

REGULATIONS 2018

B. Tech.

Applicable from 2018 batch onwards



KALASALINGAM
Academy of Research and Education
Deemed to be UNIVERSITY

(Under Section 3 of UGC Act 1956)
(Accredited by NAAC with 'A' Grade)

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B.TECH. REGULATIONS 2018
(Applicable from 2018 batch onwards)

R.1.0 Admissions

- R.1.1 Admissions to the B. Tech. programme in any year will be based on the results of the Kalasalingam University Engineering Entrance Examination (KEEE) normally conducted in the month of **May / June** of that year by the University.
- R.1.2 (i) The eligibility criteria, for appearing in the Entrance Examination, as well as the criteria to be satisfied to apply for direct admission (to first year) in any academic year, will be decided by the Academic Council
- (ii) The Under-graduate Admissions Committee constituted by the Chairman, Academic Council will decide on the operational aspects of selection of candidates based on the criteria laid down by the Academic Council.
- R.1.3 The Admission Committee will decide on the procedure for conducting the KEEE and prepare a merit list of candidates. Subject to fulfilling the minimum performance criteria in the examination, as decided by the committee from year to year, the Admission Committee will offer admission, in the order of merit, to the successful candidates, taking into account the choice of the branch indicated by the candidate and the availability of seats in each branch.
- R.1.4. Eligibility for admission to B.Tech (first year):

At the time of admission, a candidate should have passed the final examination of any one of the following qualifying courses:

- (i) a) H.Sc (Mathematics, Physics and Chemistry)/ H.Sc (Vocational) or equivalent course (10+2) system,
conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi, Council for Indian School Certificate Examination, New Delhi, etc.

b) H.Sc (Pure Science) conducted by any recognized Central/ State Board, may choose B.Tech (Bio-tech) Program.
- (ii) Intermediate or two-year Pre-University course conducted by a recognized Board/ University
- (iii) Two-year course of the Joint Services Wing of the National Defence Academy
- (iv) General Certificate Education (GCE) Examination (London/ Cambridge/ Sri Lanka) at the Advanced (A) level
- (v) High School Certificate Examination of the Cambridge University, U.K.
- (vi) Any Public School/ Board/ University Certificate examinations in India or in a foreign country recognized by the Association of Indian Universities as equivalent to the 10+2 system
- (vii) 3 or 4-year Diploma recognized by AICTE or a State Board of Technical Education
- (viii) Any other examination (conducted in India / abroad), **equivalent** to any of the above mentioned examinations.
In case the relevant qualifying examination is not a public examination, the candidate must have passed at

least one public (Board or Pre-University) examination at an earlier level. If any Board awards only letter grades without mentioning the equivalent percentage of marks on the grade sheet, the candidate should obtain a certificate from the Board specifying the equivalent percentage of marks, and submit it at the time of counselling. In case such a certificate is not provided by the candidate, the decision of the Admission Committee regarding his/ her eligibility shall be held final.

In addition to the above-said requirement in their qualifying examinations, the candidates should have obtained a rank in the KEEE conducted by the university.

R.1.5. Eligibility for admission to B.Tech. (lateral entry):

For appearing in the entrance examination and admission to the second year of the B.Tech. programme of a particular branch of study, under lateral entry scheme, a candidate should have passed the final examination of the three or four year diploma course recognized by AICTE or a State Board of Technical Education, with the specialisation relevant to the branch of study of the B.Tech. programme, he/she is applying for.

R.1.6 A candidate seeking admission to the first year of B.Tech. programme in a particular year should not have completed 21 years of age as on 1st July of that year, and 22 years of age for B.Tech lateral entry.

R.1.7 The selected candidate will be admitted to the B.Tech. programme after he/she fulfils all the admission requirements as indicated in the Letter of Admission, and after the payment of all the prescribed fees.

**R 1.8 In the matter of admission to the B.Tech. programme,
the decision of the Admission Committee is final.**

R.1.9 If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission, the Director (Academic) may revoke the admission of the candidate and report the same to the Academic Council.

R.2.0 The Structure of the B.Tech. Programme

R.2.1 The Category wise credit distribution for the B.Tech program is given in Table 1. The program of instruction will consist of

- (i) A general core program comprising basic sciences, engineering sciences, humanities, engineering arts and mathematics.
- (ii) An engineering core program introducing the student to the foundations of engineering in his / her branch
- (iii) An elective program enabling the students to take up a group of courses of interest to him / her
- (iv) Community Service Project and
- (v) A project approved by the Department concerned.

The courses will belong to any one of the following categories

- (i) Theory courses (T)
Theory courses consist of lecture and tutorial hours.
- (ii) Laboratory courses (L)
Laboratory courses consist of practical hours
As part of the laboratory courses students may be asked to do a mini project work.
- (iii) Theory courses with practical component (TP)
For the theory courses which are not having the

allied laboratory course, practical component will be added to the course, if required

- (iv) Integrated Theory and Laboratory Courses (IC)
Integrated courses consist of lecture hours and laboratory hours.

TABLE 1- CGPA - Credit Distribution

S.No	Curriculum Component		Credits
I	Basic Science and Mathematics		25
II	Humanities and Social Science	3	12
	Soft Skills	3	
	Humanities Elective	6	
III	Basic Engineering		24
IV	Program Core		61
	a)Core Courses	48	
	b)Community Service Project	3*	
	c) Project Work	10	
V	Elective Courses		36
	a) Professional Elective	18	
	b)Open Elective	18**	
VI	Internship / Industry Training		2
VII	Mandatory Courses		----
Total Credits			160

Minimum credit requirement: 163 (160 CGPA + 3 Non-CGPA)

Note: *A project team comprises of 3 to 5 UG students can do the project in association with Community Service agencies like NGOs and School Students. The Project duration is one semester.

**In the open elective category, it is mandatory to earn 6 credits from Science (or) Mathematics elective courses and the rest may be chosen from any of the electives offered across the University.

On line courses:

The students are permitted to register for courses offered through web based online courses offered by other

Universities/Institutions in India (Including NPTEL) or in abroad.

On-line courses may contribute up to 20% of the credits

The BoS concerned will give prior approval for the department to permit such online courses and to have flexible assessment schemes for grading the students enrolled in such online courses

One credit Courses :

The students are permitted to enroll for one credit courses offered by the department with the help of experts from Industries or scientist from Research laboratory or professors from abroad Universities who are in deputation to KARE in III, IV, V & VI Semesters. The duration of each course is 15 hours. Students are permitted to convert 3/4 one credits earned through such one credit courses in to an equivalent three / four credit Professional/ open elective course. The BoS concerned will give the prior approval for the syllabus for the one credit courses and the assessment scheme for grading the students

Internship :

The Students shall undergo industrial training in reputed industries for a minimum period of 6 weeks during the summer vacation. At the end of the training, students shall submit a report and make a presentation which will be assessed by a committee constituted by the department.

In addition to the CGPA credit courses a student should satisfactorily complete the minimum number of other co- and extra-curricular activity – based courses categorized as Non-CGPA courses, as stipulated in Table 2.

TABLE 2 - NON-CGPA Credit Distribution

S. No	Group	Non - CGPA Course(s)	Credits	Minimum Credit Requirements
1	I	NCC	1	3 Credits (with at least one credit from each Group)
2		NSS	1	
3		Sports	1	
4		Extra Curricular Activity	1	
5	II	Value Added Courses	1	3 Credits (with at least one credit from each Group)
6		International Certification (Technical)	1	
7		Co-Curricular Activity	1	
8	III	English Proficiency Certification (TOEFL/IELTS/BEC etc)	1	3 Credits (with at least one credit from each Group)
9		Aptitude Proficiency Certification (GRE/GMAT/CAT/GATE etc)	1	
10		National / international Languages (Hindi/French/German/Japanese/Korean etc)	1	

TABLE 3 - Mandatory Courses

S. No	Mandatory Courses
1	Environmental Sciences
2	Indian constitution
3	Essence of Indian Traditional Knowledge

- R.2.2 The curriculum of any branch of the B.Tech. programme is designed to have a minimum total of **163** credits (a minimum of 160 Cumulative Grade Point Average (CGPA) credits and a minimum of 3

Non-CGPA credits) for the award of the B.Tech. degree.

- (a) Credits for the CGPA courses are assigned based on the following general pattern:
- (i) One credit for each lecture hour per week
 - (ii) One credit for each tutorial period per week
 - (iii) One or two credit(s) for each laboratory or practical session of two periods / three periods per week, depending on the degree of effort required to be put in by the students.
- (b) All the Non-CGPA courses are of Pass/Fail type. Students have to successfully complete at least one course in each group of Non- CGPA courses, as given in Table 2. On completion of each Non-CGPA course, the performance of each student will be evaluated by the respective Course Coordinator of the Non-CGPA Course, and if found satisfactory and conforming to the requirements of the course, the student will be awarded credits assigned to the course.
- (c) For the award of the B.Tech. degree, a candidate shall
- (i) Satisfy all the requirements prescribed by the Regulations of the Academic Council.
 - (ii) Earn not less than **163** credits (a minimum of 160 CGPA credits and a minimum of 3 Non-CGPA credits) for the students admitted in the first year of B.Tech. programme.
For the award of B.Tech. degree, a student admitted under the Lateral entry scheme is required to earn a minimum of 118 CGPA Credits (42 Credits lesser than the regular students admitted in the first year) out of the

courses offered from the third semester to eighth semester of the curriculum of the branch concerned and a minimum of 2 Non-CGPA credits (one credit lesser than the regular students). His/her Cumulative Grade Point Average (CGPA) will be calculated by taking into account the credit earnings and grade obtained in the courses starting from the third semester to eighth semester of the curriculum of the branch concerned.

- (iii) A student is normally expected to take four years, and the maximum period shall be seven years from the date of enrolment

R.2.3 Every branch of the B. Tech. programme will have a Curriculum and Course Content (Syllabi) approved by the Academic Council.

The instruction, examinations, seminars and project reports shall be in English, unless otherwise specifically mentioned in the curriculum.

R.2.4. A student is expected to register for a minimum of 14 credits in a Semester. The maximum number of CGPA credits registered in any semester shall not exceed 25. Students are allowed to do the Community Service Project in the 3rd year of studies and the Project work in the 4th year of studies.

A student has secured a minimum CGPA of 8.25 CGPA with all courses passed in the first attempt allowed to register for an additional lecture-based CGPA course (new course) in each of the subsequent semesters to earn the required additional 20 CGPA credits, as prescribed in **R.27.2**

The Honours courses can be taken from the Honours list / Major elective / Online courses

- R 2.5 Every course of the B.Tech. programme will be placed in one of the five categories of CGPA courses listed in Table 1, or in one of the eleven categories of Non-CGPA courses listed in Table 2. A student must earn a minimum number of credits under each category of the CGPA courses, as shown in Table 1 and under each group of the Non-CGPA courses, as shown in Table 2.

The students are allowed to register for courses offered under the M.Tech / programmes as their electives provided they satisfy the pre-requisite of the course. But every such student desiring to register for such a course must obtain the consent of the teacher offering the course and prior approval of the HoD(s) concerned and the Director (Academic).

R.3.0 Faculty Advisor

- R.3.1 To help the students in planning their courses of study and for getting general advice on the academic programme, the Department concerned will assign a certain number of students to a Faculty member who will be called their Faculty Advisor.

The Faculty Advisor will help the students in all their endeavours during their period of study. After the first End-Semester examination, if the Faculty Advisor finds that any of his/her wards is showing poor performance for whatever reason(s), he/she will bestow special care and attention on him/her as per the Standard Practice Record (SPR) of the University.

R.4.0 Batch Committee

R.4.1 Every batch of the B.Tech. programme will have a batch Committee consisting of Faculty Members and Students. The constitution of the batch Committee will be as follows:

- (i) A Senior faculty member who is not associated with teaching the particular batch nominated by the Director (Academic)/ Head of the Department concerned, to act as the Chairman of the **Batch** Committee.
- (ii) Course Coordinators of all the lecture-based courses
- (iii) Course Coordinators of all the Non-CGPA courses offered during the semester
- (iv) Workshop Superintendent(s) / Laboratory -in-charge(s)
- (v) The Batch Co-ordinator of the Batch
- (vi) Five students (in the combination of two from the toppers and three from the remaining students) from the respective batch to be chosen by the students of the batch from amongst themselves (and)
- (vii) Faculty Advisors of the students of the respective **Batch students**.

In case of project semester(s) the project guides and project work co-ordinator will become the members of the Batch Committee.

On similar lines, separate Batch Committee will be

constituted for the Summer Term Courses, organised at the end of even semesters.

- R.4.2 In a semester, each department will offer one or two common courses (taught by different teachers) where in students can exercise their choice of teachers. A separate Committee will be constituted for such common courses.
- R.4.3 The basic responsibilities of the batch Committees are
- (i) To review periodically the progress of the Batch
 - (ii) To discuss problems concerning curriculum, syllabi and conduct of the classes, for both CGPA and Non-CGPA courses.
 - (iii) To resolve issues related to slow learners in regular semesters and in summer terms.

The Batch Committee permits minor changes (not exceeding 10 percent) to the prescribed contents of a course, proposed by a teacher offering the course, to bring in tune with the latest developments in Science and Technology/current practices in industry. However, the Chairman of the Batch Committee obtains approval of the Chairman, Board of Studies concerned and the Director (Academic) for effecting such changes to the content of the course.

The method of assessment during the course will be decided by the teacher in consultation with the Batch Committee and will be announced to the students at the beginning of the semester. However for all courses in both odd & even semesters of the B.Tech. Programme, the method of assessment will consist of two Sessional Examinations, and one End-Semester

examination with weightages specified as in R.17.1. Each Batch Committee will communicate its recommendations to the Head of the Department concerned and the Director (Academic).

The method of assessment for Non-CGPA courses will be as set forth in the booklet Guidelines for the Non-CGPA Courses of B.Tech. Programmes and will be decided by the Course Coordinator concerned in consultation with the Batch Committee at the beginning of the semester.

The Batch Committees shall meet at least four times in a semester; at the beginning of the semester, after the I Sessional Examination, after the II Sessional Examination, and finally (without the student members) at the end of the semester in order to finalize the grades.

The Batch Committee, excluding the student members, is responsible for the finalization of the semester examinations results.

R.5.0 Registration and Enrolment

- R.5.1 Except for the first semester, registration for the courses in a semester will be done during a specified week before the End- Semester examination of the previous semester.
- R.5.2 First semester students have to enroll themselves on the first day of the semester.

A student will be eligible for enrolment only if he / she is not debarred for enrolment by any disciplinary action of the University. At the time of enrolment a

student can drop a course registered earlier and also substitute it by another course for valid reason(s).

- R.5.3 The registration sheet contains the Course code, name, credits assigned to and the category of each course to be registered in that semester. The student can make a choice of courses in consultation with his/her Faculty Advisor.
- R. 5.4 Registration approval has to be done by faculty advisor and Batch coordinator before the enrolment.

R.6.0 Registration Requirement

- R.6.1 The students can register for a maximum of 25 CGPA credits. For registration of course, the students should have the mandatory attendance requirement in the course specified as the pre-requisite. A student who secures U grade in an elective course will have the option for registering the same elective course or a different elective course.

R.7.0 Summer Term Course

- R.7.1 Summer Term Courses (STC) will be announced by the Office of Director (Academic) on the recommendation of the Staff Council comprising of all the Directors, Heads of the Departments and chaired by the Vice Chancellor.
- A Summer Term Course will be offered only to the passing out students who had taken the course in their final year and failed or for courses with inadequate attendance, as recommended by the respective Faculty Advisors.

No student should register for more than three courses / 10 credits during a summer term.

- R.7.2 Summer Term Courses will be announced by the Office of Controller of Examinations after the declaration of results. A student will have to register for the courses within the date stipulated in the announcement by paying the prescribed fees.
- R.7.3 The number of contact hours in any Summer Term Course will be the same as in the regular semester course. The assessment procedure in a Summer Term Course will also be similar to that for a regular semester course.
- R.7.4 Withdrawal from a Summer Term Course is not permitted. No Make-up examination (see R.18.0.) will be given for a Summer Term Course ordinarily.

R 8.0 Contact Courses

- R.8.1 Contact Courses will be announced by the Office of Director (Academic) on the recommendation of the Staff Council. A contact course may be offered during the regular semester or Summer Term by a department ONLY to Final Year student who has obtained U grade in a CORE course. The course will be offered ONLY on the recommendation of the department with the mutual agreement of the teacher and student. The students registering for the contact course will have to pay the prescribed fee fixed by the university.

However, in special cases as per the SPR, a Faculty Advisor who finds that his/her wards are in need of extra attention and help may arrange for Contact Courses for them, if required from the V semester onwards, ONLY for the CORE courses.

- R.8.2 A student cannot register for more than two Contact courses during the semester or a Summer Term. The number of courses a student can register for a Summer Term should not exceed three including the contact courses registered for that Summer.
- R.8.3 A Contact Course for a subject cannot be offered during a semester if a regular (semester) course is offered for the same subject in that semester (or in the summer).
- R.8.4 Final Year students who wish to take Contact Courses should apply to the Director (Academic) before the commencement of the semester in which the Contact Courses are to be taken.
- R.8.5 The assessment procedure for a Contact Course will be similar to that for the regular semester courses.
- R.8.6 Withdrawal from a Contact Course is not permitted.

R.9.0 Maximum Duration of the Programme

- R.9.1 A student is ordinarily expected to complete the B.Tech programme in eight semesters. However, a student may complete the programme at a slower pace, but in any case, not exceeding 14 semesters, including semesters withdrawn on medical grounds or for other valid reason(s) as per R.10.1

A student admitted under lateral entry scheme, is ordinarily expected to complete the programme in six semesters. However, a student may complete the programme at a slower pace, but in any case not exceeding 12 semesters, including the semesters

withdrawn from (a maximum of two semesters) on medical grounds or for other valid reason(s).

R.10.0 Temporary Withdrawal from the Programme

R.10.1 A student may be permitted by the Director (Academic) to withdraw from the programme for a semester or longer for reasons of ill health or other valid grounds. Normally, a student will be permitted to discontinue the programme for a maximum period of only two semesters.

A student who is permitted to discontinue may rejoin the programme at the appropriate semester only along with the regular students at the time of normal commencement of that semester.

R.10.2 A student who discontinues and rejoins shall be governed by the rules, regulations, programme of study and syllabus in force, at the time of his/her rejoining the programme.

R.11.0 Discipline

R.10.1 Every student is required to observe discipline and decorous behaviour in all activities related to academics and not to indulge in activities that would tend to bring disrepute to the University.

R.11.2 Any instance of indiscipline related to the academic activity of a student will be referred to a Discipline and Welfare Committee; likewise, any instance of malpractice by a student or faculty member in connection with the examination process will be referred to an Examination Monitoring and Grievance

Redressal Committee (EMGRC), constituted by the Chairman of the Academic Council.

These Committees will inquire into the matter and make recommendations, along with mentioning suitable punishment for the offenders (if the charges against them are substantiated), to the Staff Council. The Staff Council will consider the recommendation of these committees and decide on the appropriate action to be taken.

The Punishment period will be treated as absent.

R.12.0 Attendance

R.12.1 Every faculty member handling a class will register his/her students' attendance till the last day of instruction of the semester and finalize the attendance records of the students.

The particulars of students who have an attendance percentage less than 80 in the courses they had registered themselves for will be displayed in the university notice boards/website before the start of the Sessional examination and end semester examination. Students, whose attendance is less than 80% in the courses they had registered themselves for will not be permitted to appear for the Sessional examination / End-Semester Examination in these courses.

The attendance percentage, calculated up to the last day of instruction of the semester will be indicated by a number / letter code as shown in Table 4.

TABLE 4 Attendance code Table

Percentage of Attendance (Rounded to)	Attendance Code
95 and above	H
88 to 94	9
80 to 87	8
Below 80	L

The Hall Ticket for the End-Semester Examination will be issued only to eligible students upon their clearing all of their dues to the University, Hostel, Library and other Departments/Sections (if any) of the University.

R.12.2 If a student has an attendance percentage lower than 80 in a course, his/her performance in that course will be treated as not satisfactory, and he/she shall be awarded W grade ('W' meaning failure for want of minimum attendance) in that course. This grade shall be mentioned in his/her grade card till the course is successfully completed.

A student who is awarded a W grade for a course must repeat the course, as per regulation R.24.0 and he/she is not permitted to re-register the course as Contact Course.

R.12.3 For the Non-CGPA courses the minimum attendance requirement is 80%. If a student fails to meet this requirement, he/she should make up for the deficiency as below:

- (i) If the absence is on valid grounds, the deficiency will have to be made up for through the extra make –up programmes under the courses in question, offered during the Summer/Winter of the same year.
- (ii) If the absence is not on valid grounds, the deficiency will have to be made up for during the following year when the course in question is offered again.
- (iii) The deficiency in NSS/NCC/SPORTS classes will have to be made up for at the rate of two classes attended for each class missed.

R.12.4 Condonation of insufficient Attendance

Those students who have availed medical leave on valid grounds may be considered for condonation of attendance provided the percentage of attendance excluding the period of medical leave is not below 80 % and their attendance including the period of illness does not fall below 70%. Students can avail this facility on the basis of genuine medical reasons. The rule of Condonation of lack of Attendance is not applicable to any of the Non-CGPA Courses.

Students who wish to apply for condonation of the attendance should apply within two days before the last working day of the semester along with the medical certificates and other relevant documents to the office of the Controller of Examinations. An Attendance Committee constituted by the Chairman of the Academic Council will study the individual cases and approve the application on the basis of merit.

R.13.0 Assessment Procedure Tests and Examinations

R.13.1 The Academic Council will decide from time to time on the system of tests and examinations in each course in each semester. The general guidelines for this are as follows: Two Sessional Examinations, and End Semester Examination.

R.14.0 System of Tests

R.14.1 In the lecture / tutorial-based courses, two sessional examinations (in the case of common courses of first two semesters and for higher semester courses as decided by the Batch Committee) will be held for each course per semester. The details of weightage of marks for the Sessional Examinations will be announced by the teacher, in consultation with the Batch Committee, and the Controller of Examinations, at the beginning of the semester.

R.14.2 A co-ordinator has to be appointed from the department for each on line course. No internal and end semester examination will be conducted for on-line courses. Absolute grading will be followed for on-line courses.

R.14.3 One internal examination and an End semester examination will be conducted by the University for One Credit Courses. Question paper will be set and evaluated by the resource person. The examinations will be conducted by the university.

R.14.4. For the soft skill courses one internal examination and an End semester examination will be conducted by the university. Question paper will be set and evaluated by the resource person and the exam will be conducted by the university. Absolute grading will be followed for soft skill course.

R14.5. Evaluation of Mandatory Course

The Evaluation of mandatory courses is declared as pass/ fail type

R.15.0 End-Semester Examination

R.15.1 There will be an End-Semester Examination of three hours duration in each lecture-based course.

R.16.0 Evaluation of Project

R.16.1 The progress of the students in the Community Service Project be assessed through two periodical reviews by a Project Review Committee, constituted by the Head of the Department concerned/Director (Academic).

R.16.2 The progress of the students in their Final Year projects will be assessed **in two phases** through three periodical reviews by a Project Review Committee, constituted by the Head of the Department concerned/Director (Academic).

Upon completion of the Final Year project, the student will have to submit a project report which will be evaluated by duly appointed examiner/s. The evaluation will be based on the report and a viva voce examination on the project.

R.16.3 The project reports of B.Tech. students who have not completed their courses will be evaluated in the same semester and the results sent in confidential cover to the Controller of Examinations.

R.16.4. The progress of internship will be accessed through two periodic reviews by a Review Committee, constituted by the Head of the Department concerned/Director (Academic). Upon

completion of the Internship or industrial Training, the student will have to submit a project report which will be evaluated by duly appointed internal examiner/s. The evaluation will be based on the report and a viva voce examination on the internship as Pass /Fail type.

R.17.0 Weightages

R.17.1 The weightages for the different courses are given in Table 5.

Table 5: Weightages for the Course

S. No.	Type of Course	Component	Weightage
1	Theory Course (T)	a) Sessional Examinations (Two) b) Assignments / Mini project / Seminars / Tutorials etc. c) End Semester Examination	35% 15% 50%
2	Laboratory Course (L)	a) Internal Assessment b) External Examination	50% 50%
3	Integrated Course (IC)	a) Sessional Examinations (Two) b) Assignments / Mini project / Seminars / Tutorials etc. c) Practical (Laboratory) d) End Semester Examination	20% 10% 20% 35% (T) + 15% (L) (or) 15% (T) + 35% (L)
4	Theory with Practical (TP)	a) Sessional Examinations (Two) b) Assignments / Mini project / Seminars / Tutorials etc. c) Practical d) End Semester Examination	20% 15% 15% 50%

R.17.2 The evaluation for all tests, tutorials, assignments (if any), laboratory works and examinations will be on an absolute basis. The final marks in each course are

calculated as per the weightages mentioned in R.17.1. coursewise grading of students will be done as per R.19.1.

R.18.0 Make-up Examination

R.18.1 Students who have missed the Sessional examination(s) or End-Semester examinations for valid reasons are eligible to appear for a Make-up Examination.

Students who have missed either one or both the Sessional Examinations and the End-Semester examination in the same course for genuine reasons, such as illness, may be permitted to write Make-up Examination only for the missed End-Semester Examination with no marks being awarded for the missed Sessional Examination(s), provided they satisfy the attendance requirements.

Such of the above-mentioned students should make an application, recommended by the Faculty Advisor and Head of the Department concerned to the Director (Academic) within one week of the date of the examination missed, explaining the reason(s) for their absence. Applications received after this period will not be entertained.

The Examination Monitoring and Grievances Redressal Committee (EMGRC) will scrutinize the applications and make recommendations to the Director (Academic) on the basis of merit of their applications.

R.18.2 Official permission to take a make-up examination will be given under exceptional circumstances, such as admission to a hospital due to illness.

Students residing in the hostels should produce a Medical Certificate issued by the Chief Medical Officer (CMO) of the University that he / she was admitted in the Hospital during the period of the missed Sessional Examination /End-Semester Examination

Students residing in the hostels and taking medical consultation from outside doctors are required to obtain written permission from the Medical Officer of the University Hospital before they proceed for consultation. Those students are required to obtain an endorsement on the certificate of treatment from the Medical Officer of the University Hospital.

A student staying outside the Campus permanently / temporarily must produce a medical certificate from a Registered Medical Practitioner and the same should be duly endorsed by the parent / guardian and CMO of the University.

R.18.3 A single make-up examination will be held after the End-Semester examination for those who are permitted to take the make-up examination. The question paper will be common to all students taking the make-up examinations in a given course. The question paper will cover the entire syllabus.

R.19.0 Course-wise Grading of Students

R.19.1 Letter Grades

Based on the marks obtained by a student in the

internal and end semester examination in each theory and practical course, he/she is awarded with a letter grade.

(a) For Theory Courses

At the end of each semester, based on the individual performance in a theory course relative to the performance of the class in the particular course, each student is awarded a final letter grade. The letter grades and the corresponding grade points are shown in Table 6a.

TABLE 6 a - GRADE CONVERSION TABLE for Theory Courses (for relative grading)

Grade	Grade Points	Result
S	10	Pass
A	9	Pass
B	8	Pass
C	7	Pass
D	6	Pass
E	5	Pass
P	4	Pass
U	0	Fail
AB	0	Failure for not writing End Semester Examination
W	0	Failure for want of minimum attendance
I	0	Incomplete

(b) For Practical Courses and Project/Thesis work

At the end of each semester, based on the individual performance in a particular course, each student is awarded a final letter grade based on the marks obtained by him/her on an absolute basis. The letter grades and the corresponding grade points are shown in Table 6b.

**TABLE 6 b- GRADE CONVERSION
TABLE (for absolute grading)**

Grade	Grade Points	Mark Range (out of 100)	Result
S	10	≥ 90	Pass
A	9	≥ 80 but < 90	Pass
B	8	≥ 70 but < 80	Pass
C	7	≥ 60 but < 70	Pass
D	6	≥ 55 but < 60	Pass
E	5	≥ 50 but < 55	Pass
P	4	≥ 40 but < 50	Pass
U	0	< 40	Fail
AB	0	----	Failure for not writing End Semester Examination
W	0	----	Failure for want of minimum attendance
I	0	----	Incomplete

The I Grade awarded in a course to a student for want of completing prescribed formalities, relevant to that course, will be subsequently changed into pass grade (i.e., S/A/B/C/D/E/P) or U grade in the same semester, on completion of those formalities.

- (c) The letter grades for the one-credit course and online course in given in Table 6(c)

**TABLE 6c- GRADE CONVERSION TABLE for
One Credit and Online Courses (for absolute grading)**

Grade	Grade	Mark Range (out of 100)	Result
S	10	≥ 90	Pass
A	9	≥ 80 but < 90	Pass
B	8	≥ 70 but < 80	Pass
C	7	≥ 60 but < 70	Pass
D	6	≥ 55 but < 60	Pass
E	5	≥ 50 but < 55	Pass
P	4	≥ 40 but < 50	Pass
U	0	< 40	Fail
AB	0	----	Failure for not writing End Semester Examination

R.19.2 A student is considered to have completed a course successfully and earned the credits if he/she secures a letter grade other than a U, AB, W or I in that course. A letter grade U, AB, or W in any course implies a failure in that course. A course successfully completed cannot be repeated.

All the Non-CGPA courses are of the Pass/Fail type and are not awarded with any letter grades. A candidate earns full credits assigned to a Non-CGPA course in which he/she has registered and completed, only if he/she gets a Pass in that course, otherwise he/she loses the credits.

R.20.0 Method of Awarding Letter Grades

- R.20.1 A final meeting of the Batch Committee without the student members will be convened within seven days after the last day of the End-Semester Examination. The letter grades to be awarded to the students for different courses will be finalized at the meeting.
- R.20.2 Along with the summary sheet, a copy of the result sheet (Grade Sheet) for each course, containing the absolute marks, the final grade and attendance code will be submitted by the Course teacher/Batch Co-ordinator to the Batch Committee Chairman concerned. After finalization of the grades at the Batch Committee meeting, the Grade Summary Sheet and the Grade Sheet of the individual courses will be endorsed and forwarded by the Batch Committee Chairman to the Controller of Examinations.

R.21.0 Credit Transfer

- R.21.1 Provision of transfer of credit for students who are studying courses in foreign universities under "Semester Abroad Programme".

The following procedure will be followed for the credit transfer for students studying courses in foreign universities under "Semester Abroad Scheme":

- (i) The credits/grades indicated in the grade sheet obtained from the University in which the student has completed the courses should be used by the student as part of his/her transcripts.
- (ii) The KARE transcripts will only indicate the courses, credits and grades completed at KARE and the total number of credits (without grades) earned in other Universities in a particular semester.

- (iii) The CGPA calculation based on credits earned at KARE alone will be considered for the award of degree and other academic prizes/awards.
- (iv) The credits earned at Universities abroad will be taken into account for calculation of minimum required credits for the award of the degree. A committee comprising Director (Academic) will approve the list of courses for exemption and the equivalent credits to be given for the courses completed in foreign Universities.

R.22.0 Declaration of Results

- R.22.1 After finalization by the Batch Committee as per R.20.1, the grade sheets will be submitted for approval by the Controller of Examinations to a Grade Approval Committee constituted by the Chairman of the Academic Council. After the verification by the Grade Approval Committee, the grade summary sheet and the grade sheets of the individual courses will be signed and forwarded by the members of the Grade Approval Committee to the Controller of Examinations.
- R 22.2 With the approval of the Grade Approval Committee, the results of all the examinations conducted in a semester will be placed before the Result Passing Committee, constituted by the Chairman of the Academic Council, for the final approval.
With the approval of the Result Passing Committee, letter-grades awarded to the students in each course will be announced by the office of the Controller of Examinations on the University notice boards and website.

R.22.3 The U, AB or W grade, once awarded, stays in the record of the student, and is replaced with a pass grade when he/she completes the course successfully later; the CGPA will be accordingly revised.

R.23.0 Distribution of Evaluated Answer Books

R.23.1 The student shall have access to his/her answer books in the Sessional and End-Semester examinations through the teachers concerned on the day specified in the Academic Calendar. In case of any dissatisfaction at the valuation, the student may contact and make an appeal to the course teacher concerned on the date of distribution of the evaluated answer books. If the teacher determines that a case for lower-than-deserved marks brought forward by a student is genuine upon re-examining the answer book, he/she shall forward revised marks to the Controller of Examinations through the Chairman of the Batch Committee, with justification for the revision, and with intimation to the Head of the Department.

If the student is not satisfied with the outcome of the re-examination of his/her answer book by the course teacher, he/she should make an application to the Controller of Examinations for re-evaluation of answer book on the date of distribution of evaluated answer books. Any application for re-evaluation received after that will not be entertained. All applications for re-evaluation will be processed by the EMGRC and suitable decision will be taken by the staff council of the University, on the basis of individual merit.

The evaluated answer books after distribution to the students will be retained for a period of one year from the date of examination and will be destroyed by the COE office after this period. No grievances / complaints related to the examination / valuation of answer books will be addressed by the University after this period.

R.24.0 Course Repetition

R.24.1 A student who has secured a U grade in a core course will have the option of either repeating the course when it is offered next or reappearing for the End-Semester Examination in the course (as Arrear examination), conducted in the subsequent semester, to secure a pass grade.

A student securing a W grade in a core course has to repeat the course compulsorily when it is offered next. For the students who are required to repeat the course, he/she can register for an equivalent course if the same course is not offered and earn Sessional Marks in the equivalent course. Grades will be awarded on the basis of ESE marks plus Sessional Examination marks.

R.24.2 A student securing a U grade in an Elective course, may repeat the course if he/she so desires or reappear for the End-Semester Examination in the course, conducted in the subsequent semester, to secure a pass grade; otherwise, he/she may register for another elective (in place of the elective for which he/she was awarded the U grade) and successfully complete the course.

A student securing a W grade in an elective course, may repeat the course, if he/she so desires, to get a successful grade; otherwise, he/she may register for

another elective (in place of the elective for which he/she was awarded the W grade) and successfully complete the course.

R.24.3 Arrear examinations for the failed candidates (those securing "U" grade) in a course will be conducted only along with the regular End-Semester examinations in the subsequent semester(s), with a question paper common to them and the regular students of that semester. In case, the said course is not offered in a subsequent semester, the examination will be conducted exclusively for the arrear (backlog) candidates. Question Paper for all the arrear examinations on a course will be on the basis of the latest regulations and syllabus in force.

No sessional examination will be conducted for Arrear Examinations. The student's letter grade will be decided, on a relative basis, along with the class of students with whom the candidate had written the Sessional Examinations and secured Sessional marks.

R.24.4 A course successfully completed cannot be repeated.

R.25.0 Grade Card

R.25.1 The grade card issued at the end of each semester to the students will contain the following:

- (i) the list of CGPA courses registered by the student along with credits for each course registered for that semester;
- (ii) the letter grade obtained in each of the CGPA course
- (iii) the attendance code assigned for each CGPA course

- (iv) the total credits earned under the CGPA and Non CGPA categories in that semester
- (v) the cumulative credits earned under the CGPA and Non-CGPA categories up to the end of that semester
- (vi) the Grade Point Average of all the courses taken in that semester (SGPA)
- (vii) the Cumulative Grade Point Average (CGPA) of all the courses taken from the first semester up to the end of that semester

Separate grade cards with the above-mentioned details are issued to the students for all the Summer Term Courses they had undergone during their period of study.

R.25.2 The Semester Grade Point Average (SGPA) will be calculated according to the following formula

$$\text{SGPA} = \frac{\sum(C \times GP)}{\sum C}$$

where C = Credit(s) for the CGPA course registered and completed,

GP = Grade Point, as per the Grade Conversion Table (Table 6), given under R.19.1, for the letter grade obtained by the candidate for the course,

SC = Sum of credits from all the courses taken in that semester, including those in which the student has secured U and W grades.

For the Cumulative Grade Point Average (CGPA) a similar formula is used where ΣC , the sum of credits, is from all the courses taken in all the semesters completed up to the end of that semester.

The Non-CGPA courses are not awarded with any letter grade/grade point and are not included in the above-described Grade Point Average calculation.

R.26.0 Requirements for Non-CGPA Credit Courses

- R.26.1 All students admitted to the B.Tech. programme must earn a minimum of 3 credits for Non-CGPA courses by taking at least one course in each group, as mentioned under Table 2 of Regulations R.2.1.
- R.26.2 Each student, in consultation with his/her faculty advisor will plan the Non-CGPA courses which are normally offered during the semester and/or during the vacations either during the University working hours and/or after the working hours.
- R.26.3 The list of Non-CGPA courses and the course schedules will be displayed before the end of every semester. The students can register and enroll themselves for the courses at the time of registering and enrolling for the regular CGPA courses.
- R.26.4 The student's performance will be assessed by the respective course coordinator of each Non-CGPA course as per the procedure stated in the booklet Guidelines for the Non-CGPA Courses of B.Tech. Programmes and the result will be declared along with the results for the CGPA courses.

R.26.5 The credit earnings for all the Non-CGPA courses for a student will be mentioned in his/her Grade Card, as and when he/she completes the particular courses successfully.

R.26.6 The minimum attendance requirement in all the Non-CGPA courses is 80%, as stipulated in the regulation R.12.3.

R.27.0 Eligibility for Award of the B.Tech. Degree

R.27.1 A student shall be declared to be eligible for award of the B.Tech. degree if he/she has

- (i) Registered for and successfully completed all the required Core courses, Elective courses, Mandatory courses and the Project work.
- (ii) successfully earned the minimum required credits (both CGPA and Non-CGPA) as specified in the curriculum corresponding to the branch of his/her study within the stipulated time;
- (iii) earned the specified credits in all the categories of courses;
- (iv) no dues to the University, Hostels, Libraries, Offices of NCC / NSS / Sports /Parent-Teacher Association/ Alumni Association, etc. and
- (v) no disciplinary action pending against him / her.

R.27.2 Degree Classification: The Degree of Bachelor of Technology shall be awarded in four categories:

- (i) Honours
- (ii) First Class with Distinction

(iii) First Class

(iv) Pass

The basis for assigning a student to the Honours category shall be determined by the Board of the Faculty at its full discretion by taking the overall performance of candidates, the best 160 CGPA credit-units as specified in the syllabi of the respective programmes and 3 Non-CGPA credits, and other relevant factors into consideration as below:

- i. The student should have earned an additional 20 CGPA credits with a minimum of 8.25 CGPA with all courses passed in the first attempt .
- ii. The student must have secured a minimum CGPA of 8.25 with all courses passed in the first attempt.

For a First Class with Distinction, the student must earn 160 CGPA credits and 3 Non- CGPA credits within four years from the time of admission/enrolment and obtain a minimum CGPA of 8.25 with all courses passed in the first attempt.

For a First Class, the student must have earned a minimum of 160 CGPA credits and 3 Non-CGPA credits within five years from the time of admission/enrolment and obtain a minimum CGPA of 6.5.

Students who have earned the requisite number of credits (160 CGPA and 3 Non- CGPA) within seven years from the date of admission will be awarded a Pass.

R.27.3 Credit Requirement and CGPA calculation: (for lateral entry students)

For the award of B.Tech degree to a student admitted under lateral entry scheme, he/she is required to earn a minimum of 118 CGPA credits (42 credits lesser than that for a regular student) out of the courses offered from the third semester to eighth semester of the curriculum of the branch concerned and a minimum of 2 Non-CGPA credits (one credit lesser than that for regular students).

His/her Cumulative Grade Point Average (CGPA) will be calculated by taking into account the credit earnings and grade obtained in the courses starting from the third semester to eighth semester of the curriculum of the branch concerned.

R.27.4 The award of the degree must be recommended by the Academic Council and approved by the Board of Management of the University.

R.28.0 Power to Modify

R.28.1 Notwithstanding all that has been stated above, the Academic Council has the right to modify any of the above regulations from time to time.