Members of the Department	Members

The evaluation committee may also recommend awarding the requisite 10 credits to a student without publication provided he/she has made significant contribution in his/her project.

Application Process

- The concerned department will invite applications after the declaration of 4th semester result.
- The option for enrolment in B.Tech. with Research may be exercised by any student after the 4th semester provided he/she has secured 8.0 CGPA and above without any backlog. The last date of applying for additional programmes will be notified in the academic calendar.
- A list of shortlisted students will be released by the offering department latest by the commencement of registration of 5th semester.
- Additional fee will be applicable per semester for the registered students.
- The DUGC will allot one faculty mentor to each enrolled student for supervision considering their interest and performance in preceding semesters.



- The DUGC may also suggest and offer some bridge courses (additional) to the deficient candidates for executing the research work.

