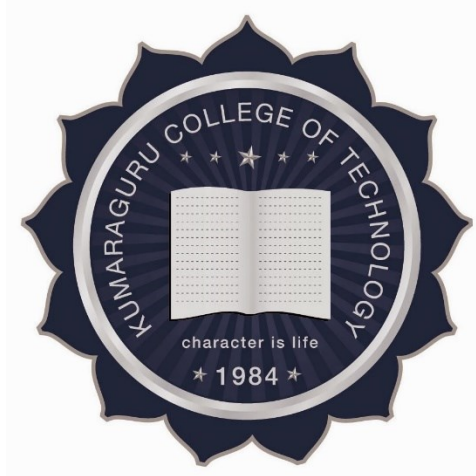


KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE -641 049.



ACADEMIC REGULATIONS 2017

(R-17)

B.E. / B. Tech Programmes

(Amended Version, V2.1)

Applicable April 2019 onwards

Record of Revision/Release





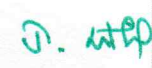

Version No.	Reviewed By (ARC)	Vetted By (SC Chairman)	Approved By (AC Chairman)	Release Date	Summary of Modifications Done
2.0				11/04/2018	Following changes are incorporated from R17-V1: Addition of Winter track, modification of the following clauses : Arrear, attendance, absence from CAT and special provisions
2.1				08/05/2019	Clause 8.1.2, 12.2 , Arrear course registration, 21.3.1 are modified/ removed

TABLE OF CONTENTS

TABLE OF TABLES.....	V
TABLE OF FIGURES.....	V
LIST OF SYMBOLS AND ABBREVIATIONS.....	VII
1. PREAMBLE.....	1
2. SCOPE.....	2
3. PRELIMINARY DEFINITIONS AND NOMENCLATURE.....	2
4. UNDER GRADUATE ENGINEERING / TECHNOLOGY PROGRAMMES OFFERED AT KUMARAGURU COLLEGE OF TECHNOLOGY.....	4
5. ADMISSION.....	5
5.1. FIRST YEAR B.E./ B.TECH AND LATERAL ENTRY.....	5
5.2. RE-ADMISSION.....	5
6. ACADEMIC STRUCTURE.....	5
6.1. SEMESTER STRUCTURE.....	5
6.2. CATEGORIES OF COURSES.....	6
6.3. MEDIUM OF INSTRUCTION.....	7
6.4. CREDIT ASSIGNMENT.....	7
6.5. COURSE NUMBERING SCHEME:.....	8
6.6. EMBEDDED COURSE.....	8
6.7. CREDIT REQUIREMENT FOR PROGRAMMES.....	8
7. COURSE REGISTRATION.....	8
7.1 ONLINE COURSE REGISTRATION PROCESS FOR SOME COURSES OFFERED IN THE ODD AND EVEN SEMESTERS.....	8
7.2 COURSE REGISTRATION PROCESS FOR SUMMER/WINTER TRACK.....	9
7.3 MINIMUM AND MAXIMUM CREDITS FOR COURSE REGISTRATION.....	9
7.4 ADD /DROP PERIOD.....	10
7.5 ARREAR COURSE REGISTRATION.....	10
8. REQUIREMENTS FOR APPEARING FOR CONTINUOUS ASSESSMENT TESTS & END SEMESTER EXAMINATION OF A COURSE.....	11
9. PROVISION FOR WITHDRAWAL FROM EXAMINATION.....	14
10. ASSESSMENT PROCEDURES FOR AWARDING MARKS.....	14
11. MARKS DISTRIBUTION.....	15
11.1. MARKS DISTRIBUTION OF CONTINUOUS ASSESSMENT MARKS (CAM) & END SEMESTER EXAM MARKS (ESM):.....	15
11.2. QUESTION PAPER PATTERN– THEORY AND THEORY COMPONENT OF EMBEDDED COURSES.....	19
11.3. CRITERIA FOR ASSESSMENT FOR LAB COURSES/LAB COMPONENT OF EMBEDDED COURSES –CAM & ESM COMPONENTS.....	20
11.4. EMBEDDED COURSES.....	20
11.4.1. <i>Embedded Course with Project component</i>	20
11.5. CAPSTONE PROJECT WORK.....	21
11.6. MALPRACTICE.....	22
12. REMEDIAL MEASURES FOR ABSENCE FROM A CAT.....	23

12.1.	ABSENCE FROM THE CAT	23
13.	TEMPORARY BREAK OF STUDY FROM A PROGRAMME.....	23
14.	PASSING REQUIREMENTS.....	24
15.	METHODS FOR REDRESSAL OF GRIEVANCES IN EVALUATION	25
15.1.	CHALLENGE OF EVALUATION – FLOW CHART	26
16.	LETTER GRADE	26
16.1.	ABSOLUTE GRADING POLICY	26
16.2.	GRADING FOR MANDATORY COURSES	27
16.3.	GRADE SHEET	27
17.	ELIGIBILITY FOR THE AWARD OF DEGREE	28
18.	CLASSIFICATION OF B.E/ B.TECH DEGREE	28
19.	AWARD OF DEGREE.....	30
20.	DISCIPLINE	30
21.	SPECIAL PROVISIONS	30
21.1.	EXTENDED TRACK	30
21.2.	HUMAN EXCELLENCE/VALUE EDUCATION (HE/VE) COURSES	30
21.2.1.	<i>Assessment Criteria</i>	30
21.2.2.	<i>Passing Criteria</i>	31
21.3.	PROFESSIONAL/TECHNICAL CERTIFICATION COURSES	31
21.4.	GUIDED SELF-STUDY PROFESSIONAL ELECTIVE COURSE.....	32
21.5.	MINOR SPECIALISATION	32
21.6.	INDUSTRIAL / RESEARCH INTERNSHIP	33
21.7.	ONE CREDIT COURSE OFFERED BY EXTERNAL/INTERNAL EXPERT	34
21.7.1	<i>Assessment for One credit courses</i>	34
21.8.	ONLINE COURSES.....	35
22.	VITAL ACTIVITIES (VA).....	35
23.	REVISION OF REGULATIONS AND CURRICULUM	35
24.	APPENDIX.....	37
A1.	COURSE CODE NUMBERING SCHEME.....	39
A2.	CLASS ADVISOR AND MENTOR.....	40
A2.1	CLASS ADVISOR	40
A2.2	MENTOR	40
A3.	VARIOUS COMMITTEES.....	41
A3.1	CLASS COMMITTEE	41
A3.2	COURSE COMMITTEE FOR COMMON COURSES.....	41
A3.3	ACC - ACADEMIC CONSULTATIVE COMMITTEE:	42
A3.4	DCC - DEPARTMENT CONSULTATIVE COMMITTEE	42
A3.5	DEC- DEPARTMENTAL EXAMINATION COMMITTEE	42
A4.	PROCESS TO CONSIDER THE APPLICATION FOR REVOCATION OF DETAINMENT	43

TABLE OF TABLES

TABLE 1 : PRELIMINARY DEFINITIONS AND NOMENCLATURE	2
TABLE 2: LIST OF B.E./B.TECH PROGRAMMES OFFERED	4
TABLE 3 : CREDIT DISTRIBUTION	6
TABLE 4: CREDIT ALLOCATION.....	7
TABLE 5 : ATTENDANCE ELIGIBILITY TO APPEAR FOR CAT & ESE FOR REGULAR SEMESTER AND SUMMER/WINTER TRACKS.....	12
TABLE 6 : ASSESSMENT COMPONENTS	14
TABLE 7 : SCHEME FOR ASSESSMENT	16
TABLE 8 : QUESTION PAPER PATTERNS.....	19
TABLE 9 CAM & ESM BREAK-UP FOR LAB COURSES/COMPONENT OF EMBEDDED COURSES	20
TABLE 10 : EMBEDDED COURSE WITH PROJECT COMPONENT	21
TABLE 11: CAM & ESM BREAK-UP FOR PROJECT WORK	22
TABLE 12: GRIEVANCE REDRESSAL MECHANISM	25
TABLE 13 : ABSOLUTE GRADING – LETTER GRADE AND ITS RANGE	26
TABLE 14 CLASSIFICATION OF THE B. E. / B.TECH. DEGREE	29
TABLE 15 : ASSESSMENT TABLE FOR HUMAN EXCELLENCE/VALUE ADDED COURSES..	31
TABLE 16 : INTERNSHIP CREDIT DETAILS.....	33
TABLE A-1: SCHEDULE FOR ORGANIZING CLASS COMMITTEE MEETING.....	41
TABLE A-2 : COMMON COURSE COMMITTEE.....	41
TABLE A-3 : SCHEDULE FOR ORGANIZING COURSE COMMITTEE MEETINGS	42

TABLE OF FIGURES

FIGURE 1 : SEMESTER STRUCTURE	5
FIGURE 2 : CATEGORIES OF COURSES	6
FIGURE 3 : ARREAR REMEDIAL PROCESS.....	11
FIGURE 4 : CHALLENGE OF EVALUATION.....	26

List of symbols and abbreviations

ACC	Academic Consultative Committee
AY	Academic Year
CAT	Continuous Assessment Test
CAM	Continuous Assessment Marks
CBCS	Choice Based Credit System
CO	Course Outcome
CoE	Controller of Examinations
CGPA	Cumulative Grade Point Average
DCC	Department Consultative Committee
DEC	Departmental Examination Committee
ERP	Enterprise Resource Planning Software
ESE	End Semester Examination
ESM	End Semester Examination Marks
NSO	National Sports Organization
OBE	Outcome Based Education
PO	Programme Outcome
PEO	Programme Educational Objective
SGPA	Semester Grade Point Average

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1. PREAMBLE

The rapid transformation in every sphere of life is augmenting the need to prepare the present fast-paced generation to adapt to the changing knowledge & skill requirement on a life-long basis, in the fields of science, engineering, technology and humanities to influence society positively. The future looks up to multi-disciplinary, competent leaders who are Information and Communication Technology ready and driven by strong ethical values.

Kumaraguru College of Technology (KCT) envisions to nurture knowledge, skills, and attitude and values of the aspiring youth to enable them to become global citizens and towards that process, the institution has evolved a flexible integrated academic curriculum.

KCT introduced Outcome Based Education (OBE) in 2014 and Choice Based Credit System (CBCS) in 2015, which emphasized on honing the skills and knowledge of the graduates.

KCT embarked on an ambitious project in December 2016 to develop a new academic regulation, curricular framework and syllabi of its UG programmes. This effort was undertaken to address the present challenges in the educational system and also to be ahead of the curve with respect to innovative practices. The guiding principles was to be Man Making and Nation Building. Towards the above purposes a think-tank comprising of nine faculty members from various departments were put-together to exclusively work on identifying and addressing the challenges. Project Banyan comprised of the following members: Dr.Senthil Kumar.B - Mechanical, Dr.A.Nirmal Kumar - EEE; Mr.Umesh.M.V - E&I, Dr.Stephen Raphael V - Biotech, Mr.Anush.P - Mechatronics, Dr.Abirami.V - S&H, Dr.Vimal.E.A - IT, Dr.Mary Cherian - MBA, Dr.Santha.A - S&H. The team conducted extensive discussions among members of the faculty, Heads of departments, Unit Heads, Students, Student Leadership Committees, Alumni, and Experts from other Organizations, Industry, and faculty of Foreign Institutions to form the basis of the proposals. Inputs are also taken from surveys that are carried out among stakeholders, along with a critical review of the current curricula administered at leading academic institutions in our country and abroad. Cognizance was also taken to incorporate the Outcome Based Education. The team after extensive deliberations, debate and analysis presented the suggestions, prepared the regulations 2018 (R18) and presented it to a 'R18 review committee' comprising Prof.Vasanthraj.C (Director, KC.IRI, KCT), Dr.Ezhilarasi. M (Prof. and Head, EIE) and Dr.Saraswathy.N (Prof. and Head, BT), followed by the standing committee, Academic council committee, Principal, Controller of examinations (CoE), Centre for Academic Excellence

(CAE), Leadership council, and other committee members. Project banyan took a considered view of the suggestions of the above members and prepared the R17 which aims to provide a progressive and strong educational foundation.

To further enhance and improvise the educational process, this regulation includes pedagogy changes leading to learner centric academic ecosystem and a flexible curricular framework. The departments evolve their curricula based on standard procedures, keeping in view the advances in their disciplines and inputs from stakeholders. The curricular goals of regulations 2017 are to provide a strong academic foundation and integration of courses, offer flexibility to students in the selection of courses and mould them into responsible global-citizens driven by a strong value system. To build on and enhance the changes brought in a revision of the regulation was brought in as Amended regulations 2017 (w.e.f April 2018).

2. SCOPE

These regulations are applicable to all students admitted into various U.G. programmes of the institution from the Academic Year (AY) 2017-18 and onwards.

3. PRELIMINARY DEFINITIONS AND NOMENCLATURE

Table 1 : Preliminary Definitions and Nomenclature

Sl.No.	Name	Definition
1	Programme	Refers to Degree Programme viz., B.E. / B.Tech. Degree Programme
2	Discipline	Refers to Branch or Specialization in B.E. / B.Tech. Degree Programme, viz., Civil Engineering, Bio Technology, etc.
3	Course	Refers to Theory, Practical, embedded, project courses - Mathematics, Physics, Engineering Graphics, etc.
4	Head of the Institution	Refers to the Principal
5	Directorate of Academics (DoA)	Refers to the authority of the Institution responsible for all the academic activities and for the implementation of relevant rules/regulations and audits
6	Controller of Examinations (CoE)	Refers to the authority of the Institution who is responsible for all activities of the End Semester Examinations of the Institution

Sl.No.	Name	Definition
7	Director / Head of the Department	Refers to Director of School or Head of the Department concerned
8	University	Refers to Anna University, Chennai
9	Institution	Refers to Kumaraguru College of Technology, Coimbatore
10	L – T – P – J – C	Refers to L ecture, T utorial, P ractical, P ro J ect and C redits respectively
11	Curriculum	Refers to the various components / courses studied in each programme that provide appropriate outcomes (knowledge, skills and attitude/ behaviour) in the chosen branch of study.
12	Humanities and Social Sciences (HS)	Courses include English, Professional Ethics and Human Values, Communication skills and Environmental Science and Engineering
13	Basic Sciences (BS)	Courses include Mathematics, Physics, Chemistry, Biology, etc.
14	Engineering Sciences (ES)	Courses include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
15	Professional Core (PC)	Courses include the core courses relevant to the chosen specialization / branch; (May be split into Hard [no choice] and Soft [with choice], if required)
16	Professional Elective (PE)	Courses include the elective courses relevant to the chosen specialization/ programme
17	Open Electives(OE)	Open Elective (OE) courses include the courses 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 & Department of management. These courses may be offered by internal /external experts.
18	Project Work(PW)	Refers to the Capstone project done by a student or a group of students during the final year

Sl.No.	Name	Definition
19	eRIDE-Employability Enhancement courses	Refers to Technical Courses, Internship in Industry, and other eRIDE elective courses(RIDE-Research-Innovation-Design-Entrepreneurship)
20	Academic Consultative Committee (ACC)	The committee includes Principal, Director / DoA, CoE, Director / HoD concerned.
21	Department Consultative Committee (DCC)	The committee includes Director / HoD (need basis), senior faculty member(s) of department from various levels, class advisor, Mentor of the students
21	Vital Activities (VA)	NSS / NSO activities

4. UNDER GRADUATE ENGINEERING / TECHNOLOGY PROGRAMMES OFFERED AT KUMARAGURU COLLEGE OF TECHNOLOGY

KCT offers 4 year (8 Semesters) B.E. / B.Tech degree programme affiliated to Anna University, Chennai under Choice Based Credit System (CBCS) for regular students and 3 year (6 semesters) B.E/B.Tech degree programme for lateral-entry students in the following branches of Engineering and Technology as in Table 2

Table 2: List of B.E./B.Tech Programmes offered

B.E. Degree Programmes	B.Tech Degree Programmes
<ul style="list-style-type: none"> •Aeronautical Engineering •Automobile Engineering •Civil Engineering •Computer Science and Engineering •Electronics and Communication Engineering •Electrical and Electronics Engineering •Electronics and Instrumentation Engineering •Information Science and Engineering •Mechanical Engineering •Mechatronics Engineering 	<ul style="list-style-type: none"> •Biotechnology •Fashion Technology •Information Technology •Textile Technology

5. ADMISSION

5.1. First Year B.E./ B.Tech and Lateral Entry

The norms for admission, eligibility criteria such as marks, physical fitness and mode of admission will be as prescribed by the University from time to time.

5.2. Re-admission

Students under the 2013, 2014 and 2015 autonomous regulations, who have discontinued for reasons other than disciplinary action, may be readmitted to 2018 regulation. Department Consultative Committee (DCC) shall study and recommend on the exemption and addition of courses to be registered for, by the student concerned during re-admission. The details shall be forwarded to Academic Consultative Committee (ACC) for approval and the committee's decision shall be final.

6. ACADEMIC STRUCTURE

A student after securing admission shall pursue B.E./B.Tech programme for a minimum period of 4 academic years (8 semesters) and a maximum period of 7 years (14 semesters) starting from the commencement of the first semester.

For a student admitted in lateral-entry mode, the minimum and maximum period of study shall be 3 academic years (6 semesters) and 6 years (12 semesters) respectively starting from the commencement of the third semester.

6.1. Semester Structure

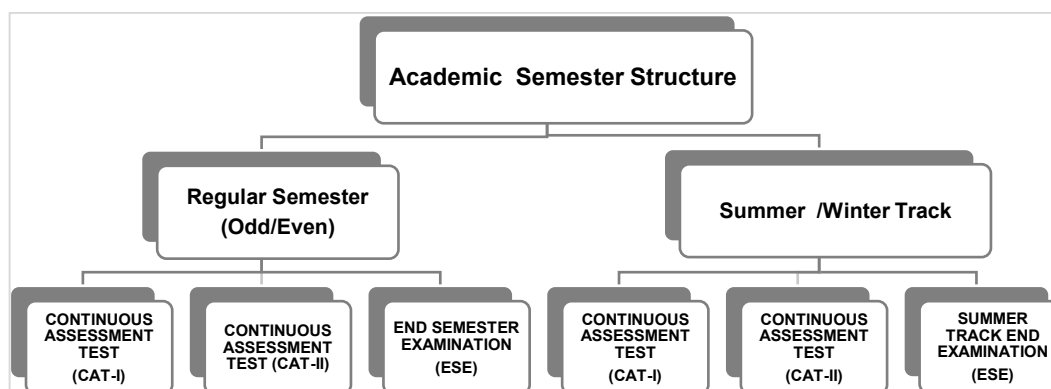


Figure 1 : Semester Structure

The regular semesters (Odd/Even) normally consist of about 90 working days. Also, a Summer / Winter track is conducted between the semesters during vacation period for about 28 working days (Fig.1)

6.2. Categories of Courses

Every B.E. / B. Tech. Programme will have a curriculum consisting of theory, practical, project and embedded courses that shall be included in any of the following categories.

The typical curriculum structure for UG degree programmes are based on AICTE and University norms and is given in Figure 2 :

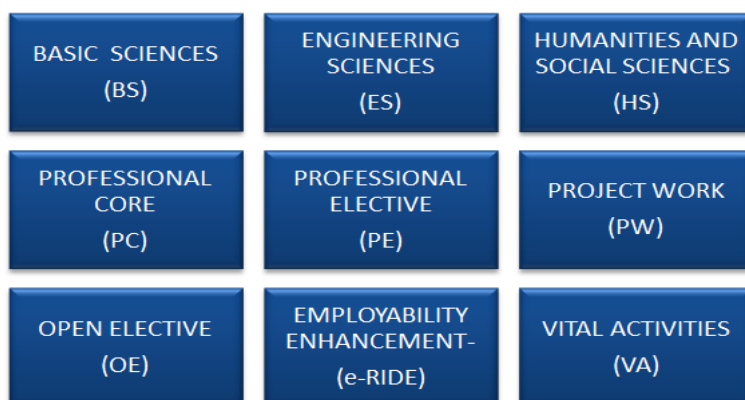


Figure 2 : Categories of Courses

The course outcomes (CO's) are designed to align with the Programme Outcomes (PO's) and Programme Educational Objectives (PEO's) of the respective programmes

The following is the credit distribution based on the suggested AICTE distribution. (Table 3)

Table 3 : Credit Distribution

Category	Credit range	
Humanities and Social Sciences (HS)	10-15%	
Basic Sciences (BS)	15-20%	
Basic Engineering Sciences (ES)	10-15%	
Professional Core (PC) and Cluster Courses	30-40	} 54-60% in total
Professional Electives (PE)	10-15	
Project Work (PW)	7-15	
Employability Enhancement Component (eRide)	} 1-5%	
Open Electives (OE)	2-5%	
Vital Activities	1%	

Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 courses and Laboratory courses not exceeding 4 courses. The students can register for Professional Elective/Open Elective courses in any semester, starting from the third semester, provided the pre-requisite conditions for the respective courses are met.

In addition to the courses listed in the curriculum, the department can include elective courses offered by reputed Industry / Educational Institutions / Experts from time to time, approved by DCC/ACC and ratified by the Academic Council.

- The credits earned through such courses shall be considered equivalent to Professional Elective (PE) credits or Open Elective (OE) credits as decided by the Department Consultative Committee (DCC) on a course to course basis.
- Experts from the Industry / Institution may design such specialized elective courses based on the current technical skill requirements.
- The Department Consultative Committee (DCC) shall review and approve the course offered by the expert from the industry / Institution.

Students completing B certificate in NCC (or) a NSO certificate are eligible to earn three credits, which can be taken in lieu of three open elective credits.

In addition to the courses that carry credits, all students are required to complete mandatory non-credit courses (eg. Environmental sciences, Value education courses offered by Human excellence department, etc). Credits will not be awarded but will be assessed and graded (Sec 16.2, 21.2), and must be completed.

6.3. Medium of Instruction

The medium of instruction for the entire undergraduate programme will be English only (Except for language courses other than English).

6.4. Credit Assignment

Course work is measured in units called credits. Each course is assigned a certain number of credits as shown in **Table 4**.

Table 4: Credit allocation

Contact Period per week	Credits
1 Lecture Period (L= Lectures given during class by the faculty)	1
1 Tutorial Period (T= Tutorial, also class based with more emphasis on problem solving)	1
2 Practical Period (P)/Project Period(J) (Laboratory / Projects/ Capstone Project / etc.) (P= Practical i.e. Lab Classes, J= Project)	1

***Extra Tutorial Periods can be handled by faculty if required**

6.5. Course Numbering Scheme:

Each course is denoted by a unique code consisting of 10 alphanumeric characters. The details of the numbering scheme are in Appendix A1

6.6. Embedded Course

An embedded course is a combination of theory component with the other components (P, J).

- Embedded course is recommended to be conducted for a class strength of less than 40. (For class strength of 72, students may be grouped into two sections comprising of 36 each and handled by two faculty members.)
- The Course In-Charge preferably will be a single faculty for that batch who handles theory, practical and project/laboratory part.

Types of embedded courses

1. Embedded Theory, Lab & Project Course
2. Embedded Theory & Lab Course
3. Embedded Theory & Project Course
4. Embedded Lab & Project Course

6.7. Credit Requirement for Programmes

The total number of credits that a student earns during the period of study is called the total credits. For the successful completion of the B.E./B.Tech. Programme, a regular student must earn 156 – 177 credits (varies with the programme) in a minimum of eight Semesters, while a lateral-entry student must earn 122-133 credits in a minimum of six semesters.

7. COURSE REGISTRATION

Each student, on admission shall be assigned to a mentor (vide Appendix A2.2), who shall advise and counsel the student about the details of the academic programme and the choice of courses, considering the student's academic background and career objectives. Some courses require students to register through a Course Registration Process via the online Enterprise Resource Planning software (ERP).

7.1 Online Course Registration Process for some courses offered in the Odd and Even Semesters

- 7.1.1** The registration process for the courses offered in the online registration mode in the forthcoming semester, will commence preferably 10 working days prior to the last working day of the current semester.

7.1.2 A Department shall offer a course only if a minimum number of students register for that course. This minimum number may vary from course to course and shall be specified by the department from time to time.

7.1.3 After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment Marks (CAM) and appear for the End Semester Examinations (ESE).

7.2 Course Registration Process for Summer/Winter Track

7.2.1 The following students have to register for Theory and Laboratory courses in the summer/winter track if he/she:

- Was not permitted to attend the End Semester Examination (ESE) due to lack of attendance, (vide clauses of section 8) in the regular semester
- Failed in the first reappearance of the course
- Has lack of attendance /failed in the course registered for, during previous summer/winter track

7.2.2 However, the following students may also opt to take courses in the summer/winter track if he/she:

- Has arrears in the regular semester, and opts to re-earn his/her Continuous Assessment Marks (CAM)
- Wishes to take courses (without pre-requisites) offered in the 7th and 8th semester. Such courses can be registered for, after the 4th semester when offered in the Summer/Winter track
- The students can register for a maximum of 5 theory courses (or) a combination of theory and lab courses (maximum lab courses shall be 3) in the summer track
- The students can register for a maximum of 3 theory courses (or) a combination of theory and lab courses (maximum lab courses shall be 2) in the winter track
- For final and pre-final year students, under special circumstances DEC committee will consider requests for registration of additional courses over and above the arrear course registration limits

7.2.3 For all the courses registered by the student in the Summer/Winter track, he (she) should pay the prescribed fee, in addition to the regular semester fee.

7.3 Minimum and Maximum Credits for Course Registration

7.3.1. A student has to earn the total credits specified in the curriculum of the respective programme of study, in order to be eligible to obtain the degree. However, if the student wishes, then he/she is permitted to earn

more than the total number of credits prescribed in the curriculum (for eg. Minor specialization).

- 7.3.2.** The number of credits, most students are expected to register for, in a semester, will be about 20-24 credits, so that they complete the programme within the specified duration of the programme. However, a student can register for a maximum of 30 credits (provided one 3-credit course is registered as a self-study course). The minimum credits a student can register for, in a regular semester shall be 16. Normally a student shall not be permitted to register for credits beyond/below these specified limits.
- 7.3.3.** Students shall register for the project work in the 7th and 8th semester (or) 8th semester only.

7.4 Add /Drop Period

A student can add or drop the courses registered within the first 5 instructional days, from the commencement of a regular semester (not applicable to summer/winter track), subject to the availability of resources and the minimum/ maximum number of credits required to be registered in a semester as specified vide clause 7.3.2. Students cannot avail Add/Drop provision for the courses registered during summer/winter track, in view of its short duration.

7.5 Arrear Course Registration

- 7.5.1.** Once RA grade is obtained in an End Semester Examination, then the student has two options: -
- a) The student has to register for the Summer/Winter track, attend the classes, satisfy the minimum attendance requirements, re-earn his/her CAM and then appear for the ESE
 - (OR)
 - b) The student can retain the earned CAM during the regular semester and appear for the ESE as Arrear examination.
- 7.5.2.** A minimum grand total of 50 and above marks in an arrear exam entitles a fixed minimum 'B' grade
- 7.5.3.** Course re-registration attracts separate payment
- 7.5.4.** Students having standing arrears in up-to 5 courses (or if less than 5, all courses) must register and appear for all those arrear exams or register for Summer/Winter track
- 7.5.5.** The process involved in arrear exams is summarized below in Figure 3:



- ## 8. REQUIREMENTS FOR APPEARING FOR CONTINUOUS ASSESSMENT TESTS & END SEMESTER EXAMINATION OF A COURSE

- Kumaraguru College of Technology

emergency, he/she is permitted to maintain an attendance of 75% (i.e. absent for 25% of instructional hours) in each course. This 25% includes medical, personal, casual, and official on duty leave, leave of absence (On Duty) for organizing events / seminars / workshops / YUGAM / Design competitions / participation in co-curricular / extra-curricular events / NSS & NCC camps, and any other valid reason. **Table 5** Illustrates the mandatory attendance requirement for CAT-I, CAT-II and ESE.

Table 5 : Attendance Eligibility to appear for CAT & ESE for Regular Semester and Summer/Winter tracks

Test/Examination Type	Period of calculation	Minimum percentage of attendance required
Continuous Assessment Test 1 (CAT-1)	First Semester From the date of joining of the course to three working days before the start of CAT – 1	60%
	Second to Eighth Semester: From the date of commencement of the course to one week before the start of CAT – 1	75%
Continuous Assessment Test 2 (CAT-2)	From the date of joining (1 st semester)/date of commencement of the course (2 nd to 8 th sem) to one week before the start of CAT – 2	75% (For students maintaining 80% or more attendance between CAT 1 and CAT 2, but falls short of the 75% cumulative requirement, the requirement may be relaxed if recommended by the ACC)
End Semester Examination (ESE)	From the date of joining (1 st semester)/date of commencement of the course (2 nd to 8 th sem) to the last day of instruction.	75%
Any exam component other than End Semester Examination (ESE) under Project Based courses / Embedded Courses	From the date of commencement of the course to the last day of instruction.	75%

- 8.1.1.** For an embedded course, a student is permitted to maintain his/her attendance as mentioned in **Table 5** (i.e. absent for 25% of instructional hours) in each component of that course, viz. For an embedded course comprising of theory, lab., or/and project component, the student has to maintain an attendance of 75% in each of the components.
- 8.1.2.** Students having a CGPA of 8.75 and above and with no standing arrears will be exempted from the minimum attendance requirements (from 3rd sem. onwards)
- 8.1.3.** During the Summer/Winter track, this relaxation from the minimum attendance requirement will not be extended to the students with CGPA of 8.75.
- 8.2.** A student shall normally be permitted to appear for End semester examination of the course if he / she has satisfied the attendance requirements (vide Clause 8.1). He /she is eligible to register for ESE in that semester by paying the prescribed fee.
- 8.3.** Students who do not satisfy clauses 8.1 have to re-register for and repeat the course in the summer/winter track when offered next (vide clause 7.1).
- 8.4.** If a student has failed (obtained RA-SA grade) due to lack of attendance in course C1, he/she cannot register for a course C2, (which has C1 as a pre-requisite) in the next regular semester. Therefore, he/she has to register for C1 in the Summer/Winter track/ next opportunity.
- 8.5.** If a student has lack of attendance in 4 or more courses which are 3 or 4 credit courses (1 credit industry courses not taken into account) offered in a particular semester, he/she will be detained in that semester and hence cannot proceed to the next semester. He/she shall seek re-admission as per the norms of the affiliating university/dote (directorate of technical education). However, in cases of absence due to genuine reasons, he/she may apply to the CoE, for revocation of detainment. The committee composition and the process are as in Appendix A4. The committee's decision is final.
- 8.6.** If the course, in which the student has lack of attendance, is a professional elective or an open elective, the student may register for the same or any other professional elective or open elective course respectively, in the subsequent semesters provided he/she submits an application well in advance via his mentor to the COE/ERP, with approval of the DCC.
- 8.7.** The days of suspension for a student on disciplinary grounds will be considered as days of absence for calculating the percentage of attendance for each individual course.

9. PROVISION FOR WITHDRAWAL FROM EXAMINATION

- 9.1.** A student may, for valid reasons (medically unfit / unexpected family situations), be granted permission to withdraw (after registering for the examinations) from appearing for any course or courses in the End Semester Examination of a particular semester. The student may withdraw by following the due process of the CoE's office before the commencement of examination. This facility can be availed **only once** during the entire duration of the degree programme.
- 9.2.** Withdrawal from ESE will be valid only if the student is, otherwise, eligible to write the examination and the application for withdrawal is made to the CoE, prior to the examination in the course or courses concerned. The application for withdrawal should be recommended by the Head of the Department concerned and approved by the Head of the Institution.

10. ASSESSMENT PROCEDURES FOR AWARDING MARKS

The total marks for each course generally (Theory, Practical, Embedded Course, Project Work) will be 100, comprising of two components namely Continuous Assessment Marks (CAM) and End Semester Examination (ESE). However, there could be some open elective courses, human excellence courses, one credit industry courses, add-on courses and Mandatory courses that have only continuous assessment for 100 marks without an End-Semester Examination. The Department Consultative Committee (DCC) has to approve such courses every semester. The scheme of assessment may also be decided by the faculty handling the course concerned with the approval from DCC and shall be made available to the students during the online course registration. Each course shall be evaluated for a maximum of 100 marks as illustrated in Table 6

Table 6 : Assessment components

S.No	Category of course	Continuous Assessment Marks (CAM)	End Semester Examination Marks(ESM)
1	Theory Courses and Embedded Courses with theory	50 Marks	50 Marks
2	Laboratory Courses and Embedded Courses with lab		
3	Project Work and Embedded Courses with Project		
4	Employability Enhancement Courses (Including One credit industry courses,	100 Marks	-

S.No	Category of course	Continuous Assessment Marks (CAM)	End Semester Examination Marks(ESM)
	Human Excellence Courses, some open electives, etc.		

Students may take national/international reputed professional certification courses after due approval from DCC. After completion of the course and submission of relevant verified documents the credits and grades shall be mapped by the DCC.

11. MARKS DISTRIBUTION

11.1. Marks Distribution of Continuous Assessment Marks (CAM) & End Semester Exam Marks (ESM):

Table 7(a and b) presents the details of various types of courses and their assessment patterns. The mark distribution is dependent on the credit weightages of various components of the courses such as Theory, Lab, and Project. For English courses, the assessment components will be defined by the English department from time to time, with the approval of the DCC. For the continuous assessment tests, course faculty shall decide on the mark distribution and question paper pattern. The question paper must follow Revised Bloom's Taxonomy action verbs and indicate expected knowledge level and course outcome (CO). Other modes of assessment mentioned in **Table 7**(a and b) are Group Presentation, Project report, Poster preparation, Open book tests, Cooperative learning report, Journal paper review, Prototype or Product Demonstration, Activities, Field trip etc.

Question paper pattern for CAT I and II will be based on the patterns shown in **Table 8(a)** and shall be informed to students by the course handling faculty.

Table 7 : Scheme for Assessment

a) Scheme of Assessment for non-embedded courses

S. No	Course Type	Mark breakup*														
		Continuous Assessment components										End semester components				
		CAT1	CAT2	Other Assessments#	Average of Pre/post -test/viva for each	Average of marks for Experiment report for each	Model exam/Report	Review1	Review2	Review3	Project report	Written exam	Practical exam	Practical exam Viva-voce	Capstone Project Report and viva-voce	Capstone Project Outcome
1	Theory	15 (50)	15 (50)	20 (50)	-	-	-	-	-	-	-	50 (100)	-	-	-	-
2	Lab	0	0	0	10 (100)	15 (100)	25 (100)	-	-	-	-	45 (90)		5 (10)	-	-
3	Project (capstone)	-	-	-	-	-	-	10 (50)	20 (50)	20 (50)	-	-	-	-	30 (60)	20 (40)

* mark weightage (outside brackets) and maximum marks for the exam conducted (in brackets). The maximum marks could vary depending on the credit component for lecture/lab/project

Open book test; Cooperative learning report, Assignment; Journal paper review, Group Presentation, Project report, Poster preparation, Prototype or Product Demonstration etc (as applicable). Five assessments for 10 marks each may be conducted periodically, spread out through the semester and reflected in the course plan.

b) Scheme of Assessment for embedded courses

Course Type		Mark breakup*											
		Continuous Assessment components									End semester components		
		CAT1	CAT2	Other Assessment s#	Average of Pre/posttest /viva for each	Average of marks for Experiment report for	Model exam/Report	Review1	Review2	Project report	Written exam	Practical exam	Practical exam Viva-voce
Theory + Lab	Theory	15 (50)	15 (50)	20 (50)	-	-	-	-	-	-	50 (100)	-	-
	Lab	-	-	-	10 (100)	15 (100)	25 (100)	-	-	-	45 (90)		5 (10)
Theory + Project	Theory	15 (50)	15 (50)	20 (50)	-	-	-	-	-	-	50 (100)	-	-
	Project	-	-	-	-	-	-	25 (50)	50 (100)	25 (50)	-	-	-
Theory + Lab + Project	Theory	15 (50)	15 (50)	20 (50)	-	-	-	-	-	-	50 (100)	-	-
	Lab	-	-	-	10 (100)	15 (100)	25 (100)	-	-	-	45 (90)		5 (10)
	Project	-	-	-	-	-	-	25 (50)	50 (100)	25 (50)	-	-	-
Lab + Project	Lab	-	-	-	10 (100)	15 (100)	25 (100)	-	-	-	45 (90)		5 (10)
	Project	-	-	-	-	-	-	25 (50)	50 (100)	25 (50)	-	-	-
Component weightage ratio for final mark calculation	The final mark of a student for an embedded course will be the weighted average of the marks obtained in the various components, with weights proportional to the credits of the corresponding components. For eg. for an embedded theory and lab course, with the credit structure 2-0-2-0-3, a student who has got 'a/100' marks in theory and 'b/100' marks in practical's will get final mark $(2a+b)/3$ (since theory contributes to 2 credits and lab contributes to 1 credit)												

* mark weightage is indicated outside brackets and maximum marks for the exam conducted is indicated within brackets. The maximum marks could vary depending on the credit component for lecture/lab/project. # Open book test; Cooperative learning report, Assignment; Journal paper review, Group Presentation, Project report, Poster preparation, Prototype or Product Demonstration etc (as applicable). Five assessments for 10 marks each may be conducted periodically, spread out through the semester and reflected in the course plan.

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11.2. Question Paper Pattern– Theory and Theory component of embedded courses

Table 8 : Question Paper patterns

a) Continuous Assessment Tests (CAT I and CAT –II)

Question paper pattern	1 Marks	2 Marks	5 Marks	10 Marks	Total Marks
A		5		4 (out of 5 questions)	50 Marks
B	5		3	3 (out of 4 questions)	
C		5	2	3 (out of 4 questions)	
D		10		3 (out of 4 questions)	
E	10	5		3 (out of 4 questions)	
F	10	10		2 (out of 3 questions)	
G	Any other Pattern with prior approval from DEC				

b) End Semester Examinations

Question paper Pattern	1 marks	2 marks	4 marks	10 marks	12 marks	14 marks	16 marks	Total marks
A		10					5 out of 6	100
B	10		10 out of 12	5 out of 6				100
C		10	5 out of 6		5 out of 6			100
D [#]		50 (MCQ with – ve marks) *						100
E	10	10				5 out of 6		100

[#] For courses from 4th semester onwards (To be conducted only in online mode)-Viz: Comprehensive exams

*Negative marks for every wrong answer: minus 0.5 marks will be deducted with total minimum marks as 0.

Normally forty percent of the questions in the End Semester Examinations will address “**remember, understand and apply**” (Lower Order Thinking Skills-**LOTS**) levels of the Revised Blooms Taxonomy and the remaining sixty percent of the questions will address the “**analyse, evaluate and create**” (Higher Order Thinking Skills-**HOTS**) levels of The Revised Blooms Taxonomy. The end semester question papers shall also uniformly cover all the course outcomes. Table 8 presents different types of question paper patterns for the assessment of theory and theory component of embedded courses.

11.3. Criteria for Assessment for Lab Courses/lab component of embedded courses –CAM & ESM components

Every exercise / experiment in all practical courses shall be evaluated on a continuous basis. The criteria for Continuous Assessment (for each cycle of exercise/experiment) are given in **Table 9**

Table 9 CAM & ESM break-up for LAB courses/Component of Embedded courses

Sl. No.	Description	Weightage
1	Continuous Assessment Marks	
a	Average of Pre/Post - experiment Test/Viva for each experiment	10
b	Average of Experimental Report / Workbook for each experiment	15
c	Model examination	25
	Total CAM	50
2	End Semester Exam Marks	
a	Lab examination and Viva voce	50
	Total ESM	50
	Total Marks	100

11.4. Embedded courses

Every component of an embedded course will be assessed individually for 100 marks (vide Clause14.2). **Table 7(b)** enlists the weightages as per credit breakup of the course.

11.4.1. Embedded Course with Project component

The Project component of an embedded course will be evaluated on a continuous basis with two internal reviews and a report.

Table 10 : Embedded course with Project component

Sl. No.	Description	Weightage
a	Review 1	25
b	Review 2	50
c	Project Report	25
	Total	100

11.5. Capstone Project Work

For final year capstone Project Work, out of 100 marks, the maximum marks for Continuous Assessment is 50 and that for the End Semester Examination (project report evaluation and viva-voce examination) is 50 marks. Project work may be assigned to a single student or to a group of students not exceeding 3 per group, under the supervision of faculty guide(s).

The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three faculty members in the review committee. There shall be three reviews (as per **Table 11**) in total, during the semester by a review committee. The student shall make presentation on the progress made before the committee.

Interim project report shall be submitted before the project reviews with the approval of the guide. The Project Report, prepared according to the approved guidelines and duly signed by the guide and the Head of the Department, shall be submitted to the department as per the timeline announced by the department. The End Semester Examination for project work shall consist of evaluation of the final project report by an external examiner, followed by a viva-voce examination conducted separately for each student, by a committee consisting of the external examiner, and an internal examiner. The Controller of Examinations (CoE) shall appoint Internal and External Examiners for the End Semester Examination of the Project Work.

The Continuous Assessment Marks (CAM) and End Semester Examinations marks (ESM) for Project Work and the Viva-Voce Examination will be distributed as indicated in **Table 11**

Table 11: CAM & ESM break-up for Project work

Sl. No.	Description			Weightage
1.	Continuous Assessment Marks			
a	Review 1	Review committee#	5	10
		Guide	5	
b	Review 2	Review committee	10	20
		Guide	10	
c	Review 3	Review committee	10	20
		Guide	10	
	Total CAM			50
2.	End Semester Marks			
a	Evaluation of final report and Viva-voce	Internal Examiner	15	30
		External Examiner	15	
b	Outcome*	Publication of papers /prototypes /patents etc		20
	Total ESM			50
	Total Marks			100

*Outcome, in terms of paper publication, patents, product development and industry projects shall be awarded by both internal and external examiners, based on the document proofs submitted by the student concerned

Review committee consists of internal faculty members nominated by the Head of the Department. The guide of the student being examined shall not be part of the committee.

- If a student fails to submit project report / does not appear for the ESE /fails in the End Semester Examination (ESE), he/she is deemed to have failed in the project work and shall have to re-register for the same when offered next.

11.6. MALPRACTICE

- Students taking exams shall be prohibited from entering into the Examination Halls / Laboratories with any book or portion of book, manuscript, or any unauthorized written/ printed/ electronic content, communicating with or copying from each other or communicating with anyone outside the Examination Hall / Laboratories. Electronic gadgets, Programmable calculator and mobile phone shall not be permitted inside the Examination hall / Laboratories. However, any required code-books and data sheets / books as specified in the question paper will be supplied

inside the Examination hall / laboratories by the office of the Controller of Examinations. The students are warned that any form of malpractice will be dealt with severely. The punishment may include debarring/cancelling the particular examinations registered for by the student in that semester, and/or award of Zero marks to all registered courses of that Semester. Severe violations would attract stricter punishments. Disciplinary action will be taken against the students by the college authorities after conducting enquiry.

12. REMEDIAL MEASURES FOR ABSENCE FROM A CAT

12.1. Absence from the CAT

No Retest will be conducted. A student who has not appeared for a CAT (theory courses/component of embedded courses) shall be permitted to be eligible for re-scaling only under the following conditions subject to DCC and ACC approval. The student shall apply to the DCC and the ACC will approve the application for eligibility rescaling only for the following reasons:

- a. Absence due to prolonged illness of more than 7 working days or due to hospitalization (in-patient treatment)
- b. Absence due to death of immediate family members
- c. Absence due to participation in NCC/NSS/NSO camps only
- d. Absence due to participation and representation of college in Government conducted sports events, National level design competitions and off-campus placements with prior approval

For genuine cases, recommended by DCC, Rescaling of ESM for the missed CAT will be done as follows:

$$\text{Missed CAT mark} = \text{ESM} \times \text{CAT Weightage}$$

- Rescaling marks is subject to a maximum of 20 % of ESM
- Rescaling can be for one CAT only

13. TEMPORARY BREAK OF STUDY FROM A PROGRAMME

- 13.1. Break of study is normally not permitted. However, if a student intends to temporarily discontinue the programme in the middle of a semester / year for valid reasons (such as Internships, accident or hospitalization due to prolonged ill health) and wishes to re-join the programme in the next academic year, he / she shall apply in advance to the Principal through the

Head of the Department, stating the reasons. The application shall be submitted not later than the last date for registering for the semester examinations. Break of study is permitted **only once** during the entire period of the degree programme.

- 13.2.** The student permitted to re-join the programme after the break shall be governed by the rules and regulations in force, at the time of re-joining.
- 13.3.** The duration specified for passing all the courses for the purpose of classification of degree (vide Clause 18) shall be increased by the period of such break of study permitted (vide Clause 12.1).
- 13.4.** If a student is detained for want of requisite attendance, academic progress and good conduct, the period spent in that semester shall not be considered as permitted Break of Study and Clause 13.3 is not applicable for such cases.

14. PASSING REQUIREMENTS

- 14.1.** A student is declared to have successfully passed a theory / practical / project-based course if he/she has secured:
- A minimum of 50% marks in the end semester examinations.
 - A minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).
- 14.2.** A student is declared to have successfully passed an embedded course if he/she has secured
- A minimum of 50% marks in the theory end semester examination.
 - A minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM) of the theory component
 - A minimum of 50% marks in the end semester practical examinations for laboratory component.
 - A minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM) of the practical component
 - A minimum of 50% marks in the project component
- 14.3.** For a student who does not meet the minimum passing requirements, the term “RA” against the course will be indicated in his/her grade sheet. He/she shall reappear in the subsequent examinations for the course as arrear or re-register for the course when offered in the summer/winter track. (Vide clause 7.5.1)

- 14.4.** For a student who is absent for end-semester theory / practical / project viva- voce, the term “AB” will be indicated against the corresponding course. He/she shall reappear for the end semester examination of that course as arrear in the subsequent semester or when offered in summer/winter track. (Vide clause 7.5.1)
- 14.5.** The letter grade “W” will be indicated for the courses for which the student has been granted authorized withdrawal (refer Clause 8.1.3).

15. METHODS FOR REDRESSAL OF GRIEVANCES IN EVALUATION

Students who are not satisfied with the grades awarded in the End Semester Examination of Theory and Embedded Courses (with theory component) for regular and arrear exams can seek redressal as illustrated in **Table 12**

Table 12: Grievance Redressal Mechanism

Sl.No.	Redressal Sought	Methodology	
		Regular exam	Arrear exam
1	Re-totalling	<ul style="list-style-type: none"> Apply for photo copy of answer book Then apply for re-totalling 	<ul style="list-style-type: none"> Apply for photo copy of answer book Then apply for re-totalling.
2	Revaluation	<ul style="list-style-type: none"> Apply for photo copy of answerbook Then apply for revaluation after course expert recommendation 	Not permitted
3	Challenge of Evaluation (Figure 4)	<ul style="list-style-type: none"> Apply for photo copy of answer book Then apply for revaluation after course expert recommendation Next apply for challenge of evaluation 	<ul style="list-style-type: none"> Apply for photo copy of answer book Then apply for challenge of evaluation after course expert recommendation

The process for challenge of evaluation is in Figure 4

Note: All applications to be made to CoE along with the payment of the prescribed fee.

15.1. Challenge of Evaluation – Flow Chart

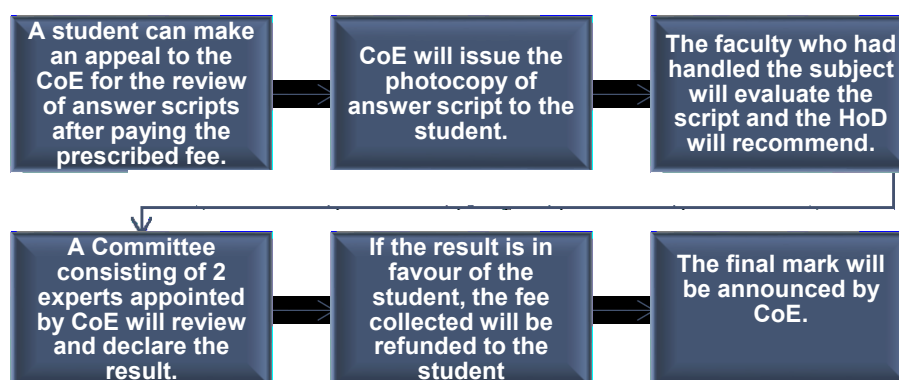


Figure 4 : Challenge of Evaluation

16. LETTER GRADE

Absolute grading system is adopted in converting marks to grades.

16.1. ABSOLUTE GRADING POLICY

All assessments of a course will be evaluated on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range given in Table 13, based on the percentage of marks obtained by the candidate in each subject:

Table 13 : Absolute Grading – Letter Grade and its range

Sl. No.	Range of percentage	Letter Grade	Grade Points
1.	91 to 100	O (Outstanding)	10
2.	81 to 90	A+ (Excellent)	9
3.	71 to 80	A (Very Good)	8
4.	61 to 70	B+ (Good)	7
5.	50 to 60	B (Average)	6
6.	<50	RA (Reappearance)	0
7.	Shortage of Attendance	RA-SA(Re-appearance due to shortage of attendance)	0
8.	Absent	RA-AB (Reappearance due to absence)	0
9.	Withdrawal from	W	0
10	Pass in mandatory-non- credit course	P	0
11	Fail in mandatory-non- credit course	F	0

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”. ‘RA’ indicates that Reappearance is mandatory for that course concerned. ‘SA’ denotes shortage of attendance (as per Clause 9) and hence prevented from writing the End Semester Examination.

16.2. GRADING FOR MANDATORY COURSES

Mandatory Courses are courses that are required to be completed to fulfil the degree requirements (eg. Human excellence, Environmental science, etc). They are normally non – credit based. These courses will not be taken in to consideration for the SGPA / CGPA calculations. Each of these courses are assessed continuously and internally for a total mark of 100. The pass mark is 50%. Students who fail to pass this course, are required to repeat the course, when offered next.

- 16.2.1.** For Mandatory non-credit courses the student must satisfy the minimum attendance requirement & passing criteria as specified for the course. These courses do not carry credits but needs to be completed to fulfil the degree requirements.
- 16.2.2.** For the Mandatory non-credit courses student completing the course will be awarded Pass grade (P) and those who fail to satisfy the attendance requirement or fail to satisfy the minimum passing requirement of 50% marks, will be awarded Fail (F) grade and the student must re-register for the course when it is offered next.

16.3. GRADE SHEET

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

- The College Name and Affiliating University.
- The list of courses registered for during the semester and the grades scored.
- The Semester Grade Point Average (SGPA) for the semester.
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

On completion of a semester, each student is assigned a Semester Grade Point Average which is computed as below for all courses registered for, by the student during that semester.

$$\text{Semester Grade Point Average} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

Where C_i is the credit for a course in that semester and GP_i is the Grade Point earned by the student for that course. The **SGPA** is rounded off to two decimals.

The overall performance of a student at any stage of the Degree programme is evaluated by the

Cumulative Grade Point Average (CGPA) up to that point of time.

$$\text{Cumulative Grade Point Average} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where C_i is the credit for each course in each of the completed semesters at that stage and GP_i is the grade point earned by the student for that course. The **CGPA** is rounded off to two decimals.

17. ELIGIBILITY FOR THE AWARD OF DEGREE

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

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- Successfully completed the course requirements and has passed all the prescribed examinations in all the eight semesters (six semesters for lateral-entry) within a maximum period of 7 years (6 years for lateral-entry) reckoned from the commencement of the first semester to which the candidate was admitted.
- Successfully passed any additional courses prescribed by the Department concerned whenever readmitted under regulations 2017 (R17) (vide Clause 5.2)
- No disciplinary action pending against him/her.

18. CLASSIFICATION OF B.E/ B.TECH DEGREE

The degree awarded to eligible students will be classified as given in

Table 14 Classification of the B. E. / B.Tech. Degree

Table 14 Classification of the B. E. / B.Tech. Degree

Sl.No.	Class Awarded	Criteria
1	First class with distinction	<p>A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:</p> <ul style="list-style-type: none"> a) Should have passed the examination in all the courses of all the eight semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within five years (Four years in the case of Lateral Entry). b) Withdrawal from examination (vide Clause 9) will not be considered as an appearance. c) Should have secured a CGPA of not less than 8.50 d) One-year authorized break of study (if availed of) is included in the five years (four years in the case of lateral entry) for award of First class with Distinction. e) Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.*
2	First class	<p>A student who satisfies the following conditions shall be declared to have passed the examination in First class:</p> <ul style="list-style-type: none"> a) Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of Lateral Entry) within Six years (Five years in the case of Lateral Entry). b) One-year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of six years (five years in the case of lateral entry) for award of First class c) Should have secured a CGPA of not less than 7.00
3	Second class	<p>a) All other students (not covered in clauses at S.No.1&2 under Clause18) who qualify for the award of the degree (vide Clause 19) shall be declared to have passed the examination in Second Class.</p>

Note: A student who is absent for the end semester examination in a course / project work Viva Voce after having registered for the same will be considered to have appeared for that examination (except approved withdrawal from end semester examinations as per Clause 9) for classification purpose..

19. AWARD OF DEGREE

The Academic Council of the institution will approve the award of Degree to all eligible students. The degree will be issued by Anna University, Chennai and the consolidated Grade Sheet will be issued by the institution. The consolidated grade sheet will specify any specializations and distinctions that the student has earned during the course of the study.

20. DISCIPLINE

Every student is required to maintain discipline and decorum both inside and outside the institution campus. They shall follow all the rules and regulations and should not indulge in any activity which can tarnish the reputation of the University or Institution. The Principal shall refer any act of indiscipline by students to the Discipline and Welfare Committee and other appropriate committees.

21. SPECIAL PROVISIONS

21.1. Extended Track

From the second semester onwards, a student is allowed to register for the minimum permissible number of credits (vide clause 7.3) in each semester and complete the programme within the maximum duration of 7 years (Regular) and 6 years (Lateral Entry)

A student who wishes to opt for extended track shall submit a request to get approval from mentor, Class advisor and HoD concerned and sign an undertaking.

The approval shall be granted on case to case basis after discussion with the parents of the student concerned. Necessary fees for the extra semester/study period will apply.

21.2. Human Excellence/Value Education (HE/VE) Courses

Human Excellence department offers Value Education Courses. Each of these courses is assessed continuously for a total mark of 100. The course will be conducted in workshop mode for 2 to 3 days in a semester for each class. These courses cover: Personal, Interpersonal, Family, Professional, Social, National and Global values and ethics.

21.2.1. Assessment Criteria

The assessment criteria for awarding marks for Human excellence courses are given in Table 15

Table 15 : Assessment table for Human Excellence/Value Added Courses

Sl. No.	Methodology	Marks
1	Group Activity - (Role Play, Skit, Mime, Quiz, GD, etc...) Performance based	20
2	Individual performance: Field visit report 10 On the spot assignments 10 Other observed activities 10	30
3	Assessment on Value work sheet:	10
4	Test - Objective type questions (End of workshop)	10
5	Mini project on values learned / observed.	20
6	Goodwill Recognition - assessment based on the benevolent act declared by the student	10
	Total	100

21.2.2. Passing Criteria

A student has to earn a minimum of 50 % in assessments conducted and fulfill attendance requirements to be declared as pass in each of the courses. If a student does not attain the attendance requirement in Human Excellence/Value Education Courses, the student should re-register for the course when it is offered next.

If a student fails in a VE Course, the CAM will get nullified. The student has to take up the assessments based on which CAM will be re earned. The schedule for such assessments will be announced by the Controller of Examinations as applicable for other theory courses.

21.3. Professional/Technical Certification Courses

Department shall list DCC- approved, nationally or internationally recognized professional certification courses with prometric testing viz., like SWAYAM/NPTEL courses (online mode/ offline or in-campus for a minimum of 6 weeks' duration or 45

hours). Students who wish to obtain certification from the enlisted courses, may do so subject to a maximum of three credits.

- After the student successfully completes a Professional /Technical certification course, the DCC shall map it to a Professional elective course and transfer the credits appropriately, if the student applies for credit mapping.
- In case of credits earned through online mode from a University/Institution approved by the respective Department Consultative Committee (DCC), the credits may be transferred after due approval procedures from Departmental Consultative Committee.
- Students may be permitted to credit only one professional certification course.

21.4. Guided Self-study Professional Elective course

- If a student, after his/her second year of study, has no history of arrears and his/her CGPA is greater than 8.0, then he/she is eligible to register for one professional elective course of his/her programme as a guided self-study course with the approval of DCC. This shall be allowed only once during the entire period of study.
- One faculty member approved by the DCC shall be responsible for the periodic monitoring and evaluation of the student(s) who has/have registered for the guided self-study of the Professional Elective course. Though the student need not attend the classes, he/she shall appear for continuous assessment tests, submit assignments and appear for End Semester Examination (ESE).

21.5. MINOR SPECIALISATION

Minor Specialization Modules can be offered individually or jointly by Departments/Centers/Schools including those who do not run undergraduate programmes. Students can opt for specializations from other / interdisciplinary programmes and earn minor specialization in addition to their major programme of study.

- A minor specialization is a set of four or five courses for a total of 15 credits, offered by a Department/ School and registered for, by students of other departments. Two courses (6 credits) will be offered by the departments. The student must take additional 2 courses (upto six credits) by registering in a guided self-study mode or DCC approved

MOOC mode. The other three credits shall be earned through an internally assessed project work or project-embedded course that he/she shall complete during seventh or eighth semesters.

The minor specialization modules along with the sequence (if any) and semester offerings will be listed by the departments / centres / schools and could be taken by the students starting from their second year programme onwards. Upon completion of all courses in a specialization module, it will be indicated as a minor specialization in the consolidated mark statement of the institution. CGPA/SGPA of these courses will be calculated and listed separately in the grade sheet. The credits earned for the minor specialization courses will be over and above the minimum specified for graduation for the registered programme of the student.

21.6. Industrial / Research Internship

The students may undergo training or internship during summer / winter vacation at Industry/ Research organization / University (after due approval from the Mentor, Class advisor and DCC)

In this case, the internship/training should be undergone continuously (unbroken) in one organization. Normally no extension of time period is allowed. However, DCC may consider exception on a case to case basis.

21.6.1. Duration and credit distribution of Industrial /Research Internship

The student is allowed to undergo internship in reputed industries/organizations, after due process, and credits are awarded as per AICTE's Internship policy i.e 45 hours of internship work merits 1 credit. A student is permitted to gain credits not more or less than that specified for capstone project or Phase 1 project for to be considered for mapping purposes. These credits may be considered in lieu of a suitable professional/open elective.

Table 16 : Internship Credit details

Sl. No.	DURATION OF TRAINING/INTERNSHIP	CREDITS
1	2 Weeks	1
2	3 - 4 Weeks	2
3	5 - 6 Weeks	3

Students can travel to International Universities with the approval of KCT International office, CoE, and DCC for taking Semester abroad (courses/ Project/ Research) courses; Summer schools; Short-term specialized courses / internships (2-6 weeks) or other specialized courses. Up to three Credits can be earned through International Exchange Programmes with proper prior approvals from KCT. The credits can be in lieu of a professional or open elective. University Level Courses (ULC) equivalent to the courses in KCT are permitted for credit transfer. ULC should match the courses in specific programmes of KCT satisfying AICTE/ AU norms.

21.6.2 Assessment for Industrial /Research Internship

- The Industrial / Research Internship shall carry 100 marks and shall be evaluated through continuous assessment only.
- At the end of Industrial / Practical training / internship, the student shall submit a brief report on the training undergone and a certificate from the organization concerned.
- The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three-member Departmental Committee constituted by the Head of the Department.
- Duly attested copies of Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Head of the Department for awarding Grades.
- Table 16 illustrates the credit allocation for Internship.

21.7. One credit course offered by External/Internal Expert

Students can register for one credit courses for a minimum of 15 periods (lecture mode) or 30 hours (practical mode) duration during any semester when it is offered. Experts from the industry/Institution (KCT) may design such specialized one-credit courses based on the current technical skill requirements. The Department Consultative Committee (DCC) shall review and approve the syllabus, course plan, and pedagogy and assessment pattern for the course. One credit courses can also be offered by internal experts i.e faculty members from other departments (not belonging to the specific discipline of the programme) also can offer such courses to the students with the approval of DCC. All One credit courses shall be value-added courses beyond the minimum credit requirements specified in the curriculum.

21.7.1 Assessment for One credit courses

- A one - credit course shall carry 100 marks and shall be evaluated through continuous assessment only. The QP pattern and scheme will be decided by the course faculty and will be approved by the DCC
- The Head of the Department may identify a faculty member as the coordinator for the course. A committee consisting of the Head of the Department, staff

handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process.

- The faculty coordinator shall coordinate with the external expert for conducting one Continuous Assessment Test (CAT-I).
- The grades shall be assigned to the students by the above committee based on their performance and included in the calculation of CGPA.

21.8. Online Courses

Students may be permitted to register in reputed online course platforms (SWAYAM/NPTEL etc.) for skill development, humanities, management, Design/ Research methodology/ entrepreneurship and other non-technical courses (which are provided with certificate after evaluation of the performance) with prior approval from Mentor, DCC of the department concerned.

All the online courses (minimum of 30 hours duration) carry a weightage of 1 credit each. These credits may be considered in lieu of a suitable professional/open elective. Student shall earn a maximum of 3 credits for the online courses in the entire period of study.

21.8.1 Assessment for Online courses

On successful completion of the course, he/she has to submit the digitally signed/ verified certificate to the Head of the department. The assessment pattern will be decided and approved by the DCC. Based on the recommendation by the DCC, the student will be awarded grades which will be included in the calculation of CGPA.

22. VITAL ACTIVITIES (VA)

The students shall also register for any of the Vital, non-CGPA, non-credit activities starting from the 1st semester but not later than the 3rd semester (Except for Lateral Students). The Vital activities include NCC or NSO or Student Club activities.

23. REVISION OF REGULATIONS AND CURRICULUM

The institution may from time to time revise, amend or change the Regulations, scheme of Examinations and syllabi, if found necessary. Academic Council assisted by Board of Studies and Standing Committee will make such revisions / changes.

Note: Any ambiguity in interpretation of this regulation is to be put up to the Standing Committee, whose decision will be final.

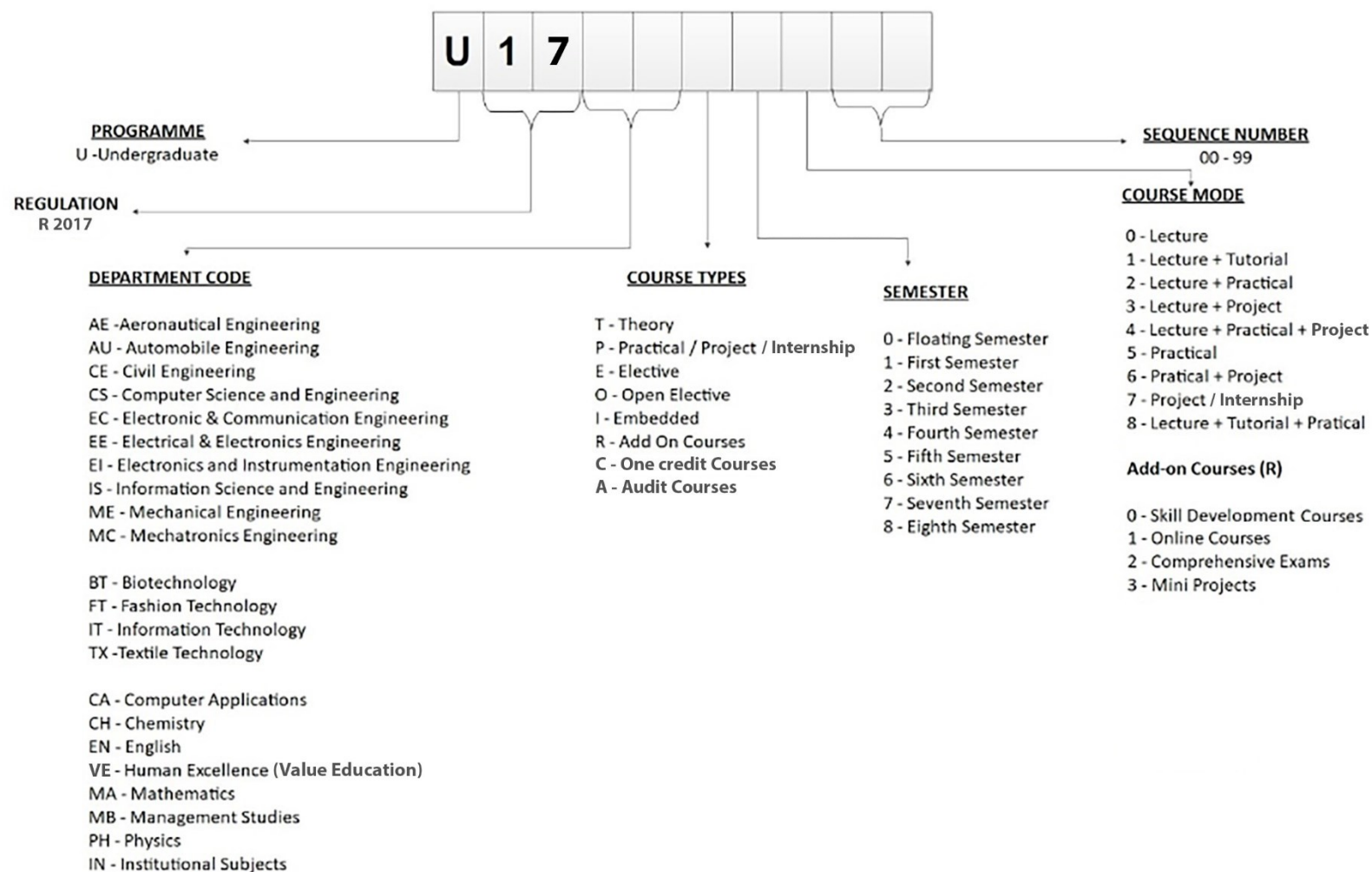
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24. APPENDIX

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A1. COURSE CODE NUMBERING SCHEME



A2. CLASS ADVISOR AND MENTOR

A2.1 Class advisor

The Head of the Department will allot one faculty member to be the Class advisor for a particular class of students throughout their period of study. The role of Class advisor are as follows:

- To motivate and closely monitor the performance, motivate and mentor the students.
- To build a strong alumni base for the institution by maintaining a meaningful rapport with students and parents.
- To maintain all important documents of the students for reference/inspection by all committees.
- To work closely with the mentors on matters related to students.

Class advisor shall also play the role of Mentor for a set of 25 students (maximum) in the class allotted to him or her.

A2.2 Mentor

In order to facilitate the students' progress and welfare, the Head of the Department will allocate a fixed number of students to a teaching faculty of the department who shall function as Mentor for them throughout their period of study. Each mentor will have a maximum of 25 students allotted to him/her. The responsibilities of the mentor are:

- Advise students in course registration, monitor their attendance and academic performance and counsel them periodically.
- If necessary, the mentor may also discuss with, or inform the parents about the progress of the student concerned.
- During the Course Registration Process, the mentor shall advise the mentee about the academic programme and counsel him/her on the number and nature of courses to be registered for in the ensuing semester, considering the academic background and career objectives of the mentee.
- Mentors shall guide students with arrears during the course registration process in the summer track for pacing the programme.
- Mentors shall maintain an e-Record of each of his/her mentees, which shall contain information about the students' attendance, grades obtained in the End Semester Examinations, Continuous Assessment Tests, achievements if any in Curricular, Co-curricular and Extra-curricular activities, Medical History and disciplinary proceedings if any, taken against the student.
- Mentors shall organize two meetings with their mentees in a semester, to keep track of their academic progress and to solve grievances if any and minute the same in the e-Record.

- Mentors shall organize one meeting with their respective mentees' parents in a semester.

A3. VARIOUS COMMITTEES

For smooth execution of the regulation, policies, various committees are formed and a few of them are briefed here

A3.1 Class Committee

The Class Committee Meeting (CCM) shall be conducted by the Academic department faculty and shall be done class wise to assess the quality of the academic and non-academic activities in a stipulated period. The class committee meetings shall be conducted as scheduled below and the minutes shall be submitted to Academic Consultative Committee (ACC). Table A-1 shows the schedule for organizing the class committee meetings.

Table A-1: Schedule for organizing class committee Meeting

Meeting 1	One week before the commencement of CAT-I
Meeting 2	One week before the commencement of CAT-II

ACC will address the feedback collected from the various departments before the start of the next meeting.

A3.2 Course Committee for Common Courses

Each common theory course offered to more than one class / branch shall have a Course Committee comprising all the teachers teaching the common course with one of them nominated as Course Coordinator as detailed in Table A-2 : Common Course **Committee**.

Table A-2 : Common Course Committee

SL. No.	Nature of common course	Person responsible for forming course committee and nominating Course-Coordinator
1.	For common course / course handled in a particular department	Respective HoD will nominate and intimate the concerned faculty.
2.	For common courses handled in more than one department	DoA to put up the course committee details to the Principal, get the same approved and intimate the concerned faculty

The course committee will ensure that a common question paper is prepared for the tests / exams and uniform evaluation is carried out. The course committee should meet at least 3 times in a semester. The schedule for the course committee meetings is shown in Table A3.

Table A-3 : Schedule for organizing Course Committee Meetings

Meeting 1	Before one week of the start of the semester
Meeting 2	One week before CAT - 1
Meeting 3	One week after CAT - 2

A3.3 ACC - Academic consultative committee:

The committee includes the Principal, Director, DoA, CoE, Director / HoD concerned. The committee meets to carry out business related to academic matters which require central decision making and approval viz. retest approval of missed CAT, addressing the feedback collected from the various departments' class committee meetings

A3.4 DCC - Department consultative committee

The committee includes Director or HoD (need basis), and a few faculty members of the department from various levels. The committee meets to carry out business related to academic matters that can be addressed within the department viz. course equivalence of common courses for readmitted students; approval of new courses to be offered by the department; consider and approve the credit equivalence of courses offered by industry, review the course offerings; consider the merit of applications involving lack of attendance in PE/OE courses to take up another PE or OE; approve CAM only courses every semester; approve scheme of assessment for each course; approval for and Mapping credits of certification courses; approval of list of nationally or internationally recognized professional certification courses with prometric testing; consider credit mapping request from students for Professional /Technical certification course to Professional elective course and transfer the credits appropriately; approval of guided self-study of Professional elective course for students with no history of arrears and CGPA >8.0; periodic monitoring and evaluation of the student(s) who has/have registered for the guided self-study of the PE course; listing and approval of minor/micro specialization modules; changes in eRIDE sequencing and approval of eRIDE related matters.

A3.5 DEC- Departmental Examination Committee

The committee includes Director or HoD (need basis), and a few faculty members of the department from various levels including the exam coordinator of the department and CoE if required. The committee shall schedule, conduct, scrutinize the quality of CAT question papers, project/ lab reviews and maintain records.

**A4. PROCESS TO CONSIDER THE APPLICATION FOR REVOCATION OF
DETAINMENT**

The process to consider the application for revocation of detainment on account of lack of attendance in 4 or more courses, due to genuine reasons (viz. sports participation, NCC, Medical grounds etc) is as follows:

The student submits an application for consideration via a request letter to the CoE, not later than 3 days from the last working day, along with the HOD's recommendation, Class Advisor's report and Mentor's recommendation. A committee consisting of the Principal, CoE, DoA (1 representative), Head (OSA), LC (1 representative), HODs - 2 from departments other than the student's own). The committee shall meet within 4 working days, to consider the case. Stakeholders may be called to be present in the meeting as may be required, and decision arrived at. The decision approved by Principal shall be final.