

K P R Institute of Engineering and Technology

(Autonomous Institution)

Regulations 2019

(Choice Based Credit System)

B.E. / B. Tech. Programmes



K P R Institute of Engineering and Technology

(Autonomous Institution)

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi
Accredited by NBA (CIVIL, CSE, ECE, EEE & MECH) and NAAC with 'A' Grade)
An ISO 9001:2015 and ISO 14001:2015 Certified Institution
DSIR Certified Scientific and Industrial Research Organization

Avinashi Road, Arasur, Coimbatore - 641 407 | +91 422 2635600 | www.kpriet.ac.in



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REGULATIONS 2019

(Choice Based Credit System)

(Common to all B.E. / B. Tech. Degree Programmes)

Regulations 2019 have been prepared in accordance with the guidelines given by the University Grants Commission, All India Council for Technical Education and affiliating Anna University incorporating the features of the Choice Based Credit System (CBCS). The Regulation 2019 is applicable to the candidates admitted to the first year Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) Degree Programmes of the Institution from the academic year 2019-2020 onwards and academic year 2020-2021 for second year Lateral Entry students.

The regulations hereunder are subjected to amendments as may be decided by the Academic Council of the Institution from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already in the middle of the programme) as may be decided by the Academic Council.

1 PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these regulations, unless the context otherwise requires:

- i. "Academic Autonomy" means autonomy granted by the University Grants Commission (UGC) and Anna University, Chennai to KPR Institute of Engineering and Technology, Coimbatore in all aspects of conducting its Academic Programmes for promoting excellence.
- ii. "Autonomous College" means a College notified as an Autonomous college by the University, as per the Anna University Autonomous College Statute.
- iii. "Commission" means University Grants Commission.
- iv. "Council" means All India Council for Technical Education.
- v. "Statute" means Anna University Autonomous College Statute.
- vi. "University" means Anna University, Chennai.

- vii. “College” means KPR Institute of Engineering and Technology, Coimbatore.
- viii. “Programme” means a programme like ‘B.Tech. Chemical Engineering’.
- ix. “Branch” means specialization in a programme like B.E. Degree Programme in Civil Engineering, B.Tech. Degree Programme in Chemical Engineering, etc.
- x. “Course” means a subject either theory or practical identified by its course title and code, and which is normally studied in a semester, for example, ‘Basics of Electrical Engineering’.
- xi. “Head of the Institution” means the Principal of the College.
- xii. “Head of the Department” means Head of the Department concerned.
- xiii. “Controller of Examinations” means the authority of the college who is responsible for all activities of the Examinations concerned.

2 ADMISSION

2.1 Candidates seeking admission to the first semester of the eight semester B.E. / B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral entry admission

The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.

(OR)

The candidates who possess the Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Such candidates shall undergo two additional Engineering subject(s) in the third and fourth semesters in the form of bridge courses.

3 PROGRAMMES OFFERED

A student may be offered one of the following programmes of study approved by the University.

B. E. Programmes

- i. Biomedical Engineering
- ii. Civil Engineering
- iii. Computer Science and Engineering
- iv. Electrical and Electronics Engineering
- v. Electronics and Communication Engineering
- vi. Mechanical Engineering

B. Tech. Programmes

- i. Chemical Engineering
- ii. Artificial Intelligence and Data Science

The medium of instruction is English for all Courses and examinations.

4 STRUCTURE OF PROGRAMMES

4.1 Every programme shall have a distinct curriculum with syllabi consisting of theory, laboratory, mini-project, life-skills and personality development courses, as prescribed by the respective Boards of Studies, broadly categorized under:

- i. **Humanities and Social Science (HSM)** courses including Basic English, Communicative English, Life Skills, Management Courses, Professional Ethics etc.
- ii. **Basic Science (BS)** courses including Mathematics, Physics, Chemistry, Biology and further specialization in these courses.
- iii. **Engineering Science (ES)** courses including Engineering Graphics, Engineering Drawing, Workshop Practices, Basics of Electrical, Electronics, Civil, Mechanical Engineering, Computer Programming, etc.,
- iv. **Professional Core (PC)** courses include branch core courses and core courses relevant to the chosen specialization/branch.
- v. **Professional Elective (PE)** courses include elective courses offered by the department, dealing with various aspects of application, new development or both related to the chosen branch of study.
- vi. **Open Elective (OE)** courses include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum of other B.E. / B. Tech. programmes and courses offered by the Departments under the Faculty of Science and Humanities.
- vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Mini-Project, Seminar, Industry oriented courses, Industrial /Practical Training, Soft Skills courses, Online courses and Value Added Courses. An optional elective called Language Elective is offered by the Department of Humanities and

Languages which give students a chance to learn languages like German, French, Chinese, Japanese, etc.,

- viii. **Mandatory Non-credit courses (MNC)** expose the students to Induction training, Indian traditional knowledge and yoga, Constitution of India and Environmental sciences. Registration for these courses is mandatory for the students.
- ix. **Liberal Arts Courses: One Credit Courses**, open to all students to enhance and fulfill the student's interest and passion.

The assortment of the above courses shall be designed so that the student, at the end of the programme, would be able to understand his / her relevant professional field and become a successful engineer.

4.2 Credit Assignment: Each course is normally assigned a certain number of credits.

Contact period per Week	CREDIT(S)
1 Lecture period	1
1 Tutorial period	1
2 Practical periods (Laboratory/Seminar/Mini project/Project etc.)	1
4 Practical periods	2

4.3 Language Courses: A diagnostic test will be administered to all the B.E. / B.Tech. students after the admission to assess the proficiency in English and based on the score they will be brought under two streams namely, *Stream A* (Better Proficiency) and *Stream B* (Moderate Proficiency). Students under *Stream A* will study **Communicative English** and students from *Stream B* will study **Basic English** under Language Elective I in the First Semester to improve the students' English proficiency. In the Second Semester, students from both *Stream A and Stream B* can also enroll for other languages like **German / Japanese / French / Chinese / Hindi etc. or may opt for Advanced Communicative English.**

4.4 Number of courses per semester: The curriculum for a semester shall normally have a blend of maximum of 7 theory courses and 3 laboratory courses. In addition, Employability Enhancement Courses (EEC) may also be included.

4.5 Industrial training /Internship

Students shall undergo a minimum of 4 weeks of industrial training/internship as part of the curriculum and earn 2 credits which is mandatory to complete the programme. The industrial training/internship shall be completed in 2 spells of 2 weeks each at research organizations / reputed academic institutions / industries after Semester III,

during winter / summer vacation. A student can also take up 4 weeks of industrial training/internship at a stretch with the approval of Departmental Consultative Committee (DCC) and earn 2 credits. The students can also earn one more credit by attending an additional two-week industrial training/internship program.

4.6 Electives: Every student is required to opt for professional and open electives (vide clause 4.9) according to the approved curriculum for the branch of study.

An Elective course shall be offered by any department for a minimum 20 students registering for the course. However, if the student's strength is less than one division, a minimum of 50% of students shall register for an Elective course.

4.6.1 Students interested in competitive examinations such as Graduate Aptitude Test in Engineering (GATE), Indian Engineering Services etc. may opt for the professional elective courses 'Comprehension I' and 'Comprehension II' and shall enroll when offered by the respective departments.

4.6.2 Entrepreneurship track courses: A total of three courses shall be offered as 'Entrepreneurship track' courses to the students as open electives at different semesters from semester V to semester VII. Normally these courses shall be offered by the Department of Science and Humanities. However such courses can also be offered as professional elective courses by the parent department, during semesters V to VIII.

4.7 Industry-oriented Courses: Students can also opt for one credit courses (15-20 Hrs.) which will be offered by the experts from the industry on specialized topics. The industry experts with relevant experience and qualifications (M.E with 5 years of experience or B.E. with 10 years of experience) shall be recommended by the DCC and shall be approved by the Head of the Institution.

On successful completion of these (clause 4.5 and 4.7) courses accumulating to 3 credits (a maximum of 3 one credit courses), a student has the option of dropping one professional elective in its place during the VIII semester. However, if a student wishes to avail the exemption from any one of the electives in VIII semester, he / she can do so by exercising his / her option in writing to the respective Head of the Department within the first week of the VIII Semester, following the equivalence norm, that one regular elective (in the VIII Semester) is equivalent to three one credit courses or a combination of 2 one credit courses and one credit earned through additional industrial training/internship. Any additional credit, from such industry oriented courses shall be credited over and above the total credit requirement prescribed in the curriculum. Details of the courses recommended by the DCC shall be approved by the Head of the Institution and forwarded to the Office of the Controller of Examinations.

4.8 Online Courses

4.8.1 A student is permitted to earn a maximum of 3 credits through online courses with the approval of the DCC and Head of the Institution.

4.8.2 The course may be credited as an online course (NPTEL, SWAYAM and other MOOC courses with proctored examinations). Special online courses, with proctored examinations, may be offered by signing a Memorandum of Understanding (MoU) with reputed Universities or Professional bodies with the written consent from DCC. Summary of such online courses, taken by the students, along with the details of offering agency shall be presented to the Online Course Committee (OCC) headed by the Head of the Institution for approval before the registration of such courses and the same shall be presented to the Board of Studies (BoS) for information. However, those students need to obtain certification from the agency / agencies offering the course, to become eligible for writing or seeking exemption (professional elective course) from the End Semester Examination. In case of credits earned through online mode, from the other Institute / University, the credits may also be transferred directly after due approval from the DCC, OCC and Head of the Institution.

4.8.3 A student can get exemption from enrolling for a professional elective for a maximum of 3 credits during the entire programme in lieu of such online courses.

4.9 Open Elective: Students shall choose a minimum of two and a maximum of six (as per AICTE suggestion) open electives offered by other departments during semesters IV to VII. There shall be no pre-requisite course(s) for such open electives. Open Elective courses include the fundamental courses offered across all disciplines. There will be a pool of open elective courses offered by different departments. Language Electives like German, French, Chinese, Japanese, Hindi etc. shall be offered by the Department of Science and Humanities. The mentors concerned (vide clause 9) are required to guide the students in choosing the appropriate elective(s).

4.10 Fast Track System: Fast Track System shall enable students to undergo a semester- long Internship or Special Training during Semester VIII. A student who secures a minimum CGPA of 7.50 without any current arrears shall be eligible to opt for Fast Track System. Such students shall undergo the semester VIII courses during the semesters VI and VII. The Head of the Department, in consultation with the faculty member handling the said courses shall forward the proposal approved by the Principal to the Controller of Examinations at least 3 weeks before the commencement of the VI semester of the programme. To enable the Fast track system, only two professional electives shall be offered during the semester VIII, apart from Project work.

- 4.11 Project Work:** Every student shall be required to carry out a Project Work in the Department / Industry / Research organization during VIII Semester in consultation with Project Guide/Supervisor and submit the project report, in the prescribed format, at the end of VIII Semester for evaluation.
- 4.12 Mini Project:** Every student shall carry out a mini project work as part of the curriculum and earn one credit. The mini project shall be carried out during semesters IV to VII. Mini project work shall be evaluated through continuous assessment. Additional mini project with one credit may be offered to the students as part of the curriculum with the approval from the Board of Studies of the respective department.
- 4.13 Technical Seminar:** Every student shall enroll for the 'Technical Seminar' as part of the curriculum and earn one credit. The presentations as part of the evaluation for the Technical Seminar shall be carried out in the department for any one semester during semesters IV to VI and shall be evaluated through continuous assessment.
- 4.14 Mandatory Non-credit courses:** Induction training shall be offered at the start of the first year. The mandatory non-credit courses mentioned in clause 4.1 shall be offered as part of the curriculum and to be conducted not less than 20 hours. Department offering B.Tech. Chemical Engineering programme shall offer the course 'Environmental sciences' as a credited course. Mandatory Courses suggested by AICTE are to be highlighted and semester wise may be taken-up for all branches of study.
- 4.15 Liberal Arts Courses:** Recommended by various BoS are listed below:
- Executive Communication and Leadership Development
 - Emotional Intelligence and Stress Management
 - Goal Setting, Team Building and Positive Thinking
 - Start-up and Entrepreneurship
 - Digital Marketing

On completion of any of the liberal arts course, students will attain 1 credit. On successful completion of liberal arts courses accumulating to 3 credits (a maximum of 3 credits), a student has the option to get exemption for one Open Elective Course.

5 VALUE ADDED COURSES

A Student can opt for Value Added Courses offered by various Departments / Centers or in collaboration with the industry / research organizations / premier academic institutions during Semesters II to VII for which the batch size shall not exceed 40 per course. The value added courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. These courses shall be offered by the department with the prior approval from the Head of the Institution. Head of the Department shall forward the list of such courses, duly approved / ratified by the DCC and the Head of the Institution, to the Controller of Examinations to administer the examination process. On successful completion of the course, Credit earned will be indicated in the semester Grade Sheets as well as in the consolidated Grade sheet as additional credits.

6 DURATION OF THE PROGRAMME

- 6.1** A regular student (admitted after 10+2) or equivalent is normally expected to satisfactorily fulfill the requirements for award of the degree B.E. / B.Tech. within four academic years (8 semesters) from the date of admission but in any case not more than 7 years (14 Semesters); lateral entry students shall fulfill such requirements within three academic years (6 semesters) from the date of admission but in any case not more than six years (12 Semesters) leading to the award of Degree of Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) of Anna University, Chennai.
- 6.2** The total period for completion of the programme from the commencement of the semester, to which the student was admitted, shall not exceed the maximum period (Clause 6.1), regardless to the break-of-study (vide Clause 16) or period of prevention in order.
- 6.3** Each semester shall consist of minimum 75 working days or 540 periods of 50 minutes each or equivalent. Head of the Department shall ensure that every faculty member teaches the course as prescribed in the approved curriculum and syllabi.
- 6.4** Special Theory / Practical Sessions may be conducted for students who require additional inputs over and above the number of periods normally specified (Remedial Classes), as decided by the Head of the Department, within the specified duration of the Semester / Programme.

7 COURSE ENROLLMENT AND REGISTRATION

- 7.1** Each student, on admission shall be assigned to a mentor (vide Clause 9) who shall Advise/ counsel the student about the details of the academic programme and the choice of course(s) considering the student's academic background and career objectives.
- 7.2** Each student, on admission to the programme, shall register for all the courses prescribed in the curriculum in the first Semester of study (III Semester for students admitted under lateral entry stream).
- 7.2.1** The enrollment for all the courses of the Semester II will commence 10 working days prior to the last working day of Semester I. The student shall confirm the enrollment by registering for all the courses within the first five working days after the commencement of the Semester II.
- 7.2.2** The enrollment for the courses of the Semesters III to VIII will commence 10 working days prior to the last working day of the preceding semester. The student shall enroll for the courses with the guidance of the student's mentor. If a student wishes, the student may drop or add courses (vide Clause 7.4) within five working days after the commencement of the semester concerned and complete the registration process duly authorized by the mentor.
- 7.3** After registering for courses for the semester, a student shall attend the classes, satisfy the attendance requirement as per clause 8, earn Continuous Assessment marks and appear for the End Semester Examinations.
- 7.4 Flexibility to Add or Drop courses**
- 7.4.1** A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. However, if a student wishes, he/she is permitted to earn more than the total number of credits prescribed in the curriculum by opting for industry oriented courses, online courses, internship, etc.,
- 7.4.2** From the III to VIII semesters (from IV to VIII Semesters in case of lateral entry students), a student has the option of registering for additional courses. In such cases, the attendance requirement as stated in Clause 7.3 is mandatory. Total number of credits of such courses cannot exceed 6 in a given semester. A student can drop only professional electives, to a maximum of two courses during the entire duration of study.
- 7.4.3** The student shall register for the project work in the VIII semester only.

7.5 Reappearance for arrear examinations

7.5.1 If a student fails in a theory course, the student shall appear for the End Semester Examinations in the subsequent semester(s).

7.5.2 This applies to all theory courses including ‘Theory with Laboratory component’ courses. The passing requirements for such courses shall be as given in clause 12.

7.5.3 If a student fails in a professional elective or an open elective, he/she may reappear for the End Semester Examination of the same course(s) in the subsequent semester(s). Instead, if the student wishes to register for different professional elective or open elective course(s) in the subsequent semester(s), the student should attend the classes, earn continuous assessment marks and appear for End Semester Examination. However, such change of elective courses is permitted only once during the entire duration of study.

7.5.4 A student who fails in any Laboratory Course / Project work / Seminar and any other EEC course shall reappear for End Semester Examination in the subsequent semester(s). For all theory, laboratory and EEC courses, the passing requirements are as given in clause 12.

7.5.5 If a student is prevented from writing End Semester Examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per clause 8. If the course, in which the student has “lack of attendance”, is a Professional Elective or Open Elective, the student may register for the same or any other Professional Elective or Open Elective course(s) in the subsequent semester(s) and appear in the examination as per Clause 7.3.

7.5.6 An Elective course shall be offered by any department for a minimum 20 students registering for the course. However, if the student’s strength is less than one division, a minimum of 50% of students shall register for an Elective course.

8 ATTENDANCE REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for appearing for End Semester Examination of a particular course.

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

- 8.2** If a student, secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) or participation in Institution / University / State/ National / International level extra and co-curricular activities, with prior permission from the Head of the Department, shall be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / participation certificate attested by the Head of the Department (along with Condonation form). Such certificates along with the Condonation forms shall be forwarded to the Controller of Examinations for verification and permission to attend the examinations. However during the entire programme of study, a student can avail such Condonation in any two semesters only.
- 8.3** A student shall normally be permitted to appear for End Semester Examination of the course(s) if the student has satisfied the attendance requirements (vide Clause 8.1) and has registered for examination in those courses of that semester by paying the prescribed fee.
- 8.4** Students who do not satisfy Clause 8.1 and 8.2, and those who secure less than 65% attendance will not be permitted to write the End-Semester Examinations of that semester and are not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.

9 MENTORS

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department will attach a certain number of students (Maximum of 20) to a Faculty member of the Department who shall function as Mentor for those students. The Mentor shall advise and guide the students in registration of courses, monitor their attendance, authorizing the course registration of the students concerned, monitor progress and counsel them periodically. If necessary, the mentor may also discuss with or inform the parents about the progress / performance of the students concerned.

10 COURSE COMMITTEES

10.1 Common Course Committee

- 10.1.1** A theory course handled by more than one faculty including the discipline with multiple divisions (greater than or equal to 2) shall have a “Common Course Committee” comprising of all members of faculty teaching that course with one of the members as the Course Coordinator, nominated by the Head of the Institution (Head of the Department in the case of multiple divisions of a discipline) and student representatives (one per specialization or division) registered for that course in the current semester.

First meeting of the Common Course Committee shall be held within fifteen days from the date of commencement of the semester. Four subsequent meetings in a semester may be held at suitable intervals.

- 10.1.2** In addition, Common Course Committee shall meet the student representatives of each class. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching- learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all the students

10.2 Class Committee

For all the courses taught, prescribed in the curriculum, Class Committee meeting shall be convened thrice in a semester (first meeting within 15 days from the commencement of the semester and other two meetings at equal interval after the first meeting) comprising members of the faculty handling all the courses, mentors and six student representatives from the class.

One of the members of the faculty (preferably not handling any courses to that class), nominated by the Head of the Department, shall coordinate the activities of the Committee. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all other students.

10.3 Overall Monitoring Committee

- 10.3.1** Overall Monitoring Committee (OMC) is constituted to monitor all academic activities, progress and status of the students of the semester concerned. OMC comprises of (i) Head of the Department (ii) All mentors of the students. The OMC will meet periodically to discuss all academic activities and progress of the students. OMC can also invite some students for any of the committee meetings if necessary.

11 SYSTEM OF EXAMINATION

- 11.1** Performance in each course of study shall be evaluated based on (i) Continuous Assessment throughout the semester and (ii) End Semester Examination at the end of the semester for the regular courses or as given in the Clause 17. However, the final examination in the case of Industry Oriented Courses / Value added courses may be conducted, as and when the course is completed, through the Office of the Controller of Examinations.
- 11.2** Each course, both theory and practical including project work, shall be evaluated as per the Scheme of Assessment given in Clause 17.

- 11.3** The End Semester Examinations shall normally be conducted after satisfying the Clause 6.3. Supplementary Examinations may also be conducted, at such times, for the benefit of the students as decided by the Chairman, Academic Council of the institution.
- 11.4** For the End Semester examinations, both theory and practical courses including project work, the internal and external examiners (from Academia or Industry) shall be appointed by the Controller of Examinations as per the guidelines given by the Head of the Institution.
- 11.5** The total number of credits for which a student is permitted to appear for End Semester Examinations cannot exceed 36 credits, including all the credits for the courses registered in the current semester.
- 11.6** A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of grades.

12 PASSING REQUIREMENTS AND PROVISIONS

- 12.1** A student who secures not less than 50% of total marks prescribed for a course [Internal Assessment + End semester Examinations] with a minimum of 45% of the marks prescribed for the End Semester Examination, shall be declared to have passed the course successfully and earned the prescribed credits for that course, applicable for all registered courses. This is applicable for both theory and practical courses (including project work).
- 12.1.1** If a student fails to secure a pass in a particular course, i.e., failing to obtain minimum marks, as stated above, it is mandatory that he/she shall reappear for the examination in that course in the subsequent semester(s) whenever the examinations are conducted for that course, till he / she secures a 'Pass'. If the course is a 'Theory with Laboratory component', he/she shall write the End semester examinations for the Theory component only.
- 12.1.2** Continuous Assessment (CA) marks obtained by the student in the first appearance shall be retained and considered valid for two subsequent attempts. However, from the third attempt (i.e., fourth appearance) onwards, the student shall be declared to have passed the course if he/she secures a minimum of 50% minimum marks in the End Semester Examinations alone and the related Continuous Internal Assessment marks obtained will not be considered or retained thereafter.

- 12.2** The minimum number of total credits to be earned by a student to qualify for the award of Degree in the various branches of study as prescribed by the respective Boards of Studies is given below:

Name of the Programme	Credits to be earned
	Regular admission
B.E. Programme(s)	
Biomedical Engineering	165
Civil Engineering	165
Computer Science and Engineering	165
Electrical and Electronics Engineering	165
Electronics and Communication Engineering	165
Mechanical Engineering	165
B.Tech. Programme(s)	
Chemical Engineering	165
Artificial Intelligence and Data Science	165

Note: If a student wishes, he/she shall be permitted to earn additional credits vide Clause 4.5, 4.7, 4.8, 4.12, 4.15 and 5. Such additional credits earned (Subject to a Maximum of 15) will be indicated in the semester Grade sheet and consolidated Grade Sheets as additional credits. These additional credits will not be considered for SGPA/CGPA calculations.

- 12.2.1 Student Migration and Credit Transfer:** If a student migrates from other institutions to KPR Institute of Engineering and Technology or rejoins from previous regulation to the current regulation, normalization of the Credits will be carried out in consultation with the Course Equivalency Committee of the programme concerned and approved by the Head of the Institution.

13 ASSESSMENT AND AWARD OF LETTER GRADES

- 13.1** The assessment shall be based on the performance in the End Semester Examinations and / or Continuous Assessment, carrying marks as specified in Clause 17. Letter Grades (based on Credit Point and Grade Point) are awarded to the students based on the performance in the evaluation process.
- 13.2** Credit Point is the product of Grade Point and number credits for a course and Grade Point is a numerical weight allotted to each letter grade on a 10-point scale (as specified in the Clause 13.3), while the Letter Grade is an index of the performance of a student in a said course.

13.3 The performance of a student will be reported using Letter Grades, each carrying certain points as detailed below:

Range of Total Marks (as specified in Clause 17) / Specific Reason	Grade Points	Letter Grade
90 to 100	10	O (Outstanding)
80 to 89	9	A + (Excellent)
70 to 79	8	A (Very Good)
60 to 69	7	B + (Good)
50 to 59	6	B (Above average)
0 to 49	0	RA (Reappearance)
Withdrawal	0	W
Shortage of Attendance	0	SA

‘RA’ --- Reappearance

‘W’ --- Withdrawal from End Semester Examination.

‘SA’ --- Shortage of attendance (Clause 8) and hence prevented from writing end semester examination.

13.4 GPA and CGPA Calculation: After completion of the evaluation process, Grade Point Average (GPA), and the Cumulative Grade Point Average (CGPA) is calculated using the formula:

$$GPA/CGPA = \frac{\sum_{i=1}^n C_i \times g_i}{\sum_{i=1}^n C_i}$$

where

C_i : Credit allotted to the course.

g_i : Grade Point secured corresponding to the course.

n : number of courses successfully cleared during the particular semester in the case of GPA and during all the semesters, under consideration, in the case CGPA.

13.5 A student who does not appear for the End Semester Examinations in a course, after registering for the same, shall be deemed to have appeared for that examination for the purpose of classification (Subject to Clause 14 and 15).

13.6 Mandatory non-credit courses will not be taken into account for the calculation of CGPA. For the non-credit Value added courses, Grades shall be indicated as given in the Clause 17 and shall not be counted for the computation of GPA/CGPA.

13.7 Examination Wrapper and Revaluation: For a theory course, one week after the publication of results, there shall be an examination wrapper day. On this day, the students can go through their end semester answer papers in the presence of the course instructors and Head of the department and get clarifications. In cases of dispute, when the student is not satisfied with the clarifications/corrections, the student can apply for revaluation. A student, who seeks re-valuation of the answer script shall be directed to apply for the photocopy of his/her semester examination answer paper(s) in the theory course(s) in the prescribed format to the Controller of Examinations through the Head of the Department. The Controller of Examinations shall arrange for revaluation jointly by two examiners, one examiner preferably an external member and declare the results. There will not be any further reviews. Revaluation is not permitted to the courses other than theory courses. In the case of theory courses with laboratory component, a student can seek revaluation for the theory component only, following the procedure as stated in clause 12.1.1.

13.8 The grades O, A+, A, B+ and B or the grades in all special courses including Industry oriented courses additional Internship and Online courses shall figure in the Grade sheets. The courses for which the grades are RA and SA will not figure in the Grade sheet.

14 AWARD OF DEGREE AND CLASSIFICATION

14.1 ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of B.E. / B.Tech. Degree provided the student has

- i. Successfully gained the required minimum number of total credits as specified in the curriculum corresponding to his / her programme within the stipulated time.
- ii. Successfully completed the course requirements, appeared for the End Semester Examinations and passed all the courses prescribed in all the eight semesters within a maximum period of seven years (six years in the case of lateral entry) from the commencement of the first (third in the case of lateral entry) semester to which the student was admitted.
- iii. Successfully passed any additional courses prescribed by the Course Equivalency Committee constituted by the Principal whenever re-admitted under any other regulations.
- iv. No disciplinary action is pending against him /her.

14.2 CLASSIFICATION OF THE DEGREE AWARDED

14.2.1 First Class with Distinction:

A student who satisfies the following conditions shall be declared to have qualified for the award of degree with the classification, First class with Distinction.

- i. Should have passed the examination in all the courses of all the 8 semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within 5 years (4 years in the case of Lateral Entry). Withdrawal from examination (vide Clause 15) will not be considered as an appearance.
- ii. Should have secured a CGPA of not less than 8.50
- iii. One year authorized break of study (if availed) is included in the 5 years in the case of regular and 4 years in the case of lateral entry for award of First Class with Distinction.
- iv. Should NOT have been prevented from writing End Semester Examination due to lack of attendance in any semester/course

14.2.2 First Class: A student who satisfies the following conditions shall be declared to have qualified for the award of degree with the classification, First class

- i. Should have passed the examination in all the courses of all the 8 semesters (6 semesters in the case of Lateral Entry) within 6 years (5 years in the case of Lateral Entry).
- ii. One year authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable) is included in the duration of 6 years for regular students and 5 years in the case of lateral entry students for award of First Class.
- iii. Should have secured a CGPA of not less than 7.00

14.2.3 Second Class:

All other students (not covered in clauses 14.2.1 and 14.2.2) who qualify for the award of the degree (vide Clause 14.1) shall be declared to have passed the examination in Second Class.

14.2.4 Course completion certificate shall be given to a student, provided he/she should have registered for all the courses and also registered for the examination in those courses (subject to Clause 7 and 8)

15 WITHDRAWAL FROM EXAMINATION

15.1 A student may, for valid reasons, be granted permission by the Head of the Department to withdraw from appearing in the examination in any course(s) only once during the entire duration of the degree programme.

15.2 Withdrawal application shall be valid only, if the student is eligible to write the examination as per Clause 8 and, if such request for withdrawal is made prior to the submission of the Continuous Assessment marks of the course(s) with the recommendations from the Head of the Department. The application shall be sent to Head of the Institution through the Head of the Departments with required documents.

15.3 Withdrawal shall not be considered as an appearance in the examination for the eligibility of a student for First Class with Distinction.

16 AUTHORIZED BREAK OF STUDY FROM A PROGRAMME

16.1 A student is permitted to go on break of study for a maximum period of one year as a single spell with a valid reason.

16.2 A student is normally not permitted to break the period of study temporarily. However, if a student happens to discontinue the programme temporarily during the middle of programme of study, for reasons such as personal accident or hospitalization due to ill health or in need of health care, he/she shall apply to the Head of the Institution in advance, in any case, not later than the last date for registering for the semester examination, through the Head of the Department stating the reasons for the break-of-study (for one academic semester or 6 months, whichever is earlier). However, a student detained for want of minimum attendance requirement as per Clause 8 shall not be considered as permitted 'Break of Study' and Clause 16.3 is not applicable for such case.

16.3 A student is permitted to rejoin the programme after the break/ prevention and shall be governed by the rules and regulations of DoTE (Directorate of Technical Education) and the Curriculum and Regulations in force at the time of rejoining so as to bridge the curriculum in force and the old curriculum. All such students shall apply in the prescribed format to DoTE through the Head of the Institution.

16.4 Authorized break of study will not be counted towards the duration specified for passing all the courses (vide Clause 6.1 and 6.2) and for the purpose of classification of Degree (vide Clause 14).

16.5 The total period for completion of the programme reckoned from the commencement of the first semester to which the student is admitted shall not exceed the maximum period specified in Clause 6.1, irrespective of the period of break of study in order that he / she may be eligible, for the award of the degree (vide Clause 14).

16.6 In case of valid reasons (as stated in Clause 16.2) extended break-of-study may be granted by the Head of the Institution for a period not more than one more year in addition to the earlier authorized break of study.

16.7 If a student does not report back to the college, even after the extended Break of Study, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.

17 SCHEME OF ASSESSMENT

Courses offered under B.E. / B.Tech. Programmes are assessed as given below:

I	THEORY COURSES	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>CIATI (50 Marks)</i> <i>CIATII (50Marks)</i> <i>CIAT III (100 Marks)</i> <i>One MCQ for employability enhancement / Open Book Test– 20 Marks</i>	20
	End Semester Examination (100 Marks)	80
	Total Marks	100

II	THEORY COURSES WITH LAB COMPONENT (L T P C: 2 0 2 3)	Marks
	Internal Assessment (Theory) Distribution of marks for Internal Assessment : <i>CIATI (50 Marks)</i> <i>CIATII (50Marks)</i> <i>CIAT III (100 Marks)</i>	20
	Internal Assessment (Laboratory) Assessment of Experiments : (50) <ul style="list-style-type: none"> • <i>Preparation</i> • <i>Experiment and Results</i> • <i>Quiz / Viva Voce</i> Final Laboratory Examination (50)	20
	End Semester Theory Examination	60
	Total Marks	100

III	PRACTICAL COURSES INTEGRATED WITH THEORY COMPONENT	Marks
	Internal Assessment Distribution of marks for Internal Assessment:	
	<i>Theory assessment CIATI (50 marks)</i>	20
	<i>Two assessments for practical component</i> <i>CIATII (50marks)</i> <i>CIATIII (50marks)</i>	20
	End Semester Examination (100 Marks)	60
	Total Marks	100

IV	LABORATORY COURSES	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>Assessment of Experiment: (40)</i> <ul style="list-style-type: none"> • Preparation • Experiment and Results • Quiz / Viva Voce 	20
	<i>Mid Semester Lab Examination (30)</i>	
	<i>Innovative Project / Application Oriented Project (30)</i> <ul style="list-style-type: none"> • Project Report • Quiz / Viva Voce 	
	End Semester Examination (100 Marks)	80
	Total Marks	100

V	LANGUAGE ELECTIVE COURSE (CONTINUOUS ASSESSMENT ONLY)	Marks
	Distribution of marks for Continuous Assessment: <i>CIATI (50 Marks)</i> <i>CIATII (50 Marks)</i> <i>CIAT III (100 Marks)</i> <i>Listening, Speaking, Reading, Writing and other components as applicable)</i>	20
	Final Examination (100 Marks)	
	Total Marks	100

VI	PROJECT	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>Review I : (25 Marks)</i> <i>Review II : (25 Marks)</i> <i>Review III : (50 Marks)</i>	20
	End Semester Evaluation & Viva Voce	
	Total Marks	100

VII	MINI PROJECT	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>Review I : (50 Marks)</i> <i>Review II : (50 Marks)</i>	20
	End Semester Evaluation & Viva Voce	
	Total Marks	100

VIII	TECHNICAL SEMINAR (CONTINUOUS ASSESSMENT ONLY) (Credit Course)	Marks
	<i>Presentation I</i>	30
	<i>Presentation II</i>	30
	<i>Presentation III</i>	40
	Total Marks	100

IX	INDUSTRY ORIENTED COURSES (CONTINUOUS ASSESSMENT ONLY) (Credit Course)	Marks
	<i>Test I</i>	50
	<i>Test II</i>	50
	Total Marks	100

X	INDUSTRIAL TRAINING / INTERNSHIP (CONTINUOUS ASSESSMENT ONLY) (Credit Course)	Marks
	<i>Review I</i>	30
	<i>Review II</i>	30
	<i>Report & Final Evaluation</i>	40
	Total Marks	100

XI	VALUE ADDED COURSES / SOFT SKILLS (CONTINUOUS ASSESSMENT ONLY) (Non-Credit Course)	Marks
	<i>Test I</i>	20
	<i>Test II</i>	20
	<i>Final Examination / Evaluation</i>	60
	Total Marks	100
	Grades (Excellent / Good / Satisfactory) (Certificates only)	100

XII	LIBERAL ARTS COURSES (CONTINUOUS ASSESSMENT ONLY) (Credit Course)	Marks
	<i>Test I</i>	30
	<i>Test II</i>	30
	<i>Final Evaluation</i>	40
	Total Marks	100

XIII	EMPLOYABILITY ENHANCEMENT COURSES (CONTINUOUS ASSESSMENT ONLY) (Credit Course)	Marks
	<i>Test I</i>	30
	<i>Test II</i>	30
	<i>Final Evaluation</i>	40
	Total Marks	100

Supplementary Test: A student becomes eligible to appear for Supplementary Test (s) conducted by the Controller of Examinations, after the Continuous Internal Assessment Test(s) (CIAT), only under the following circumstances: (i) The student was absent for CIAT on account of medical reasons (hospitalization / accident / specific illness), or participation in the College / University / State / National / International level Sports events with prior permission from the Head of the Department, and (ii) the student should have registered for the Supplementary Test, through the member of faculty who handles the course or through the respective Head of the Department and got approval by the Head

of the Institution.

18 FIELD / INDUSTRIAL VISIT

Heads of Departments, in order to provide experiential learning to the students, shall take efforts to arrange at least one industrial visit / field visit in a semester.

19 PERSONALITY AND CHARACTER DEVELOPMENT

Every student shall be required to undergo a minimum of 40 hours of Personality Development Programmes via, NSS / NCC / YRC / YOGA / Sports and Games / Technical and Non-Technical Club activities during the first year.

The attendance of the personality and character development courses / events shall be maintained on the regular basis by the concerned First Year Co-ordinators and made available in the Office of the Controller of Examinations before the commencement of Semester examinations of Semester I or Semester II.

20 DISCIPLINE

A student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof.

If a student indulges in malpractice in any of the End Semester / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the college / University from time to time.

21 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The college reserves the right to revise/amend/change the Regulations, Curriculum, Syllabi, and Scheme of Examinations and date of implementation through the Academic Council, and to introduce additional Electives, Open Electives, and one / two Credit Courses through the respective Boards of Studies.

Members approved the Survey Camp as 1 credit course, which is to be conducted for Civil Engineering students for a period of 2 weeks.
