HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

Academic Regulations for B. Tech. / B. Tech. (Hons.) Degree Programme

(With amendments as approved in 26th ACM held on 23rd March 2019,

28th ACM held on 7TH December 2019 and 31st ACM – 6th March 2021)

Choice Based Credit System (CBCS)
(Effective from Academic Year 2018-19)

TABLE OF CONTENTS

I. PREAMBLE

As per the recommendations of UGC, the Hindustan Institute of Technology and Science (HITS) has introduced Choice Based Credit System (CBCS) from the academic year 2015-16. Choice Based Credit System (CBCS) is a proven, flexible mode of learning in higher education which facilitates a student to have guided freedom in selecting his/her own choices of courses in the curriculum for completing a degree program. This revision of regulations, curriculum and syllabi has been carried out further to make it more flexible and adaptive to the technology advancements happening in the world. CBCS offers a flexible system of learning.

The system permits a student to

(i)   Learn at their own pace through flexible registration process

(ii)   Choose electives from a wide range of courses offered within and outside their departments

(iii)   Undergo additional courses and acquire more than required number of credits to obtain B. Tech (Hons)

(iv)   Undergo additional courses in their special areas of interest and earn additional credits to obtain B. Tech with Minor Specialization

(v)   Adopt an interdisciplinary approach in learning

(vi)   Avail transfer of Credits

(vii)   Gain Non – CGPA credits to enhance skill/employability by taking up additional project work, entrepreneurship, co-curricular and vocational training.

(viii)   Make the best use of the expertise of available faculty.

(ix)   Learn and earn credits through MOOC and Project Based Learning

(x)   Enhance their Knowledge, Skill and Attitude through participation in innovative Curriculum Design, Delivery and Assessments.

The Curriculum is designed to take into the factors listed in the Choice Based Credit System (CBCS) with focus on Project Based Learning and Industrial Training so as to enable the students become eligible and fully equipped for employment in industries choose higher studies or entrepreneurship.

II. DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

1. "Programme" means Degree Programme like B.Tech. Degree Programme.
2. "Discipline" means specialization or branch of B.Tech. Degree Programme, (e.g. Civil Engineering).
3. "Course" means a theory or practical subject that is normally studied in a semester, (e.g. Mathematics, Physics, etc.).
4. "Vice – Chancellor of HITS" means the Head of the Institution.
5. "Registrar" is the Head of all Academic and General Administration of the Institute.
6. "Dean Academics" means the authority of the University who is responsible for all academic activities of various programmes and implementation of relevant rules of these Regulations pertaining to the Academic Programmes.
7. "Controller of Examinations" means the authority of the University who is responsible for all activities related to the University Examinations, publication of results, award of grade sheets and degrees.
8. "Dean – Student Affairs" is responsible for all student related activities including student discipline, extra and co – curricular activities, attendance and meetings with class representatives, Student Council and parent – teacher meet.
9. "HoD" means the Head of the Department concerned.
10. "Institute" means Hindustan Institute of Technology and Science (HITS), Chennai.
11. "TCH" means Total Contact Hours – refers to the teaching – learning periods.
12. "DEC" means Department Exam Committee.
13. "BoS" means Board of Studies.
14. "BoM" means Board of Management.
15. "ACM" means Academic Council meeting the highest authoritative body for approval for all Academic Policies.
16. "Class Teacher" is a faculty of the class who takes care of the attendance, academic performance and the general conduct of the students of that class.
17. "CIA" is Continuous Internal Assessment which is assessed for every student for every course during the semester.
18. "ESE" is End Semester Examination conducted by the Institute at the End of the Semester for all the courses of that semester.
19. "AICTE" means All India Council for Technical Education.
20. "UGC" means University Grants Commission.
21. "MHRD" means Ministry of Human Resource Development, Govt. of India.

ACADEMIC REGULATIONS FOR B. Tech. / B.Tech. (Hons.)

Under Choice Based Credit System (CBCS)

(Effective from Academic year 2018 - 19)

1.0   Vision, Mission and Objectives

The Motto of the Institute is **"To make every man a success and no man a failure"**.

The Vision of the Institute is "To be an international institute of excellence, providing a conducive environment for education with a strong emphasis on innovation, quality, research and strategic partnership blended with values and commitment to society"

1.1   The Mission of the institute is

- To create an ecosystem that promotes learning and world class research.

- To nurture creativity and innovation.

- To instill highest ethical standards and values.

- To pursue activities for the development of the Society.

- To develop national and international collaborations with institutes and industries of eminence.

- To enable graduates to become future leaders and innovators.

    Value Statement

    Integrity, Innovation, Internationalization

1.2   Further, the Institute always strives

- To train our graduates with the latest and the best in the rapidly changing fields of Architecture, Engineering, Technology, Management studies, Science and Humanities and Liberal Arts.
- To develop graduates, with a global outlook, possessing Knowledge, Skills and Attitude and capable of taking up challenging responsibilities in the respective fields.
- To mould our graduates as citizens with moral, ethical and social values so as to fulfil their obligations to the nation and the society.

- To promote research in the field of Architecture, Engineering, Technology, Management studies, Health Science, Law, Design, Science and Humanities, Liberal Arts and Allied disciplines.

1.3 Aims and Objectives of the Institute are focused on

- Providing state of the art education in Architecture, Engineering, Technology, Applied Sciences, Law, Health Sciences, Design, Liberal Arts, and Management studies.
- Keeping pace with the ever – changing technological scenario and help the graduates to gain proper direction to emerge as competent professionals fully aware of their commitment to the society and the nation.
- To inculcate a flair for Research, Development and Entrepreneurship.

2.0 Admission

The admission policy and procedure shall be decided from time to time by the Board of Management (BOM) of the Institute, based on the guidelines issued by the UGC/ Ministry of Human Resource Development (MHRD), Government of India. The number of seats in each of the B. Tech. degree programme will be decided by the Board of Management of the Institute as per the directives of AICTE/ UGC / MHRD, Government of India, taking into account, the market demands. Seats are also made available up to 20% of the sanctioned intake for Non – Resident Indians and foreign nationals, who satisfy the admission eligibility norms of the Institute.

2.1. Eligibility for Admission

i. Regular Entry

Passed 10 + 2 examination with Physics and Mathematics as compulsory subjects along with one of the other subjects as Chemistry/ Biotechnology/ Biology/ Technical Vocational course.

The candidates should have obtained the minimum marks as per AICTE norms.

ii. Lateral Entry

The candidates possessing a Diploma in Engineering/Technology in the relevant discipline of specialization with minimum 50% marks awarded by the State Boards of

Technical Education, India or any other competent authority as accepted by the Board of Management of the Institute as equivalent thereto are eligible for admission to the 3rd Semester of the B. Tech degree programme.

2.2   The candidate has to fulfil all the prescribed admission requirements / norms of the Institute.

2.3.   In all matters relating to admission to the B. Tech degree programme, the decision of the Board of Management of the Institute shall be final.

2.4.   At any time after admission, if found that a candidate has not fulfilled one or many of the requirements stipulated by the Institute, or submitted forged certificates, the Institute has the right to revoke the admission and forfeit the fee paid. In addition, legal action may be taken against the candidate as decided by the Board of Management.

3.0   Student Discipline

Every student is required to observe utmost discipline and decorum both inside and outside the campus and not to indulge in any activity which may affect adversely the prestige reputation of the Institute.

3.1   Any act of indiscipline of a student reported to the Dean (Student affairs) and Head of the Department will be referred to a Discipline Committee constituted for the purpose. The Committee will enquire into the charges and decide on a suitable punishment if the charges are substantiated. The committee will also authorize the Dean (Student Affairs) to recommend to the Vice-Chancellor for the implementation of the decision. The student concerned may appeal to the Vice-Chancellor, whose decision will be the final.

3.2   Ragging in any form is a criminal and non-bailable offence in our country. The current State and Central legislations provide stringent   punishments   including imprisonment.   Once the involvement of a student(s) is established in ragging, offending fellow students/staff, harassment of any nature to the fellow students/staff etc. the student(s) will be liable to be dismissed from the Institute, as per the laid down procedures of the UGC / Govt. /Institute. Every senior student of the Institute, along with their parent, shall give an undertaking every year in this regard and the same should be submitted at the time of Registration.

4.0 Structure of the B. Tech Degree Programme

4.1 All B. Tech. degree Programmes will have the curriculum and syllabi (for 4 years) as approved by the respective Board of Studies and Academic Council of the Institution.

4.2 Credits are the weightages, assigned to the courses based on the following general pattern:

One Lecture / Tutorial period per week	--- 1 credit
Up to Three periods of Practical per week	--- 1 credit
4 periods of Practical per week	--- 2 credits

4.3 The curriculum for B. Tech. programme is designed to have a minimum of **165 credits + 4 Non – CGPA credits** that are distributed across eight semesters of study for the award of degree.

Choice Based Credit System (CBCS) was introduced from the Academic year 2015-16 in the curriculum to provide the students, a balanced approach to their educational endeavour.

Under CBCS, the degree programme will consist of the following categories of courses:

i) **Core foundation (CF)** - Mandatory courses comprising of
   - Humanities courses;
   - Basic Sciences (BS)including Physics, Chemistry and Mathematics;
   - Engineering Sciences (ES), including Basic Engineering courses such as Material Science, Basic Workshop, Engineering Drawing, Engineering Graphics, Digital systems, etc.

ii) **Compulsory Courses (CC) (Mandatory)** consist of the following.
   a. **Professional Core (PC)** courses: These courses expose the students to the foundation of Engineering topics related to the chosen programme of study comprising of theory and Practical/ field work/ Design project/ Project.
   b. **Departmental Elective (DE)**: These courses enable the students to take up a group of courses of their interest in the area of specialization offered by the parent Department / School.

iii) **Non –Departmental Electives (NE):** These courses are offered by Engineering and Non-Engineering departments (across the disciplines) other than their parent Department. Two groups of Electives are available under NE namely, Engineering Electives, offered by the Engineering Departments and Open Electives, offered by the Non – Engineering departments.

iv) **Indexed Journal / Conference Publications:** If a student publishes a research paper as main author in indexed Journal / Conference, the same can be considered as equivalent to two – credit course under NE.

v) **Non-CGPA courses:** These courses are offered in certain semesters are compulsory, but are not used for calculation of GPA and CGPA. However, the credits will be mentioned in the grade sheet.

4.4 Non – CGPA courses

The student shall select any two courses /activity listed in **Table 1** during the course of study. The student has to make his / her own efforts for earning the credits. The grades given will be Pass / Fail (P/F). The respective class teachers have to encourage, monitor and record the relevant activities of the students, based on the rules issued from time to time by the Institute and submit the End semester report to the Head of the Department.

Table 1. Non – CGPA Courses

No.	Course / Activity	Credits
1.	Start ups	2
2.	Industrial Training	2
3.	Technical conference, seminar, competitions, Professional Societies	2
4.	Management courses	2
5.	Technical Certification Course	2
6.	Sports	2
7.	NCC	2
8.	NSS	2
9.	YRC	2
10.	Art and Cultural activities	2
11.	English Proficiency Certification	2
12.	Aptitude Proficiency Certification	2

13.	Foreign Languages Level II and above	2
14.	Publication in Conferences / Seminar	2
15.	Swatch Baharat Internship Scheme	2
16.	Indexed Journal Publications	4

4.5 A student must earn compulsorily, the credits mentioned under each category shown in **Table 2** and also a minimum total of **169 credits - 165 credits (CGPA) + 4 credits (Non CGPA)** for the award of B. Tech. degree. For Lateral entry students, the 41 credits required for first and second semester of B. Tech shall be deemed to have been earned based on their curriculum in the diploma course. They have to earn a minimum of **128 credits (124 credits + 4 Non CGPA credits)** for the award of B. Tech. degree.

4.6 Students are eligible for award of **B.Tech.(Hons)** upon successful completion of **181 credits (165 regular credits + 12 Additional Credits+ 4 Non CGPA credits)** maintaining a CGPA of 8.0 during their period of study (4 years) and no history of arrears as detailed in clause 7.0.

4.7 Students are eligible for the award of **B.Tech. with Minor specialisation** upon successful completion of 12 additional credits totalling **181 credits (165 regular credits + 12 Additional Credits+ 4 Non – CGPA credits)** as detailed in clause 8.0

Table 2. Distribution of Credits

No.	Category	Credits	Percentage
1	Basic Sciences (BS)	30	18
2	Humanities Courses (HS)	5	3
3	Professional Core (PC)	90	55
4	Department Elective (DE)	15	9
5	Non – Department Electives (NE)	10	6
6	Design Project	5	3
7	Internship	1	0.5
8	Project	8	5
9	Comprehension	1	0.5
	Total Credits	**165**	**100**
NON – CGPA			
10	Professional Development	4	---

4.8 The medium of instruction is English for all courses, examinations, seminar presentations and project reports.

5.0 Faculty Advisor

Faculty Advisors are assigned by the respective department to a certain number of students to help the students in planning their selection of courses and programme of study and for getting general advice on the academic programme, Such Faculty Advisor will continue to mentor the students assigned to him for the entire duration of the programme.

5.1 Class Committee

5.1.1 Every section / batch of the B. Tech. Degree programme will have a Class Committee consisting of Faculty and students.

The constitution of the Class Committee will be as follows:

a. One Professor not associated with teaching the particular class shall be nominated by the Head of the Department to act as the Chairman of the Class Committee as approved by the Dean Academics.
b. Course coordinator of each of the lecture – based courses (for common courses).
c. Class teacher of the class.
d. All Faculty handling the courses for that class in the semester.
e. Workshop Superintendent (for first two semesters); as applicable.
f. Four students from the respective class nominated by Head of the Department
g. Faculty Advisors of the respective class.

5.1.2 Course committee

A course committee shall be constituted by the HOD for all the common courses, with the faculty who are teaching the courses and with a Professor of the core department as the Chairman. The Course committee shall meet periodically to ensure the quality of progression of the course in the semester.

5.2 HoDs meeting with the students

a. The HoD shall convene a closed meeting prior to each class committee and course committee meeting with the following members.

i. HoD

ii. One Professor not associated with teaching the class

iii. Class Teacher

iv. Five student representatives nominated by the class teacher/ HoD.

b. The above committee shall discuss the academic and other issue, if any, and obtain independent feedback on all faculty on the Teaching Learning Processes, in order to take necessary action. The minutes of the meeting along with student representation and the corrective actions shall be forwarded to the Dean by the HoD.

5.3 Basic Responsibilities of Class Committee and Course committee

a. The points of discussion during the above HoDs meeting shall be discussed in the Class committee and Course Committee meetings.

b. To review periodically the progress of the students.

c. To discuss issues concerning curriculum and syllabi and the conduct of the classes.

d. To inform the students about the method of assessment as recommended by the Department Exam Committee ("DEC") at the beginning of the semester. Each class committee / course committee will communicate its recommendations and the minutes of the meetings to the Head of the Department, Dean (Academics) and the Dean (Student Affairs).

e. To conduct meetings at least thrice in a semester as per the Academic Plan issued by the Dean – Academics.

f. To review the academic performance of the students including attendance, internal assessment and other issues like discipline, maintenance etc.

6.0 Registration for courses in a Semester

A student will be eligible for registration of courses only if he/she satisfies the regulation clause 12.0 (progression) and clause 13.0 (Maximum duration), and has cleared all dues to the Institute, Hostel and Library up to the end of the previous semester provided that student is not debarred from enrolment on disciplinary grounds.

6.1 The institute follows a Choice Based Credit System. Accordingly, the students shall be given the option for selecting their courses, and credits. The student is

given the option of selecting the number of credits to undergo in a semester, subject to the curriculum requirements of minimum and maximum credits prescribed.

6.2   Except for the first year courses, registration for a semester will be done during a specified week before the start of the semester as per the Academic Schedule.

6.3   Late registration/enrolment will be permitted by the respective Dean for genuine cases, on recommendation by the Head of the respective department, with a late fee as decided from time to time.

6.4   The student shall make the choice of course in consultation with the Faculty Advisor.

6.5   Students shall have to pay additional fee as prescribed, for registering in certain elective courses under Non - Departmental Electives courses offered by certain specific Departments and for higher level Foreign Languages, as decided from time to time.

7.0   B. Tech, (Honours) Programme

A new academic programme B.Tech. (Hons.) is introduced in order to facilitate the students to choose additionally the specialized courses of their choice and build their competence in a specialized area. The features of the new programme, include:

a. B.Tech. students in regular stream can opt for B.Tech. (Hons.), provided they have a CGPA of 7.5 up to the end of third semester with 2 standing arrears at the time of registration.

b. The students opting for this program have to take four additional courses of their specialization of a minimum of 3 credits each from 5th to 8th semesters with not more than 2 additional courses in a semester.

c. The students are permitted to register for only one Hons specialization, during their period of study.

d. The list of such additional courses offered by the various Departments of the respective school will be announced in the beginning of the academic year to facilitate the registration process.

e. The student can also opt for post graduate level courses

f. The faculty advisor will suggest the additional courses to be taken by the students based on their choice and level of their academic competence.

g. Students who have obtained "E" or "U" or "RA" grade or "DE" category (vide clause 16.0 – Grading) in any course, including the additional credit courses shall complete the same within the stipulated duration of the programme to become eligible for Hons Degree,

h. The students have to pay the requisite fee for the additional courses.

8.0 B. Tech with Minor specialization:

Students, who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering / Technology/ Arts/ Fashion/ Humanities/ Management/ Basic Sciences, may opt for additional courses in minor specialisation groups offered by a department other than their parent department. Such students shall select the stream of courses offered with pre – requisites by the respective departments and earn a Minor Specialization.

a. The number of credits to be earned for Minor specialization is 12 credits.

b. The students are permitted to register for their minor specialization courses from the II semester onwards subject to a maximum of two additional courses per semester.

c. The students are permitted to register for any number of minors during their period of study.

d. The list of such additional courses offered by the various departments and the schedule will be announced in the beginning of the academic year to facilitate the registration process.

e. The students have to pay the requisite fee for the additional courses.

9.0 Attendance

The faculty handling a course must finalise the attendance, 3 calendar days before the last instructional day of the course and submit to the HoD through the class teacher.

a. A student **with less than 75% attendance (Total Contact Hours - "TCH") in any course, will not be permitted to appear for the end-semester examination in that particular course,** irrespective of the reason for the shortfall of the attendance. The student is

however permitted to avail **Academic Leave** up to 10% for attending academic related activities like, Industrial Visits, Seminars, Conferences, Competitions etc., with the prior approval of the HoD. After the event, the student should submit the relevant documents for proof to the HoD for approval of the Academic Leave.

b. The remaining 25% allowance in attendance is given to account for activities under NCC / NSS / Cultural / Sports/ Minor Medical exigencies etc.

c. A student with an attendance ("TCH" – Total Contact Hours) below 75% (65% for genuine medical conditions / Special On Duty leave) in any course will fall under the category "RA", which means Repeat the Course for want of attendance. Students under "RA" category will **not** be permitted to attend the Regular End Semester Examinations for that course.

d. The list of such students under "RA" will be notified by the respective Departments during the beginning of every semester. The students with RA courses shall repeat the course in the following mode.

9.1 Procedure for Repeat Classes for RA

a. The students shall register for the RA courses at the beginning of every semester by paying the requisite fee and attend the RA course during the last period of the time table or by attending special classes with the course faculty and become eligible to attend the End Semester Examination (ESE). The odd semester courses will be offered in Odd semester and Even semester courses will be offered in the even semester. The student is permitted to register for a maximum of 5 RA courses under this option.

b. The Continuous Internal Assessment Marks obtained by the student during their regular semester for the course in which they have been categorized as RA becomes invalid. The students shall attend the RA classes and take up fresh Continuous Internal Assessments during the RA classes and gain required attendance and CIA marks

c. The students under "RA" category, who have secured the requisite attendance as applicable and obtained internal assessment marks, by successfully completing the End of day courses or by attending special classes with the course faculty during the semester, are eligible to register for the regular End Semester Examinations for that course whenever the examination is conducted.

d. Detention

A student who secures RA in all the Theory / Elective / Theory with Practical Component courses excluding Non – Department Elective (NE) prescribed in a semester shall repeat the semester by registering for the semester in the next academic year. However, he/she is permitted to appear for arrear examinations, if any, as per eligibility.

e. **Summer Semester:** As per the decision of the Vice – Chancellor / Designated Authority and as per the requirements, the University may conduct a special Summer Semester normally in the month of June, for students having RA courses in Even and Odd semesters and conduct the Repeat Examinations for the eligible students.

9.2   Additional condonation may be considered in rare and genuine cases which includes, approved leave for attending select NCC / Sports Camps, cases requiring prolonged medical treatment and critical illness involving hospitalization.

For such select NCC / Sports Camps prior permission for leave shall be obtained by the respective faculty coordinator / Director of sports or from the designated authority, before deputing the students.

9.3   For medical cases, submission of complete medical history and records with prior information from the parent / guardian to Dean (Student Affairs) is mandatory. The assessment of such cases will be done by the attendance sub – committee on the merit of the case and put up recommendations to the Vice – Chancellor / designated authority. Such condonation is permitted **only twice** for a student in the entire duration of the programme.

The Vice-Chancellor / designated authority, based on the recommendation of the attendance sub - committee may then give condonation of attendance, only if the Vice-Chancellor deems it fit and deserving. But in any case, the condonation cannot exceed 10%.

10.0   Assessment Procedure

Every course shall have two components of assessment namely,

a. Continuous Internal Assessment "CIA": This assessment will be carried out throughout the semester as per the Academic Schedule.

b. End Semester Examination "ESE": This assessment will be carried out at the end of the Semester as per the Academic Schedule. In the End Semester Examination "ESE" the student should secure the prescribed minimum mark in each course in the ESE as given in the Table 3 for passing.

c. There are no separate minimum marks prescribed for CIA for any course.

The weightages for the various categories of the courses for CIA and ESE is given in Table 3.

Table 3 Weightage of the CIA and ESE for various categories of the courses

No.	Category of Courses	CIA weightage	CIA marks	ESE Weightage	ESE marks	Minimum marks to be obtained in ESE	Passing minimum (CIA + ESE)
1.	Theory Course	50%	50	50%	50	25	45%
2.	Theory Course with Practical	50%	50	50%	50	25	45%
3.	Department Elective (DE)/ Non – Department Elective (NE)	50%	50	50%	50	25	45%
4.	Practical Course	80%	80	20%	20	10	50%
5.	Design Project	100%	100	---	---	---	50%
6.	Comprehension	100%	100	---	---	---	50%
7.	Internship	100%	100	---	---	---	50%
8.	Project and Viva Voce	50%	50	50%	50	25	50%

10.1 Theory Course / DE / NE Assessment weightages

The general guidelines for the assessment of Theory Courses, Department Electives "DE" and Non – Department Electives "NE" shall be done on a continuous basis is given in Table 4.

Table 4 (a): Weightage for Assessment

No.		Assessment Theory, DE, NE courses	Weightage Theory, DE, NE courses	Duration
1.	CIA	First Periodical Assessment	15%	2 periods
2.		Second Periodical Assessment	15%	2 Periods
3.		Revision / Improvement Exams	--	2 Periods
4.		Seminar/Assignments/Project	10%	--
5.		Surprise Test / Quiz etc.,	5%	--
6.		Attendance*	5%	
7.	ESE	End Semester Exam	50%	2 to 3 hours

75% - 79% - 1 mark; 80% - 84% - 2 marks; ……………95% - 100% - 5 marks

10.2   Practical Course: For practical courses, the assessment will be done by the course teachers as below:

Weekly assignment/Observation / lab records and viva as approved by the Department Exam Committee "DEC"

a. Continuous Internal Assessment   --   80%
b. End Semester Examination   --   20%

10.3   Theory courses with practical Component: For theory courses with practical component the assessment will be calculated as follows as approved by the "DEC".

a. Continuous Internal Assessment   --   50%
b. End Semester Exam   --   50%

Table 4 (b) Weightage for assessment

No.		Assessment Theory, DE, NE courses	Weightage Theory, DE, NE courses	Duration
1.	CIA	First Periodical Assessment	15%	2 periods
2.		Second Periodical Assessment	15%	2 Periods
3.		Revision / Improvement Exams	--	2 Periods
4.		Practical Assessment	20%	----
5.	ESE	End Semester Exam	50%	2 to 3 hours

10.4   Design Project – Assessment

The general guidelines for assessment of Design Project is given in Table 5.

Table 5: Assessment pattern for Design Project

No.	Review / Examination scheme	Broad Guidelines	Weightage
1.	First Review	Concept	20%
2.	Second Review	Design	30%
3.	Third Review	Experiment/Analysis	20%
4.	Project report and Viva – Voce	Results and Conclusion	30%

10.5   Comprehension – Assessment

The general guidelines for assessment of Comprehension is given in Table 6.

Table 6: Assessment pattern for Comprehension

No.	Review / Examination scheme	Broad Guidelines	Weightage
1.	First Periodical Assessment – MCQ	Basic Sciences	20%
2.	Second Periodical Assessment – MCQ	Core Engineering	50%
3.	Third Periodical Assessment – Presentation	Emerging Areas	30%

10.6   Internship

A student has to compulsorily attend Summer / Winter internship during 3rd year for a minimum period of one month.

In lieu of Summer / Winter internship, the student is permitted to register for undertaking case study / project work under an engineering faculty of the Institute and carry out the project for minimum period of one month.

In both the cases, the internship report in the prescribed format duly certified by the faculty in-charge shall be submitted to the HoD. The evaluation will be done through presentation and viva. The course will have a weightage of one credit or as defined in the respective curriculum.

10.7   For final year Project / Dissertation / Design Project/ Internship, the assessment will be done on a continuous basis as given in Table 7

Table 7: Assessment of Project work

No.	Review / Examination scheme	Weightage
1.	First Review	10%
2.	Second Review	20%
3.	Third Review	20%
4.	Project report and Viva – Voce	50%

For the final year project and Viva – Voce end semester examination, the student shall submit a Project Report in the prescribed format issued by the Institute. The first three reviews will be conducted by a Committee constituted by the Head of the Department. The end – semester assessment will be based on the project report and a viva on the project conducted by a Committee constituted by the Registrar / Controller of examination. This may include an external expert.

10.8   For Non – CGPA courses, the assessment will be graded "Satisfactory/Not Satisfactory" and grades as Pass/Fail will be awarded.

10.9   Flexibility in Assessment

The respective Departments under the approval of the Department Exam Committee (DEC) may decide the mode of assessment, based on the course requirements.

10.10   A student securing **less than the minimum** specified attendance in any course (clause 9.0), will **not be permitted** to appear for the end-semester examination in that particular course and will be graded under **"RA"** category for that course. This will be denoted in the grade sheet as "RA", till the course is successfully completed in the subsequent semester(s).

11.0 Repeat Examinations

a. Normally, the results of the End Semester Examinations for Regular Theory courses are announced within a period of 2 to 3 weeks after the last regular examination.

b. The student who fail to secure a pass in the regular End semester examination are provided with an opportunity to register and appear for the Repeat Examination by paying the prescribed fee.

c. The students who fail to secure a pass on being absent for genuine reasons in their End Semester Examination for the regular courses are permitted to appear for the Repeat Exams by paying the prescribed fee.

d. During the even semester, the Repeat Examinations will be conducted for even semester courses and during the Odd semester the Repeat Examinations will be conducted for Odd semester courses.

e. The schedule for the Repeat Examinations will be notified through the Academic Calendar which will be published at the beginning of every academic year.

f. The students who wish to apply for the revaluation of their answer scripts should apply immediately after the announcement of results of the Repeat Exam by paying the prescribed fee.

12.0   Progression to higher semester

12.1   B.Tech.– Regular: Student has to satisfy the following conditions as laid down in Table 8 for progression from one academic year to next.

Table 8. Minimum Eligibility for progression B.Tech.- Regular

To enroll for semester	Minimum no. of credits to be earned for progression
3	NIL
5	15 credits* in Theory courses in 1st, 2nd and 3rd Semesters
7	30 credits* in Theory courses up to 5th Semester

* Credit calculation is applicable for Theory / Theory integrated lab only

If a student fails to satisfy the above clause in an academic year, the student has to take a break in study until they become eligible for progression

12.2 B.Tech.- Lateral Entry

Student has to satisfy the following conditions as laid down in Table 9 for progression from one academic year to next.

Table 9. Minimum Eligibility for progression B.Tech.- Lateral Entry

To enroll for semester	Minimum no. of credits to be earned
5	NIL

7	15 credits* in Theory courses in 3rd, 4th and 5th Semesters

Credit calculation is applicable for Theory / Theory integrated lab only

If a student fails to satisfy the above clause 12.2 in an academic year, the student has to take a break in study until they become eligible for progression

13.0   Maximum Duration of the Programme

A student may complete the programme at a slower pace than the regular pace, but in any case in **not more than 6 years for B. Tech, and not more than 5 years for lateral entry students excluding the semesters withdrawn as per clause 14.0.**

A student completing the B.Tech. programme during the extended period than stipulated duration will not be eligible for any University Ranks.

14.0   Temporary Withdrawal from the Programme

a. A student is permitted to take a break, up to a maximum of 2 semesters, during the entire programme to clear the backlog of arrears.

b. A student may be permitted by the Vice- Chancellor to withdraw from the entire programme for a maximum of two semesters for reasons of ill health, Start – up venture or other valid reasons as recommended by a committee consisting of Head of Department, Dean (Academic) and Dean (Student Affairs).

15.0   Declaration of results

15.1   A student shall secure the minimum marks as prescribed in Clause 10.1(Table 3) in all categories of courses in all the semesters to secure a pass in that course.

15.2   **Supplementary Examinations:** If a candidate fails to secure a pass in Practical/Theory with Practical component / Design Project / Internship / Comprehension courses, due to not satisfying the minimum passing requirement ("U" grade) – as per clause 16.1 he/she shall register for the courses by paying the prescribed fee in the subsequent semesters whenever offered by the departments. During the even semester, the supplementary exams will be conducted for even semester courses and during the odd semester the supplementary exams will be conducted for odd semester courses. He/she need not

attend the contact course. However, the Internal Assessment marks secured by the candidate will be retained for all such attempts.

15.3   A candidate can apply for the revaluation of his/her end semester examination answer script in a theory course, after the declaration of the results, on payment of a prescribed fee.

15.4   Revaluation is **not** permitted for Practical/Theory with Practical component/Design Project / Internship / Comprehension courses. However, only for genuine grievances as decided by the Exam Grievance Committee a student may be permitted to apply for revaluation.

15.5   After 5 years, i.e., completion of one year (2 semesters) from the normal duration of the programme, the internal assessment marks obtained by the candidate will not be considered in calculating the passing requirement. A candidate who secures 50% in the end semester examination will be declared to have passed the course and earned the specified credits for the course irrespective of the score in internal assessment marks earned in that course.

15.5   Candidate who earns required credits for the award of degree after 5 years for B.Tech. programme (on expiry of extended period of 2 semesters over and above normal duration of course) he/she will be awarded only *second class* irrespective of his/her CGPA. However, the period approved under temporary withdrawal, if any, from the programme (14.0) will be excluded from the maximum duration as mentioned above.

15.6   **Semester Abroad Programme:**

Students who are allowed to undergo internship or Training in Industries in India or abroad during their course work or attend any **National** / International Institute under semester abroad programme (SAP) up to a maximum of 2 semesters will be granted credit transfer for the Course Work/project work done by them in the Industry /Foreign Institute as per the recommendations of the credit transfer committee. The leave period of the students for International internships / Semester Abroad programme etc., will be accounted for attendance.

16.0   Grading

16.1   A grading system as shown in Table 10 will be followed.

Table 10: Grading system

Range of Marks	Letter Grade	Grade Points	Remarks
90 – 100	S	10	Outstanding
80-89	A	09	Excellent
70-79	B	08	Very Good
60-69	C	07	Good
50-59	D	06	Average
45 – 49	E	05	Pass
<45	U	00	To Reappear for end-semester examination
--	AB	00	Absent for the End Semester Exam
--	RA	00	Repeat the course due to Lack of minimum attendance (below 75%) in regular course (clause 9.0)
	--	00	**DETAINED** "RA" in all theory courses except Non Department Elective (NE) of a semester The student is detained and has to repeat the entire semester as per the Clause 9.1d - Detention

16.2 GPA and CGPA

GPA is the ratio of the sum of the product of the number of credits Ci of course "i "and the grade points P_i earned for that course taken over all courses "i" registered and successfully completed by the student to the sum of Ci for all "i". That is,

$$GPA = \frac{\sum_i C_i P_i}{\sum_i C_i}$$

CGPA will be calculated in a similar manner, in any semester, considering all the courses enrolled from the first semester onwards.

16.3 The Grade card will not include the computation of GPA and CGPA for courses with letter grade **RA,** and **U** until those grades are converted to the regular grades.

16.4 A course successfully completed cannot be repeated.

17.0 Grade Sheet

17.1 Letter grade

Based on the performance, each student is awarded a final letter grade at the end of the semester in each course. The letter grades and corresponding grade points are given in Table 10.

17.2 A student is considered to have completed a course successfully and earned credits if he/she secures a letter grade other than **U, RA** in that course.

17.3 After results are declared, grade sheet will be issued to each student which will contain the following details:

a. Program and discipline for which the student has enrolled.

b. Semester of registration.

c. The course code, name of the course, category of course and the credits for each course registered in that semester

d. The letter grade obtained in each course

e. Semester Grade Point Average (GPA)

f. The total number of credits earned by the student up to the end of that semester in each of the course categories.

g. The Cumulative Grade Point Average (CGPA) of all the courses taken from the first semester.

h. Credits earned under Non CGPA courses.

i. Additional credits earned for B. Tech (Hons.) and B. Tech with Minor specialization.

18.0 Class/Division

18.1 Classification is based on CGPA and is as follows:

CGPA ≥ 8.0: First **Class with distinction**

6.5 ≤ CGPA <8.0: **First Class**

5.0 ≤ CGPA <6.5: **Second Class.**

18.2 (i) Further, the award of '**First class with distinction**' is subject to the candidate becoming eligible for the award of the degree having passed the examination in all the courses in his/her first appearance with effect from II semester, within the minimum duration of the programme.

(ii) The award of **'First Class'** is further subject to the candidate becoming eligible for the award of the degree having passed the examination in all the courses **within 5 years for B. Tech programmes**

(iii) The period of authorized break of the programme (vide clause 14.0) will not be counted for the purpose of the above classification.

(iv) To be eligible for award of **B. Tech (Hons.)** the student must have earned additional 12 credits in the relevant Engineering courses offered by the Departments of the respective Schools, thereby a total of **181 credits (165 regular credits + 12 additional credits + 4 Non CGPA credits) and should have 8.0 CGPA without any history of arrears and should not have secured E, RA, U, in any course during the entire programme.**

(v) To be eligible for award of **B. Tech with Minor Specialization**, the student must have earned additional 12 credits in the relevant courses offered by other than the parent department and has successfully earned **181 credits (165 regular credits + 12 Additional credits + 4 Non CGPA Credits)**

19.0 Transfer of credits

19.1. Within the broad framework of these regulations, the Academic Council, based on the recommendation of the Credit Transfer Committee so constituted may permit students to transfer part of the credit earned in other approved Universities of repute & status in the India or abroad.

19.2 The Academic Council may also approve admission of students who have completed a portion of course work in another approved Institute of repute under lateral entry based on the recommendation of the credit transfer committee on a case to case basis.

19.3 Admission norms for working Professional:

Separate admission guidelines are available for working / experienced professionals for candidates with the industrial / research experience who desire to upgrade their qualification as per recommendation of Credit Transfer Committee and the Academic Council.

20.0 Eligibility for Award of the B.Tech. /B. Tech (Hons)/ B. Tech with Minor Specialization Degree

20.1 A student shall be declared to be eligible for award of B. Tech. /B. Tech (Hons) / B. Tech degree with Minor specialization if he/she has satisfied the clauses 4.5 /4.6 / 4.7respectively within the stipulated duration

a. Earned all the credits
b. No dues to the Institute, Hostels, Libraries etc.; and
c. No disciplinary action is pending against him / her.

The award of the degree shall be recommended by the Academic Council and approved by the Board of Management of the Institute.

21.0   Change of Discipline

21.1   If the number of students in any discipline of B.Tech. programme as on the last instructional day of the First Semester is less than the sanctioned strength, then the vacancies in the said disciplines can be filled by transferring students from other disciplines subject to eligibility. All such transfers will be allowed on the basis of merit of the students. The decision of the Vice-Chancellor shall be final while considering such requests.

21.2   All students who have successfully completed the first semester of the course will be eligible for consideration for change of discipline subject to the availability of vacancies and as per norms.

22.0   Power to modify

Notwithstanding all that has been stated above, the Academic Council is vested with powers to modify any or all of the above regulations from time to time, if required, subject to the approval by the Board of Management.

----End of the regulations ----