

CHAPTER VI

REGULATIONS FOR BACHELOR OF TECHNOLOGY / BACHELOR OF ENGINEERING COURSES

General

The University shall undertake and supervise the instructions and award of Bachelor's Degree in the following disciplines and nomenclature as notified by the All India Council for Technical Education (AICTE): -

- i. Aeronautical Engineering
- ii. Agricultural Engineering
- iii. Automobile Engineering
- iv. Applied Electronics and Instrumentation
- v. Automation and Robotics
- vi. Biomedical Engineering
- vii. Bio-Technology
- viii. Ceramic Engineering/Technology
- ix. Chemical Engineering
- x. Civil Engineering
- xi. Computer Science & Engineering
- xii. Electrical and Electronics Engineering/Electrical Engineering
- xiii. Electronics & Communication Engineering
- xiv. Environmental Engineering
- xv. Food Technology
- xvi. Industrial Engineering & Management
- xvii. Information Technology
- xviii. Instrumentation & Control Engineering
- xix. Leather Technology
- xx. Marine Engineering
- xxi. Materials Science & Technology
- xxii. Metallurgical Engineering
- xxiii. Mechanical Engineering
- xxiv. Mining Engineering
- xxv. Oil and Paint Technology
- xxvi. Polymer Science and Rubber Technology
- xxvii. Printing Technology
- xxviii. Production Engineering
- xxix. Pulp and paper Technology
- xxx. Sugar technology
- xxxi. Textile Engineering/Technology
- xxxii. Transportation Engineering

and any other discipline or nomenclature as introduced from time to time.

1. Duration

The duration of Bachelor of Technology/Engineering, course will be four years, divided into eight semesters. The duration of each semester will be 90 teaching days, according to the following schedule:-

August to December	:	Odd Semester (1, 3, 5, 7)
January to May	:	Even Semester (2, 4, 6, 8)
June to July	:	Summer Workshop / Industrial Training / Tours etc.

2. Eligibility for Admission

The admission to the above courses will be based on merit in an entrance test provided the candidate is otherwise eligible for admission.

2.1 The candidate must have passed 12th Class examination on 10+2 pattern with Physics and Mathematics as compulsory subjects, along with any of the following subjects:

(i) Chemistry (ii) Bio-technology (iii) Computer Science (iv) Biology.

from the State School Education Board or any other State or Central Board recognized by the Punjab Technical University which is equivalent to 12th class examination of 10+2 pattern.

2.2 The eligibility for admission shall be as per the notification of All India Council for Technical Education (AICTE) from time to time.

2.3 He/ She should bear a good moral character.

2.4 He/ She must be in a good mental and physical health. Each candidate before admission will have to undergo a medical fitness examination and shall have to produce a medical fitness certificate, as prescribed by the University.

2.5 A student admitted to B. Tech. / B.E. programme must be on the rolls of an affiliated Engineering College/ Institute to attend the classes regularly as per rules and shall pay such fees to the College/ Institute as decided by the University / College / Institute from time to time.

2.6 Change of discipline from one branch of Engineering to another within the same College will be allowed after completion of 2nd semester and before the start of 3rd semester. It will be strictly according to the rules as framed by the University from time to time.

3. Examinations

3.1 General

- 3.1.1 The University examination shall be held at the end of each semester as per the prescribed scheme of examination for each discipline and date sheet notified by the University.
- 3.1.2 It will be the responsibility of the candidate to collect all information regarding examination schedule, roll number slip and result etc. from the College/ Institute office. Students will collect the University Roll Number slips at least one day before the commencement of the examination.
- 3.1.3 The College/ Institute office shall display on the Notice Board, the schedule of examination/ date sheet etc. as soon as it is received from the University. The University will supply this information not less than fifteen days before the start of examination.
- 3.1.4 No candidate will be allowed to appear in the University examination without the Roll Number Slip.
- 3.1.5 The medium of instruction and examination shall be English

3.2 Eligibility

- 3.2.1 In order to be eligible to appear in any semester examination, a candidate must have had his Examination form submitted to the Registrar through the Principal of his/ her College/ Institute along with the following certificates signed by the Principal :-
 - (i) of good character.
 - (ii) of having remained on the rolls of the College, and
 - (iii) of having attended not less than 75% of the aggregate scheduled periods, in each prescribed course of Theory (Lectures plus Tutorials) and Practical (including Workshop Training, Seminar, Project, Industrial Training etc.);
 - (iv) Provided that no candidate shall be eligible to appear in higher semester examination unless he has already fulfilled attendance requirement in the immediately lower semester.
 - (v) The Dean of the University in case of University/constituent college and Principal/Director in case of affiliated institutions may condone attendance shortage upto 10% in the total for reasons to be recorded in writing (owing to serious illness, calamity, participation in any game / sports / competitions with approval of the institution etc.). However, under no circumstances, a student who has an

aggregate attendance of less than 65% in a semester shall be allowed to appear in the semester end examination.

- (vi) Attendance shall be counted upto seven days prior to the date of commencement of the University theory examinations. Dean of the University/Director/Principal, as the case may be, shall announce the names of all such students who are not found eligible to appear in the semester end examinations at least 7 calendar days prior to start of the semester end examinations and simultaneously intimate the same to the controller of examinations.
- (vii) In case any student appears in the examinations by default, who in fact has been detained by the institute, his/her results shall be treated as null and void.

3.3 Examination Fee

3.3.1 The amount of examination fee to be paid by a candidate and the last date by which his / her examination form and fee must reach the Registrar, shall be notified by the University.

- (i) Examination forms will be accepted with late fee of Rs 1000/- upto 7 days before the commencement of examinations.
- (ii) Under very special circumstances, examination forms shall be accepted by the University upto two days before the commencement of examination on payment of late fee of Rs 2000/-
- (iii) Examination form shall be accepted upto the evening previous to the date of examination on payment of late fee of Rs 5000/- with the approval of the Vice - Chancellor.

3.3.2 The examination fee for one or more reappear/ repeat papers of any examination shall be the same as for the whole of semester examination. Separate admission forms for papers belonging to different semesters are to be filled by the candidate indicating paper(s) offered for each semester examination.

3.4 Reappear

3.4.1 In case of reappear papers candidate shall be required to submit their Examination Forms within 15 days from the date of declaration of the result, or the regular date for submission of examination forms, whichever is later.

4. Evaluation System

- 4.1 In a theory paper, the question paper will be set by an examiner appointed by the Vice Chancellor from a panel of examiners, proposed by the Board of Studies of that discipline. A sample question paper of the concerned discipline will be supplied to the paper setter for guidance. The paper setter shall be a teacher from some other University or of the affiliated College/ Institute of the University preferably not teaching that course in that semester.
- 4.2 The answer books will be evaluated by table marking in the University or evaluation centres set up in affiliated colleges / institutes. For each subject, a panel of evaluators will be appointed. These panel of examiners will be constituted by the Board of Studies of the concerned discipline from amongst the teachers of affiliated Colleges of the University preferably teaching that course in that semester.
- 4.3 Practical examination in each practical subject will be conducted jointly by an internal and an external examiner. The internal examiner will be from the College, where examination is being conducted, while the external examiner may be from any of the affiliated Colleges of the University or from outside. The lists of the examiners will be prepared by the Board of Studies of the concerned discipline. The external examiner will be appointed by the Vice Chancellor from the panel of examiners proposed by the board of studies.
- 4.4 In case an examiner for practical examination does not report at the scheduled date, the Principal of the College will make the alternative arrangement from within the College or from outside and intimation of the same will be sent to the University immediately.

5. Certification

5.1 Conditions for Certification

- 5.1.1 Every candidate shall be examined in the subjects according to the syllabi and course outlines prescribed from time to time.
- 5.1.2 Each paper shall be of 100 marks, out of which the candidate shall be examined for 60 marks on the basis of external paper setting & evaluation. Remaining 40 marks in each paper, excluding project report seminars and practicals, shall be assigned to internal assessment. It will be based on

performance of the students in house tests, take-home assignments and class participation, etc. The project report seminars and practicals, shall be evaluated with weightage of 60% internal and 40% external evaluation.

- 5.1.3 To pass in a subject a candidate will be required to obtain a minimum of 40 %marks. However, to become eligible for the award of degree, a student must obtain a minimum of 50% of the total marks of all the courses prescribed for the 8 semesters.
- 5.1.4 In case the student fails to obtain a total of 50% marks in any subject at any stage, he/she may improve the percentage of marks by reappearing in the subject(s) of his/ her choice at the time the subject(s) are being offered next within the specified maximum duration of the course, provided that at the end of 8 semesters improvement shall be allowed only to those students who get an aggregate of less than 50 % marks and the maximum duration of the course is not over.
- 5.1.5 Reappear / Improvements exams will be taken along the scheduled exams of the coming batches.
- 5.1.6 The enrolment / registration number of the candidate for the course will be valid for the maximum period for the completion of the course mentioned in clause 7.1.
- 5.1.7 The internal assessment/ sessional will be based on the continuous evaluation of the students, through class tests / mid semester tests, quizzes, seminars, home assignments and class work. A minimum of three class tests / mid semester tests will be held during the semester. Out of which the best two shall be considered for awarding internal assessment marks.
- 5.1.8 The sessional marks will be submitted to the University within fifteen days after the close of classes for the semester.
- 5.1.9 The sessional marks submitted by different Institutions will be moderated by a Moderation Committee appointed by the Vice – Chancellor, if required.
- 5.1.10 There shall be no reappear in the sessional / internal assessment of Theory and Practical subjects. The marks obtained by the students in sessionals / internal assesment of both Theory and Practical shall be added as such to the marks obtained in written Theory and External Practical examinations respectively.

- 5.1.11 The students will have to obtain a minimum of 40 % marks in written Theory and external Practical examination separately to pass the subject.
- 5.1.12 At the end of each semester the University will conduct semester examination. A student will be supplied detailed marks card (DMC) indicating the marks obtained in each course passed, credits earned and upto date credits earned.
- 5.1.13 The University will publish the final result and the division obtained by each candidate when the candidate has cleared all the papers / subjects of all the eight semester examinations.

5.2 Award of Degree

A student will be awarded degree subject to the following conditions:

- (i) must have obtained a total of 50 percent marks at the end of eight semesters of study, as applicable.
- (ii) must have enrolled for NCC or NSS and should have attended the prescribed number of camps/ projects as prescribed by the University.
- (iii) has paid all the fees and other charges including fines, if any, due from him to the University and the College.
- (iv) has no case of indiscipline pending against him/ her.

5.3 Divisions

The University shall publish the final result indicating the marks obtained in aggregate marks for 8 semesters and the division obtained by each student on the following basis:-

	Division	Percent Marks
(i)	First with Distinction provided all examinations are passed in first chance with regular classes in the normal duration of 4 years as applicable without any reappear at any stage.	More than 70%
(ii)	First	60% or more
(iii)	Second	50% or more but less than 60%

5.4 Award of Prize or Medal

Candidate shall be eligible for the award of a prize or a medal, if

- i. he/she passes the Bachelor of Engineering / Technology examinations in four years, and
- ii. has passed all the subjects in the first attempt available to him /her.

6. Conditions for Promotion

6.1 Examination

Any bonafide student, subject to provisions of regulation 3.2 and 6.2, who appears for the examination conducted by the University, shall be promoted to the next higher semester and shall carry forward, all course(s) in which he / she is declared fail. The student shall have to pass all papers within the stipulated maximum duration to qualify for the award of university degree.

The same shall be applicable, mutatis mutandis, to students governed by Academic Regulation 2001 in super session of relevant provisions therein.

6.2 Attendance

- a) Student detained, due to shortage of attendance, in any subject, shall have to repeat the course and then only appear in the concerned subject, whenever it is offered as a regular course. However, if a student is short in attendance in all the courses offered during a semester, he/she shall be required to repeat the semester, along with the next batch of students.
- (b) A student absent consecutively, without any notice or intimation, in writing to the concerned Principal, for more than 45 days consecutively in a semester shall be deemed to have withdrawn from the course and his/her enrolment shall stand cancelled. Save the amendments proposed hereinabove, all other provisions of Academic Regulations 2004/2001 remain unaltered.

7. Maximum Duration for completion of the Degree requirements

- a) The maximum duration for clearing all subjects of a particular course shall be twice the duration of the respective regular course. This would apply to all the regular courses. All regulations issued so far are hereby modified to make the above applicable. Whereas this would apply directly to the current students, the pass out students who have not been able to clear their course within maximum duration stipulated under the unamended regulations may now take additional chance(s)/examinations to clear their backlog. Such examination(s) would, however, be conducted only when the university examination (s) in the respective subject(s) is held in the normal course between January 01, 2006 to December 31, 2007. No additional chance to clear the backlog will be given to pass out student(s) after December 31, 2007.

- b) Each student shall be allowed to appear in a maximum of 10 theory subjects in the university examination at the end of the semester, including the regular subjects of the semester.

8. Powers of the Vice Chancellor

Notwithstanding any thing contained in these regulations, the Vice - Chancellor shall be competent to allow any relaxation subject to ratification by the Board of Governors.

LATEST AMENDMENT(S) OF ACADEMIC REGULATIONS

Amendment to attendance regulations of the Academic Regulations-2004 clauses 3.2 (iv) and 6.2.

The amendment to the above clauses may be read as under:

- (i) A student who is detained due to shortage of attendance shall have to repeat the subject(s) only when the respective subject (s) is offered as a regular course.
- (ii) He/she shall be permitted to appear in the University examination only after having fulfilled the attendance requirement of the said subject (s).
- (iii) The sum of the subjects which a student offers as regular subjects of the semester and the subjects which he/she repeats due to shortage of attendance in the semester shall not exceed to maximum of 10 subjects.
- (iv) However the limitation of 10 number of subjects does not include those subjects where a students had completed attendance requirement and appeared in University examination but failed to clear the subject (s) (Re-appear, RP).

For example, A student who has (m) regular subjects in the semester, opting for (n) repeat subjects due to shortage of attendance in the semester and if he/she has (o) number of reappear subjects, then he/she can appear in $m+n+o$ number of subjects in the University examination subject to the condition that $m+n \leq 10$.