PUDUCHERRY TECHNOLOGICAL UNIVERSITY
PUDUCHERRY-605014
(A Technological University of Government of Puducherry)

REGULATIONS
FOR

B.Tech. Degree Programme

(2024-25)

(Approved in the Fourth Academic Council Meeting held on 23rd December 2024)

CONTENTS

1	SHORT TITLE AND COMMENCEMENT
	1.1	These Regulations shall be called as NEP Regulations 2024 of Puducherry Technological University (PTU). They have been evolved, to implement the Government of India's National Education Policy NEP 2020.
	1.2	These Regulations will come into force from the Academic Year 2024-25
	1.3	These Regulations shall apply to all Departments of Puducherry Technological University for the award of Degrees/Diplomas and certificates.
	1.4	These set of Regulations, may supersede all the corresponding earlier sets of Regulations of the University, along with all the amendments thereto, and shall be binding on all students undergoing the said Degree Programme(s).

2	PRELIMINARY DEFINITIONS

Terms used in the NEP Regulations by AICTE/UGC shall have the same meaning in this Regulations unless otherwise specified

	a	**"Board of Governors"** means, the Governing Body of the Puducherry Technological University
	b	**"Academic Council"** means Academic Council of the Puducherry Technological University
	c	**"University "** means Puducherry Technological University
	d	**"BoS"** means Board of Studies of a specific Department of the University
	e	**"Discipline"** means Branch or Specialization of B.Tech Degree Programme
	f	**"Programme"** means a combination of courses and/or requirements to be completed that lead to a Degree, Diploma or Certificate
	g	**"Academic Year"** means two semesters. One ODD semester starting in June/July and one EVEN semester starting in December/January
	h	**"Semester"** means 15-16 weeks of teaching learning session and normally consists of 90 working days (including examination days).An academic Year is divided into two semesters.
	i	**"Course"** is referred to, as 'papers' and is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. Each course is to be identified by a unique course code and course title. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

	j	**"Credit"** is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
	k	**"Grade Point"** is a numerical weight allotted to each letter grade on a 10-point scale.
	l	**"Letter Grade"** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, F .
	m	**"Credit Point"** It is the product of grade point and number of credits for a course.
	n	**"Credit Requirement"** for a Degree/Diploma/Certificate means the minimum number of credits that a student shall accumulate to achieve the status to be qualified to receive the said Degree, Diploma/Certificate
	o	**"Semester Grade Point Average (SGPA)"** is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester to the total course credits taken during that semester. It shall be expressed up to two decimal places.
	p	**"Cumulative Grade Point Average (CGPA)"** is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters to the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
	q	**Academic Bank of Credit (ABC)** is a centralized Digital Depository of Ministry of Education, Government of India. ABC will digitally store the academic credits earned by students from HEIs and facilitate the academic mobility of students through transfer of credits in accordance with the UGC Regulations on "Establishment and Operation of Academic Bank of Credits in Higher Education".
	r	**"Exit Options"** means the option exercised by the student to leave the Programme at the end of any given Academic Year.
	s	**"Lateral Entry"** means a student being admitted into an ongoing programme of the University other than 1st year of the Programme.
	t	**Academic Courses Committee** will be the body to approve the courses credited by the student outside the University. The rolls and responsibilities of the ACC will be defined in the Academic Ordinances of the University and will be in line with the ACT and statute of PTU
	u	**Academic Appeal Board (AAP)** The Academic Appeals Board will receive the grievance/complaints in writing from the aggrieved student regarding anomaly in award of marks. The board will examine the complaints and recommend appropriate measures to the Head of the Institution, for necessary action

3. ELIGIBILITY FOR ADMISSION

3.1 Candidates admitted into the first semester of the eight semester B.Tech Degree Programme shall be required to have a pass in Higher Secondary Examination (Academic 10+2) curriculum or equivalent stage of education corresponding to NHEQF/NSQF Level-4 with Unified credit Level 4 (Ref: Circular vide AICTE/P&AP/Misc/2022 dated 06-07-2022). Any revisions announced thereafter by MHRD/AICTE/UGC will be applicable after due amendments by the concerned regulatory Body of the PTU.

3.2 Lateral Entry Admission

(i) Candidates admitted directly to the second year of B.Tech Programme are required to possess a Diploma in Engineering/Technology awarded by the Board of Technical Education approved by the UT of Puducherry in the respective/equivalent Discipline at the NHEQF/NSQF Level-5 with Unified credit Level 4.5

(ii) Candidates other than clause 3.2(i) are eligible to be admitted to the 2 /3 /4th year of B.Tech Programme are required to have obtained the Certificate/ Diploma/Degree from Puducherry Technological University as stipulated in clause 6.

(iii) Admission to Other University/college students as re-entrants in 2nd/3rd/4th year in PTU will be considered depending upon the available vacancy in the branch of study. The admission will be subject to the satisfaction of the entry criteria stipulated by the office of Director (Academic & EI).

4. PROGRAMMES OFFERED

A student may be offered admission to any one of the Programme of study approved by the University and offered by various Departments of the University. The recommended credits for B.Tech Degree Programme is in the range of 160 -164 credits.

5. DURATION OF THE PROGRAMME

(i) A student is expected to complete the B.Tech Programme in 4 years or eight semesters for HSC /equivalent students who are admitted in the first year of study. For lateral entrants and re-entrants it shall be 3/2/1 years depending on their entry in 2nd /3rd /4th year of the programme

(ii) The stipulated maximum period of B.Tech Programme is 7 years from the date of admission to the first year of the programme

(iii) If a student wants to leave after the completion of the first or second year, the student will be given a UG Certificate or UG Diploma, respectively, provided they secure the

prescribed number of credits and the additional vocational course and evaluation for 4 credits (Refer Table 1). Students who desire to leave after the completion of third year will be given UG degree B.Sc. (Engg.) in a major discipline provided they secure the prescribed number of credits

(iv) Students who exit with a UG certificate, UG Diploma or UG Degree are permitted to re-enter the Programme and complete the B.Tech. programme within the stipulated maximum period of 7 years excluding their exit duration.

(v) For these re-entrants the 4 credits earned through the vocational course and evaluation (for UG certificate and UG Diploma exit categories) will not be considered for the total credits for the award of B.Tech. degree.

6. **AWARDING OF UG CERTIFICATE, UG DIPLOMA AND DEGREES**

The prescribed number of credits and requirements for the award of UG Degrees/UG Diploma/UG Certificate is detailed in Table 1.

6.1 **UG Certificate**

(i) Students who opt to exit after completion of first year of B.Tech Programme and have secured the prescribed number of credits will be awarded a UG certificate if, in addition they complete one vocational course of 8 weeks duration(4 credits) during the summer vacation of the first year. The vocational course shall be practical/industry oriented course. This vocational course will be evaluated by a duly constituted committee in the same manner as the evaluation of internship (Clause 15.5.2).

(ii) This vocational course shall be offered by PTU also.

(iii) The duration of the programme is 1 year

(iv) These students are allowed to re-enter the B.Tech degree programme and can complete the degree programme.

6.2 **UG Diploma**

(i) Students who opt to exit after completion of second year of B.Tech Programme and have secured the prescribed number of credits will be awarded a UG Diploma if, in addition they complete one vocational course of 8 weeks duration(4 credits) during the summer vacation of the second year. The vocational course shall be practical/industry oriented course. This vocational course will be evaluated by a duly constituted committee in the same manner as the evaluation of internship (Clause 15.5.2).

(ii)   This vocational course shall be offered by PTU also.

(iii)   The duration of the programme is 2 years

(iv)   These students are allowed to re-enter the B.Tech degree programme and can complete the degree programme..

6.3 **3 year UG Degree B.Sc.(Engg.)**

(i)   Students who opt to exit after completion of third year of B.Tech Programme and have secured the prescribed number of credits will be awarded a UG Degree B.Sc.(Engg.)

(ii)   The duration of the programme is 3 years

(iii)   These students are allowed to re-enter the B.Tech degree programme and can complete the degree programme.

6.4 **4 year UG Degree B.Tech / B.Tech (Honours)**

(i)   A four year UG Degree in Technology, **B.Tech in the major Discipline** will be awarded to those who complete a four year degree programme and have satisfied the credit requirements as mentioned in Table 1

(ii)   A four year UG Honours Degree in Technology, **B.Tech. (Honours) in the major Discipline** will be awarded to those who complete a four year degree programme with the prescribed credits and additional 18 credits in the major discipline of study as given in Table 1. Further in addition to completing the prescribed credits and additional 18 credits in the major discipline the candidate should satisfy the prescribed CGPA and passing criteria for the award of B.Tech (Honours) as specified in clause 8

7.   STRUCTURE OF THE UNDERGRADUATE PROGRAMME

7.1   The medium of instruction is English

7.2   Total credits

(i)   Total credits of all the courses in the curriculum for the `B.Tech degree shall be normally 160 credits but is permitted to be in the range of 160-164

(ii)   The student opting for B.Tech. degree with Honours is required to earn additional 18 credits starting from fourth semester

(iii)   The students admitted in the second year through lateral entry and opting for Honours degree will have to earn the additional 18 credits starting from fourth semester

7.3   The curriculum of every B.Tech programme will have courses that are categorized as follows

   (i)   Basic Science Courses (BSC) include Mathematics, Physics Chemistry, etc

   (ii)   Engineering Sciences Courses (ESC)   include Engineering Graphics, Programming for problem solving, etc

   (iii)   Professional Core Courses includes core subjects, project works, Comprehensive viva.

   (iv)   Professional Elective Courses (PEC) include the elective courses relevant to the chosen specialization/ branch.

   (v)   Ancillary Stream Courses (ASC) are group of courses offered by departments other than the parent department.

   (vi)   Ability Enhancement Courses(AEC) are courses which impart language, communication and managerial skills

   (vii)   Skill Enhancement Courses(SEC) are aimed at imparting practical skills, hands-on training, internship, etc., to enhance the employability of students.

   (viii) Value Added Courses (VAC) are aimed to educate students to acquire knowledge ofcontemporary India, Universal Human Values and fitness through YOGA/Sports, etc.

7.4   The UG Programme will consist of the following categories of courses and the minimum credit requirements for UG Certificate, UG Diploma, B.Sc.(Engg.) and 4-year UG B.Tech Programmes are given below

Table 1: Minimum credit requirements for various degrees						
Sl. No.	Course category	Course Category Code (CCC)	UG Certificate	UG Diploma	B. Sc. (Engg) Degree	B.Tech.
1	Basic Science Courses (Mathematics, Physics, and Chemistry)	BSC	16	20	20	20
2	Engineering Science Courses (Engineering Drawing, Programming etc.,)	ESC	06	06	06	06
3	Professional Core Courses (includes core subjects, projectworks, Comprehensive viva)	PCC	08[#]	40[#]	69[#]	90[#]
4	Professional Elective Courses (from chosen discipline)	PEC	-	-	8	12
5	Ancillary Stream Courses (from other technical/ emerging disciplines)	ASC	-	03	09	12

6	Ability Enhancement Courses	AEC	04	08	10	10
7	Skill Enhancement Courses	SEC	06	06	06	06
8	Value Added Courses	VAC	02	04	04	04
	Total Credits		**42***	**87***	**132***	**160#**

* Exit criteria include additional 4 credits to be earned through vocational training during summer and one evaluation.

\# The credit range is 160-164.

Minor variation is allowed as per the need of the respective discipline.

Bachelor's Degree B.Tech (Honours) will include additional 18 credits totaling to a minimum of 178 credits

7.5 Each course will have either one or more of four components namely Lecture (L),Tutorial (T) and Practice (P) and Demonstration (D).

7.6 Credit Assignment

Each course is assigned certain number of credits based on the details given below

Table 2: Credit Assignment	
Contact period/week	**Credits**
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (includes seminar/Project work/Case study)	0.5
1 hour of skill Demonstration	1
1 hour hands-on- training(incudes skill , physical activity)	0.5
2 weeks of Industrial training/Research Internship	1

7.7 Industrial Training/Internship

(i) The students should undergo Industrial training for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for a period of at least two weeks in an organization. This training / Internship is mandatory for degree completion

(ii) The students may undergo Internship at a Research organization / University/ Industry (after due approval from the Head of the Department) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training

(iii) Attendance Certificate mentioning the period of Industrial Training / Internship and signed by the competent authority of the industry, as per the format provided by the University shall be submitted to the Head of the Department

(iv) The internship will be evaluated by a committee and the assessment will be detailed in clause 15.5.2.

(v) The students are allowed to do internship until the end of the summer vacation of sixth semester and the evaluation will be done during the beginning of the seventh semester (preferably in the first week). The grade for the internship will appear in the sixth semester grade card only.

7.8 Mini Project

(i) In the seventh semester students shall undertake a Mini project work in their own discipline to obtain hands-on experience

(ii) Mini Project work may be assigned to a single student or to a group of students, not exceeding 4 per group with a guide from the same department

(iii) The students have to submit a Mini project report on or before the last working day of the semester and the assessment of the same are detailed in clause 15.5.3

7.9 Semester Long Project Work/Industrial Project/Internship

(i) In the final semester students shall undertake a semester long project work in their own discipline/interdisciplinary to obtain hands-on experience. In case of interdisciplinary project a co-supervisor may be chosen from other discipline.

(ii) Project work may be assigned to a single student or to a group of students, not exceeding 4 per group with a guide from the same department

(iii) Students are permitted to undertake a semester long industrial project or semester long internship in an industry / research organization in lieu of the final semester project work, provided the domain of such projects or internships come under the same discipline and approved by Department Courses Committee (DCC) and the industry has no objection in submitting the work carried out as a report. This industrial project or internship is apart from the summer industrial training or summer internship, if any

(iv) If the outcome of the project work is the development of a finished product then it may lead to a start-up activity

(v) The students have to submit a project report or internship report or start-up report on or before the last working day of the semester and the assessment of the same is detailed in clause 15.6

7.10 Comprehensive viva

(i)　　The student is required take a 'Comprehensive Viva' on a scheduled date in the seventh semester.

(ii)　　Comprehensive viva will carry 1 credit.

(iii)　　Comprehensive viva is meant for testing the higher order and critical thinking of the student in the respective domain. This test will have the standard of GATE examination

(iv)　　The student who has failed to clear the Comprehensive Viva shall be given one more chance to appear for the viva before end of eighth semester

7.11　Seminar

(i)　　Applicable for B.Tech (Honours) and it carries 2 credits.

(ii)　　The student will present a Seminar on a topic in an emerging area in his/her discipline of Engineering. The student will make the presentation for duration of 20 to 25 minutes and also submit a brief report on the seminar topic running to 15 or 20 pages for the purpose of evaluation

7.12　Professional Elective Courses (PEC)

(i)　　Professional Elective Courses are the elective courses offered by the parent department.

(ii)　　Each department will offer 3 elective courses

(iii)　　Professional Elective Courses will be offered from fifth to seventh semester.

(iv)　　An elective is offered only if fifteen or more number of students register for the course. Maximum number of students who can register for an elective is limited to seventy five.

(v)　　However, depending upon the demand for a course and the resource availability, the Director (Academic & EI), in consultation with the concerned HoD, can fix the maximum number of students who can be allowed to register for an elective course

7.13　Ability Enhancement Courses (AEC)

(i)　　Ability Enhancement Courses (AECs) aimed at enhancing students' employability and fostering their holistic development

(ii)　　This includes courses in Modern Indian Language (MIL), English language, entrepreneurship and management with a strong emphasis on language, communication and managerial skills.

(iii)　　Students are allowed to register for AEC courses starting from First semester of their academic program. They will be allotted five AEC courses (2 credits each) and are expected to complete all five AEC courses by the end of sixth semester

(iv) Students can select these AEC courses from a list of AEC courses listed in the curriculum or can register for the same through online platforms like NPTEL or SWAYAM .

7.14 Skill Enhancement Courses (SEC)

(i) SECs are Basic Engineering Sciences courses designed to impart practical skills to students. These skills are aligned with the specific needs of the job market. Two SEC courses are offered during the first year of the programme. The goal is to equip students with skills that are immediately applicable in real-world settings.

(ii) Departments have the flexibility to design the SECs based on the specific needs and available resources. Two SEC's are to be completed in the first year of study. These SEC courses are practical based courses and carry 3 credits each.

7.15 Value Added Courses (VAC)

(i) These courses are common to all UG students and aims to provide a holistic education experience.

(ii) Four VAC's will be offered in total starting from first semester to fourth semester. These courses will collectively amount to 4 credits.

(iii) VAC courses will focus on Understanding India, Environmental Science, Universal Human Values and NSS/YOGA/Sports and fitness.

(iv) Students can register and complete some of these courses through online platforms like NPTEL/Swayam

7.16 Ancillary Stream Courses (ASC)

(i) Ancillary stream courses are group o f courses offered by the D epartments.

(ii) A student from a particular branch of study shall register for ancillary courses offered only by departments other than the parent department.

(iii) Ancillary Stream Course consists of a group of 4 theory courses of 3 credits each. These courses will collectively amount to 12 credits.

(iv) Four courses will be offered in an ancillary stream in total starting from fourth semester to seventh semester.

(v) The allotment of Ancillary Steam will be based on the CGPA scored by the student in first three semesters. For lateral entry students' third semester marks will be considered for allotting the ancillary stream.

(vi) Each department in general will offer two or more groups of ancillary stream

courses. It is mandatory for the Departments to offer at least one ancillary stream course.

(vii)   If any student did not get ancillary stream course of his/her choice (first 3 choices), he/she may be given option to choose interdisciplinary ancillary stream course offered by his/her parent department

(viii)   Student has to register and complete all the four courses in one ancillary stream only.

7.17 Courses to be completed through SWAYAM/NPTEL platforms

(i)   A student can have the option to complete ability enhancement courses, value added courses through SWAYAM / NPTEL platforms as per regulation. Honours students can also complete one course through SWAYAM / NPTEL platforms. The courses have to be approved by the DCC. The credit transfer is to be done based on the marks and certificate provided by the NPTEL.

(ii)   The number of credits and transfer of credits are based on the number of weeks and is given in Table 3 and the Mapping of the marks with the grades is as in Table 4. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

Table 3: Duration of the course and Number of credits		
Sl. No.	No. of Weeks	No. of Credits
1.	4	1
2.	8	2
3.	12	3
4.	16	4

Table 4: Mapping of Marks scored in NPTEL course and Credits earned	
Letter Grade	Marks
O	90-100
A+	80-89
A	70-79
B+	60-69
B	50-59

C	40-49

7.18 Off campus courses and transfer of credits

Students are permitted to optionally enroll and study off campus courses from other institutes and earn a maximum of 20% of total credits (32 credits for 160 credits B.Tech Programme) in physical/online/hybrid mode under each UG programme with the approval of DCC and Director (Academic & EI), as per the Regulations. The successful completion of these courses through any of the following modes shall be considered in lieu of courses of the curriculum as approved by DCC

(i) Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 100 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. (NIRF Ranking at the time of enrolling).

(ii) Students are also permitted to enroll and undergo such courses in online mode at Universities abroad in top 500 positions in the latest QS ranking. (QS ranking at the time of enrolling).

(iii) Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in University abroad as per the procedure outlined by the Centre for Academic Courses The credits earned by the students in the University abroad shall be transferred as per the learning agreement. In this case of the students can enroll for the courses with the approval of DCC only if the course is offered directly by Institution/University and not through the edutech platforms. The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by the Director(Academic and EI)

(iv) Students are also permitted to enroll and study the courses in physical/hybrid mode / online mode that are offered by (i) National/State funded research institutions/laboratories. In this case of the students can enroll for the courses with the approval of DCC only if the course is offered directly by research institutions/laboratories. The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by Director (Academic & EI)

Table 5: Course structure for UG Programmes

Semester	Core	Program Elective	ASC	AEC	SEC	VAC	Additional courses for Honour	Total credit
I	Mathematics-I(4) Physics(3) Engineering Graphics(3) Physics Laboratory(1) Professional Core(4)			AEC1(2)	SEC1(3)	VAC1(1)		21
II	Mathematics-II(4) Chemistry(3) Programming for problem solving (2) Chemistry Laboratory(1) Computer Programming Laboratory(1) Professional Core(4)			AEC2(2)	SEC2(3)	VAC2(1)		21
Exit Option with a Bachelor's Certificate in a discipline on completion of courses equal to a minimum of 42 credits In addition a 8 week vocational course of 4 credits have to be completed in the summer vacation								
III	Core (20)			AEC3(2)		VAC3(1)		23
IV	Core (16)		ASC1(3)	AEC4(2)		VAC4(1)	H1(4)	22 +(4)
Exit Option with a Bachelor's Diploma in a discipline on completion of courses equal to a minimum of 87 credits In addition a 8 week vocational course of 4 credits have to be completed in the summer vacation								
V	Core (14)	PE1(4)	ASC2(3)	AEC5(2)			H2(4)	23 +(4)
VI	Core (13) Internship(2)	PE2(4)	ASC3(3)				H3(4)	22 +(4)
Exit Option with a Bachelor's degree in a discipline on completion of courses equal to a minimum of 132 credits								
VII	Core (10-14) Mini project (2) Comprehensive Viva(1)	PE3(4)	ASC4(3)				H4(4)	20-24 +(4)
VIII	Main Project (8)						H5(2) Seminar	8 +(2)
	116-120	12	12	10	6	4	18	160-164 +(18)
Bachelor's Degree in Technology in a discipline on completion of courses equal to a minimum of 160 credits(or) **Bachelor's Degree in Technology (Honours) on completion of courses equal to a minimum of 178 credits**								

8. HONOURS DEGREE

8.1 Honours in the same engineering discipline

8.1.1 The student shall be given an option to enroll for an Honours degree in the same discipline of engineering after the third semester based on his/her academic performance in the first three semesters.

8.1.2 A student is eligible to exercise this option if he/she has passed all the subjects offered in the first three semesters in the first attempt itself and has earned a CGPA of not less than 7.5. The students admitted in the second year through *Lateral Entry* scheme will also be given a chance to opt for *Honours degree*. A lateral entry student is eligible if he/she has passed all the subjects offered in the third semester in the first attempt and has earned a CGPA of not less than 7.5

8.1.3 Number of students who are admitted in the second year to the honours degree in each discipline of engineering shall be limited to 40% of the total intake in that discipline.

8.1.4 Honours degree in a particular discipline of engineering shall be offered for a batch of students if and only if a minimum of 10 eligible students opt for it.

8.1.5 The student is required to earn an additional 18 credits (*over and above the total of 160 credits prescribed in the curriculum*) starting from the fourth semester onwards to become eligible for the award of Honours degree. 18 credits shall be earned by the student by completing 4 additional courses of 4 credits each and one seminar course of 2 credits in the final semester. The student has an option to enroll and complete one Honours course subject through NPTEL/SWAYAM. Student can register for the Honours course subject through NPTEL/SWAYAM in lieu of the Honours course subject to be offered in the seventh semester of their study. Such courses should have the prior approval of DCC.

8.1.6 Although CGPA of 7.5 with passing all papers in first attempt is the requirement at the entry level, a student is eligible to get the Honours degree only on completing the programme in '*First Class with Distinction*' for the prescribed total credits

8.1.7 A student can exercise the option to withdraw from the Honours degree at any time after entry.

8.1.8 Details about the courses completed and credits earned for Honours degree will appear only in the 'Eighth Semester Grade Card' and 'Consolidated Grade Card'. These details will be listed under the heading 'Credits Earned for Honours degree'. In the case of students who either withdraw from Honours degree or not eligible for Honours degree by not securing 'First Class with Distinction', the credits earned for the courses registered and successfully completed for Honours degree will be listed under the

heading 'Additional Credits Earned'.

8.1.9   Nomenclature of Honours Degree is '*B.Tech.(Honours) in XX Engineering*', where XX is *Discipline in which the student is enrolled.*

8.1.10   The Degree Classification will be the B.Tech Honours only if the student earns a CGPA ≥ 8.5 computed for 178 credits(160 credits + 18 credits) and passed all the papers in the first attempt

8.1.11   Those students who are not eligible for honours degree by not securing a CGPA of 8.5 and above for 178 credits, but eligible for first class with distinction by securing a CGPA of 8.5 and above in 160 credits and passed all the subjects in the first attempt, may be awarded first class with distinction. The extra credits earned towards honours courses shall be listed under the category of additional credits earned.

9.   **COURSE ENROLEMENT AND REGISTRATION**

9.1   Each student, on admission, shall be assigned to a Faculty Advisor (vide clause 11), who shall advice and counsel the student about the details of the academic programme and the choice of courses, considering the student's academic background and career objectives

9.2   After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn continuous assessment marks and appear for the end semester examinations

a)   Each student on admission shall register for **all the courses prescribed in the curriculum in** the student's **first Semester of study.**

b)   The enrollment for all the courses of curriculum from the Semesters II to VIII and additional courses for Honours from the semesters IV to VIII will commence 5 working days prior to the commencement of the succeeding semester. The courses for Honours and shall be registered separately under additional courses in IIS portal. The student shall enroll for the courses with the guidance of the student's Faculty Advisor. If the student wishes, the student may drop or add courses (vide clause 9.3) within 10 working days after the commencement of the concerned semester and complete the registration process duly authorized by the Course Instructor within 30 days from the commencement of concerned semester. The list of students approved by the respective course instructor shall be final and would be considered for attendance, grades and calculation of CGPA and no changes shall be made thereafter

9.3   **Flexibility to Add or Drop courses**

a)   A student has to earn the total number of credits specified in the curriculum of the respective programme of study in order to be eligible to obtain the degree. From the IV to VIII semesters, the student has the option of registering for additional honours/elective courses or dropping existing honours courses in a semester. The total number of credits

that a student can add or drop in a semester is limited to a maximum of 2 courses

b) Withdrawal of the option for Honours can be done only in the beginning of a semester. The additional courses completed under Honourr category shall be treated as additional credits earned as detailed in section 8

9.4 **Choice of Professional Elective courses**

a) The professional Elective Courses are listed in the Curriculum in Table format as List of Electives. A student can choose Professional Elective Courses from this list. For eligibility to B.Tech degree a total number of 3 elective courses (12 credits) have to be obtained in fifth to seventh Semesters

9.5 **Redoing of the course**
Redoing a course means reregistering for a course, attending all classes, fulfilling the attendance requirements as per clause 10, earning fresh Continuous Assessment marks and appearing for the End Semester Examinations. A student has to redo a course as per the following conditions

a) If a student is prevented from writing end semester examination of any semester due to lack of attendance, the student is not be permitted to move tothe higher semester and has to repeat the current semester in the subsequent year by readmitting into the semester where he left to redo all the courses

b) If the course in which a student fails to secure a pass is a professional elective course, then the student can opt for a different professional elective course, register for the same when it is offered, attend classes, fulfill the attendance requirements as per clause 10, secure Continuous Assessment marks and appear for End Semester Examinations

c) A student who fails in Main Project work shall register for the course again, when offered next, and redo the course. In this case, the student shall attend the reviews and fulfill the attendance requirements as per clause 10.

d) A student who fails in Seminar/comprehensive viva/ Case Study /mini project, where such other courses that are evaluated through 100% internal assessment, shall register for the same in the subsequent semester and redo the course. In this case, the student shall attend the classes, fulfill the attendance requirements as per clause 10 and earn continuous assessment marks.

e) The student who fails in summer industrial training/internship shall attend the training/ internship again and redo the course with the same organization or different organization with the approval of the HOD.

9.6 **Withdrawal from Examination**

A student may be permitted by Director (Academic &EI) to withdraw from appearing for the entire semester examination for the reasons of ill-health and for any other valid

reasons on the recommendation of the Head of the Department. Withdrawal application shall be valid only if it is made 10 days earlier to the commencement of the semester examination. Such withdrawal shall be permitted only once during the entire programme. A student after temporary discontinuance may rejoin the programme at the commencement of the semester at which he discontinued.

If a candidate falls sick or for valid reasons at during the semester examination, he/she can withdraw from one or more courses on production of valid medical certificate. Such withdrawal requests shall be placed in a committee constituted with Director (Academics and EI), Controller of Examinations and Dean (Students) for recommendation and approval.

9.7   **Authorized break of study**

`   A student may be permitted by the Director (Academic and EI) to withdraw temporarily from the programme for reasons of ill-health and for any other valid reasons on the recommendation of Head of the Department. A student after temporary discontinuance may rejoin the programme at the commencement of the semester at which he discontinued. However, the total period for the completion of the course, reckoned from the commencement of the first semester to which the student was admitted, shall not in any case exceed seven years (six years for lateral entry students), including the period of authorized temporary discontinuance.

10.   **REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE**

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for appearing for the end semester examination of a particular course

a)   Ideally every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% overall attendance taking into account the number of periods required for all the courses, as specified in the curriculum

b)   If a student secures overall attendance between 60% and less than 75% in the current semester, due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events, with prior permission from the Chairman of Sports Board and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement (75%). In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the Faculty Advisor.

c)   Students who do not satisfy clause 10(a) and 10(b) and who secure **less than 60% overall** attendance

will not be permitted to move to the higher semester and has to repeat the current semester in the subsequent year by readmitting into the semester where he left to redo all the courses.

d) In the case of Arrear registration for a course (the courses for which redo is not required), the attendance requirement as mentioned in 10(a) and10(b) is not applicable. However, the student has to register for the examination in that course by paying the prescribed fee.

11. FACULTY ADVISOR

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a teacher of the Department, who shall function as Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students in registration and reappearance (Arrear) registration of courses, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress / performance of the students concerned. The number of students assigned to a faculty advisor will be decided by the Head of the Department. However, it shall not exceed 30 per faculty advisor

The responsibilities of the faculty advisor shall be:

- To inform the interpretation of Regulations to the students and their rights and duties.
- To inform code of conduct to be maintained in the campus and disciplinaryactions.
- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.
- To collect and maintain the academic and co-curricular records of the students.
- To facilitate and collect students feedback about the course and course instructor, and the course and programme's exit survey.
- To provide all the details of academic including feedback, training, scholarship, placement and co-curricular and extra-curricular activities of the students to the University through HOD.

12. DEPARTMENT COURSES COMMITTEE (DCC)

12.1 The Department courses committee shall comprise of the following members

(i) Head of the Department as Chairman

(ii) A senior Faculty for each year of study of the programme

12.2 The following are the rolls and responsibilities of the DCC. The DCC shall meet at the beginning of

every semester to give the recommendations on

- All the courses the student wishes to enroll outside the University in physical/online/hybrid mode has to be perused by the DCC

- The DCC will give its recommendations on the equivalence of online courses (duration, assessment etc) and its suitability in lieu of the courses specified in the curriculum

- The courses can be under the category of OEC, AEC, VAC or even PECcan be credited by the student in physical/online/hybrid mode.

- Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State fundedUniversities / Institutions which are in the top 100 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. These courses should also be recommended by the DCC

- Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. These courses has to be recommended by DCC after verification of the terms and conditions of MOU for equivalence and credit transfer.

13. **CLASS COMMITTEE**

Class Committee" comprises of all teachers handling courses of a particular semester and two student representatives (preferably one male and one female student) from the programme concerned. One of the above teachers, nominated by the Head of the Department shall act as class advisor and the committee shall be constituted by the HoD within 10 days from the commencement of classes. The class advisor will coordinate the activities of this committee. The class advisor, faculty advisor and HOD will attend the meeting and class advisor shall prepare the minutes of the meeting, which will be approved by the HOD. The copy of the minutes shall be displayed in the notice board within one week from the date of meeting. The functions of this committee are as follows: The first meeting of the Class Committee shall be held within 10 days from the date of formation of the committee where the enrollment of the courses including add and drop of the courses will be finalized. Two or three subsequent meetings in a semester may be held at suitable intervals. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. After the completion of the semester examination and evaluation process the course instructor shall keep the record of marks and grades earned by the students for the computation of CO and PO attainments.

14. **CONDUCT OF ACADEMIC AUDIT BY THE DEPARTMENT**

Every department shall strive for a better performance of the students by conducting the continuous assessments as mentioned in Clause 15 and that is followed by the end semester examination, as the case

may be. The Head of the Department shall arrange to conduct the Academic Audit once in every year for all the courses conducted in the respective semesters through external expert(s) approved by the Chairperson of Faculty. In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the continuous assessments conducted for each course (as per details provided in Clause 16), the academic records shall be maintained for the activity based evaluation and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses the students' record and course coordinator's system of evaluation shall be maintained. Further, the attendance of all students shall be maintained as a record. The ACOE (UDs) shall facilitate the conduct of academic audit process including the end semester examination question paper and answer scripts. The academic audit shall include verification of all the academic records pertaining to the Regulation in-force, the attendance and assessment record, CO, PO attainment records, student's and course coordinators feedback of the courses, and the overall teaching-learning process based on Bloom's taxonomy. Action shall be taken by HOD based on audit report for continuous improvement. Academic documents of UG degree programmes should be available with the department/faculty for 5 years

15. ASSESSMENT PROCEDURE AND AWARDING OF MARKS

All B.E./B.Tech. programmes consist of courses which include Theory Courses, Laboratory Courses, Theory combined with Practical courses, Ability Enhancement Courses. Skill Enhancement Courses , Value Added Courses, Project Work, Internship, Seminar, Comprehensive viva etc. All courses are evaluated for a maximum of 100 marks.

Most courses have two components of evaluation namely (i) Continuous Assessments throughout the semester and (ii) End Semester Examination at the end of the semester. Few other courses are evaluated only by continuous assessments. The evaluation shall be based on Outcome Based Education (OBE) and the relevant rubrics shall be followed.

The details are shown in the Table 6

Table 6:Weightage of Marks for Continuous Assessment and End-Semester Examination				
Sl. No.	Category of Course	Continuous Assessments	End-Semester Examinations	Total marks
1	Theory Courses	40 Marks	60 Marks	100
2	Laboratory Courses	40 Marks	60 Marks	100
3	Theory combined with Practical courses	40 Marks	60 Marks	100
4	Main Project	60 Marks	40 Marks	100

| 5 | All other courses (Seminar, Internship, Mini project and VAC) | 100 Marks | - | 100 |

Every Faculty is required to maintain an 'ATTENDANCE AND ASSESSMENT record which consists of attendance, assessment marks and the record of class work (topics covered), separately for each course handled by the teacher. The attendance book completed in all respects should be presented during class committee meetings for checking the syllabus coverage and the records of assessment marks and attendance. At the end of the semester, the record should be verified and duly signed by the Head of the Department who shall keep this document in safe custody (for five years). The records of attendance and assessment of both current and previous semesters should be available for auditing

15.1 Theory Courses

(i) For Theory Courses out of total 100 marks, the maximum marks for continuous assessment is fixed as 40 and the end semester examination carries 60 marks

(ii) Continuous Assessment shall be based on attendance, cycle tests and assignments. Attendance carries 5 marks (5 marks for 100% to 95% attendance, 4 marks for 94% to 90% attendance, 3 marks for 89% to 85% attendance, 2 marks for 84% to 80% attendance and 1 mark for 79% to 75% attendance), cycle test carries 25 marks. Performance in the best two of the three tests will be taken for assessment. Assignments carrying 10 marks, shall be in the form of problems, small projects, quizzes, design problems etc., depending upon the subject content

(iii) **The pattern of *Semester Examination* question paper for theory courses is as follows:**

a) The duration of examination shall be 3 hours with a maximum of 60 marks.

b) Section-A contains 5 compulsory questions each carrying 2 marks. Only one question shall be selected from each unit. This section carries 10 marks in total.

c) Section-B contains five questions, one question from each unit with *'either' 'or' choice.* Each question carries eight marks. Based on necessity, each question may contain sub divisions. This section carries 40 marks in total.

d) Section-C contains one question of problem solving type (application of theoretical concepts) with *'either' 'or' choice***.** This question may be from any one unit or combination of units. Based on necessity, each question may contain sub divisions. This section carries 10 marks**.**

e) The question paper should be framed with nearly equal weightage to all Course objectives. The blooms taxonomy levels and course objectives shall be indicated for each question.

15.2 Laboratory Courses

i) For all Laboratory Courses the total maximum marks is 100, this includes Continuous Assessment of 40 marks and the End Semester Examination carries 60 marks

ii) *Continuous Assessment* shall be based on attendance, regular performance of the student in practical classes and a model examination conducted at the end of the semester.

Attendance carries 5 marks (5 marks for 100% to95% attendance, 4 marks for 94% to 90% attendance, 3 marks 89% to 85%attendance, 2 marks for 84% to 80% attendance and 1 mark for 79% to 75% attendance).The regular performance in the practical class (*Observation and Record*) will be evaluated for 25 marks. Performance in the Model examination will be evaluated for 10 marks. The pattern of *Model Examination* will be similar to the *Semester Examination*

(iii)   The End semester examinations for Laboratory courses will be of 3 hours duration. The *Semester Examination* of the practical courses will be evaluated for 60 marks by a panel of examiners comprising of an internal examiner andan external examiner. The Break-up of marks is as given in Table 7

(iv)   The Laboratory examination questions should indicate the course objectives and the question bank should be well distributed among all course objectives

Table 7: Mark Distribution for end semester Laboratory Examination		
1	Procedure	10 marks
2	Practical work and calculations	40 marks
3	Viva-voce	10 marks
	Total	60 marks

15.3 Skill Enhancement Courses (SEC)

These courses are offered in first two semesters with 3 credits each. They are aimed at imparting practical skills, hands-on training,   etc., to enhance the employability of students. The continuous assessment and external examination of 3 credit Skill Development courses will be in the same manner as prescribed for the laboratory courses vide clause 15.2.

15.4 Theory combined with practical courses

(i)   For Theory combined with practical Courses out of total 100 marks, the maximum marks for continuous assessment is fixed as 40 and the end semester examination carries 60 marks

(ii)   Continuous Assessment shall be based on attendance, cycle tests and model practical examination. Attendance carries 5 marks (5 marks for 100% to 95% attendance, 4 marks for 94% to 90% attendance, 3 marks for 89% to 85% attendance, 2 marks for 84% to 80% attendance and 1 mark for 79% to 75% attendance), cycle test carries 25 marks. Performance in the best twoof the three tests will be taken for assessment. Performance in the Model practical examination will be evaluated for 10 marks.

(iii)   The pattern of *Semester Examination* question paper for theory combined with practical courses is same as that for the theory courses as given in clause 15.1

15.5 Other Courses (Evaluation by Continuous Internal Assessment (CIA) only)

15.5.1 Comprehensive Viva:

(i) The evaluation of 'Comprehensive viva' is through internal assessment only (continuous assessment)

(ii) Comprehensive viva is an oral viva voice examination. A committee comprising of five faculty members will conduct the comprehensive viva examination and evaluate the students. Experts from the industry may also be included in this committee. The Head of the Department shall constitute this committee.

15.5.2 Internship

The evaluation of 'Internship' is through internal assessment only(continuous assessment).

(i) A committee comprising of two faculty members will assess the internship for 100 marks, by evaluating the internship report and the oral presentation by the student. The Head of the Departmentshall constitute this committee.

15.5.3 Mini Project

A practical on Mini Project carrying two credits is offered in the seventh semester. Mini project is a concise project work that can be carried out in a semester by a group students (not exceeding 4). The project work may be either experimental or theoretical in nature, emphasizing on the current trends. After completing the project, the student is required to submit a project report and present a seminar on the project carried out. The evaluation of 'Mini Project' is through internal assessment only (continuous assessment). A committee comprising of two faculty members will assess the Mini Project for 100 marks, by evaluating the Mini Project report and the oral presentation by the student. The Head of the Department shall constitute this committee.

15.5.4 Value Added Courses (VAC)

Value-added courses (VAC), are aimed to offer "understanding India", "environmental education", "digital and technological solutions", and "health and wellness", "yoga education", "sports and fitness". These courses can be theory courses or Physical activity based courses.

(i) The total marks are 100 obtained through internal assessment only.

The marks can be distributed equally over all modules

(ii) The guidelines for the evaluation of VAC courses is shown in Table 8

Table 8 : Guidelines of Mark Distribution for VAC		
1	Continuous Assessment. Through tests/assignments/group discussions/participation/engagement	40 marks
2	Assignment/Report	20 Marks

3	Internal Exam/Demo/Presentation	30 Marks
4	Attendance	10 Marks
Total		100 marks

15.6 Main Project

The student(s) shall submit the project report on or before the semester project examination.

i. The University examination for the project work shall consist of the evaluation of the final project report submitted by the students of the project group(not exceeding 4) by an external examiner and supervisor, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner and an internalexaminer (other than supervisor).

ii. The project coordinator shall be the internal examiner. The Head of the Department with the approval of the COE shall appoint the External Examiner for the End Semester Examinations of the Project Work. The semester examination mark carries 40 marks and the mark distribution isgiven in Table 9.

iii. There shall be **three assessments** during the semester by a review committee. The student shall make presentation on the progress made beforethe committee. The Head of the Department shall constitute a Project Evaluation committee for each programme. There shall be a minimum of three members in the project evaluation committee. The total mark distribution for the internal assessment is 60 marks and the mark distribution is given in Table 9.

Table 9: Continuous Assessment and End-Semester Examinations Marks for Project Work						
Internal Assessment Marks(60 marks)				**End Semester Marks(40 Marks)**		
Project Evaluation committee			Guide	Project report	Presentation	Viva-Voce
Review1	Review2	Review3	Marks			
10	10	15	25	15	15	10

iv. Semester long industrial project / internship: These conditions prescribed below are applicable to those students who avail a semester long industrial project / internship outside the university.

    a) The Viva-Voce examination for semester long industrial project or internship shall be based on the report submitted by the student with regardto the work carried out in the industrial project or internship. The students have to produce attendance

certificate at the time of reviews. The report shall be certified by mentor from industry, supervisor and HOD

b) Projects/internship undertaken externally should have an internal guide and an external guide. Both guides are expected to interact regularly monitoring the progress of the student. For the reviews the external guide should be present atleast in online mode to assess and award marks to the student. In the beginning of the project, the internal guide should ensure that the work to be carried out is up to the standard as well as not attracting any IPR issues with the external organization so that the work could be published. The reviews may be conducted in online mode, if the student cannot travel to University to attend the reviews and this shall be approved by HOD and such reviews have to be recorded. However, the end semester examination has to be conducted in physical mode with the mentor from company present physically or through online

15.7 SEMINAR (Applicable only to Honours Degree)

The evaluation of 'Seminar' is through internal assessment only (continuous assessment). A committee comprising of two faculty members will coordinate the conduct and assessment of seminar. The seminar is assessed for 100 marks covering the seminar report, presentation and discussion. The Head of the Department shall constitute this committee.

16. Operational Details of Multiple Entry and Exit

(i) Entry criteria is defined in Eligibility (section 3)

(ii) Exit criteria is given in Table 5

(iii) The candidate who wishes to exit the program shall submit a duly filled proforma and submit to the COE three months prior to the last working date of the even semester

(iv) If the candidate wishes to exit the program in the end of the year (First/second) the candidate has to complete the credits prescribed for the certificate/diploma (Table 5) and in addition complete 4 credits which includes undergoing vocational course and evaluation.

(v) If the candidate wishes to exit the program in the end of the third year the candidate has to complete the credits prescribed for the B.Sc. (Engg.) as mentioned in Table 5

(vi) The student should normally complete the certificate/diploma/B.Sc. within the specified duration of 1/2/3 years. However the maximum period shall be 2 years for certificate, 3 years for Diploma and 5 years for B.Sc.

17. Declaration of Results

17.1 Examination Passing Criteria

(i) A student is declared to have **passed** in a course if he gets 40% marks and above in the Semester Examination and 50% marks and above overall (Semester Exam marks and

Continuous Assessment marks put together).

(ii) If a student fails to clear the semester examination of a theory courses after three consecutive attempts, the passing criteria from the fourth attempt onwards will be based on the marks earned by the student in the end semester examination only. The student is deemed to have passed the course if the mark scored in the end semester examination is 50% and above and he will be awarded only **E grade** irrespective of the mark scored.

17.2 Result Passing Board

The Controller of Examinations shall constitute a Result Passing Board for each branch of study. The Result Passing Board shall meet soon after the valuation of Semester examination answer scripts to analyze the relative performance of students and award appropriate grace marks, if necessary, for overall improvement in the result. On finalization of the results by Result Passing Board, the Controller of Examinations shall declare the results

17.3 Viewing of the Answer Script and Revaluation

17.3.1 Provision to view the answer scripts and for revaluation is available for students who have arrears in 3 or less number of courses.

17.3.2 Students can apply for viewing the answer scripts by submitting an application along with the prescribed fees to the Controller of Examinations. The answer scripts will be made available on a particular day called Clarification Day.

17.3.3 Students should apply for revaluation of the answer scripts by submitting an application along with the prescribed fees to the Controller of Examinations.

17.3.4 The Controller of Examinations shall get the answer script revalued by appointing an examiner other than the one who has valued the script earlier and revise the grade accordingly.

The marks obtained after revaluation will be taken as final irrespective of the marks awarded earlier. That is, if the marks obtained after revaluation happens to be lower than the original marks then '*the lower mark*' will be considered for the award of revised grade.

18. Grades, SGPA and CGPA

18.1 Award of letter grades

The award of letter grades will be decided using absolute grading principle. The performance of a student will be reported using letter grades, each carrying certain points as shown in Table 10.

Table 10: Grade Range for Absolute grading at PTU			
Letter Grade	Letter grade	Grade point	Grade range
O	Outstanding	10	91-100
A+	Excellent	9	81-90
A	Very Good	8	71-80
B+	Good	7	61-70
B	Average	6	56-60
C	Pass(satisfactory)	5	50-55
F	Fail	0	<50
Ab	Absent	0	Absent for examination
W	Withdrawal	0	Withdrawal from Examination
CGPA to percentage conversion= (CGPA)*10			

18.2   SGPA AND CGPA CALCULATION

On declaration of results, Grade Cards will be issued to the students. The Grade Card will contain the list of courses for that semester, the grades obtained by the student, the SGPA and the CGPA. Grade Sheets will be issued every semester to each student which will contain the following details:

(i)   The list of courses of curriculum registered during the semester and the grades scored

(ii)   List of courses studied for Honours, and any other additional courses in which the student has passed with the grades under the title additional courses

(iii)   The Semester Grade Point Average (SGPA) for the semester considering only the courses of curriculum (not the additional courses) and the Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards considering only the courses of curriculum (not the additional courses). However, for the students who have successfully completed the requirements of B.E. / B. Tech. (Hons) vide

Clause 8, grades scored in the five additional courses shall be taken into account for the computation of CGPA

The Semester *Grade Point Average* (GPA) for a particular semester is calculated as the ratio of the sum of the products of the number of Credits of a course *(Ci)* and the Grade Points scored in that course *(GPi),* taken for all the courses(not the additional courses), to the sum of the number of credits of all the courses (*n*) registered in that semester.

$$GPA = \frac{\sum_{1}^{n} C_i GP_i}{\sum_{1}^{n} C_i}$$

where, *n* is the number of courses registered in that semester. For a student who has partially withdrawn from writing examinations of courses in a semester, *n* is counted as total number of courses appeared in that semester minus the number of courses partially withdrawn.

The Cumulative Grade Point Average (CGPA) up to a particular semester is calculated as follows:

$$CGPA = \frac{\sum_{1}^{N} C_i GP_i}{\sum_{1}^{N} C_i}$$

where, C_i is the Credit of a course, GP_i is the Grade Point obtained by the student in that course and *N* is the total number of courses registered up to that semester starting from the first semester. For a student who has partially or completely withdrawn from writing examinations of courses in a semester, N is counted as total number of courses registered up to that semester starting from the first semester minus the number of courses withdrawn

19. **Academic Bank of Credits (ABC)**

The Academic Bank of Credit referred to as ABC in short, is a virtual mechanism that will deal with the credits earned by students of Higher Education Institutes in India and which are recognized by the University Grants Commission (UGC). PTU has registered with ABC and the credits earned by the students will be deposited in their ABC Academic Account

20. **Academic Courses Committee (ACC)**

The Academic Courses Committee is an internal academic body constituted by the Head of the Institution with Director (Academic & EI) as Convener, Associate Directors (Academic & EI), Director

(Examinations) and all Heads of the Departments as members. The Convenor will chair the meetings of Academic Courses Committee.

The role of the committee is as follows:

(i) Discuss and deliberate on the general framework of curriculum and syllabi for various branches of study

(ii) Discuss and deliberate on any amendments in the curriculum, syllabi and regulations before placing it in the Board of Studies/Academic Council for approval

(iii) Approve the consolidated list of Open Electives offered in an academic year

(iv) Approve the list of Online Courses and the assessment criteria

(v) Discuss and deliberate on any other academic matter, on the direction of the Head of the Institution.

The Academic Courses Committee will meet as and when required. The decisions taken in the meetings of the committee are subject to the approval of the Head of the Institution

21. **Eligibility for the award of Degree**

A student shall be declared to be eligible for the award of the Degree /Diploma/Certificate provided the student has

i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.

ii. Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the courses in the prescribed number of semesters within a maximum permitted duration.

iii. No disciplinary action is pending against the student.

iv. The award of Degree must have been approved by the BOG of the University.

v. No dues to the institution, Library, Hostels, etc.,

22. **Classification of the degree awarded:**

22.1 FIRST CLASS WITH DISTINCTION:

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- Should have passed the examination of all the courses of all the eight semesters (Six Semesters for Lateral Entry) in the student's first appearance within five years (Four years for Lateral Entry), which includes authorized break of study of one year (if availed). Withdrawal from examination (vide Clause 10.6) will not be considered as an appearance.

- Should have secured a CGPA of not less than 8.5.
- Should not have been prevented from writing end semester examination in any of the courses of the Curriculum making up the total credit requirement.
- A student who satisfies norms given in clause 8 becomes eligible for classification of the degree with B.Tech. (Honours)

22.2 FIRST CLASS:

A student who satisfies the following conditions shall be declared to have passed the examination in **First class**:

- Should have passed the examination of all the courses of all eight semesters(Six Semester for Lateral Entry) within five years (within Four years for Lateral Entry), which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).
- Should have secured a CGPA of not less than 6.50.
- Students who have lost the eligibility for First Class with Distinction classification by failing to clear the courses offered from first to eighth semester in the first attempt but securing a final CGPA of 8.5 or above shall also be declared to have passed in First Class.
- Those students who opted for exit and re-entry, first class can be awarded if they satisfy the requirements stated above by excluding the exit period from the total period taken by them for completing the course requirements.

22.3 SECOND CLASS:

All other candidates not satisfying the criteria 22.1 or 22.2 but, satisfies the course requirements for all semesters and who passes all the examinations prescribed for all the eight semesters (six semesters for lateral entry candidates) within a maximum period of 7 years (6 years for lateral entry candidates) shall be declared to have passed the examination in SECOND class

Students who opted for B.Tech (Honours) but do not satisfy the conditions in criteria 8, but qualified for B.Tech Degree as given in item 22.1 to 22.3 will be awarded B.Tech in First Class with Distinction/First class /Second class

23. Consolidated Grade Card:

At the end of the programme, all successful students will be issued a consolidated *Grade Card* which will necessarily contain the following particulars in addition to any other relevant information:

1) Details of *Honours degree, Ancillary stream course* along with courses completed and grades earned for the students whoopted
2) Grades in the subjects of all the semesters with month and year of passing

3) CGPA

Classification - First class with Distinction/First class/Second class

24. **Discipline:**

   24.1   Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / Department. The Head of the Institution shall constitute a disciplinary committee consisting of the Head of the Institution, Head of the department to which the student concerned belongs, and the Head of another department to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted by the Registrar of the University for taking a final decision.

   24.2   If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed by the University from time to time.

25. **Academic Appeals Board**

   The entire process of Continuous Assessment shall be made transparent, and the course instructor shall explain to a student why he gets whatever marks awarded, if and when required. However, if a student finds some anomaly in the award of marks in the continuous assessment, he can make an appeal to the Academic Appeals Board for review of marks awarded. Before appealing for such review, a student shall first approach the concerned Course Instructor and then the concerned Head of the Department, with a request to do the needful. Only after exhausting the above options and in situations where satisfactory actions / remedial measures have not been taken, the student may appeal to the Academic Appeals Board. The Academic Appeals Board is constituted with Director (Academic & EI) as convener, Associate Directors (Academic & EI) and one senior level professor as members, and the concerned Head of the Department and Class Advisor as co-opted members. The board will receive the grievance/complaints in writing from the aggrieved student regarding anomaly in award of marks. The board will examine the complaints and recommend appropriate measures to the Head of the Institution, for necessary action.

26. **Revision of Regulations, Curriculum and Syllabi:**

   The University may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations through the Academic Council with the approval of the Board of Governors