



HANDBOOK OF INFORMATION 2025-26



**UNDERGRADUATE (B.TECH.)
PROGRAMME**

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**UNDERGRADUATE B.TECH
PROGRAMME 2025-26**



INDIAN INSTITUTE OF TECHNOLOGY ROPAR

Rupnagar, Punjab-140001 (INDIA)

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1 INTRODUCTION

1.1 BACKGROUND

The Indian Institute of Technology Ropar is one of the eight IITs set up by the Government of India, Ministry of Human Resource Development (MHRD) in 2008. In keeping with MoE (erstwhile) the spirit of the IIT system, this institute is committed to provide state-of-the-art technical education in a variety of fields, and also to facilitate transmission of knowledge using the latest developments in pedagogy. The Indian Institute of Technology Ropar started functioning from the academic year 2008-09 from the campus of IIT Delhi, the mentor institute. The foundation stone laying ceremony was held on 24 February 2009. The Indian Institute of Technology Ropar was registered under the Societies' Registration Act 1860 on 29 July 2009 and later on notified under the Institutes of Technology Act, 1961 vide gazette notification no. 59 of 1961. Now, the Institute has been declared as an Institute of national importance. The Institute shifted to its permanent campus and currently operates from its permanent campus. The permanent campus of IIT Ropar is spread across 501 acres of land located in Rupnagar in the lap of nature at the banks of river Satluj. It has been awarded the 5Star GRIHA (Green Rating for Integrated Habitat Assessment) rating, one of the highest national ratings for Green Buildings.

1.2 DEPARTMENTS

Each course is offered by an academic unit called department. The Departments and their two letter codes are given below. Some courses are offered jointly by multiple academic units and are classified as interdisciplinary courses.

Academic Departments

Sr. No.	Name of Academic Unit (alphabetical order)	Code
1	Biomedical Engineering	BM
2	Chemical Engineering	CH
3	Chemistry	CY
4	Civil Engineering	CE
5	Computer Science and Engineering	CS
6	Electrical Engineering	EE
7	Humanities and Social Sciences	HU
8	Mathematics	MA
9	Mechanical Engineering	ME
10	Metallurgical and Materials Engineering	MM
11	Physics	PH
School		
1	Artificial Intelligence & Data Engineering (AI&DE)	AI&DE
Centers		
1	Centre of Excellence for Studies and Applied Research in Defense and Security	
2	Centre for Applied Research and Data Engineering	
3	Centre for Engineering Education	
4	Center of Research for Energy and Decarbonization (CRED)	
5	Indo-Taiwan Joint Research Center on Artificial Intelligence and Machine Learning	
6	Centre for Dron and Autonomous System (DARS)	
7	Centre for Engineering Solutions in Disaster Resilience (CESDR)	

1.3 PROGRAMMES OFFERED

IIT Ropar offers a variety of academics programmes for students with a wide range of backgrounds. Admission to these programmes are based on the students' performance in national level test JEE Advanced. For undergraduate programmes, students are admitted after 10+2 schooling. The admission is done through JEE advanced only. For further detail on admission to IIT Ropar, visit www.jeemain.nic.in, www.jeeadv.ac.in. The department and their programmes are listed below.

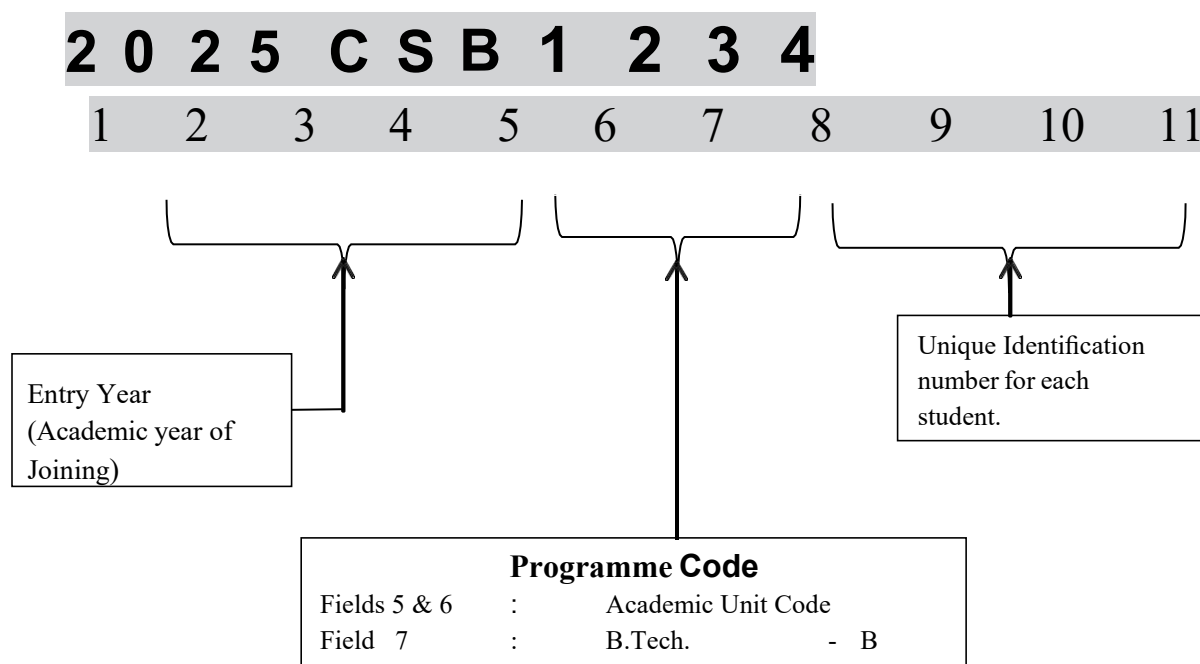
1.3.1 UNDERGRADUATE PROGRAMMES

Bachelor of Technology (B.Tech.)

Sr. No.	Programme
1	B.Tech. in Artificial Intelligence & Data Engineering (AI&DE)
2	B.Tech. in Chemical Engineering
3	B.Tech. in Civil Engineering
4	B.Tech. in Computer Science and Engineering
5	B.Tech. In Digital Agriculture
6	B.Tech. in Electrical Engineering
7	B.Tech. in Electrical Engineering (Integrated Circuit Design and Technology)
8	B.Tech in Engineering Physics
9	B.Tech. in Mathematics and Computing
10	B.Tech. in Mechanical Engineering
11	B.Tech. in Metallurgical and MaterialsEngineering

1.4 STUDENT'S ENTRY NUMBER

The entry number of a student consists of eleven alpha-numerals.



In case of a branch change, the three alphabets (fields 5, 6 and 7) will be changed. However, his /her unique numeric code will remain unchanged. Such students will have two entry numbers, one prior to branch change and one after the change. At any time, though, only one entry number that corresponds to the student's present status will be in use.

2 . ACADEMIC SYSTEM

The overall academic system of IIT Ropar has been designed to provide a science-based engineering education with a view to produce quality engineer-scientists. The curriculum provides broad-based knowledge and simultaneously builds a temper for life-long learning and exploring. The undergraduate programme begins with a set of science and general engineering courses which are reflected in the course plan for the first year. These courses provide a foundation for further discipline-specific courses. The medium of instruction at IIT Ropar is English.

The current Academic year begins on July 2023 and expected to end on Dec, 2023. The detailed schedule of the activities and academic deadlines is given in the semester schedule and is available on website link: <https://www.iitrpr.ac.in/academic>.

2.1 CREDIT SYSTEM

Education at the Institute is organized around the semester-based credit system of study. The prominent feature of credit system is a process of continuous evaluation of a student's performance/progress and the flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience. This feature is subject to the fulfillment of the minimum requirement for continuation. A student's performance/progress is measured by the number of credits that he/she has earned, i.e. completed with a pass grade. Based on the course credits and grade obtained by the student, the grade point average is calculated. A minimum grade point average is required to be maintained for satisfactory progress and continuation in the programme.

Each programme has a maximum credit requirement and a pattern of credit distribution over courses of different categories. Details are given below.

2.1.1 COURSE CREDITS ASSIGNMENT

Each course, except a few special courses, has a certain number of credits assigned to it depending upon its lecture, tutorial, practical and total preparation hours by the students (L-T-P-S-C) in a week. Weightage also indicates the academic expectation that includes in-class contact and self-study beyond class hours. A few courses are without credit and are referred to as non-credit (NC) courses.

L = No. of lecture 'hours' (actually 50 min.) per week,

T = No. of tutorial 'hours' = L/3, by default.

P = No. of laboratory 'hours'.

S = Total preparation 'hours' by students including assignments and self-study, $S = 2L + P/2 - T$. C =

Total credit-terms, $C = L + P/2$.

2.1.2 EARNING CREDITS

At the end of every course, a letter grade is awarded in each course for which a student had registered. On obtaining a pass grade, the student accumulates the course credits as earned credits. A student's performance is measured by the number of credits that he/she has earned and by the weighted grade point average.

2.1.3 COURSE COORDINATOR

Every course is usually coordinated by a member of the teaching staff of the department which is offering the course in a given semester. This faculty member is designated as the Course Coordinator. He/she has the full responsibility of conducting the course, coordinating the work of the other members of the faculty as well as teaching assistants involved in that course, holding the tests and assignments, and awarding the grades. For any difficulty related to a course, the student is expected to approach the respective Course Coordinator for advice and clarification. The distribution of the weightage for tests, quizzes, assignments, laboratory work, workshop and drawing assignment, term paper, etc. that will be the basis for the award of the grade in a course will be decided by the course coordinator of that course and generally announced at the start of the semester.

2.1.4 GRADING SYSTEM

The grading reflects a student's own proficiency in the course. While the relative standing of the student is clearly indicated by his/her grades, the process of awarding grades is not necessarily based upon some statistical distribution of performance of the whole class. The course coordinator and the associated faculty for a course formulate appropriate procedures to award grades that are reflective of the student's performance vis-a-vis the instructor's expectation.

The credit system enables continuous evaluation of a student's performance, and allows the student to progress at an optimum pace suited to individual ability and convenience. This is subject to the fulfilling of the minimum requirements for continuation.

The grades and their description, along with equivalent numerical points wherever applicable are listed below

Grade	Grade Points	Description
A	10	Outstanding
A (-)	9	Excellent
B	8	Very good
B (-)	7	Good
C	6	Average
C (-)	5	Below average
D	4	Marginal
E	2	Poor
F	0	Very poor
NP	-	Audit Pass
NF	-	Audit Fail
I	-	Incomplete
W	-	Withdrawal
S	-	Satisfactory
U	-	Unsatisfactory

Grades with their description

2.1.5 DESCRIPTION OF GRADES

A grade

The 'A' grade stands for outstanding achievement. The minimum percentage for the award of an 'A' grade is 80%. However, individual course coordinators may set a higher performance requirement.

B grade

The 'B' grade refers to very good/good performance.

C grade

The 'C' grade stands for average performance. This average performance refers to "average" as per instructor's expectations in a holistic sense and not on the average marks.

D grade

The 'D' grade stands for marginal performance, i.e., it is the minimum pass grade in any course. The minimum percentage for the award of 'D' grade is 30%, however, individual course coordinators may set a higher marks requirement.

E and F grades

The 'E' and 'F' grades denote poor and very poor performance, and indicate failing a course. An 'F' grade is also awarded in case of poor attendance (see Attendance Rules). A student has to repeat all the core courses in which he/she obtains either an 'E' or an 'F' grade, until a pass grade is obtained. In case of the elective courses in which either an 'E' or an 'F' grade has been obtained the student may take the same course or any other course from the same category. An 'E' grade in a course makes a student eligible to repeat the course in the summer semester, if the course is offered. Further, 'E' and 'F' grades secured in any course stay permanently on the grade card. These grades are not counted in the calculation of the CGPA; however, these are counted in the calculation of the SGPA.

NP and NF grades

The 'NP' Grade denotes completion of the Audit course. The NF grade denotes Audit fail. These grades are awarded in a course that the student opts to audit. Only an elective course can be audited until one week after the mid semester examination. The Audit Pass (NP) is awarded if the student's attendance is above 75% in the class and he/she has obtained at least a 'D' grade. The Course Coordinator can specify a higher criterion for audit pass at the beginning of the semester. If either of these requirements is not fulfilled, an audit fail (NF) is awarded. The grades obtained in an audit course are not considered for the calculation of SGPA or CGPA.

I grade

The 'I' grade denotes incomplete performance in any L (lecture), P (practical), V (special module) category courses. It may be awarded in case of absence on medical grounds or other special circumstances, before or during the major examination period. The student should complete all requirements within:

- (i) 10 days of the last date of the Major Tests; the request is to be made to the Head of the Department of the student's programme who will notify the same to the concerned course coordinators, OR
- (ii) With the permission of the Dean (Academics) the period can be extended to the first week of the next semester. Upon completion of all course requirements, the 'I' grade is converted to a regular grade (A to F, NP or NF). The 'I' grade does not appear permanently in the grade card. Requests for an I-grade should be made at the earliest but not later than the last day of the major tests.

For (ii), the request is to be made to the Dean (Academics). A student may be considered for the award of an 'I' grade in a course only if the attendance in the course is 75%.

Attendance in the course for which an I-grade is being sought will be certified by the course coordinator of the course.

W grade

The 'W' grade is awarded in a course where the student has opted to withdraw from the course. Withdrawal from a course is permitted until one week after the Mid Semester Examination. The W grade stays on the grade card.

S grade: The 'S' grade denotes satisfactory performance and completion of a course.

U grade: The 'U' grade denotes unsatisfactory performance in a course.

2.1.6 EVALUATION OF PERFORMANCE

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 Earned Credits (E.C.) are defined as the sum of course credits of courses in which students have been awarded grades between A to D; for UG students, credits from courses in which an NP grade has been obtained are also added.

Points earned in a course = (Course credits × Grade Point) for courses in which A– F grade has been obtained. The SGPA is calculated on the basis of grades obtained in all courses registered in the particular semester, except the audit courses in which an NP/NF grade has been awarded.

$$\text{SGPA} = \frac{\text{Points secured in the semester}}{\text{Credits registered in the semester, excluding audit grade courses}}$$

The CGPA is calculated on the basis of all pass grades, except the courses in which NP/NF grade has been awarded, obtained in all completed semesters.

$$\text{CGPA} = \frac{\text{Cumulative points secured in all passed courses (A-D)}}{\text{Cumulative earned credits, excluding audit grade courses}}$$

Course no.	Course credits	Grade awarded	Earned credits	Grade Points	Points secured
(column 1)	(column 2)	(column 3)	(column 4)	(column 5)	(column 6)
MAXXX	5	C	5	6	30
CSXXX	4	C(-)	4	5	20
PHXXX	4	A	4	10	40
PHXXX	2	B	2	8	16
MEXXX	4	E	0	2	08
CEXXX	2	NP	2	–	–

An example of these calculations is given below:

Typical academic performance calculations-I semester

Credits registered in the semester (total of column 2)	=21
Credits registered in the semester excluding audit grade course	=19
Earned credits in the semester (total of column 4)	=17
Earned credits in the semester excluding audit grade courses	=15
Points secured in this semester (total of column 6)	=114
Points secured in this semester in all passed courses (Total of column 6 & A–D grade)	=106

$$\text{SGPA} = \frac{\text{Points secured in the semester}}{\text{Credits registered in the semester, excluding audit grade course}} = \frac{114}{19} = 6.000$$

$$\text{CGPA} = \frac{\text{Cumulative points secured in all passed courses (A-D)}}{\text{Cumulative earned credits, excluding audit grade courses}} = \frac{106}{15} = 7.067$$

Semester performance: Earned credits (E.C.)= 17 SGPA = 6.000

Cumulative Performance:

Earned credits (E.C.)= 17

CGPA = 7.067

Typical academic performance calculations-II semester

Course no.	Course credits	Grade awarded	Earned credits	Grade Points	Points secured
(column 1)	(column 2)	(column 3)	(column 4)	(column 5)	(column 6)
MAXXX	5	B	5	8	40
EEXXX	4	A(-)	4	9	36
CYXXX	4	W	—	—	—
CYXXX	2	B(-)	2	7	14
MEXXX	4	C	4	6	24
CHXXX	4	A	4	10	40
HUXXX	1	NP	1	—	—

Credits registered in the semester (total of column 2) = 24

Credits registered in the semester excluding audit grade courses = 23

Earned credits in the semester (total of column 4) = 20

Earned credits in the semester excluding audit grade courses = 19

Points secured in this semester (total of column 6) = 154

Points secured in this semester in all passed courses

(Total of column 6 & A-D grade) = 154

Cumulative points earned in all

passed courses = 106 (past semesters) + 154 (this semester) = 26

$$\text{CGPA} = \frac{\text{Cumulative points secured in all passed courses (A-D)}}{\text{Cumulative earned credits, excluding audit grade courses}} = \frac{106+154}{15+19} = 7.647$$

$$\text{Cumulative earned credits} = 17 \text{ (past semesters)} + 20 \text{ (this semester)} = 37$$

Semester performance: Earned credits (E.C.)= 20

SGPA = 8.105

Cumulative Performance: Earned credits (E.C.)= 37

CGPA = 7.647

2.1.7 COURSE NUMBERING SCHEME

Every course runs for the full length of the semester. At the beginning of the semester, a student registers for the courses that he/she wants to study and at the end of the semester a grade is awarded. On obtaining a pass grade, the student earns all the credits associated with the course while a fail grade does not get any credit; partial credits are not awarded. Each course is associated with a certain number of credits.

(a) Level of the course

The first digit of the numeric part of the course code indicates the level of the course as determined by the prerequisite course and/or by the maturity required for registering for the course.

2.2 REGISTRATION AND ATTENDANCE

2.2.1 REGISTRATION

Registration is a very important procedural part of the academic system. The registration procedure ensures that the student's name is on the roll list of each course that he/she wants to study. No credit is given if the student attends a course for which he/she has not registered. Registration for courses to be taken in a particular semester will be done according to a specified schedule before the end of the previous semester. The student is required to pay his/her dues before the beginning of the semester through SB Collect. Students who do not make payments by a stipulated date will not be registered for the particular semester. In absentia registration or registration after the specified date will be allowed only in rare cases at the discretion of the Dean (Academics). In case of illness or absence during registration, the student should intimate the same to his/her course advisor and Dean (Academics). A student must meet his/her advisor within the first week of the new semester for the confirmation of his/her registration. The registration record should be preserved until the semester grade card is received.

Various activities related to registration are listed below. The relevant dates are included in the Semester Schedule that is available before the start of the semester.

2.2.2 REGISTRATION AND STUDENT STATUS

Registration by a student confirms his/her status as a student at the Institute. Failure to register before the last date for late registration will imply that the student has discontinued studies and his/her name will be struck-off the rolls.

Every registered student is considered as a full-time student at the institute. He/She is expected to be present in the Institute and devote full time to academics.

2.2.3 ADVICE ON COURSES

At the time of registration, each student must consult his/her faculty advisor/programme coordinator to finalize the academic programme keeping in view factors, such as, minimum/maximum numbers of total and lecture credits, past performance, backlog of courses, SGPA/CGPA, pre-requisite, work load and student's interests, amongst others. Special Provisions exist for academically weak students.

2.2.4 REGISTRATION VALIDATION

Before the first day of classes, every student is required to be present on campus and validate his/her registration online. The updated registration record will be available on the website and the hard copy will be available with the student's advisor. Students who do not do registration validation will not be permitted to add/drop courses.

2.2.5 LATE REGISTRATION

Late registration is permitted under the following conditions:

- (a) A student, who was not on campus during the period of registration in the previous semester, needs to complete the registration process on or before the first day of the semester before the commencement of classes.

or

- (b) For reasons beyond his/her control, if a student is not able to register or send an authorized representative with a medical certificate, he/she may intimate prior through email to academics@iitrpr.ac.in. He/She is required to apply to the Dean (Academics) for late registration. Dean (Academics) will consider and may approve late registration in genuine cases on payment of an extra fee called late registration fee. Late registration is permitted until one week after the start of the semester.

2.2.6. LATE REGISTRATION FINE

(Assuming Registration day on 0th day)

- (i) Late registration fees from 1st to 2nd day after registration date: Rs. 1000/-
- (ii) Late registration fees from 3rd day to Last day of Late Registration Date: Rs. 2000/-
- (iii) Late registration fees after Last Day of Late Registration: Rs. 5000/-
- (iv) If late registration is due to medical reasons, the students are required to submit medical certificate duly mentioning the rest needed for recovery, and need to provide fitness certificate. The late registration fine may be waived off on case-to-case basis, in genuine medical cases only.
- (v) The students who fail to submit the late registration fee by the stipulated date will not be allowed to sit in the mid-semester/end semester examination.

Please see academic calendar for AY 2025-26 on Institute website for dates of registration.

2.2.7 ADD, DROP, AUDIT AND WITHDRAWAL FROM COURSES

- a. Add/Drop: A student has the option to add a course (s) that he/she has not registered for, or drop a course (s) for which he/she has already registered for. This facility is restricted to the first week of the semester.
- b. Audit: A student may apply for changing a credit course to an audit one within one week of the end of the mid semester examination. Audit is not allowed in any 1st year course and also for any core course. The credit of the courses which are audited will not be counted in the final degree requirements.
- c. Withdrawal: A student who wants to withdraw from a course should apply within one week of the end of the mid semester examination. A withdrawal grade (W) will be awarded in such cases.

2.2.8 SEMESTER WITHDRAWAL

If a student is absent for more than 20 teaching days in a semester on medical grounds, he/she may apply for withdrawal for that semester, i.e., withdrawal from all courses registered in that semester. Application for semester withdrawal must be made along with medical certificate from an authorized doctor not below the rank of MBBS as early as possible at least before the start of the major tests. Partial withdrawal from the courses registered in a semester is not allowed. However, in case of un-authorized absence of 20 days in total during the semester, the student would be deemed to have withdrawn the semester. Semester fee in such cases will not be refunded or adjusted.

2.2.9 REGISTRATION AND FEES PAYMENT

Every registered student must pay the stipulated fees in full before the specified deadlines. In the event, a student does not make these payments, he/she will not be registered from all courses and his/her name will be struck-off from the roll list.

2.2.10 REGISTRATION RECORD

In addition to web-based entries related to registration, the student should ensure that the same are entered on the Registration Record. Queries related to registration will be considered only when accompanied by the original Registration Record. This record must be preserved until the semester grade card is received by the student.

2.2.11 CONTINUOUS ABSENCE AND REGISTRATION STATUS

If a student is absent from the Institute for more than four weeks without notifying the Head of the Department or the Dean (Academics), his/her registration will be terminated and the name will be removed from the Institute rolls.

2.2.12 ATTENDANCE RULES

All students must attend every lecture, tutorial and practical class. However, to account for late registration, sickness or other such contingencies, the attendance requirement will be a minimum of 75% of the classes actually held. If a student has less than 75% attendance in a course during the semester, in lectures, tutorials and practical taken together (as applicable), the course coordinator may award an 'F' grade in that course irrespective of his/her performance in the tests. For the purpose of attendance calculation, every scheduled lecture, tutorial or practical class will count as one unit irrespective of the number of contact hours. Attendance record will be maintained based upon roll calls (or any equivalent operation) in every scheduled lecture, tutorial and practical class. The course coordinator will maintain and consolidate attendance record for the course (lectures, tutorials and practical's together, as applicable). Students are required to attend lectures, laboratories, workshops, etc., and not to absent themselves without adequate reasons and prior permission. Applications for leave of absence are to be made in writing to the Head of the Department through the Faculty Advisor. Any type of absence for more than 10 days should be notified to the Academic Section immediately.

2.2.13 AIMS (ACADEMIC INFORMATION MANAGEMENT SYSTEM)

The name and other details of a new student is entered in the AIMS Portal. All the process regarding registration of courses, Add / Drop, Audit / Withdrawal etc. are required to be done on the Academic Information Management System (AIMS) portal. The information related to courses, credits & grades etc all is available on the AIMS portal. A student must check AIMS portal from time to time for various academic activities. The student can login to AIMS portal through the Institute email ID provided to them. The link of AIMS portal is <https://www.iitrpr.ac.in/aims/>. Unauthorized accessing the records of other students leads to locking of the login ID and penalty may be imposed.

2.3 RULES AND REGULATIONS

2.3.1 ABSENCE DURING THE SEMESTER

- (a) A student must inform the Dean (Academics) immediately of any instance of continuous absence from classes.
- (b) A student who is absent due to illness or any other emergency, up to a maximum of two weeks, should approach the course coordinator for make-up quizzes, assignments and laboratory work.
- (c) A student who has been absent from mid semester examination due to illness should approach the course coordinator for a make-up test immediately on return to class. The request should be supported with a medical certificate from institute's medical officer. A certificate from a registered medical practitioner will also be acceptable for a student normally residing off-campus provided registration number of the medical practitioner appears explicitly on the certificate.
- (d) In case of absence on medical grounds or other special circumstances, before or during the major examination period, the student can apply for I-grade. 75% attendance in a course is necessary for being eligible for an I-grade in that course. An application requesting I-grade should be made at the earliest but not later than the last day of major tests. The applications should be made to the

Head of the Department of the student's programme who will grant approval depending on the merit of the case and inform the course coordinators and UG section. The student should complete all the course requirements within ten days from the last day of the Major Tests. The I-grade will then be converted to a proper grade (A to F, NP or NF).

- (e) In special situations arising due to the inability to be present at the institute during the stipulated period, in (d) above, the period for conversion of I grade can be extended to the first week of the next semester. Approval for this extension can be granted by the Dean (Academics) on recommendations of the concerned Head of the Department and the course coordinators. A request to this effect must be included in the application for I-grade.
- (f) If a student is absent for more than 20 teaching days in a semester on medical grounds, he/she may apply for withdrawal for that semester, i.e., withdrawal from all courses registered in that semester. Application for semester withdrawal must be made along with medical certificate from an authorized doctor not below the rank of MBBS as early as possible at least before the start of the major tests. Partial withdrawal from the courses registered in a semester is not allowed. However, in case of un-authorized absent of 20 days in total during the semester, the student would be deemed to have withdrawn the semester. Semester fee in such cases would not be refunded or adjusted.
- (g) If a student is continuously absent from the institute for more than four weeks without notifying the Dean (Academics), his/her name will be removed from institute rolls.

2.3.2 BRANCH CHANGE AT THE END OF FIRST YEAR

- A. A student is eligible to apply for change of branch at the end of first year only, provided he/she satisfies the following criteria:-
 - i. CGPA for GE/OBC category student :- 7.50 or greater
 - ii. CGPA for SC/ST/PD category student :- 6.50 or greater
 - iii. Earned credits at the end of first academic session are 36 credits or more.
- B. Change of the branch will be permitted strictly in the order of merit, in each category as determined by CGPA at the end of the first year, subject to the limitation that
 - i. the actual number of students in the third semester in the discipline to which the transfer is to be made should not exceed its sanctioned strength by more than 10%, and
 - ii. the strength of the branch from which transfer is being sought does not fall below 85% of its sanctioned strength.

A minimum of two (2) students will, however, be eligible for consideration for change of branch from each discipline, irrespective of the regulation B(ii).

In case of tie in CGPA, the CGPA will be compared up to 3rd decimal place and if the tie still persists, all the students, with the same CGPA, would be allowed to change the branch even, if it violates the upper/ lower limits of 10% and 85% respectively.

- C. The condition mentioned in item A (i) - (iii) above will not be insisted upon for a change to a branch in which a vacancy exists with the reference to the sanctioned strength and the concerned student was eligible as per JEE Rank for admission to that branch at the time of entry to IIT Ropar. However, these conditions will continue to apply in the case of students seeking change to a branch to which the concerned student was not eligible for admission at the time of entry to IIT Ropar.
- D. At least Two (2) students will be allowed to be eligible for branch change from the existing branch even if the strength goes below 85% of the sanctioned strength subject to fulfilling the eligibility criteria as mentioned in 2.3.2(a). Change of branch will be permitted strictly in the order of merit, in each category as determined by CGPA at the end of the first year.

For Branch change reservation in seats is applicable as per Government of India norms.

2.3.3 MEASURES FOR HELPING SC/ST STUDENTS

A number of measures exist for helping students belonging to SC and ST categories. A senior faculty member is appointed as advisor to SC/ST students for advising them on academic and non-academic matters. Financial measures for helping SC and ST students are also available.

2.4 CURRICULUM AND STRUCTURE OF THE BACHELOR OF TECHNOLOGY PROGRAMMES

2.4.1 PROGRAMME AND CREDIT STRUCTURE

There are four options for 4-Year UG Program as given below

S.No.	Options for 4 year UG program	Total credit required to complete the course	Remarks
1	"B.Tech." in an engineering major discipline.	145 Credits	
2	B.Tech. with Minor (minor in any other discipline than the major discipline)	160 Credits	145 Credit B.Tech. + 15 Credit Minor Coursework
3	"B.Tech. with Concentration" (concentration areas will be within the major discipline).	160 Credits	145 credit B.Tech. + 15 Credit concentration Coursework
4	"B.Tech. with Honors" .	170 Credits	145 Credit B.Tech. + 15 Credit Coursework + 10 Credit Honors Project. An honors student can opt for minor/ concentration courses as part of the 15 credit coursework requirement of honors.
5	B.Tech. with "Additional Internship"	160 Credits	145 Credits B.Tech. + 15 credits "Additional Internship".

2.4.2 CREDIT STRUCTURE OF THE BASIC B. TECH. PROGRAMME

Category	Credits Requirements	Remarks
Science Requirement Core (SR)	24	
Science Electives (SE)	6	
General Engineering Requirement (GR)	23.5	16 credits as GE core for each
Programme Core (PC)	36 to 42	Total 48 credits (PC+PE)
Programme Elective (PE)	6 to 12	
Humanities and Social Sciences (HS) core	15 (min)	
Humanities and Social Sciences (HS) Electives	6	
Capstone Projects <ul style="list-style-type: none">Development Engineering Project.Capstone Project ICapstone Project II	Total 9 credits 3 3 3	
Industrial Internship and Comprehensive Viva	3.5	

Extra-curricular NSO/NSS	4 credits	
Open Electives · Open Electives I · Open Electives II	6 (Total) 3 3	
Graduation Requirements (GR)	145	

2.4.3 OVERALL CREDIT STRUCTURE FOR ALL THE FOUR OPTIONS GIVEN IN 2.5.1

Total Credits	Basic B.Tech. (145)	B.Tech. with Concentration (160)	B.Tech. with Minor (160)
Maths + Science	30	30	30
Humanities & Social Sciences	21	21	21
General Engineering	23.5	23.5	23.5
Program Core + Electives	48	63	48
BTP + DE Capstone Projects	9	9	9
Internship + Comp. Viva	3.5	3.5	3.5
Open Electives	6	6	21
Extra-Curricular	4	4	4
Total	145	160	160
Honors Add-On		10	10

2.4.4 CREDIT LIMITS

The following credit limits may be adopted:

- B.Tech.: 24 Credits per semester
- B.Tech. with Minor: 24 credits per semester
- B.Tech. with Minor, Concentration, Honors, Additional Internship : 24 Credits per semester
- The maximum credit limit for all regular semesters is 24 credits for 2nd year to final year students with CGPA of 7.00.
- The minimum credit requirement per semester is 12 credits.
- Along with the CGPA criterion, the students will be eligible for the 24 credit limit in the third semester only if the earned credit is 36.5 i.e. there is no backlog after the first year.

2.4.5 CGPA REQUIREMENT FOR MINOR, CONCENTRATION, HONORS, ADDITIONAL INTERNSHIP

The minimum CGPA for opting for Minor, Concentration, Honors, additional internship and 6-Month internship program is as follows. It is needed to be maintained the required CGPA in order to remain enrolled to the Minor, Concentration, Honors, Additional Internship.

- Minor Programme: 7.00 CGPA
- Concentration Programme: 7.00 CGPA
- Additional Internship: 6.00 CGPA
- Honours: 7.50 CGPA

2.4.6 MINOR IN AI

Minor in Artificial Intelligence (AI) in addition to their basic B.Tech. of 145 credits. Please note that it is completely optional to choose this option. If one chooses the Minor Programme, the same will be mentioned in their degrees, in addition to a basic B.Tech degree.

ELIGIBILITY CRITERIA: The students studying at IIT Ropar should fulfil the following eligibility criteria:

- The CGPA should be equal to or more than 6.0 & has to maintain a 6 CGPA during the major degree programme.
- The student should not have opted for any Minor / Concentration / Honours / Additional Internship programme with B.Tech.
- The students who have registered and completed a Minor in AI will not be eligible for any other course of Minor/Concentration/Honours/Additional Internship programme.
- The student cannot opt for a Minor in AI if any of the courses overlap as mentioned in the attached Bucket list of courses and vice versa i.e. the student who has registered and completed a Minor in AI will not be eligible to take the courses attached in the Bucket list of courses. The student who already opted for another minor/concentration/honours/additional internship programme or any of the courses of Minor in AI are overlapped, they are not eligible for a Degree with a Minor in AI.

WHO CAN APPLY:

- B.Tech. 1st year Batch can opt for a Minor in AI from the 3rd Semester onwards. Whereas, B.Tech. 2nd can opt for from the 5th Semester onwards and the 3rd year Batch can opt for a Minor in AI from the 7th Semester onwards.

Transfer of credits:- The 15 credits for the award for a Minor in Artificial Intelligence (AI) will be transferred through the Academic Bank of Credits (ABC)

COURSE FEE:

The total fee for the AI minor will be Rs. 30,000 and it will comprise of 15 credits. Meritorious students will get fee reimbursement based on their performance in the minor program as follows:

For a CGPA of 9.5 or above: 100 % of the Minor in AI course fee will be reimbursed

For a CGPA of 9.0 or above: 75% of the Minor in AI course fee will be reimbursed.

For a CGPA of 8.5 or above: 50% of the Minor in AI course fee will be reimbursed.

For a CGPA of 8.0 or above: 25% of the Minor in AI course fee will be reimbursed.

This fee structure is designed to be affordable while covering the costs associated with providing high-quality state of the art ed-technology enabled education.

2.4.7 MINIMUM CGPA FOR AWARD OF B. TECH. DEGREE

The minimum CGPA for award of the B.Tech. degree is 5.0

2.4.8 SPECIAL REQUIREMENTS

Communication Skills

Every student will be required to make presentations in various courses and if the Department so feels, the student can be asked to take a regular course on this aspect for credit.

2.5 PERFORMANCE REQUIREMENTS AND MONITORING

2.5.1 MAXIMUM PERIOD FOR COMPLETING DEGREE REQUIREMENTS

The maximum permitted duration of each programme is determined in terms of number of registered regular semesters, herein after called registered semesters. Any semester in which a student has registered for a course will be called registered semester subject to the following:

- (a) Only the first and second semesters of an academic year can be registered semesters. The summer semester will not be considered as a registered semester.
- (b) A semester when a student has been granted withdrawal or granted leave will not be considered as a registered semester.

- (c) The semester when a student is suspended from the Institute on disciplinary grounds will not be counted towards the number of registered semesters.
The summer semesters falling in between the permitted registered semesters shall be available for earning credits. After the student has registered for the maximum permissible number of registered semesters, the subsequent summer semesters will not be available for earning credits.
The maximum permissible number of registered semesters for completing all degree requirements for the B. Tech. degree is twelve (12). If a student opts for the slow-paced programme (as defined later), then the maximum permissible number of registered semesters shall be increased by two semesters.
- (d) A student who is not able to complete the CGPA requirement of 5.00 for the award of degree, after the stipulated maximum period of 6 years, can be offered to improve the courses / project(s) where he/she has secured a "D" grade to arrive at the CGPA of 5.00 for the award of degree to him/her.

2.5.2 CONDITIONS FOR TERMINATION OF REGISTRATION, PROBATION AND WARNING

If the performance at the end of first two registered semesters is very poor, then registration will be terminated. If the performance is poor but not very poor, then the student will be given an option to start afresh. Rules for re-start/termination are given below.

- a) Student will be given a chance to re-start after the first two registered semesters if his/her total number of earned credits is less than or equal to 17 at the end of the second semester.
- b) If a student re-starts after the first two registered semesters, then his/her credits earned and semesters registered will not be carried over. The re-start will be indicated on the transcript. The re-start will be permitted only once. If at the end of first academic year after re-start, the earned credits are less than or equal to 17 then the registration will be terminated.
- c) Each student is expected to earn at least 9 credits in the first registered semester and 10.5 credits in each subsequent registered semester with an SGPA greater than or equal to 5.0. If the performance of a student at the end of the any registered semester is below this minimum acceptable level, then he/she will be placed on probation and a warning shall be given to him/her and intimation sent to the parents also.
- d) The student placed on probation shall be monitored, including mandatory attendance in classes, special tutorials and mentoring.
- e) If the performance of a student on probation does not meet the above criterion (c) in the following registered semester, then the student will be permitted to register only if the department makes a favorable recommendation. The Head of the Department's recommendation shall be prepared after consultation with the student, and will include (i) feasibility of completing the degree requirements, and (ii) identification or remedial measures for the problems leading to poor performance.
- f) The registration of any student is limited to 1.25 times the average earned credits of the previous two semesters, subject to a minimum of 8 credits and a maximum of 19.5 credits.

2.5.3 SLOW-PACED PROGRAMME

A student who has earned between 18 and 27 credits at the end of the first academic year will be eligible to opt for the slow-paced programme. A student opting for such a programme shall be permitted two additional registered semesters for completing degree requirements.

In the slow paced programme, the upper limit for credits registered in a semester will be 12.5. A student in this programme is expected to earn at least 8 credits with minimum SGPA 5.0 in any semester, failing which he/she will be issued a warning and placed on probation.

- (a) The student placed on probation shall be regularly monitored. Ensuring mandatory attendance in classes, engaging special tutorials and mentoring will be some of the ways of monitoring.
- (b) If the performance of a student on probation does not meet the above criterion in the following registered semester, then the student should be permitted to register only if the department makes a favorable recommendation. The Head of the Department's recommendation shall be prepared after consultation with the student, and should include (i) feasibility of completing the programme, and (ii) identification of remedial measures for the problems leading to poor performance.

Such slow-paced programmes will be defined by the respective department for each student.

2.6 SELECTION OF COURSES FOR THE BASIC B.TECH. IN CIVIL ENGINEERING / CHEMICAL ENGINEERING / COMPUTER SCIENCE & ENGINEERING / DIGITAL AGRICULTURE/ ELECTRICAL ENGINEERING/ ELECTRICAL ENGINEERING (INTEGRATED CIRCUIT DESIGN AND TECHNOLOGY)/ ENGINEERING PHYSICS / MATHEMATICS & COMPUTING / MECHANICAL ENGINEERING & METALLURGICAL AND MATERIALS ENGINEERING .

Sr.No.	Courses	Detail of Courses/Credits
1.	HS Core (15 Credits)	<ul style="list-style-type: none"> • HS101 History of Technology (1.5) • HS103 Professional English Communication OR HS102 English Language Skills (3) • HS201 Economics (3) • HS301 Industrial Management (3) • HS104 Professional Ethics (1.5) • HS202 Human Geography and Societal Needs (3)
2.	HS Electives (6 Credits)	<ul style="list-style-type: none"> • HS Elective I (3)* • HS Elective II (3)* <p>*An English Language/Literature elective course in either 7th or 8th semester is required for the students who had "HS102 English Language Skills" in 1st Semester</p>
3.	Sciences Core (24 Credits)	<ul style="list-style-type: none"> • PH101 Physics for Engineers (3) • PH102 Physics for Engineers Lab (2) • CY101 Chemistry for Engineers (4) • MA101 Calculus (3) • MA102 Linear Algebra, Integral Transforms and Special Functions (3) • BM101 Biology for Engineers (3) • Program-Specific Science-Maths I (3) (viz. MA201 "Differential Equations" for all departments) • Program-Specific Science-Maths II (3) (viz. MA202 "Probability and Statistics" by CSE, ME, CE and MA203 ; "Probability and Stochastic Processes" by EE; a chemistry course CY230 "Introduction to Organic Chemistry and Biochemistry" by CH)
4.	Sciences Electives (SE) (6 Credits) (The elective courses offered by the Department of Mathematics, Chemistry, Bio-medical and Physics will be counted in SE Category).	<ul style="list-style-type: none"> • Science - Maths Elective I (3) • Science Maths Elective II (3)

Sr.No.	Courses	Detail of Courses/Credits
5.	General Engineering(23.5 Credits)	<ul style="list-style-type: none"> • GE101 Technology Museum Lab (1) • GE102 Workshop Practice (2) • GE103 Introduction to Computer Programming & Data Structure (4.5) • GE104 Introduction to Electrical Eng (3) • GE105 Engineering Drawing (1.5) • GE109 Introduction to Engineering Products (1) • GE107 Tinkering Lab (1.5) • GE108 Basic Electronics (3) • Introduction to Environmental Science & Engineering (3) • Program-Specific General Engineering (3)* <p>*The following Program - Specific General Engineering courses by the departments: GE201 "Introduction to Materials Science & Engineering" for ME & CH, GE106 "Materials Science for Electrical and Electronics Engineers" for EE, GE203 "Materials Science for Civil Engineers" for CE, and EE201 "Signals and Systems" for CSE</p>
6.	Program Core and Electives (total 48 Credits)	<ul style="list-style-type: none"> • Program Core (36 to 42 Credits) • Program Electives [PE] (6 to 12 Credits) (The elective courses offered by the respective Departments will be counted as PE Category).
7.	Capstone Projects(9 Credits)	<ul style="list-style-type: none"> • Development Engineering Project (3) • Capstone Project I (3) • Capstone Project II (3)
8.	Industrial Internship and Comprehensive Viva (3.5 Credits)	<ul style="list-style-type: none"> • Industrial Internship and Comprehensive Viva Voce (3.5)
9.	Extra-Curricular (4 Credits)	<ul style="list-style-type: none"> • NC101 NCC I OR NO101 NSO I OR NS101 NSS I (1) • NC102 NCC II OR NO102 NSO II OR NS102 NSS II (1) • NCC III OR NSO III OR NSS III (1) • NCC IV OR NSO IV OR NSS IV (1)
10.	Open Electives (6 Credits)	<ul style="list-style-type: none"> • Open Elective I (3) • Open Elective II (3)
11.	Extra-Curricular (4 Credits)	Will be notified soon

2.7 SEQUENCE OF THE COURSES FOR ALL THE BASIC B.TECH. PROGRAMME:

Most of the common core courses are planned to be run in both the semesters of the year, so that half of the students (half of the entire batch) study a course in one semester and the rest half in the other .

Semester 1

Plan A (about 50% students)	Plan B (rest 50% students)
MA101 Calculus (3) [3-1-0-5-3]	
HS103 Professional English Communication (3) [2-2/3-2-13/3-3] OR HS102 English Language Skills (3) [2 -2/3-2-13/3-3] instead, for students weak in English	
[0 -0-2-11]- (NS101NSS I / NO101 NSO I	
PH101 Physics for Engineers (3) [3-1-0-5-3] PH102 Physics for Engineers Lab (2) [0-0-4-2-2]	CY101 Chemistry for Engineers (4) [3 -1-2-6-4]
GE104 Introduction to Electrical Engineering (3) [2-2/3-2-13/3-3]	GE103 Introduction to Computer Programming & Data Structure (4.5) [3-0-3-15/2-4.5]
GE102 Workshop Practice (2) [0-0-4-2-2]	GE105 Engineering Drawing (1.5) [0-0-3-3/2-1.5]
HS101 History of Technology (1.5) [3/2-1/2-0-5/2-1.5]	GE 101 Technology Museum Lab (1) [0-0-2-1-1]
Total Credits 18.5/18	

Semester 2

Plan A (for those having Plan B in Sem 1)	Plan B (for those having Plan A in Sem 1)
MA102 Linear Algebra, Integral Transforms and Special Functions (3) [3-1-0-5-3]	
Program Core (3) (viz. ME101 “Engineering Mechanics” [3-1-0-5-3] for ME and CE, CH 101 “Introduction to Chemical Engineering” [3-1-0-5-3] for CH, CS101 “Discrete Mathematical Structures” [3-1-0-5-3] for CSE and MCB, CS111 for AI) OR Program-Specific General Engineering (3) (viz. “GE106 Materials Science for Electrical and Electronics Engineers” [3-1-0-5-3], for EE and EP), GE110 for MME, ED101 Foundation of Entrepreneurship Development	
NO102 NSO II (1) [0- 0-2-1-1] OR NS102 NSS II (1) [0 - 0-2-1-1]	
CY101 Chemistry for Engineers (4) [3 -1-2-6-4]	PH101 Physics for Engineers (3) [3-1-0-5-3] PH102 Physics for Engineers Lab (2) [0-0-4-2-2]
GE103 Introduction to Computer Programming & Data Structure (4.5) [3-1-3-13/2-4.5]	GE104 Introduction to Electrical Engineering (3) [2-2/3-2-13/3-3]
GE105 Engineering Drawing (1.5) [0-0-3-3/2-1.5]	GE102 Workshop Practice (2) [0 -0-4-2-2]
GE101 Technology Museum Lab (1) [0 -0-2-1-1]	HS 101 History of Technology (1.5) [3/2-1/2-0-5/2-1.5]
Total Credits 18/18.5	

2.7.1 B.TECH. ARTIFICIAL INTELLIGENCE & DATA ENGINEERING (AI)**Semester 3**

S.No.	Course Code	Course Description	L-T-P-S-C
1	CSxxx	Foundation of Computer Systems	3-1-0-5-3
2	CSxxx	Foundation of Computer Systems Lab	0-0-2-1-1
3	MA201	Differential Equations	3-1-0-5-3
4	CSxxx	Data Structures and Algorithms	3-1-2-6-4
5	EE201	Signals and Systems	3-1-0-5-3
6	NOIII/NSIII	NSO/NSS	0 -0-2-1-1

7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0 -0-3-3/2-1.5] / [0 -0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS503	Machine Learning	3-0-2-7-4
2	EE207	Control Engineering	3-1-2-6-4
3	MA302	Optimization Techniques (Prog. specific Maths' core)	3-1-0-5-3
4	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
5	NOIII/NSIII	NSO/NSS	0 -0-2-1-1
6	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
7	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0 -0-3-3/2-1.5] / [0 -0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS301	Databases	3-1-2-6-4
2	CSxxx	Artificial Intelligence	3-0-2-7-4
3	EEXXX/CSXXX	HCI & Visualization	2-0-2-5-3
4	CSxxx	Ethics in AI	1-0-0-2-1
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
6	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
7	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			19 or 19.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	XXX	Big Data Analytics: Tools & Techniques	2-0-2-6-3
2	XXX	Deep Learning	3-0-0-6-3
3	CSxxx	MLOps Lab	0-0-4-2-2
4	CSxxx/EExxx	Program Elective I	3 credits
5	CP301	Development Engineering Project	0-0-6-3-3
6	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
7	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18 or 18.5

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
TOTAL CREDITS			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSE(S)			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXX X	Science Maths Elective I	3 Credits
4	CSxxx/EExxx	Program Elective II	3 credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
TOTAL CREDITS			15

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXX X	Science Maths Elective II	3 Credits
4	CSxxx/EExxx	Program Elective III	3 credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
TOTAL CREDITS			15

Program Core (as proposed)

Sem	Course	Credits	Needed in
2	Mathematical Foundations of AI and DE	3	2024 Jan
3	Data Structures and Algorithms (+Lab)	4	2024 July
3	Foundation of Computer Systems (+Lab)	4	2024 July
4	Machine Learning (+ Lab)	4	2025 Jan
4	Control Engineering (+Lab)	4	2025 Jan
5	Databases (+Lab)	4	2025 July
5	Artificial Intelligence (+ Lab)	4	2025 July
5	HCI & Visualization	3	2025 July
5	Ethics in AI	1	2025 July
6	Big Data Analytics: Tools & Techniques	3	2026 Jan
6	Deep Learning (+Lab)	3	2026 Jan
6	MLOps Lab	2	22026 Jan
6-8	Prog. electives in 6, 7, and 8 sems (3 x 3 credits)	9	2026/2027
	Total	48	

GE103 done in 1st sem, MA302 Optimization is done in 4th sem as Prog. specific Maths core.
 EE201 (Signals and systems) and MA201 (Differential Equations) done in 3rd sem

Tentative list of Elective Courses, electives may be offered by CSE or EE department*

S. No.	Course Name	S. No.	Course Name
1	Nonlinear Control Techniques	16	Cloud Computing
2	Information Theory and Coding	17	Robotics
3	Natural Language Processing	18	IoT
4	Information Retrieval	19	Computer Networks
5	Text Processing	20	Probabilistic Graphical Models
6	Digital Signal Processing	21	Advanced Machine Learning
7	Advanced DSP	22	ANN
8	Computer Vision	23	Data Mining
9	Speech Processing	24	Autonomous MultiAgent Systems
10	Digital Image Processing	25	Security Analytics
11	Advanced Computer Vision	26	Computer Graphics Lab
12	Surveillance Video Analytics	27	Biomedical Image Processing & Analysis
13	Advanced AI	28	Affective Computing and Interaction
14	Predictive Analysis	29	Probabilistic Graphical Models
15	Distributed Systems	30	Multimedia Surveillance Systems

***Please Note:**

- i. This list will adapt with time as per needs, feasibility and recruitment of new faculty members
- ii. Although the industrial internship is suggested to be done in “summer vacation following semester 6” , the course II301 will normally be registered in the 7th semester.

2.7.2 B.TECH. IN CHEMICAL ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	CH201	Thermodynamics	3-1-0-5-3
2	CH202	Transport Phenomena	3-1-0-5-3
3	CH230	CHE Simulation (Lab I)	0-0-4-2-2
4	MA201	Differential Equations	3-1-0-5-3
5	CH120	Seminar I (Technical communications for Chemical Engineers)	0-0-2-1-1
6	GE201	Materials Science and Engineering	3-1-0-5-3
7	NOIII/NSIII	NSO/NSS	0-0-2-1-1
8	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
9	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			20 or 20.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	CH203	Heat & Mass Transfer	3-1-0-5-3
2	CH204	Fluid Mechanics	3-1-0-5-3
3	CH231	Fluid Mechanics, Heat & Mass Transfer Lab (LAB COURSE)	0-0-4-2-2
4	CH220	Seminar II (Data Analysis and Research Skills)	0-0-2-1-1
5	CY230	Introduction to Organic Chemistry and Biochemistry	3-1-0-5-3
6	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
7	NOIV/NSIV	NSO/NSS	0-0-2-1-1
8	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
9	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			20 or 20.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	CH301	Separation Processes	3-1-0-5-3
2	CH302	Chemical Reaction Engineering	3-1-0-5-3
3	CH303	Process Control	3-1-0-5-3
4	CH330	Chemical Reaction Engineering Lab (Lab III)	0-0-4-2-2
5	CH320	Seminar III (Chemical Engg. Applications)	0-0-2-1-1
6	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
7	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
8	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18 or 19.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	CH304	Process Equipment Design	3-1-0-5-3
2	CH305	Process Design and Economics	3-1-0-5-3
3	CH331	Process Control Lab	0-0-4-2-2
4	CH420	Seminar IV(ASPECTS OF CHEMICAL BUSINESS AND ETHICS)	0-0-2-1-1
5	CP301	Development Engineering Project	0-0-6-3-3
6	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
7	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			15 or 16.5

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	CHXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	CHXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course code.

Grand Total: 145

Please Note:

- i. Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- ii. Although the industrial internship is suggested to be done in “summer vacation following semester 6”, the course II301 will normally be registered in the 7th semester.

2.7.3. B.TECH. IN CIVIL ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	CE201	Strength of Materials	2-1-2-4-3
2	CE202	Fundamentals of Fluid Mechanics	2-1-0-3-2
3	CE304	Geomatics	2-1-2-4-3
4	MA201	Differential Equations	3-1-0-5-3
5	GE203	Materials Science for Civil Engineers	3-1-0-5-3
6	NOIII/NSIII	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	CE301	Structural Analysis	2-2/3-0-3-2
2	CE302	Pipe and Open Channel Hydraulics	2-2/3-2-4-3
3	CE303	Soil Mechanics	2-2/3-2-4-3
4	MA202	Probability and Statistics	3-1-0-5-3
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
6	NOIV/NSIV	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	CE401	Structural Analysis II	2-1-0-3-2
2	CE402	Water Resources Engineering	3-1-0-5-3
3	CE203	Computer Aided Building Drawing	0-1-2-0-1
4	CE404	Reinforced Concrete Structures	3-1-3-6.5-4.5
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
6	GE111	Introduction to Environmental Science & Engineering	3-1-0-5-3
7	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			16.5 or 18

*Civil Engineering students shall credit the course- Introduction to Environmental Science and Engineering in their fifth semester only.

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	CE405	Water and Wastewater Treatment	2-1-3-4.5-3.5
2	CE407	Transportation Engineering	3-1-2-6-4
3	CE403	FOUNDATION ENGINEERING	2-1-0-3-2
4	CE406	STEEL STRUCTURES	3-1-0-5-3
5	CP301	Development Engineering Project	0-0-6-3-3
6	HS301	Industrial Management	3-1-0-5-3
7	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18.5 or 20

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	CEXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/MAXXX/ CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	CEXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course Code.

Grand Total: 145

Please Note:

- Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- Although the industrial internship is suggested to be done in “summer vacation following semester 6”, the course II301 will normally be registered in the 7th semester.

2.7.4 B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS201	Data Structures	3-1-2-6-4
2	CS203	Digital Logic Design	3-1-2-6-4
3	MA201	Differential Equations	3-1-0-5-3
4	EE201	Signals and Systems	3-1-0-5-3
5	NOIII/NSIII	NSO/NSS	0-0-2-1-1
6	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
7	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS202	Programming Paradigms and Pragmatics	3-1-2-6-4
2	CS204	Computer Architecture	3-1-2-6-4
3	MA202	Probability and Statistics	3-1-0-5-3
4	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
5	NOIV/NSIV	NSO/NSS	0-0-2-1-1
6	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
7	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS301	Introduction to Database Systems	3-1-2-6-4
2	CS302	Analysis and Design of Algorithms	3-1-0-5-3
3	CS303	Operating Systems	3-1-2-6-4
4	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
5	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
6	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			17 or 18.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS 304	Computer Networks	3-1-2-6-4
2	CS 305	Software Engineering	3-1-2-6-4
3	CS 306	Theory of Computation	3-1-0-5-3
4	CP301	Development Engineering Project	0-0-6-3-3
5	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
6	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			17 or 18.5

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	CSXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	CSXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course code.

Grand Total: 145

Please Note:

- Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
-
- Although the industrial internship is suggested to be done in “summer vacation following semester 6”, the course II301 will normally be registered in the 7th semester.

2.7.5. B.TECH. DIGITAL AGRICULTURE (J) CORE

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	BM101	Biology for Engineers	3-1-0-5-3
2	DA201	Introduction to farms of future	-----2
3	DA202	Introduction to AI tools	-----3
4	DA203	Foundations of big data Analytics	-----3
5	DAL01	Data Modeling	-----2
6	GE107	Tinkering Lab	0-0-3-3/2-1.5
7	NOIII/NSIII	NSO/NSS	0-0-2-1-1
8	CSxxx	Foundation of Computer Systems	3-1-0-5-3
9	CSxxx	Foundation of Computer Systems Lab	0-0-2-1-1
TOTAL CREDITS			19.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	HS202	Human Geography and Societal Needs	[1-1/3-4-11/3-3]
2	EE102	Basic Electronics	-----3
3	GE109	Introduction to Engineering Products	0-0-2-1-1
4	NOIII/NSIII	NSO/NSS	0-0-2-1-1
5	MA202	Probability	3-1-0-5-3
6	DA204	Agriculture centric computing	-----3
7	DA205	Introduction to cyber-physical systems	-----3
8	DAL02	DAL02: Agri - CPS (Basic Lab)	-----2
TOTAL CREDITS			19

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	GE111	Introduction to Environmental Science and Engineering	3-1-0-5- 3
2	HS104	Professional Ethics	1-1/3-1-13/6-1.5
3	DA301	AI / ML for agriculture systems	3
4	DAL03	Lab#3: Measurement & Interface:	1.5
5	DA302	Process control and Industrial Automation	3
6	DA303	AI Ethics	3
7	DAL04	Lab#4 Agri - CPS (Advance)	3
TOTAL CREDITS			18

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP301	Development Engineering Project	0-0-6-3-3
2	HS301	Industrial Management	3-1-0-5-3
3	PE#1	Program Elective I	3-0-0-6-3
4	DA304	Computer Vision for farm monitoring, assessment and surveillance	-----3
5	DA305	DA305: LMs / LLMs	-----3
6	DAL05	Lab#5: Data Modeling:	-----3.5
TOTAL CREDITS			18.5

Summer Vacation following

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
TOTAL CREDITS			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSE(S)			
2	DAXXX	Program Elective	-----3
3	DAXXX	Program Elective	-----3
4	XXXXX	Open Elective	-----3
5	XXXXX	Open Elective	-----3
TOTAL CREDITS			15

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	XXXXX	Joint Industry Project	-----12
2	XXXXX	Project Presentation /Seminar	-----3
TOTAL CREDITS			15

2.7.6. B.TECH. IN ELECTRICAL ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE201	Signals and Systems	3-1-0-5-3
2	EE203	Digital Circuits	3-1-0-5-3
3	EE204	Digital Circuits Lab	0-0-3-3-1.5
4	EE205	Electromechanics	3-1-0-5-3
5	MA201	Differential Equations	3-1-0-5-3
6	NOIII/NSIII	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 18.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE209	Circuit Theory	3-1-0-5-3
2	EE207	Control Engineering	3-1-0-5-3
3	EE307	Power Electronics	3-1-0-5-3
4	MA203	Probability and Stochastic Processes	3-1-0-5-3
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
6	NOIV/NSIV	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			20 or 20.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE208	Control Engineering Laboratory	0-0-3-3/2-1.5
2	EE301	Analog Circuits	3-1-0-5-3
3	EE302	Analog Circuits Lab	0-0-3-3-1.5
4	EE308	Power Electronics Lab	0-0-3-1.5-1.5
5	EE206	Electromechanics Lab	0-0-3-3-1.5
6	EE305	Engineering Electromagnetics	3-1-0-5-3
7	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
8	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
9	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18 or 19.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE304	Communication Lab	0-0-3-1.5-1.5
2	EE306	Electromagnetics Lab	0-0-3-1.5-1.5
3	EE303	Communication Engineering	3-1-0-5-3
4	EE309	Power Systems	3-1-0-5-3
5	EE310	Power Systems Laboratory	0-0-3-1.5-1.5
6	CP301	Development Engineering Project	0-0-6-3-3
7	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
8	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			16.5/18

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	EEXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	EEXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course Code.

Grand Total: 145

Please Note:

- i. Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- ii. Although the industrial internship is suggested to be done in “summer vacation following semester 6 “, the course II301 will normally be registered in the 7th semester.

2.7.7 ELECTRICAL ENGINEERING (INTEGRATED CIRCUIT DESIGN AND TECHNOLOGY)

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE201	Signals and Systems	3-1-0-5-3
2	EE203	Digital Circuits	3-1-0-5-3
3	EE204	Digital Circuits Lab	0-0-3-3-1.5
4	CSxyz	Fundamentals of Artificial Intelligence and Data Science	3-0-0-6-3
5	MA201	Differential Equations	3-1-0-5-3
6	NOIII/NSIII	NSO/NSS	0-0-2-1-1
7	GE108	Basic Electronics	2-1-2-5-3
8	GE107	Tinkering Lab	0-0-3-3/2-1.5
TOTAL CREDITS			19 credits

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE209	Circuit Theory	3-1-0-5-3
2	EE207	Control Engineering	3-1-0-5-3
3	MA203	Probability and Stochastic Processes	3-1-0-5-3
4	BM101	Biology for Engineers	3-1-0-5-3
5	NOIV/NSIV	NSO/NSS	0-0-2-1-1
6	CSxyz	Introduction to Computer Architecture	3-1-0-5-3
7	GE109	Introduction to Engineering Products	0-0-2-1-1
TOTAL CREDITS			17 credits

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	EExyz	Electronic Devices	3-1-0-5-3
2	EE301	Analog Circuits	3-1-0-5-3
3	EE302	Analog Circuits Lab	0-0-3-3-1.5
4	EE303	Communication Engineering	3-1-0-5-3
5	EE305	Engineering Electromagnetics	3-1-0-5-3
6	HS202	Human Geography and Societal Needs	1-1/3-4-11/3-3
7	HS301	Industrial Management	3-1-0-5-3
TOTAL CREDITS			19.5 credits

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	EE307	Power Electronics	3-1-0-5-3
2	EExyz	Digital Signal Processing	3-1-0-5-3
3	EE530	VLSI Fabrication Technology	3-1-0-5-3
4	CP301	Development Engineering Project	0-0-6-3-3
5	GE111	Introduction to Environmental Science & Engineering	3-1-0-5-3
6	HS201	Economics	3-1-0-5-3
7	HS104	Professional Ethics	1-1/3-1-13/6-1.5
TOTAL CREDITS			19.5 credits

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5 credits

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	EEXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	EEXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

2.7.8. B.TECH. IN ENGINEERING PHYSICS

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	PH202	Applied Mathematical Physics	3-1-0-5-3
2	PH203	Classical Mechanics	3-1-0-5-3
3	PH204	Electromagnetic Theory	3-1-0-5-3
4	PH201	Physics Lab-I	0-0-3-1.5-1.5
5	EE201	Signals and Systems	3-1-0-5-3
6	GE108/HS201	Basic Electronics /Economics	[2-2/3-2-13/3-3] [3-1-0-5-3]
7	GE109/GE107	Introduction to Engineering Products /Tinkering Lab	[0 -0-2-1-1] [0 -0-3-3/2-1.5]
8	NSO-III /NSS-III	NSO/NSS	[0 -0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	MA203	Probability and Stochastic Process	3-1-0-5-3
2	PH210	Physics Lab-II	0-0-3-1.5-1.5
3	EE207	Control Engineering	3-1-0-5-3
4	EE209	Circuit Theory	3-1-0-5-3
5	HS202/BM101	Human Geography & Societal Needs /Biology for Engineers	[1-1/3-4-11/3-3] [3-1-0-5-3]
6	HS201/GE108	Economics /Basic Electronics	[3-1-0-5-3] [2-2/3-2-13/3-3]
7	GE107/GE109	Tinkering Lab /Introduction to Engineering Products	[0 -0-3-3/2-1.5] [0 -0-2-1-1]
8	NSO-IV /NSS-IV	NSO-IV /NSS-IV	[0 -0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	PH30X	*Quantum Physics	3-1-0-5-3
2	PH30X	*Thermal and Statistical physics	3-1-0-5-3
3	EE208	Control Engineering Lab	0-0-3-1.5-1.5
4	EE301	Analog Circuits	3-1-0-5-3
5	EE302	Analog Circuits Lab	0-0-3-1.5-1.5
6	BM101/HS202	Biology for Engineers / Human Geography & Societal Needs	[3-1-0-5-3] [1-1/3-4-11/3-3]
7	HS301/GE111	Industrial Management /Introduction to Environmental Science & Engineering	[3-1-0-5-3]
8	HS104	Professional Ethics	1-1/3-1-13/6-1.5
TOTAL CREDITS			16.5 or 18

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	PH30X	* Optics & Photonics	3-1-0-5-3
2	PH30X	* Quantum Theory of Solids	3-1-0-5-3
3	PH30X	* Semiconductor Physics and Applications	3-1-0-5-3
4	PH30X	* Numerical Methods and Analysis	2-0-2-5-3
5	GE111/HS301	Introduction to Environmental Science & Engineering /Industrial Management	[3-1-0-5-3]
6	CP301	Development Engineering Project	0-0-6-3-3
Total Credits			18

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX/ CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	EEXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX/ CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	EEXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course Code.

*Subject to approval of Senate.

Grand Total: 145

Please Note:

- Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- Although the industrial internship is suggested to be done in "summer vacation following semester 6 ", the course II301 will normally be registered in the 7th semester.

2.7.9. B.TECH. IN MATHEMATICS AND COMPUTING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	CS201	Data Structures	3-1-2-6-4
2	MA411	Real Analysis	3-1-0-5-3
3	MA201	Differential Equations	3-1-0-5-3
4	EE201	Signals and Systems	3-1-0-5-3
5	NOIII/NSIII	NSO/NSS	0-0-2-1-1
6	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
7	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			18 or 18.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	MA204	Introduction to Numerical Analysis	3-1-0-5-3
2	MA426	Theory of computation	3-0-0-6-3
3	MA205	Computing Lab	0-0-4-2-2
4	MA202	Probability and Statistics	3-1-0-5-3
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
6	NOIV/NSIV	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	MA514	Analysis & Design Of Algorithms	3-1-0-5-3
2	MA515	Foundations Of Data Science	3-0-2-7-4
3	MA301	Computational Algebra	3-0-0-6-3
4	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
5	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
6	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			16 or 17.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	MA302	Optimization Techniques	3-1-0-5-3
2	MA303	Computing Lab-II	0-0-4-2-2
3	CS503	Machine Learning	3-0-2-7-4
4	CP301	Development Engineering Project	0-0-6-3-3
5	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
6	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	MAXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had “English Language Skills” in 1st Semester	3 Credits
3	BMXXX/CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	MAXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course Code.

Grand Total: 145

Please Note:

- Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- Although the industrial internship is suggested to be done in “summer vacation following semester 6”, the course II301 will normally be registered in the 7th semester.

2.7.10. B.TECH. IN MECHANICAL ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	ME102	Engineering Thermodynamics	3-1-0-5-3
2	ME201	Solid Mechanics	3-1-0-5-3
3	ME202	Machine Drawing	0-0-4-2-2
4	GE201	Introduction to Materials Science and Engineering	3-1-0-5-3
5	MA201	Differential Equations	3-1-0-5-3
6	NOIII/NSIII	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester-4

S.No.	Course Code	Course Description	L-T-P-S-C
1	ME203	Theory of Machines	3-1-0-5-3
2	ME204	Fluid Mechanics	3-1-0-5-3
3	ME205	Design Lab-I	0-0-4-2-2
4	MA202	Probability and Statistics	3-1-0-5-3
5	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] /[3-1-0-5-3]
6	NOIV/NSIV	NSO/NSS	0-0-2-1-1
7	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
8	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	ME 206	Manufacturing Technology-I	3-1-0-5-3
2	ME207	Manufacturing Lab-I	0-0-4-2-2
3	ME301	Vibrations and Control	3-1-0-5-3
4	ME302	Heat and Mass Transfer	3-1-0-5-3
5	ME 303	Thermo-Fluids Lab-I	0-0-2-1-1
6	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] /[3-1-0-5-3]
7	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
8	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18 or 19.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	ME304	Machine Design	3-1-0-5-3
2	ME305	Manufacturing Technology-II	3-1-0-5-3
3	ME306	Design Lab-II	0-0-3-1.5-1.5
4	ME307	Thermo-Fluids Lab-II	0-0-3-1.5-1.5
5	ME308	Manufacturing Lab-II	0-0-4-2-2
6	CP301	Development Engineering Project	0-0-6-3-3
7	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
8	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			17 or 18.5

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th semester for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	MEXXX	Program Elective I	3 Credits
5	XXXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX /CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	MEXXX	Program Elective II	3 Credits
5	XXXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course code.

Grand Total: 145

Please Note:

- i. Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- ii. Although the industrial internship is suggested to be done in “summer vacation following semester 6 “, the course II301 will normally be registered in the 7th semester.

2.7.11. B.TECH. IN METALLURGICAL AND MATERIALS ENGINEERING

Semester 3

S.No.	Course Code	Course Description	L-T-P-S-C
1	MM201	Metallurgical Thermodynamics and Kinetics	3-1-0-5-3
2	MM221	Introduction to Materials Modeling Lab	0-0-2-1-1
3	MM203	Materials Characterization Techniques	3-0-0-5-3
4	MM204	Materials Characterization Techniques Lab	0-0-2-1-1
5	MM205	Physical Metallurgy Lab	0-0-2-1-1
6	MA201	Differential Equations	3-1-0-5-3
7	NOIII/NSIII	NSO/NSS	0-0-2-1-1
8	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
9	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			17 or 17.5

Semester 4

S.No.	Course Code	Course Description	L-T-P-S-C
1	MM206	Principles of Extractive Metallurgy	3-1-0-5-3
2	MM207	Phase Transformation and Heat Treatment	3-1-0-5-3
3	MM208	Phase Transformation and Heat Treatment Lab	0-0-2-1-1
4	MM222	Computational Thermodynamics Lab	0-0-2-1-1
5	MA202	Probability and Statistics	3-1-0-5-3
6	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
7	NOIV/NSIV	NSO/NSS	0-0-2-1-1
8	HS201 / GE108	Economics/Basic Electronics	3-1-0-5-3 / (2-2/3-2-13/3-3)
9	GE107 / GE109	Tinkering Lab / Introduction to Engineering Products	[0-0-3-3/2-1.5] / [0-0-2-1-1]
TOTAL CREDITS			19 or 19.5

Semester 5

S.No.	Course Code	Course Description	L-T-P-S-C
1	MM301	Iron and Steel Making	3-1-0-5-3
2	MM302	Mechanical Behaviour and Testing of Materials	3-1-0-5-3
3	MM303	Materials Processing	3-1-0-5-3
4	MM304	Mechanical Behavior and Testing Lab	0-0-3-1.5-1.5
5	MM305	Materials Processing Lab	0-0-3-1.5-1.5
6	MM321	Mesoscale Modeling Lab	0-0-2-1-1
7	HS202 / BM101	Human Geography and Societal Needs / Biology for Engineers	[1-1/3-4-11/3-3] / [3-1-0-5-3]
8	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
9	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			19 or 20.5

Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	MM202	Transport Phenomena	3-1-0-5-3
2	MM306	Corrosion And Its Prevention	2-2/3-0-10/3-2
3	MM307	Electronic, Magnetic and Optical Materials	3-1-0-5-3
4	MM322	Modeling of Metallurgical System Lab	0-0-2-1-1
5	MM310	Corrosion Lab	0-0-2-1-1
6	MM311	Modeling and Simulation Lab	0-0-4-2-2
7	CP301	Development Engineering Project	0-0-6-3-3
8	HS301 / GE111	Industrial Management / Introduction to Environmental Science & Engineering	3-1-0-5-3
9	HS104	Professional Ethics [about 50% students]	1-1/3-1-13/6-1.5
TOTAL CREDITS			18 or 19.5

Summer Vacation following Semester 6

S.No.	Course Code	Course Description	L-T-P-S-C
1	II301	Industrial Internship and Comprehensive Viva Voce (70% weightage for 8-week full internship and 30% for comprehensive viva on program fundamentals)	0-0-7-3.5-3.5
Total Credits			3.5

Semester 7

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP302	Capstone Project I	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX/CYXXX/PHXXX	Science Maths Elective I	3 Credits
4	MMXXX	Program Elective I	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

Semester 8

S.No.	Course Code	Course Description	L-T-P-S-C
1	CP303	Capstone Project II	0-0-6-3-3
ELECTIVE COURSES			
2	HSXXX	An English Language/Literature elective course in either 7th or 8th sem for students who had "English Language Skills" in 1st Semester	3 Credits
3	BMXXX/MAXXX/CYXXX/PHXXX	Science Maths Elective II	3 Credits
4	MMXXX	Program Elective II	3 Credits
5	XXXXX	Any extra credits taken under HS Elective/Program Elective/Science Maths Elective	3 Credits
Total Credits			15 Credits

XXXXX denotes Open Elective Course code.

Grand Total: 145

Please Note:

- Contents of all the courses are available on www.iitrpr.ac.in as Course booklet of UG 2025-26.
- Although the industrial internship is suggested to be done in "summer vacation following semester 6", the course II301 will normally be registered in the 7th semester.

2.7.12 COURSE PLAN FOR B.TECH. WITH MINOR

Same as that for "Basic B.Tech." with Minor coursework (total 15 credits) added and distributed over four semesters - Semester 5 to 8.

2.7.13 GUIDELINES FOR OFFERING OF MINOR PROGRAMME FOR UG STUDENTS

- i. Students can take 15 credits of the Minor Programme, it is offered to the B.Tech. Students from 2017 batch onwards, B.Tech. with Minor is minor in any other discipline than the major discipline, the credit requirements is B.Tech. with Minor Programme: 145 (basic B.Tech.)+15 (minor credits) =160 credits.
- ii. A student can take 15 credits of designated courses in one of other disciplines to earn a Minor.
- iii. A student can opt for one minor. The student opting for minor is not eligible for opting concentration and vice-versa.
- iv. A student can take maximum credits of 24 for minor programme per semester.
- v. The minor courses would be typically the most basic UG level courses of the discipline. For example, the Minor courses in Mechanical Engineering (ME) would be a subset of Program Core courses of ME. Minor courses include some lab components.
- vi. The intake of students for minor will be 20.
- vii. The student with CGPA 7 is eligible for opting minor.
- viii. The department offering the courses for minor programme, shall check overlap of course(s) contents with other departments.
- ix. The department shall recommend selection criteria for offering the minor programme to the students.
- x. The students of B.Tech –M.Tech Dual Degree can also opt for Minor Programme
- xi. This is not a mandatory requirement for completion of basic B.Tech degree of 145 credits.

2.7.14 COURSE PLAN FOR B.TECH. WITH CONCENTRATION

Same as that for “Basic B.Tech.” with Concentration coursework (total 15 credits) added and distributed over four semesters - Semester 5 to 8.

2.7.15 GUIDELINES FOR OFFERING OF CONCENTRATION PROGRAMME FOR UG STUDENTS

- i) Students can take 15 credits of Concentration Programme courses within their discipline. For example, Mechanical Engineering students may choose to specialize in Design, Manufacturing or Thermal and fluids. The credit requirements for B.Tech. with Concentration Programme is : 145 (basic B.Tech.)+15 (concentration credits)=160 credits.
- ii) A student can opt for one concentration programme only.
- iii) A student can take maximum 24 credits for concentration programme per semester.
- iv) A student can opt for one Minor/ Concentration programme. The student opting for minor is not eligible for opting Concentration and vice-versa
- v) The concentration programme courses may include lab components.
- vi) The student with CGPA 7 is eligible for opting concentration programme.
- vii) This is not a mandatory requirement for completion of basic B.Tech degree of 145 credits.

2.7.16 COURSE PLAN FOR B.TECH. (HONORS)

Same as that for “Basic B.Tech.” with Honors coursework (total 15 credits) added and distributed over four semesters - Sem 5 to 8. Honors coursework may be the same as Minor or Concentration coursework. This will be followed by Honors Project 1 and 2 of 5 credits each.

The track options (Honours / Minor / Concentration / Additional Internship) to be offered to the students after 4th semester and before start of the 5th semester. Honours may be opted after 6th semester (and before start of 7th semester) as well, provided the remaining coursework (including the project) requirements for Honours can be completed without exceeding the maximum credit limit.

2.7.17 COURSE PLAN FOR BASIC B.TECH. WITH ADDITIONAL INTERNSHIP

The coursework required for “Basic B.Tech.” may be completed in first seven semesters. Additional Internship I to III [About 6 Months, Mid December to Mid June] may be opted during the last 7th/8th semester. This option may be opted by the end of 4th semester.

2.7.18 GUIDELINES FOR OFFERING OF ADDITIONAL INTERNSHIP FOR UG STUDENTS

- i. Students can take 15 credits of the additional internship, it is offered to the B.Tech. Students from 2017 batch onwards. The credit requirement for basic B.Tech. $145+15$ (additional internship) =160 credits.
- ii. Minimum CGPA for opting additional internship may be 6.00.
- iii. The student can take the additional internship in their 7th/8th semester.
- iv. A student doing Basic B.Tech. can finish all requirements by 7th semester (for those proceeding in 8th) and for the students proceeding in 7th semester should have left with 22 credits to complete in the 8th semester.
- v. A student can only opt one option i.e. minor/concentration/additional internship.
- vi. There will be two grades only i.e. Satisfactory / Unsatisfactory.
- vii. The student who fails to get satisfactory grade will be eligible only for the basic degree without any mention of additional internship.
- viii. A student can only opt for additional internship at the end of 4th semester.
- ix. There will be two reviews in between the Internship period by the faculty advisor and department for internship supervising the Internship.
- x. The courses to be done in the 7th/8th semester will be distributed to other semester so that students are able to complete course credit requirements of basic degree.
- xi. A student can take maximum credits of 24 for additional internship programme per semester.
- xii. The internship will be facilitated by the CDPC Cell.
- xiii. Type of the internship (core/non-core) shall be decided by the parent department of the student, it could be in research labs/industry/institutes etc.
- xiv. The students of B.Tech –M.Tech Dual Degree can also opt for additional internship.
- xv. The 'U' ("Unsatisfactory") grade in Additional internship will be reflected in the grade sheet.
- xvi. Under no circumstances, Additional internship can be done within the institute.
- xvii. For students opting additional internship in 8th semester, if the students could not avail the internship (outside the institute) for some reason, the student shall enroll to a new 15- credit "UG Research Thesis" (letter grading based) course in his/her own department to enable him/her to do research within the institute. UG research Thesis will be an individual work in line with the M.Tech thesis.
- xviii. Successful enrollment to Additional Internship shall require approval from Academic Section based on the offer letter of internship and confirmation from the industry. The offer letter and other information shall be submitted by the student well in advance, at least 7 days before start of the "Additional Internship".
- xix. The duration of II302 Additional Internship for UG students is 14 weeks (if 6 working days a week) OR 16 weeks (if 5 working days a week) OR 80 working days or more.

2.7.19 SUPPLEMENTARY EXAMINATION GUIDELINES FOR THE STUDENTS OF B.TECH. WHO FAILS IN CORE COURSES.

- i. Students who get "E" in a core course are eligible to seek Supplementary Examination in the immediately following semester.
- ii. A student is eligible for writing only one Supplementary Examination in a course. In case a student fails in the Supplementary Examination, he/she has to repeat the course in a regular semester, as and when it is offered.
- iii. The Supplementary Examination will be held on the 1st Saturday/ Sunday of the following semester, before the add/drop process ends.
- iv. The Supplementary Examination shall be scheduled with the mutual convenience of the instructor and the student, with intimation to the Academic Section.
- v. The syllabus for supplementary exam must remain the same as per the regular Semester Policy (declared by the Instructor in the respective course in the regular semester).
- vi. Final grade will be based on the marks obtained in PMT plus new marks secured in the supplementary exam not exceeding 'D' grade on the same grading policy as that used in the regular semester.
- vii. Maximum number of supplementary exams to be written by a student is two in a semester.
- viii. Not more than five supplementary examinations can be written by the student in the entire duration of his/her degree programme.

2.7.20 SUMMER SEMESTER GUIDELINES:

- i. The summer semester courses will be floated for all backloggers of core courses, subject to availability of teachers. Keeping in mind smaller class strengths in some departments, the departments may fix the criteria for the minimum number of students for floating departmental courses during summer semester.
- ii. The credit limit for the summer semester (for back loggers only) will be 9 credits subject to maximum 3 courses only.
- iii. No elective course will be floated to the students during summer semester, except for the students of the graduating batch.
- iv. The students who wish to take backlog courses floated in summer semester are required to register by paying the requisite fee as follows.

Fee per credit (Tuition fee)	:	Rs.4000/- per credit (i.e. if a student takes a 3 credit course his/ her tuition fee will be $4000 \times 3 = 12000$)
Other fees	:	Rs.2000/-

Note: SC/ST/PH students are exempted from payment of Tuition fee. However, they have to pay other fee of Rs.2000/-.

2.7.21 GUIDELINES FOR SELF STUDY/ INDEPENDENT MODE IN THE SUMMER SEMESTER:

- i. The courses in which there are less than or equal to 5 students, the courses be floated as self study/ independent courses in the summer semester.
- ii. Only the students who are having backlog in the courses be allowed to take the course in Self study/ independent mode.
- iii. The instructor(s) will provide the study material to the students and give assignments, conduct quizzes and examinations. The evaluation will be done in offline mode only as per summer semester academic calendar.
- iv. B.Tech. students are allowed to take total two (02) course in self-study/independent mode during the entire duration of the program and 1 course as self-study/ independent mode during each summer semester only.
- v. The courses will be offered in the self-study / independent mode preferably to the graduating students, subject to need of the course, availability of the instructors and approval by the Director.

2.7.22 COMPARISON OF DIFFERENT OPTIONS GIVE IN 2.5.1

Semester ==>>>	1	2	3	4	5	6	Summer between sem 6 and 7	7	8	Total Credits
HSS	Professional English Communication (3) + History of Technology (1.5)		Economics(3)	Human Geography and Societal Needs (3)	Professional Ethics (1.5)	Industrial Management (3)		HSS Elective I (3)	HSS Elective II (3)	21
Physics	Physics for Engineers (5)									5
Chemistry		Chemistry for Engineers (4)								4
Mathematics	Engineering Mathematics I (3)	Engineering Mathematics II (3)								6
Science -Maths			Program-Specific Science-Maths I (3)	Program-Specific Science-Maths II (3)				Science-Maths Elective I (3)	Science-Maths Elective II (3)	12
General Engineering	Intro to Electrical Eng (3) + Engineering Drawing (1.5)	Workshop(2) + Museum Lab (1) + Programming & Data Struct (4.5)	Program-specific General Engineering (3) + Tinkering Lab (1.5)	Intro to Engineering Products (1) + Basic Electronics(3)	Environmental Sc & Engg (3)					23.5
Projects (BTP + DE) + Internship + Comprehensive Viva						Development Engineering Project (3)	Industrial Internship & Comprehensive Viva (3.5) *	BTP Capstone Project I (3)	BTP Capstone Project II (3)	12.5

* Industrial Internship will be in the summer semester, however it will be registered in a regular semester (e.g.) 7th semester. Evaluation for the internship and comprehensive viva will be conducted in the regular semester.

Program Core (CSE / EE / ME / CE/CH)		Program Core (3)	Program Core (8)	Program Core (8)	Program Core (10.5)	Program Core (6.5) + Program Core and/or Electives (6)		Program Elective (3)	Program Elective (3)	48
Honors (CSE / EE / ME / CE/CH)								Honors Project 1 (5)	Honors Project 2 (5)	10
Extra - Curricula r	NCC/NSS/NSO I (1)	NCC/NSS/N SO II (1)	NCC/NSS/N SO III (1)	NCC/NSS/N SO IV (1)						4
Biology					Biology for Engineers (3)					3
Minor / Concentration / Honors Related Open Elective					Minor / Concentrati on / Honors Related Coursewor k(4)	Minor / Concentrati on / Honors Related Coursework (4)		Minor / Concentra tion / Honors Related Coursework (4)	Minor / Concentrati on / Honors Related Coursewor k(3)	15
Open Electives								Open Elective I (3)	Open Elective II (3)	6
Total credits (B.Tech.+Minors +Honors)	18	18.5	19.5	19	22	22.5	3.5	24	23	170
Total credits (B.Tech.+Minor)	18	18.5	19.5	19	22	22.5	3.5	19	18	160
Total credits (B.Tech.)	18	18.5	19.5	19	18	18.5	3.5	15	15	145

3 FEES

3.1 MODE OF PAYMENT

(a) **Institute dues**

All Institute dues shall be paid through SB Collect to "IIT Ropar Fee account, IIT Ropar". In case of Bank loan by the student, the fee can be deposited / transferred through Internet Banking. No fee in cash is accepted.

(b) **Mess dues**

Mess dues shall be paid through SB Collect to "The Director, IIT Ropar, Hostel Account". In case of Bank loan by the student, the fee can be deposited / transferred through Internet Banking. No fee in cash is accepted.

3.2 DEADLINES FOR PAYMENT

(a) **Institute dues**

- (i) All the students will be informed through email the schedule for deposit of Institute fee, Hostel fee.
- (ii) All Institute dues to be paid in full before the last date for Late Registration (this is typically one week after the first day of classes).
- (iii) Students who do not pay the required amount by the due date, or those who make partial payments, their registration shall be cancelled. Their registration will be restored on payment of fees and a fine as stipulated in the Institute rules.

(b) **Mess dues**

All Mess dues are to be paid on or before the date for Registration Validation as notified by the Institute.

3.3 REFUND OF FEES

The whole amount of fees/other charges deposited by the students will be refundable after deduction of Rs. 1,000/-, if the students do not join the programme after paying the dues and leave the Institute by applying for refund on or before the date of registration. No refund of fees will be permissible to the students who have registered for the programme but leave immediately thereafter or later. In such cases, only caution money will be refunded and that too only at the end of the semester.

3.4 GUIDELINES FOR CONTINUATION FEES DURING SEMESTER WITHDRAWAL

- a. Wherever semester withdrawal for a student is approved as per the Institute rules, the semester fees are waived off for the student(s).
- b. During the withdrawal period, a continuation fee of 3000/- will be charged to maintain his / her enrollment / registration in the Institute.
- c. The student is required to pay semester fees for a period of at least 8 semester (4 Years).

3.5 WITHDRAWAL FROM THE INSTITUTE

If a student is continuously absent from the Institute for more than four weeks without informing the Dean (Academics), his/her name will be removed from the Institute rolls. Such absence during the first year will render the B.Tech. student ineligible for re-admission.

A B.Tech. student wishing to leave the Institute on his/her own should submit an application duly countersigned by his/her father/guardian. He/she shall also obtain "Clearance Certificate" from the Department, the Librarian, the Warden, the Officer Commanding, NCC, and the Accounts Section, and submit to the Academics Section (UG) for settling his/her accounts in the Accounts Section. The student shall remain liable to pay all dues till the date on which his/her name is formally struck off the Institute rolls.

3.6 TRANSCRIPTS, DEGREE AND OTHER CERTIFICATES

Additional transcripts, duplicate degrees/diplomas, etc can be obtained on payment of the following charges:

a) Degree, in person		: Rs.1000
b) Degree, in absentia	(In India)	: Rs.1000
	(In Abroad)	: Rs.1500
	Or	: US\$150
c) Migration Certificate * (Only one original)		: Rs.500
d) Duplicate Degree/certificate *(Only one Original)	(In India)	: Rs.2500
	(In Abroad)	: US\$250
e) Transcripts * (1 Original + 4 Attested Copies)	(In India)	: Rs.1000
	(In Abroad)	: US\$50
f) Duplicate Identity Card *		: Rs.500
g) Certificate of medium of instruction in English * (Only one original)	(In India)	: Rs.100
	(In Abroad)	: US\$10
h) Verification of degree certificate, JEE Rank, membership of Institute bodies, etc. (for each individual verification)	(In India)	: Rs.1000
	(In Abroad)	: US\$100
i) Character Certificate (only one original) *	(In India)	: 100
	(In Abroad)	: US\$10

***Postal charges extra**

3.7 PROCEDURE FOR ISSUE OF DUPLICATE DEGREE CERTIFICATE / GRADE SHEETS FROM IIT ROPAR.

The duplicate Degree certificate/Grade Sheets are issued only if the original Degree certificate/Grade Sheets are lost or stolen.

A. Procedure

The following procedure is to be adopted by the candidate for getting duplicate Degree certificate / Grade Sheets issued from IIT Ropar:

1. Lodge an FIR (First Information Report) for the same to the nearest Police Station.
2. Publish in the newspaper about the loss of the Degree certificate / Grade Sheets.
3. Provide an affidavit prepared by a Notary on a non-judicial stamp paper. (The matter to be printed on the affidavit is detailed below)
4. Write an application addressed to "The Dean (Academics), IIT Ropar" mentioning the loss of your degree and reference of the above documents.
5. Attach a photocopy of the original Degree certificate / Gradesheets conferred on you by IIT Ropar (if available).

B. Charges

- a. **For Duplicate Degree Certificate:** Candidate has to [pay online](#) an amount of Rs.2500/- (Rupees Two Thousand Five Hundred Only) in India or US\$ 250 (US Dollar Two Hundred Fifty Only) in abroad.
- b. **For Grade Sheet (for one or all grade sheet):** Candidate has to [pay online](#) an amount of Rs 2500/- (Rupees Rupees Two Thousand Five Hundred Only) in India or US\$ 250 (US Dollar Two Hundred Fifty Only) in abroad
- c. Postal Charges Extra.
- d. **The following is the steps to be used for payment:**
 - a. Go to <https://www.onlinesbi.sbi/>
 - b. Select SB Collect
 - c. Select IIT Ropar (Institute name)
 - d. Select payment category: **FEE FOR DUPLICATE DEGREE CERTIFICATE/GRADE SHEETS**
 - e. Enter your entry number and click on Fetch payment details
 - f. Fill the details and complete the payment procedure.
 - g. Please fill the correct Mobile number and email ID to get payment status.

C. Processing

Attach all the above documents in Original along with your application and send it at the following address:

Dean (Academics), Academic Section

East Wing, 2ndFloor,

M. Visvesvaraya Building

Indian Institute of Technology Ropar, Rupnagar-140001 (Punjab) INDIA

Kindly note that it takes approximately 15 working days from the day of receiving the above documents to process an application for the issuance of a duplicate Degree (this excludes postal time).

Proforma for Affidavit

(To be printed on a non-judicial stamp paper of Rs.50/-)

AFFIDAVIT

I, <NAME OF THE CANDIDATE> son of Shri. <NAME OF FATHER / MOTHER>, Resident of <PRESENT RESIDENTIAL ADDRESS>, hereby solemnly declare and affirm as under:

1. That, I was a student of Indian Institute of Technology Ropar from <MONTH & YEAR> till <MONTH & YEAR>.
2. That, I appeared and passed <NAME OF THE PROGRAMME> the Degree in <NAME OF BRANCH> from Indian Institute of Technology Ropar in the year <GRADUATING YEAR>.
3. That, the original<NAME OF THE PROGRAMME> Degree Certificate / Grade Sheets conferred upon me by the Indian Institute of Technology Ropar has actually been lost and to the best of my knowledge and belief, there is no immediate likelihood of the said original certificate being traced out.
4. That, in the unlikely event of the original degree certificate ever getting found, will not be misused.

Deponent

Verification

Verified that the contents of this affidavit are true and correct to the best of my knowledge and belief and nothing has been concealed therein.

Date: <DATE OF WRITING AFFIDAVIT >

Place: <CURRENT CITY OF YOUR STAY>

Deponent

3.8 PROCEDURE FOR NAME CHANGE IN THE INSTITUTE

The procedure for a name correction/ change in the Institute follows a formal process. The general procedure usually includes the following:

Write a Formal Application to the Dean Undergraduate (UG) stating reason for name change along with supporting documents as following.

- 12th certificate with corrected / changed name.
- Gazette notification
- Affidavit of name change
- Updated government-issued ID (passport, driver's license, Aadhar card, etc.)
- Information about name change must be published in the two news papers (One must be in the local news paper)

3.9 DETAILS OF SEMESTER FEES FOR THE YEAR 2025-26:

3.9.1DETAILS OF SEMESTER FEES FOR THE YEAR 2025-26 FOR FOREIGN NATIONAL:

Institute Fees	Foreign Nationals
Tuition Fees	Rs. 1 Lac for SAARC countries & Rs. 1.5 Lacs for Non-SAARC countries (per semester)
Non-refundable fees	Rs.6090/- (one-time payment at the time of admission)
Refundable fees	Rs.10,500/-
Other misc. fees	Rs. 16,435/-/ Rs. 15,645/-
Total fees	Rs. 1,33,025/- for SAARC Rs. 1,83,025/- for Non-SAARC
Fees per semester	Rs. 1,16,435/-/ Rs. 1,15,645/- for SAARC Rs.1,66,435/- / Rs. 1,65,645/- for Non-SAARC

NOTE : OCI/PIO IS TO BE TREATED AS INDIAN NATIONALS FOR PAYMENT OF FEE.

3.9.2 DETAILS OF SEMESTER FEES FOR THE YEAR 2025-26 FOR INDIAN NATIONAL:

Sr.No.	Particulars	Amount
1	SEMESTER FEES	(INR)
1.1	INSTITUTE FEES	
	i) Tuition Fee	100000
	ii) Examination Fee	735
	iii) Registration/Enrolment Fee	525
	iv) Gymkhana Fee	1260
	v) Medical Fee	210
	vi) Laboratory & other facilities	2100
	vii) Library	1050
	viii) Development Fund	2100
	ix) Student Amenities Fee	2100
1.2	HOSTEL FEES+	
	i) Hostel Seat Rent	3150
	ii) Fan, Electricity and water charges	2415
	TOTAL (Semester Fees to be paid)	115645
2	ONE TIME PAYMENTS (Non-Refundable)	
	To be paid at the time of admission.	
	Admission Fees	1050
	Grade Card	420
	Provisional Certificate	210
	Student Welfare Fund	630
	Modernization Fees	420
	Identity card	210
	Benevolent fund	525
	Alumni Affairs fee	2100
	Training and Placement	525
	Total (onetime payment at the time of admission)	6090
3	Deposits (Refundable)	
	Institute security deposit	5250
	Library security deposit	5250
4	OTHER PAYMENTS	
	Insurance scheme (to be paid every year in 1st semester)	790
	TOTAL FEES	133025

The fee payable at IIT Ropar is subject to change as per the Institute rules.

Note :

- I) All SC and ST students will get 100% exemption from payment of tuition fee.
- II) The *Economically weaker students (whose family income is less than Rs.1 lakh per annum, shall get full exemption from payment of tuition fee).
- III) The *other Economically weaker students (whose family income is between Rs.1 lakh to Rs.5 lakh per annum, shall get exemption from payment of tuition fee equivalent to 2/3rd of the tuition fee.

* Irrespective of the caste category of the students.

3.10 HOSTEL/MESS FEES : To be notified separately

*subject to revision in every semester.

Please Note : The students are required to pay the Hostel/Mess Fees every semester.

4 DISCIPLINE AND ATTENDANCE

4.1 DISCIPLINE

- (a) Students are expected to dress and to conduct themselves in a proper manner.
- (b) All forms of ragging are prohibited. If any incident of ragging comes to the notice of the authorities, the student concerned shall be given the opportunity to explain. If the explanation is not found to be satisfactory, the authorities can expel him/her from the Institute. The case will be handled as per UGC REGULATION ON CURBING THE MENACE OF RAGGING IN HIGHER EDUCATIONAL INSTITUTIONS, 2009. The detailed guidelines are mentioned at page no 61.
- (c) The students are expected to conduct themselves in a manner that provides a safe working environment for women. Sexual harassment of any kind is not tolerable and will attract appropriate disciplinary action.

4.2 PUNISHMENT TO THE STUDENTS WHO INDULGE IN UNFAIR MEANS DURING QUIZZES/MIDSEMESTER/END-SEMESTER EXAMINATIONS.

The following graded punishments will be imposed on those who indulge in Academic Malpractices—unfair means during quizzes/Mid-semester/End-semester examinations. In such cases, the parents of that student would be informed of such indiscipline:

(a) For rude behaviour

- (i) Severe warning shall be issued to a student who is found to display rude behaviour towards fellow students /invigilators.
- (ii) The student is liable to be expelled from the examination hall.

(b) Malpractices and corresponding Punishments:

S.No.	Nature of Malpractice	Recommended Punishment
1	Communicating with neighbours in the examination hall.	The erring student(s) shall be awarded 'F' grade in the subject concerned.
2.	Possessing incriminating* materials inside the examination hall. (or) Possessing the answer book of another candidate. (or) Passing on answer book to another student.(or) Exchange of question papers, with some answers noted down on them. (or) Individual referral of material/discussion with other students, during visit outside the examination hall.	The Disciplinary Committee shall have the discretion to recommend one of the following punishments: (a) The erring student(s) shall be awarded 'F' grade in the subject concerned. (or) (b) The erring student(s) shall be awarded 'F' grade in the subject concerned and one grade less in all the other subjects in the concerned semester. (or) (c) The concerned student(s) shall be awarded 'F' grade in all the subjects in the concerned semester.

3.	Involved in malpractice in the examination for the second time, in a premeditated manner.	The concerned student i) shall be awarded 'F' grade in all subjects, in the concerned semester and ii) shall be debarred from attending classes and taking examinations in the subsequent semester.
4.	Impersonation in the examination.	The concerned student i) shall be awarded 'F' grade in all subjects, in the concerned semester and ii) shall be debarred from attending classes and taking examinations in the next two subsequent semesters.

(* incriminating materials include written/printed material; unauthorized additional sheets without or with write-ups, bits, scribbles on scales / handkerchief / on the body; abuse of calculator / organizer / cell phone, etc.)

INDIAN INSTITUTE OF TECHNOLOGY ROPAR, PUNJAB

THE HONOUR CODE

I, Entry No.....

Do hereby undertake that as a student of IIT Ropar, Punjab:

1. I will not give or receive aid in examination; that I will not give or receive unpermitted aid in classwork, in preparation of reports or in other work that is to be used by the instructor as the basis of grading; and
2. I will do my share and take an active part in seeing to it that others as well as I uphold the spirit and letter of the Honour Code.
3. I realize that some examples of misconduct which are regarded as being in violation of the Honour Code include:
 - Copying from another's examination paper or allowing another to copy from one's own paper;
 - Unpermitted collaboration;
 - Plagiarism;
 - Revising and resubmitting a marked quiz or examination paper for regarding without the instructor's knowledge and concern;
 - Giving or receiving unpermitted aid on take home examination;
 - Representing as one's own work the work of another, including information available on the internet;
 - Giving or receiving aid on academic assignments under circumstances in which a responsible person should have known that such aid was not permitted; and
 - Committing a cyber offence such as breaking passwords and accounts, sharing passwords, electronic copying, planting viruses etc.

I accept that any act of mine that can be considered to be an Honour Code violation will invite disciplinary action.

Date:.....

Student's Signature.....

Name:.....

Entry No:

6 ACADEMIC INTEGRITY

1. Cases of ethical lapses emanating from institutions of scientific research are increasingly being reported in the news. In this context, we need to create awareness and come up with a set of clear guidelines to maintain academic integrity. A flourishing academic environment entails individual and community responsibility for doing so. The three broad categories of improper academic behavior that will be considered are: I) plagiarism, II) cheating and III) conflict of interest.
2. Cases of ethical plagiarism are the use of material, ideas, figures, code or data without appropriate acknowledgment or permission (in some cases) of the original source. This may involve submission of material, verbatim or paraphrased, that is authored by another person or published earlier by oneself. Examples of plagiarism include:
 - (a) Reproducing, in whole or part, text/sentences from a report, book, thesis, publication or internet.
 - (b) Reproducing one's own previously published data, illustrations, figures, images, or someone else's data, etc.
 - (c) Taking material from class-notes or downloading material from internet sites, and incorporating it in one's class reports, presentations, manuscripts or thesis without citing the original source.
 - (d) Self-plagiarism, which constitutes copying verbatim from one's own earlier published work in a journal or conference proceedings without appropriate citations.The resources given in Subsection (8) explain how to carry out proper referencing, as well as examples of plagiarism and how to avoid it.
3. Cheating is another form of unacceptable academic behavior and may be classified into different categories:
 - (a) Copying during exams, and copying of homework assignments, term papers or manuscripts.
 - (b) Allowing or facilitating copying, or writing a report or exam for someone else.
 - (c) Using unauthorized material, copying, collaborating when not authorized, and purchasing or borrowing papers or material from various sources.
 - (d) Fabricating (making up) or falsifying (manipulating) data and reporting them in thesis and publications.
4. Some guidelines for academic conduct are provided below to guard against negligence as well as deliberate dishonesty:
 - (a) Use proper methodology for experiments and computational work. Accurately describe and compile data.
 - (b) Carefully record and save primary and secondary data such as original pictures, instrument data readouts, laboratory notebooks, and computer folders. There should be minimal digital manipulation of images/photos; the original version should be saved for later scrutiny, if required, and the changes made should be clearly described.
 - (c) Ensure robust reproducibility and statistical analysis of experiments and simulations. It is important to be truthful about the data and not to omit some data points to make an impressive figure (commonly known as "cherry picking").
 - (d) Lab notebooks must be well maintained in bound notebooks with printed page numbers to enable checking later during publications or patent. Date should be indicated on each page.
 - (e) Write clearly in your own words. It is necessary to resist the temptation to "copy and paste" from the Internet or other sources for class assignments, manuscripts and thesis.
 - (f) Give due credit to previous reports, methods, computer programs etc. with appropriate citations. Material taken from your own published work should also be cited; as mentioned above, it will be considered self-plagiarism otherwise.
5. A clash of personal or private interests with professional activities can lead to a potential conflict of interest, in diverse activities such as teaching, research, publication, work on committees, research funding and consultancy. It is necessary to protect actual professional independence, objectivity and commitment, and also to avoid an appearance of any impropriety arising from conflicts of interest. Conflict of interest is not restricted to personal financial gain; it extends to a large gamut of professional academic activities including peer reviewing, serving on various committees, which may, for example, oversee funding or give

recognition, as well as influencing public policy. To promote transparency and enhance credibility, potential conflicts of interests must be disclosed in writing to appropriate authorities, so that a considered decision can be made on a case-by-case basis. Some additional information is available in the section below dealing with resources.

6. The responsibility varies with the role one plays.
 - (a) Student roles: Before submitting a thesis to the department, the student is responsible for checking the thesis for plagiarism using software that is available on the web. In addition, the student should certify that they are aware of the academic guidelines of the institute, have checked their document for plagiarism, and that the thesis is original work. A web-check does not necessarily rule out plagiarism.
 - (b) Faculty should ensure that proper methods are followed for experiments, computations and theoretical developments, and that data are properly recorded and saved for future reference. In addition, they should review manuscripts and theses carefully. Apart from the student certification regarding a web-check for plagiarism for theses, the Institute will provide some commercial software at SERC for plagiarism checking. Faculty members are encouraged to use this facility for checking reports, theses and manuscripts. Faculty members are also responsible for ensuring personal compliance with the above broad issues relating to academic integrity.
 - (c) A breach of academic integrity is a serious offence with long lasting consequences for both the individual and the institute, and this can lead to various sanctions. In the case of a student, the first violation of academic breach will lead to a warning and/or an "F" course grade. A repeat offence, if deemed sufficiently serious, could lead to expulsion. It is recommended that faculty members bring any academic violations to the notice of the Department Chairman. Upon receipt of reports of scientific misconduct, the Director may appoint a committee to investigate the matter and suggest appropriate measures on a case to case basis.
7. The Indian Institute of Technology Ropar will own the Intellectual Property (IP) made or created by any student carrying out research under the supervision of any employee of the Institute, or the IP developed individually by the student in the course of his/her studies at IIT Ropar, or with any use of IIT Ropar facilities. By accepting admission to IIT Ropar, a student agrees to assign to the IIT Ropar all such IP made or created at IIT Ropar, including inventions and copyrightable material; and to execute all papers required to assign, apply for, obtain, maintain, issue and enforce IP and IP rights.
8. References:
 1. National Academy of Sciences article "On being a scientist,"
http://www.nap.edu/openbook.php?record_id=4917&paRI
 2. <http://www.admin.cam.ac.uk/univ/plagiarism/>
 3. <http://www.aresearchguide.com/6plagiar.html>
 4. <https://www.indiana.edu/~tedfrick/plagiarism>
 5. <http://www.files.chem.vt.edu/chem-ed/ethics/index.html>
 6. http://www.ncusd203.org/central/html/where/plagiarism_stoppers.html
 7. <http://sja.ucdavis.edu/files/plagiarism.pdf>
 8. <http://web.mit.edu/academicintegrity/>
 9. <http://www.northwestern.edu/provost/students/integrity/>
 10. <http://www.ais.up.ac.za/plagiarism/websources.htm#info>
 11. <http://ori.dhhs.gov/>
 12. <http://www.scientificvalues.org/ceses.html>

7 SCHOLARSHIPS AND FELLOWSHIPS

7.1 SCHOLARSHIP FOR B.TECH. STUDENTS

7.1.1 INSTITUTE MERIT-CUM-MEANS (MCM) SCHOLARSHIPS

The Institute offers Merit-cum-Means scholarships to under-graduate students in engineering and technology. These are permissible to about 25% of the students. The present value of Merit-cum-Means scholarship is Rs.1000 per month for general category students and the recipient is exempted from paying tuition fee. 4-year B.Tech. students are eligible to receive Merit-cum-Means scholarship at the time of joining the Institute. The criterion of merit for the first year is All India Rank (AIR) in the JEE. The scholarships are renewed on a yearly basis until he/she clears all academic requirements of the programme, provided that he/she continues to satisfy the eligibility and continuation criteria.

For continuation of MCM, the performance of the students will be reviewed at the end of each semester. The first such review will be held at the end of the second semester.

On the criterion of means, only those students are presently eligible whose parents have a gross yearly income up to Rs. 4.5 lacs per annum. This criterion is applicable for all categories of students including SC/ST students. The terms and conditions of the award of the scholarship are laid down in the rules and regulations thereof in force and are subject to change from time to time.

Continuation of MCM Scholarship: For the general category students, the requirements of merit for the continuation of Institute Merit-cum-Means Scholarship are:

- CGPA must be 6.0 or more; and
- Earned credits should not less than 18 times the number of semesters registered for OR actual no. of credits offered by the department;
- SGPA in the previous semester must be 6.0 or more
- The SGPA, CGPA, Credits of Basic B.Tech. will only be considered.
- The SGPA requirement will be waived for the students having only “Additional Internship” in the semester in which he/she does additional internship.

7.1.2 INSTITUTE MERIT PRIZES AND CERTIFICATES

The Institute offers merit prizes and certificates to the top 7% of the students of each 4-year B.Tech. Programme for the 1st and 2nd semester. The value of merit prize is Rs. 2500. The rules are as follows

1. For Merit Prizes and Certificates, the top 7% of the students admitted or sanctioned capacity whichever is less will be eligible in order of merit. In case the 7% limit is exceeded by virtue of more than one student having same merit, those students will also be eligible for these awards. The students having SGPA/CGPA less than 8.50 will not be considered for the award of merit prizes and certificates.
2. If 7% departmental strength is less than one, the students with highest CGPA subject to minimum 8.5 will be awarded the merit prizes of Rs.2500/-.
3. A prize of Rs.2500/- will be paid to all students entitled to merit prizes. This will be in addition to any scholarship that student may receive from any source whatsoever.
4. The SGPA, CGPA, Credits of Basic B. Tech. will only be considered for award of 7% merit prize and certificates.
5. The award will be given to top 7% of the students each semester based on their SGPA in the previous semester.
6. The award of 1st year students will be given in 2nd semester based on their performance in 1st semester.
7. There will be common merit list of all students for the first year students. The merit list from 2nd to 5th year will be made discipline wise.
8. Any student except final semester, having less than 18 earned credits in the semester under consideration will not be eligible for merit prizes. All the credits of courses repeated by the student in the semester under consideration will not count towards the 18 earned credits mentioned above.

9. All graduating students subject to 7% limit will be considered eligible for awards on SGPA basis obtained during 8th/10th semester. In case of a tie, merit prize will be awarded to the student with higher CGPA.
10. The SGPA, CGPA, Credits of Basic B.Tech. will only be considered for award of 7% merit prize and certificates.
11. The SGPA requirement will be waived for the students having only "Additional Internship" in the semester in which he/she does additional internship.

7.1.3 INSTITUTE FREE STUDENTSHIP

The Institute offers free studentship to 10% of the students on the basis of means alone. The recipient is exempted from paying tuition fee. Students who are not eligible for the award of MCM Scholarship on the basis of their parent's income will not be considered eligible for the award of Free Studentship Scholarship.

On the criterion of means, only those students are presently eligible whose parents have a gross yearly income up to Rs. 4.5 lac per annum. This criterion is applicable for all categories of students including SC/ST students. If the slots are available in this scholarship scheme, the eligible students can be granted scholarship at any time, during their program on their request only. The terms and conditions of the award of the scholarship are laid down in the rules and regulations thereof in force and are subject to change from time to time.

Continuation of Free studentship : For the general category students, the requirements of merit for the continuation of Institute Free studentship Scholarship are:

- CGPA must be 6.0 or more; and
- Earned credits should not less than 18 times the number of semesters registered for OR actual no. of credits offered by the department;
- SGPA in the previous semester must be 6.0 or more
- The SGPA, CGPA, Credits of Basic B.Tech. will only be considered.
- The SGPA requirement will be waived for the students having only "Additional Internship" in the semester in which he/she does additional internship.

7.1.4 SCHOLARSHIP PROVISION FOR STUDENTS OF SC/ST CATEGORY

- (a) Tuition fee exemption is admissible to all SC/ST students irrespective of their parents/guardians income.
- (b) The Institute offers a scholarship of Rs. 300/- per month and exemption from paying room rent of the hostel, only to those SC/ST students whose parent'/guardians' income does not exceed the limit prescribed by the Government of India from time to time for the award of Merit-cum-Means scholarship.

or

Free messing scholarship: The students can opt for free mess facilities (basic menu) and Rs.250/- per month as pocket allowance in lieu of the amount of the scholarship.

All the eligible SC/ST students while on training or doing courses during semester breaks or required to stay in the Institute during the semester breaks or exempted to take meals from the hostel due to medical reasons etc. may be given a payment of Rs. 70/- as pocket allowance (per month) and a per diem allowance in lieu of free mess facilities on the basis of prevalent average rate of mess charges as applicable from time to time.

- (c) Where an SC/ST candidate fails in the examination for the first time, the award may be renewed subject to a maximum limit of 5 years.

7.2 OTHER MISCELLANEOUS SCHOLARSHIPS FROM CENTRAL GOVERNMENT /STATE GOVERNMENT / NGO'S / SOME EXTERNAL AGENCIES:

7.2.1 NATIONAL SCHOLARSHIPS PORTAL (FOR ALL CATEGORY STUDENTS):

National Scholarships Portal is one-stop solution through which various services starting from student application, application receipt, processing, sanction and disbursement of various scholarships to Student are enabled. Where all scholarships information available under one umbrella. Various scholarship schemes are launched/offered by Union Government, State Government and Union Territories for students on National Scholarship Portal. Single integrated application used for all scholarships.

The student can opt for these scholarship offered to them by State/Central Government and other external agencies/NGO's. Students are required to apply for this scholarship to <https://scholarships.gov.in>.

7.2.2 DR. B.R AMBEDKAR SCHOLARSHIP PORTAL :

<http://www.scholarships.punjab.gov.in/Default.aspx>.

7.2.3 MUKHYA MANTRI MEDHAVI VIDHYARTI YOJANA (MMVY):

http://scholarshipportal.mp.nic.in/slogin.aspx?ReturnUrl=%2fInstituteAdmin%2fVariousSchemes%2fMMVY%2fReports%2fView_Applications.aspx

7.2.4 E-KALYAN _DEPARTMENT OF SCHEDULED TRIBE, SCHEDULED CASTE, MINORITY AND BACKWARD CLASS WELFARE, GOVT.OF JHARKHAND : <https://ekalyan.cgg.gov.in/>

7.2.5 BIHAR POST MATRIC SCHOLARSHIP :

[https://pmsonline.bih.nic.in/pmsedu/\(S\(0srb2etyanwscwqy5tlki53\)\)/pms/Default.aspx](https://pmsonline.bih.nic.in/pmsedu/(S(0srb2etyanwscwqy5tlki53))/pms/Default.aspx)

7.2.6 PMSSS J & K SCHOLARSHIP

<https://www.aicte-jk-scholarship-gov.in/institutes/login.php>

7.2.7 SOME EXTERNAL AGENCIES:

FAEA / Reliance foundation / NTSE etc. Student can avail scholarships from their parents employer, if any departments offers.

7.2.8 JEE ADVANCED RANK MERIT SCHOLARSHIP:

B.Tech. Students satisfying the below criteria are eligible for the JEE Advanced rank merit scholarship:

(A). Merit scholarship to 2% to 3% of the students having JEE Advanced Rank given below will be provided scholarship as follows:

1	JEE Advanced Rank 1to 500 in common Rank list (CRL)	Scholarship equivalent to the full tuition fees.
2	JEE Advanced Rank 501 to 1000 in common Rank list (CRL)	Scholarship equivalent to the half tuition fees.

(B). For continuation of the scholarship, the students have to fulfill the following criteria.

- CGPA must be 7.0 or more; and
- Earned credits should not less than 18 times the no. of semesters registered for.
SGPA in the previous semester must be 7.0 more.

7.2.9 GUIDELINES FOR VIDYA LAXMI LOAN SCHEME.

Vidya Lakshmi Education Loan Scheme was launched under the Pradhan Mantri Vidya Lakshmi Karyakram to increase the literacy rates in the country. Under this scheme, the interest subvention is given to the students subject to their satisfactory academic performance in the institution. Students interested to take loan are required to visit to the website www.vidyalakshmi.com.in. Students can view, apply and track the education loan applications to banks anytime, anywhere by accessing the portal.

Following is the criteria for satisfactory Academic performance for Vidya Laxmi Loan Scheme

1. The student should secure a minimum CGPA of 5.00 at the end of each semester.
2. There should not be any backlog in any registered course throughout the academic programme.
3. Earned credits should not less than 18 times the number of semesters registered for OR actual no. of credits offered by the department.
4. There should not be any disciplinary action against the student seeking interest subvention on education loan.

7.2.10 FINANCIAL AID AND STUDENT LOANS

The PM-Vidyalaxmi Scheme, a Government of India initiative offering collateral-free and guarantor-free education loans is available for **all meritorious students** who are getting admission in this Institution and who are desirous of availing education loans to pursue higher education. You can visit the portal <https://pmvidyalaxmi.co.in>. The portal does not charge any amount from the applicant. Through the portal, you can:

- Apply to multiple banks for education loan,
- Access collateral-free and guarantor-free education loans,
- Benefit of interest subsidies available to eligible students as per schemes guidelines accessible at https://www.education.gov.in/sites/upload_files/mhrd/files/document-reports/PM_Vidyalaxmi_Scheme_Guidelines.pdf (Annexure-D).
- To address queries raised by the students, there is a dedicated Toll-free number 1800-1031."

8. NALANDA LIBRARY

The Nalanda Library at IIT Ropar is an invaluable resource for knowledge and learning, playing a crucial role in supporting various academic and research activities at the institute. The library's primary objective is to provide users with the necessary information resources and support by offering the latest services that are integrated with teaching, learning, and research.

In addition to textbooks and recommended readings for each course offered at the institute, the library houses a growing collection of research monographs, reports, multi-volume reference works, dictionaries, encyclopedias, handbooks, and more. It also boasts a substantial collection of theses, dissertations, and annual reports, as well as standards in the fields of science, engineering, technology, humanities, and social sciences. The library facilitates access to over 13,000 electronic journals from 30 publishers through its participation in the One Nation One Subscription (ONOS) initiative by the Government of India. Additionally, it subscribes to several e-journals directly from publishers and through reputable subscription agencies.

Currently, users can consult more than 25,000 books available on shelves, along with thousands of electronic books. The library provides online access to specialized databases, including economic and

political databases such as Prowess IQ and CMIE States of India, as well as scientometric databases like Scopus, MathSciNet, and Web of Science. To assist researchers in improving their scientific writing skills and ensuring the originality of their work, the library offers online access to tools such as Overleaf, Grammarly, and Turnitin.

The library's circulation operations have been automated using RFID-based LMS-KOHA software. The Online Public Access Catalogue (OPAC), which is publicly accessible, enables users to search for documents in the library's collection. The library implements Radio Frequency Identification Technology (RFID), a cutting-edge auto-identification technique that supports self-service and enhances security.

A dedicated Digital Learning Hub has been established in the library, where users can access e-journals and browse CDs and DVDs containing books, theses, and dissertations. Additionally, the library has created an Institutional Digital Repository (IDR) using open-source DSpace software to archive and provide online access to the institute's intellectual output. The IDR is publicly available, facilitating the dissemination of scholarly work while promoting the institution's visibility.

To further enhance resource accessibility, the library has developed a web-based Subject/Research Guide using the Subject Plus tool. This guide allows users to explore comprehensive library resources based on subject areas or research interests, including e-journals, books/e-books, databases, and theses/dissertations. The library is continually striving to identify and adopt emerging academic and research support tools, thereby helping the institute achieve its vision and mission.

9. HEALTH CARE

The Institute Medical Centre is located in a separate building adjacent to the hostel complex on the Main Campus. A team of doctors, pharmacists, and nursing staff has been appointed to assist campus residents in case of a medical emergency. We also have a state-of-the-art ambulance for medical emergencies. Additionally, the Institute collaborates with several super specialty hospitals in the cities of Ropar, Mohali, and Chandigarh to provide advanced medical care to its members.

10. HOSTEL ACCOMMODATION

The vibrant campus of IIT Ropar boasts an impressive array of accommodations with four boys' hostels—Satluj, Beas, Chenab, and Brahmaputra Boys—and three girls' hostels—Raavi, T-6, and Brahmaputra Girls—each situated within the central expanse of the grounds. These hostels are thoughtfully designed and well-furnished, providing a comfortable haven for students. Each residence features inviting common rooms that serve as lively spaces for recreational activities, fostering a sense of community among the residents.

The campus further enhances the student experience with spacious and airy common dining areas, allowing for social gatherings over shared meals. Excellent drinking water facilities are readily available in all hostels, ensuring the wellness of students. Each hostel is equipped with a wealth of common amenities, including indoor recreational spaces and various games, catering to diverse interests. Adding to the convenience, a selection of shops within the hostel precincts caters to the everyday needs of the residents, making life on campus even more accommodating.

Moreover, the institute takes pride in its well-maintained gymnasium, offering students fitness facilities to help them stay active and healthy amid their rigorous academic schedules. The lush greenery surrounding the IIT campus breathes life into the daily routines of students, creating an enchanting environment that inspires creativity and tranquility.

At IIT Ropar, campus life is vibrant and dynamic, with students encouraged to explore their hidden talents and reignite their passions. State-of-the-art classrooms equipped with advanced audiovisual aids, alongside cutting-edge laboratories that offer the latest research tools, significantly enhance the teaching and learning experience. The high-tech library, replete with a vast collection of books, journals, and periodicals, serves as a gateway for students to connect with a world of knowledge and information.

To cater to diverse palates, the mess has undergone thoughtful updates to its menu, offering students an extensive selection of meal options. With a foundation of a fixed base menu, students can also choose from additional items at an extra cost, allowing for a more personalized dining experience.

At IIT Ropar, students not only engage in rigorous academic pursuits but also thrive in research and extracurricular activities, developing into well-rounded aspiring engineers grounded in moral and ethical integrity. The carefully curated environment nurtures both personal growth and academic excellence, preparing students for their future endeavors.

***Note: Hostel accommodation will be provided on a sharing basis only depending upon the availability.**

11. STUDENT ACTIVITIES

Under the ambit of Student Affairs Section, there are various Boards/Clubs viz Board of Science & Technology (BOST), Board of Cultural Affairs (BOCA), Board of Sports Affairs (BOSA), Board of Literary Affairs (BOLA) etc. which aims to promote various technological, cultural and other aspects among the student fraternity and to develop their overall skills.

In addition, there are various clubs under these boards viz Alankar (Music) Club, Dance Club, Dramatics (Undekha) Club, Arturo (Photography) Club, Fine Arts clubs, Epicure-The Cooking Club, and also Clubs in Board of Science & Technology viz Robotic, Monochrome, Astronomy, Quiz, Coding clubs, where the students can participate and develop a well- rounded personality. Apart from above all, an Outdoor Adventure Club (ODAC), Snehit Wellbeing Cell are also there for the physical and mental wellness of Students.

12. STUDENT LIFE AT INSTITUTE

Currently, the Main Campus offers excellent facilities for a variety of sports, including a cricket field, three lawn tennis courts, a football field, a hockey field, a gymnasium, a basketball court, badminton courts, an athletics track, and a table tennis room. The Institute encourages students to participate in inter-IIT sports events and other competitions. There are also spaces available for recreational and creative activities.

13. GENERAL FACILITIES

The Institute has a Bank branch of SBI as well as a Post office to cater to the needs of the faculty, staff and students.

14. DETAILS OF MEDALS

Name of the Medal	Criteria for Award
President Gold Medal	A candidate who obtains the highest CGPA among all students obtaining a B.Tech. degree in that year from the 4 year B.Tech. programme. In case there is a tie, the medal is awarded to the student with the largest earned credits.
Director Gold Medal	A candidate who is adjudged as the best all-rounder from amongst the graduating students of the 4 year B.Tech. programme.
Institute Gold Medal	A candidate securing a CGPA of 10, other than the one who has been awarded the President's Gold medal.
Institute Silver Medal (For each programme)	A candidate (one in each programme) who obtains the highest CGPA among and undergraduate graduating class of the Institute in his/her programme. No silver medal will be awarded in the discipline from which a student gets the President's Gold Medal & Institute Gold Medal. A minimum CGPA of 8.5 is required for the Institute Silver Medal; in case no graduating student satisfies this criterion, the student with the highest CGPA is given a certificate.

Sl No	Name of the Medal	Criteria for award of Medals	Recommending authority
1	President Gold Medal	The student getting highest CGPA in the batch of graduating students	Director
2	Director's Gold medal	<p>Student who is adjudged to be the best all-rounder (in semester examinations, activities in the Department, Hall of Residence and participation in Gymkhana games & sports) at the end of the eighth semester for B.Tech. A minimum CGPA of 8.5 is required for the Director's Gold medal.</p> <p>Distribution of weightage of different activities for determining the eligibility for the award is as follows :</p> <p>(i) Academic record : 40%</p> <p>(ii) Departmental activities : 20%</p> <p>(iii) Activities in the Halls of Residences : 20%</p> <p>(iv) Performance under Technology, Students' Gymkhana : 20%</p>	<p>HOD-For academic performance</p> <p>Dept- for departmental activities</p> <p>Warden for Hall of residence</p> <p>Convenors of sports / Gymkhana for other activities</p>

3	Institute Silver Medal	To a candidate (one in each programme) who obtains the highest CGPA among and undergraduate graduating class of the Institute in his/her programme. No silver medal will be awarded in the discipline from which a student gets the President's Gold Medal & Institute Gold Medal. A minimum CGPA of 8.5 is required for the Institute Silver Medal.	HOD
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It may further be noted that :A student is eligible for the award of any medals or prize if :

- (i) In awarding all the medals the minimum CGPA required is 8.5. in the case of Institute silver medal, if the CGPA of the student in a particular department is less than 8.5, a certificate will be issued.
- (ii) He/she has not failed in any subject at any stage during his/her academic career till the time of the award.
- (iii) No disciplinary action has been taken against him/her for any offence at any time prior to the award.
- (iv) He/she has not been punished under examination malpractice and involved in violation of code of conduct at any stage of the course in the Institute/Hall of Residence/Department /Gymkhana etc.

In the event of a tie between two or more students, the number of credits one has completed at the end of the degree is taken into consideration to arrive at a decision. In case there is a tie again their performance at the end of the immediately preceding semester will be taken into consideration for deciding the award. This criterion will be exclusively applied including using the All-India-Rank in the JEE till the tie is broken.

15. ACADEMIC CALENDAR FOR THE 1ST SEMESTER OF ACADEMIC YEAR 2025-26

Please visit - www.iitrpr.ac.in/academic-calendar-

16. UGC REGULATION ON CURBING THE MENACE OF RAGGING IN HIGHER EDUCATIONAL INSTITUTIONS, 2009

In exercise of the powers conferred by Clause (g) of Sub-Section (I) of Section 26 of the University Grants Commission Act, 1956, the University Grants Commission hereby makes the following Regulations, namely -

1. Title, commencement and applicability: -

- 1.1. These regulations shall be called the "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009".
- 1.2. They shall come into force with immediate effect.
- 1.3. They shall apply to all the universities established or incorporated by or under a Central Act, a Provincial Act or a State Act, to all institutions deemed to be university under Section 3 of the UGC Act, 1956, to all other higher educational institutions, including the departments, constituent units and all the premises (academic, residential, sports, canteen, etc) of such universities, deemed universities and other higher educational institutions, whether located within the campus or outside, and to all means of transportation of students whether public or private.

2. Objective:-

To root out ragging in all its forms from universities, colleges and other educational institutions in the country by prohibiting it by law, preventing its occurrence by following the provisions of these Regulations and punishing those who indulge in ragging as provided for in these Regulations and the appropriate law in force.

3. Definitions:-For the purposes of these Regulations:-

- 3.1. " college" means any institution, whether known as such or by any other name, which provides for a programme of study beyond 12 years of schooling for obtaining qualification from a university and which, in accordance with the rules and regulations of such university, is recognized as competent to provide for such programme of study and present students undergoing such programme of study for the examination for the award of such qualification.
- 3.2. "Head of the institution" means the 'Vice-Chancellor' in case of a university/deemed to be university, 'Principal' in case of a college, 'Director' in case of an institute
- 3.3. "institution" means a higher educational institution (HEI), like a university, a college, an institute, etc. imparting higher education beyond 12 years of schooling leading to a degree (graduate, postgraduate and/or higher level) and/or to a university diploma.
- 3.4. "Ragging" means the following:

Any conduct whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student.

- 3.5. "Statutory/Regulatory body" means a body so constituted by a Central/ State Government legislation for setting and maintaining standards in the relevant areas of higher education, such as the All India Council for Technical Education (AICTE), the Bar Council of India (BCI), the Dental Council of India(DCI),the Distance Education Council(DEC),the Indian Council of Agricultural Research (ICAR), the Indian Nursing Council (INC), the Medical Council of India (MCI), the National Council for Teacher Education (NCTE), the Pharmacy Council of India (PCI), etc. and the State Higher Education Councils.
- 3.6. "University" means a university established or incorporated by or under a Central Act, a Provincial Act or a State Act, an institution deemed to be university under Section 3 of the UGC Act, 1956, or an institution specially empowered by an Act of Parliament to confer or grant degrees.

4. Punishable ingredients of Ragging:-

- Abetment to ragging;
- Criminal conspiracy to rag;
- Unlawful assembly and rioting while ragging;
- Public nuisance created during ragging;
- Violation of decency and morals through ragging;
- Injury to body, causing hurt or grievous hurt;
- Wrongful restraint;
- Wrongful confinement;
- Use of criminal force;
- Assault as well as sexual offences or unnatural offences;
- Extortion;
- Criminal trespass;
- Offences against property;
- Criminal intimidation;
- Attempts to commit any or all of the above mentioned offences against the victim(s);
- Physical or psychological humiliation;
- All other offences following from the definition of "Ragging".

5. Measures for prohibition of ragging at the institution level:-

- 4.1 The institution shall strictly observe the provisions of the Act of the Central Government and the State Governments, if any, or if enacted, considering ragging as a cognizable offence under the law on a par with rape and other atrocities against women and ill-treatment of persons belonging to the SC/ST, and prohibiting ragging in all its forms in all institutions.
- 4.2 Ragging in all its forms shall be totally banned in the entire institution, including its departments, constituent units, all its premises (academic, residential, sports,canteen, etc) whether located within the campus or outside and in all means of transportation of students whether public or private.
- 4.3 The institution shall take strict action against those found guilty of ragging and/or of abetting ragging.

6. Measures for prevention of ragging at the institution level: -

6.1 Before admissions: -

- 6.1.1 The advertisement for admissions shall clearly mention that ragging is totally banned in the institution, and anyone found guilty of ragging and/or abetting ragging is liable to be punished appropriately (for punishments, ref section 8 below).

- 6.1.2 The brochure of admission/instruction booklet for candidates shall print in block letters these Regulations in full (including Annexures).
- 6.1.3 The 'Prospectus' and other admission related documents shall incorporate all directions of the Supreme Court and /or the Central or State Governments as applicable, so that the candidates and their parents/ guardians are sensitized in respect of the prohibition and consequences of ragging. If the institution is an affiliating university, it shall make it mandatory for the institutions under it to compulsorily incorporate such information in their 'Prospectus'.
- 6.1.4 The application form for admission/ enrolment shall have a printed undertaking, preferably both in English/Hindi and in one of the regional languages known to the institution and the applicant (English version given in Annexure I, Part I), to be filled up and signed by the candidate to the effect that he/she is aware of the law regarding prohibition of ragging as well as the punishments, and to the effect that he/she has not been expelled and/or debarred from admission by any institution and that he/she, if found guilty of the offence of ragging and/or abetting ragging, is liable to be punished appropriately.
- 6.1.5 The application form shall also contain a printed undertaking, preferably both in English/Hindi and in one of the regional languages known to the institution and the parent/ guardian (English version given in Annexure I, Part II), to be signed by the parent/ guardian of the applicant to the effect that he/she is also aware of the law in this regard and agrees to abide by the punishment meted out to his/ her ward in case the latter is found guilty of ragging and/or abetting ragging.
- 6.1.6 The application for admission shall be accompanied by a document in the form of the School Leaving Certificate/Transfer Certificate/ Migration Certificate/ Character Certificate which shall include a report on the behavioral pattern of the applicant, so that the institution can thereafter keep intense watch upon a student who has a negative entry in this regard.
- 6.1.7 A student seeking admission to the hostel shall have to submit additional undertaking in the form of Annexure I(both Parts) along with his/ her application for hostel accommodation.
- 6.1.8 At the commencement of the academic session the Head of the Institution shall convene and address a meeting of various functionaries/agencies, like Hostel Wardens, representatives of students, parents/ guardians, faculty, district administration including police, to discuss the measures to be taken to prevent ragging in the Institution and steps to be taken to identify the offenders and punish them suitably.
- 6.1.9 To make the community at large and the students in particular aware of the dehumanizing effect of ragging, and the approach of the institution towards those indulging in ragging, big posters (preferably multicolored with different colours for the provisions of law, punishments, etc.) shall be prominently displayed on all Notice Boards of all departments, hostels and other buildings as well as at vulnerable places. Some of such posters shall be of permanent nature incertain vulnerable places.
- 6.1.10 The institution shall request the media to give adequate publicity to the law prohibiting ragging and the negative aspects of ragging and the institution's resolve to ban ragging and punish those found guilty without fear or favour.
- 6.1.11 The institution shall identify, properly illuminate and man all vulnerable locations.
- 6.1.12 The institution shall tighten security in its premises, especially at the vulnerable places. If necessary, intense policing shall be resorted to at such points at odd hours during the early months of the academic session.
- 6.1.13 The institution shall utilize the vacation period before the start of the new academic year to launch wide publicity campaign against ragging through

posters, leaflets. seminars, street plays, etc.

- 6.1.14 The faculties/ departments/ units of the institution shall have induction arrangements (including those which anticipate, identify and plan to meet any special needs of any specific section of students) in place well in advance of the beginning of the academic year with a clear sense of the main aims and objectives of the induction process.

6.2 On admission:-

- 6.2.1 Every fresh student admitted to the institution shall be given a printed leaflet detailing when and to whom he/she has to turn to for help and guidance for various purposes (including Wardens, Head of the institution, members of the anti-ragging committees, relevant district and police authorities), addresses and telephone numbers of such persons/authorities ,etc., so that the fresher need not look upto the seniors for help in such matter sand get indebted to them and start doing things, right or wrong, at their behest. Such a step will reduce the freshers' dependence on their seniors.
- 6.2.2 The institution through the leaflet mentioned above shall explain to the new entrants the arrangements for their induction and orientation which promote efficient and effective means of integrating them fully as student.
- 6.2.3 The leaflet mentioned above shall also inform the freshers about their rights as bona fide students of the institution and clearly instructing them that they should desist from doing anything against their will even if ordered by the seniors, and that they have nothing to fear as the institution cares for them and shall not tolerate any atrocities against them.
- 6.2.4 The leaflet mentioned above shall contain a calendar of events and activities laid down by the institution to facilitate and complement familiarization of freshers with the academic environment of the institution.
- 6.2.5 The institution shall also organize joint sensitization programmes of' freshers' and seniors.
- 6.2.6 Freshers shall be encouraged to report incidents of ragging, either as victims, or even as witnesses.

6.3 At the end of the academic year:-

- 6.3.1 At the end of every academic year the Vice-Chancellor/ Dean of Students Welfare/ Director/ Principal shall send a letter to the parents/ guardians of the students who are completing the first year informing them about the law regarding ragging and the punishments, and appealing to them to impress upon their wards to desist from indulging in ragging when they come back at the beginning of the next academic session.
- 6.3.2 At the end of every academic year the institution shall form a 'Mentoring Cell' consisting of Mentors for the succeeding academic year. There shall be as many level sortiers of Mentors as the number of batches in the institution, at the rate of 1 Mentor for 6 freshers and 1 Mentor of a higher level for 6 Mentors of the lower level.

6.4 Setting up of Committees and their functions: -

- 6.4.1 The Anti-Ragging Committee: -The Anti-Ragging Committee shall be headed by the Head of the institution and shall consist of representatives of faculty members, parents, students belonging to the freshers' category as well as seniors and non-teaching staff. It shall monitor the anti-ragging activities in the institution, consider the recommendations of the Anti-Ragging Squad and take appropriate decisions, including spelling out suitable punishments to those found guilty.
- 6.4.2 The Anti-Ragging Squad:- The Anti-Ragging Squad shall be nominated by the Head of the

institution with such representation as considered necessary and shall consist of members belonging to the various sections of the campus community. The Squad shall have vigil, oversight and patrolling functions. It shall be kept mobile, alert and active at all times and shall be empowered to inspect places of potential ragging and make surprise raids on hostels and other hot spots. The Squad shall investigate incidents of ragging and make recommendations to the Anti-Ragging Committee and shall work under the overall guidance of the said Committee.

- 6.4.3 **Monitoring Cell on Ragging:-** If the institution is an affiliating university, it shall have a Monitoring Cell on Ragging to coordinate with the institutions affiliated to it by calling for reports from the Heads of such institutions regarding the activities of the Anti-Ragging Committees, Squads, and Mentoring Cells, regarding compliance with the instructions on conducting orientation programmes, counseling sessions, etc., and regarding the incidents of ragging, the problems faced by wardens and other officials, etc. This Cell shall also review the efforts made by such institutions to publicize anti-ragging measures, cross-verify the receipt of undertakings from candidates/students and their parents/guardians every year, and shall be the prime mover for initiating action by the university authorities to suitably amend the Statutes or Ordinances or Bye-laws to facilitate the implementation of anti ragging measures at the level of the institution.

6.5 Other measures:-

- 6.5.1 The Annexures mentioned in sub-clauses 6.1.4, 6.1.5 and 6.1.7 of these Regulations shall be furnished at the beginning of each academic year by every student, that is, by freshers as well as seniors.
- 6.5.2 The institution shall arrange for regular and periodic psychological counseling and orientation for students (for freshers separately, as well as jointly with seniors) by professional counselors during the first three months of the new academic year. This shall be done at the institution and department/ course levels. Parents and teachers shall also be involved in such sessions.
- 6.5.3 Apart from placing posters mentioned in sub-clause 6.1.9 above at strategic places, the institution shall undertake measures for extensive publicity against ragging by means of audio-visual aids, by holding counseling sessions, workshops, painting and design competitions among students and other methods as it deems fit.
- 6.5.4 If the institution has B.Ed. and other Teacher training programmes, these courses shall be mandated to provide for anti-ragging and the relevant human rights appreciation inputs, as well as topics on sensitization against corporal punishments and checking of bullying amongst students, so that every teacher is equipped to handle at least the rudiments of the counseling approach.
- 6.5.5 Wardens shall be appointed as per the eligibility criteria laid down for the post reflecting both the command and control aspects of maintaining discipline, as well as the softer skills of counseling and communicating with the youth outside the class-room situations. Wardens shall be accessible at all hours and shall be provided with mobile phones. The institution shall review and suitably enhance the powers and perquisites of Wardens and authorities involved in curbing the menace of ragging.
- 6.5.6 The security personnel posted in hostels shall be under the direct control of the Wardens and assessed by them.
- 6.5.7 Private commercially managed lodges and hostels shall be registered with the local police authorities, and this shall be done necessarily on the recommendation of the Head of the institution. Local police, local administration and the institutional authorities shall ensure vigil on incidents that may come within the definition of ragging and shall be responsible for action in the event of ragging in such premises, just as they would be for incidents within the campus. Managements of such private hostels shall be responsible for not reporting cases of ragging in their premises.

- 6.5.8 The Head of the institution shall take immediate action on receipt of the recommendations of the Anti-Ragging Squad. He/ She shall also take action suo motto if the circumstances so warrant.
- 6.5.9 Freshers who do not report the incidents of ragging either as victims or as witnesses shall also be punished suitably.
- 6.5.10 Anonymous random surveys shall be conducted across the Ist year batch of freshers every fortnight during the first three months of the academic year to verify and cross-check whether the campus is indeed free of ragging or not. The institution may design its own methodology of conducting such surveys.
- 6.5.11 The burden of proof shall lie on the perpetrator of ragging and not on the victim.
- 6.5.12 The institution shall file an FIR with the police / local authorities whenever a case of ragging is reported, but continue with its own enquiry and other measures without waiting for action on the part of the police/ local authorities. Remedial action shall be initiated and completed within the one week of the incident itself
- 6.5.13 The Migration / Transfer Certificate issued to the student by the institution shall have an entry, apart from those relating to general conduct and behaviour, whether the student has been punished for the offence of committing or abetting ragging, or not, as also whether the student has displayed persistent violent or aggressive behaviour or any inclination to harm others.
- 6.5.14 Preventing or acting against ragging shall be the collective responsibility of all levels and sections of authorities or functionaries in the institution, including faculty, and not merely that of the specific body/ committee constituted for prevention of ragging.
- 6.5.15 The Heads of institutions other than universities shall submit weekly reports to the Vice-chancellor of the university the institution is affiliated to or recognized by, during the first three months of new academic year and thereafter each month on the status of compliance with anti-ragging measures. The Vice Chancellor of each university shall submit fortnightly reports of the university, including those of the Monitoring Cell on Ragging in case of an affiliating university, to the Chancellor.
- 6.5.16 Access to mobile phones and public phones shall be unrestricted in hostels and campuses, except in class-rooms, seminar halls, library etc. where jammers shall be installed to restrict the use of mobile phones.

6.6 Measures for encouraging healthy interaction between fresher's and seniors: -

- 6.6.1 The institution shall set up appropriate committees including the course- in-charge, student advisor, Warden and some senior students to actively monitor, promote and regulate healthy interaction between the freshers and senior students.
- 6.6.2 Freshers' welcome parties shall be organized in each department by the senior students and the faculty together soon after admissions, preferably within the first two weeks of the beginning of the academic session, for proper introduction to one another and where the talents of the freshers are brought out properly in the presence of the faculty, thus helping them to shed their inferiority complex, if any, and remove their inhibitions.
- 6.6.3 The institution shall enhance the student-faculty interaction by involving the students in all matters of the institution, except those relating to the actual processes of evaluation and of faculty appointments, so that the students shall feel that they are responsible partners in managing the affairs of the institution and consequently the credit due to the institution for good work/ performance is due to them as well.
- 6.6.4

7. Measures at the UGC/Statutory/Regulatory body level:-

7.1 Regulatory measures:-

- 7.1.1 The UGC and other Statutory /Regulatory bodies shall make it mandatory for the institutions to compulsorily incorporate in their 'Prospectus' the directions of the Supreme Court and/or the Central or State Governments with regard to prohibition and consequences of ragging, and that non-compliance with the directives against ragging in any manner whatsoever shall be considered as lowering of academic standards by the erring institution making it liable for appropriate action.
- 7.1.2 The UGC(including NAAC and UGC Expert Committees visiting institutions for various purposes) and similar Committees of other Statutory/Regulatory bodies shall cross-verify that the institutions strictly comply with the requirement of getting the undertakings from the students and their parents/ guardians as envisaged under these Regulations.
- 7.1.3 The UGC and other funding bodies shall make it one of the conditions in the Utilization Certificate for sanctioning any financial assistance or aid to the institution under any of the general or special schemes that the institution has strictly complied with the anti-ragging measures and has a blemish-less record in terms of there being no incidents of ragging during the period pertaining to the Utilization Certificate.
- 7.1.4 The NAAC and other accrediting bodies shall factor in any incident of ragging in the institution while assessing the institution in different grades.

7.2 Incentives for curbing ragging: -

- 7.2.1 The UGC shall consider providing special/ additional annual financial grants-in-aid to those eligible institutions which report a blemish-less record in terms of there being no incidents of ragging.
- 7.2.2 The UGC shall also consider instituting another category of financial awards or incentives for those eligible institutions which take stringent action against those responsible for incidents of ragging.
- 7.2.3 The UGC shall lay down the necessary incentive for the post of Warden in order to attract the right type of eligible candidates, and motivate the incumbents.

7.3 Monitoring mechanism to ensure compliance: -

Apart from the monitoring mechanism built in under different sub-clauses of these Regulations, there shall also be the following monitoring mechanism:

- 7.3.1 The UGC shall constitute an Inter-Council Committee for prevention of Ragging consisting of representatives of the AICTE, the IITs, the NITs, the IIMs, the MCI, the DCI, the NCI, the ICAR and such other bodies which have to deal with higher education to coordinate and monitor the anti-ragging movement across the country and to make certain policy decisions. The said Committee shall meet at least twice a year in the normal course.
- 7.3.2 The UGC shall also have an Anti-Ragging Cell within the Commission as an institutional mechanism to provide secretarial support for collection of information and monitoring, and to coordinate with the State level and university level Committees for effective implementation of anti-ragging measures.

8. Punishments:-

8.1 At the institution level:-

Depending upon the nature and gravity of the offence as established by the Anti- Ragging Committee of the institution, the possible punishments for those found guilty of ragging at

the institution level shall be any one or any combination of the following:

- 8.1.1 Suspension from attending classes and academic privileges
- 8.1.2 Withholding/withdrawing scholarship/fellowship and other benefits
- 8.1.3 Debarring from appearing in any test/examination or other evaluation process
- 8.1.4 Withholding results
- 8.1.5 Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
- 8.1.6 Suspension/expulsion from the hostel
- 8.1.7 Cancellation of admission
- 8.1.8 Rustication from the institution for period ranging from 1 to 4 semesters
- 8.1.9 Expulsion from the institution and consequent debarring from admission to any other institution for a specified period.
- 8.1.10 Fine ranging between Rupees 25,000/- and Rupees 1 lakh
- 8.1.11 Collective punishment: When the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment.

8.2 At the university level in respect of institutions under it:-

If an institution under a university (being constituent of, affiliated to or recognized by it) fails to comply with any of the provisions of these Regulations and fails to curb ragging effectively, the university may impose any one or any combination of the following penalties on it:

- 8.1.1 Withdrawal of affiliation/recognition or other privileges conferred on it
- 8.1.2 Prohibiting such institution from presenting any students then undergoing any programme of study therein for the award of any degree/diploma of the university
- 8.1.3 Withholding grants allocated to it by the university, if any
- 8.1.4 Withholding any grants channelised through the university to the institution
- 8.1.5 Any other appropriate penalty within the powers of the university.

8.3 At the appointing authority level:-

The authorities of the institution, particularly the Head of the institution, shall be responsible to ensure that no incident of ragging takes place in the institution. In case any incident of ragging takes place, the Head shall take prompt and appropriate action against the person(s) whose dereliction of duty lead to the incident. The authority designated to appoint the Head shall, in its turn, take prompt and appropriate action against the Head.

8.4 At the UGC/Statutory/Regulatory body level:-

If an institution fails to curb ragging, the UGC/Statutory/Regulatory body concerned may impose any one or any combination of the following penalties on it:

- 8.4.1 Delisting the institution from section 12B of the UGC Act or any similar provision in the Act of the Statutory/Regulatory body concerned.
- 1.4.2 Withholding any grants allocated to it
- 1.4.3 Declaring the institution ineligible for consideration for any assistance under any of the general or special assistance programmes of the UGC/Statutory/Regulatory body concerned
- 1.4.4 Declaring that the institution does not have the minimum academic standards and warning the potential candidates for admission accordingly through public notice and posting on the UGC Website/Website of the Statutory/Regulatory body concerned.
- 1.4.5 Taking such other action within its powers as it may deem fit and impose such other penalties as provided till such time as the institution achieves the objective of curbing ragging.
- 1.4.6 Collaborating with one another to work out other possible deterrents.

PLEASE NOTE:**Advisory from UGC regarding revised procedure of Anti-Ragging Undertaking:**

- The students have to mandatorily fill the undertaking at the below link: https://antiragging.in/affidavit_registration_disclaimer.html
- Further, note down the generated unique reference number for future reference.

National Anti-Ragging Helpline**24x7 Toll Free****1800-180-5522****helpline@antiragging.in | www.antiragging.in****8.2 At the university level in respect of institutions under it:-**

If an institution under a university (being constituent of, affiliated to or recognized by it) fails to comply with any of the provisions of these Regulations and fails to curb ragging effectively, the university may impose any one or any combination of the following penalties on it:

- 8.2.1 Withdrawal of affiliation/ recognition or other privileges conferred on it
- 8.2.2 Prohibiting such institution from presenting any students then undergoing any programme of study therein for the award of any degree/diploma of the university
- 8.2.3 Withholding grants allocated to it by the university, if any
- 8.2.4 Withholding any grants channellised through the university to the institution
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- 8.4.1 Delisting the institution from section 12B of the UGC Act or any similar provision in the Act of the Statutory/Regulatory body concerned
- 8.4.2 Withholding any grants allocated to it
- 8.4.3 Declaring the institution ineligible for consideration for any assistance under any of the general or special assistance programmes of the UGC/Statutory/Regulatory body concerned

- 8.4.4 Declaring that the institution does not have the minimum academic standards and warning the potential candidates for admission accordingly through public notice and posting on the UGC Website/ Website of the Statutory/Regulatory body concerned.
- 8.4.5 Taking such other action within its powers as it may deem fit and impose such other penalties as provided till such time as the institution achieves the objective of curbing ragging.
- 8.4.6 Collaborating with one another to work out other possible deterrents.

ANNEXURE I, Part I

UNDERTAKING BY THE CANDIDATE/STUDENT

1. I, S/o. O/o. of Mr./Mrs./Ms.

have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard.

2. I have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, and have carefully gone through it.

3. I hereby undertake that

- I will not indulge in any behavior or act that may come under the definition of ragging,
- I will not participate in or abet or propagate ragging in any form,
- I will not hurt anyone physically or psychologically or cause any other harm.

4. I hereby agree that if found guilty of any aspect of ragging, I may be punished as per the provisions of the UGC Regulations mentioned above and/or as per the law in force.

5. I hereby affirm that I have not been expelled or debarred from admission by any institution.

Signed this day of month of Year

Signature

Name:

Address:

ANNEXURE I, Part II

UNDERTAKING BY PARENT/GUARDIAN

1. I, *F/o. M/o. G/o*

have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard as well as the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009.

2. I assure you that my son/ daughter/ ward will not indulge in any act of ragging.

3. I hereby agree that if he/she is found guilty of any aspect of ragging, he/she may be punished as per the provisions of the UGC Regulations mentioned above and/or as per the law in force.

Signed this day of month of Year

Signature

Name:

Address:

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