KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE -641 049.

ACADEMIC REGULATIONS 2018

(R18 - Amended)

B.E. / B. Tech Programmes

(R 2018 A)

Applicable to students admitted from AY 2021-2022 onwards

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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
NSS	National Service Scheme
OBE	Outcome Based Education
PO	Programme Outcome
PEO	Programme Educational Objective
SGPA	Semester Grade Point Average

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 were to be Man Making and Nation Building. Project banyan took a considered view of the inputs from various stakeholders and prepared the R17 regulations which aims to provide a progressive and strong educational foundation. To build on and enhance the changes brought in, a revision of the regulation was brought in as regulations 2018. The amended regulation (R2018 A) includes modifications criteria for assessments, grading, attendance requirements, minor specialization, Honours (with and without specialization) and retests.

2. SCOPE

These amended regulations (R2018A) are applicable to all students admitted into various U.G. programmes of the institution from the Academic Year (AY) 2021-22 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
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, Pro**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.

Sl.No.	Name	Definition
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
19	**Academic Consultative Committee (ACC)**	The committee includes Principal, Director / DoA, CoE, Director / HoD concerned.
20	**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

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
• Aeronautical Engineering	• Artificial Intelligence and Data Science
• Automobile Engineering	• Biotechnology
• Civil Engineering	• Fashion Technology
• Computer Science and Engineering	• Information Technology
• Electronics and Communication Engineering	• Textile Technology
• Electrical and Electronics Engineering	
• Electronics and Instrumentation Engineering	
• Information Science and Engineering	
• Mechanical Engineering	
• Mechatronics Engineering	

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 2015 and 2017 autonomous regulations, who have discontinued for reasons other than disciplinary action, may be readmitted to 2018 regulation (subject to maximum duration & other requirements). 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

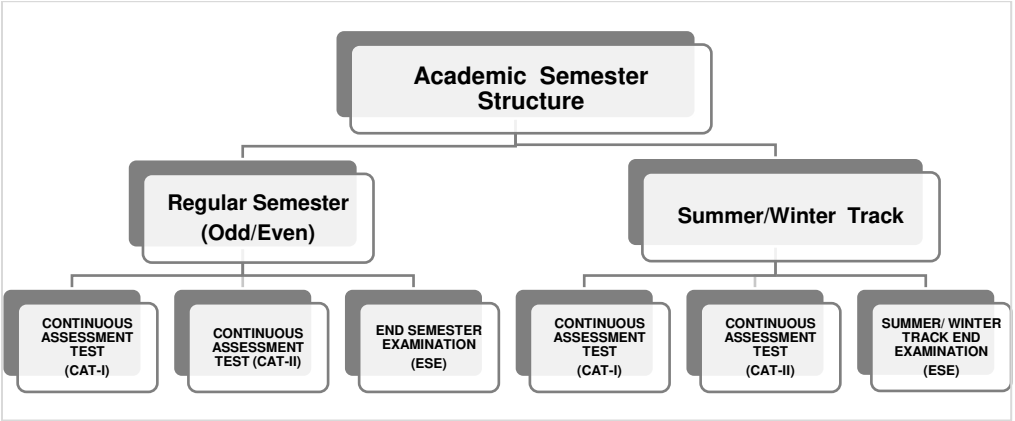

Figure 1: Semester Structure

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:

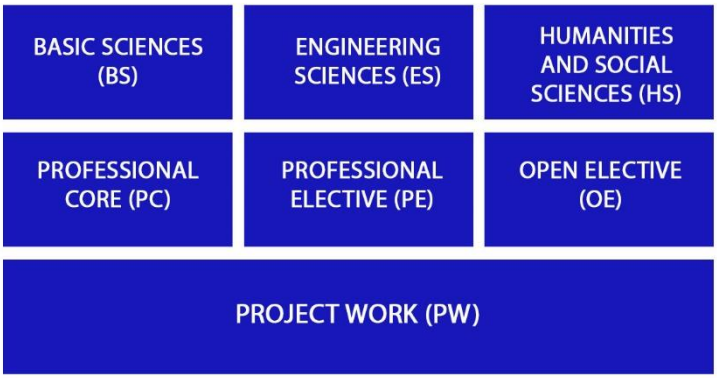

Figure 2: Categories of Courses

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)	8-10%	
Basic Sciences (BS)	15%	
Basic Engineering Sciences (ES)	25-27%	
Professional Core (PC) and Cluster Courses	31-35	45-51% in total
Professional Electives (PE)	4-6	
Project Work (PW)	10	
Open Electives (OE)	2%	

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 1

6.6. Embedded Course

An embedded course is a combination of theory component with the other components-viz Practicals, Project (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.

6.6.1. 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 150 – 160 credits (can vary with the programme) in a minimum of eight Semesters, while a lateral-entry student must earn 122-136 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 7thand 8th semester. Such courses can be registered for, after the 4th semester, when offered in the Summer/Winter track
- 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
- 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
- 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. Honours / 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 8thsemester (or) 8thsemester 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 If a student obtains a "U" grade (re-appearance grade) is obtained in a course, 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 From third attempt onwards if a student fails to obtain pass marks (CAM + ESM), then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester exam alone

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 summarised below in Figure 3:

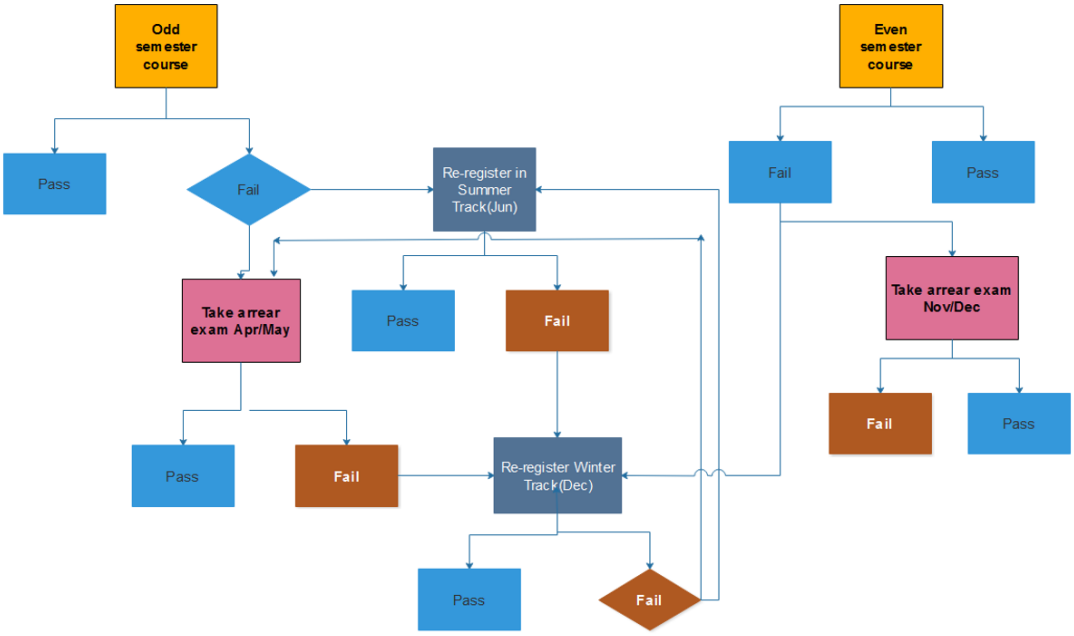

Figure 3: Arrear remedial process

7.5.6 If the student obtains an "U" grade in a mandatory non-credit courses (eg. Human Excellence course) he/she will re-register when it is offered next.

7.5.7 If a student obtains an "U" grade in any of the components (Theory or Lab or Project) of an embedded course, he/she has to re-register and appear for the arrear exam for all the components (Theory, lab/project) of that course, when offered in the summer/winter track (vide clause 7.5.1) or appear for the ESE (vide clause 7.5.1). Until the student passes all the components of an embedded course it will be considered as an "U" grade for that course.

7.5.8 If a student obtains a "U" grade in a professional elective or an open elective, the student may register for the same or any other professional elective or open elective course respectively if and when offered next.

7.5.9 If a student has completed the 8 semesters and has obtained "U" grade in one or more courses, he can register and appear for arrear examination directly whenever conducted next.

8. REQUIREMENTS FOR APPEARING FOR CONTINUOUS ASSESSMENT TEST (CAT II) & END SEMESTER EXAMINATION OF A COURSE

8.1. A student is expected to maintain 100% attendance in all courses. Considering the fact that a student may need leave due to ill-health or to attend some family 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-II and ESE.

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

Test/Examination Type	Period of calculation	Minimum percentage of attendance required
Continuous Assessment Test 2 (CAT-2)	From the date of joining (1st semester)/date of commencement of the course (2nd to 8th sem) to one week before the start of CAT – 2	75% (For students maintaining 80% or more attendance between CAT 1 and

Test/Examination Type	Period of calculation	Minimum percentage of attendance required
		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 (1st semester)/date of commencement of the course (2nd to 8th 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) viz. For an embedded course comprising of theory, lab, or/and project component, the student has to maintain an overall attendance of 75% putting together theory and lab/project instructional hours.

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 7.2).

8.4. If a student has failed (obtained 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/Sports person representing Tamilnadu / India with prior permission for participation from Principal / CoE / DOA), 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	40 Marks	60 Marks
2	Embedded Courses with Theory & Lab	50 Marks	50 Marks
3	Laboratory/ Project Courses	60 Marks	40 Marks
4	Employability Enhancement Courses (One credit industry courses, etc.	100 Marks	-

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 presents the details of various types of courses and their assessment patterns. The mark distribution is dependent on the credit weightages of components of the courses such as Theory and Lab. 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 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, II & ESE will be based on the patterns shown in **Table 8** (a &b) and shall be informed to students by the course handling faculty.

Table 7 : Scheme for Assessment

S. No	Course Type		Mark breakup									
			Continuous Assessment components							End semester components		
			CAT-I	CAT-II	Other Assessments #	Average of Pre/post -test/viva for each experiment *	Average of marks for Experiment report for each experiment *	Model exam/Report*	Written exam	Practical exam	Practical exam Viva-voce
1	**Theory**		20(50)	20 (50)	20 (50)	-	-	-	100	-	-
			40 % weightage						60 % weightage		
2	**Lab**		-	-	-	10(100)	20(100)	30 (100)	36 (90)		4(10)
						60%			40%		
3	**Theory + Lab**	**Theory**	20 (50)	20 (50)	20 (50)	-	-	-	100	-	-
			50 % weightage						50 % weightage		
		Lab	-	-	-	10(100)	20(100)	30 (100)	36 (90)		4(10)
						50% weightage			50% weightage		

* mark weightage for the exam conducted. 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.

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 Mark	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 mark	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 –						100

		ve marks) *						
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	20
c	Model examination	30
	Total CAM	**60**
2	**End Semester Exam Marks**	
a	Lab examination	36 (90)
b	Viva voce	4 (10)
	Total ESM	40
	Total Marks	**100**

11.4 Embedded courses

Every component of an embedded course will be assessed individually for 100 marks (vide Clause14.3).

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 60 marks and that for the End Semester Examination (project report evaluation and viva-voce examination) is 40 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.	Description			Weightage
1.	**Continuous Assessment Marks**			
a	Review 1	Review committee#	10	20
		Guide	10	
b	Review 2	Review committee	10	20
		Guide	10	
c	Review 3	Review committee	10	20
		Guide	10	
	Total CAM			60
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		10
	Total ESM			40
	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 unauthorised 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

A student who has not appeared for a CAT (theory courses/component of embedded courses) shall be permitted to be eligible for retest 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 for retest only for the following reasons:

- Absence due to prolonged illness of more than 7 working days or due to hospitalization (in-patient treatment)
- Absence due to death of immediate family members
- Absence due to participation in NCC/NSS/NSO camps only
- 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, Retest for the missed CAT will be conducted.
- Retest can be conducted for one missed 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 13).

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 based course if he/she has secured:

- A minimum of 45% 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 a 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).

14.3. A student is declared to have successfully passed an embedded course if he/she has secured

- A minimum of 45% 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 (for Embedded Project courses)

14.4. For a student who does not meet the minimum passing requirements, the term "U" 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)

14.5. 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 next. (Vide clause 7.5.1)

14.6. The letter grade "W" will be indicated for the courses for which the student has been granted authorized withdrawal (refer Clause 9).

14.7. For all theory / practical courses from the 3rd attempt onwards, student passes a course if he/she obtains a minimum of 50% in the end semester examination and the continuous assessment marks (CAM) is nullified

14.8. If a student fails in an embedded course, he/she has to reappear for both the theory and lab components

14.9. For mandatory courses (non-credit), the student must satisfy the minimum attendance requirement & passing criteria as specified for the course as detailed in Section 16.2

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	• Apply for photo copy of answer book • Then apply for re-totalling	• Apply for photo copy of answer book • Then apply for re-totalling.
2	Revaluation	• Apply for photo copy of answerbook • Then apply for revaluation after course expert recommendation	**Not permitted**
3	Challenge of Evaluation (Figure 4)	• Apply for photo copy of answer book • Then apply for revaluation after course expert recommendation • Next apply for challenge of evaluation	• Apply for photo copy of answer book • Then apply for challenge of evaluation after course expert recommendation

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

15.1. Challenge of Evaluation – Flow Chart

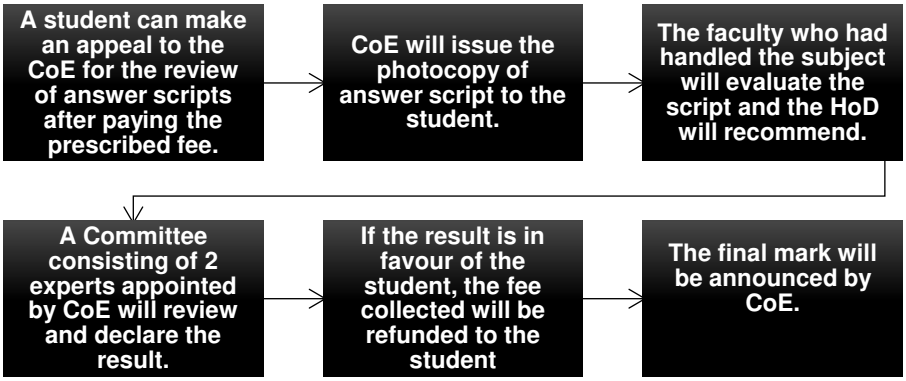

Figure 4: Challenge of Evaluation

16. LETTER GRADE

For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. (Note: It will be applicable to only those students who has passed the examination as per the passing requirements listed in Clause 14. Relative grading in such cases will be done for passed students, by normalization using BOX-COX transformation). However, if the students' strength is less than or equal to 30 then absolute grading system is adopted for converting marks to grades.

16.1. Grading Policy

- Relative grading will be applicable to only those students who has passed the course (Theory, Embedded, CAM only courses) as per the passing requirements listed in Clause 14. The marks of only the students who has passed, shall be inputted in the software for relative grading. The software normalizes the results using BOX-COX transformation and computes the grade range for each course separately and awards grade to each student

- For relative grading to be done the student strength for the course must be greater than 30. However, if the students' strength is less than or equal to 30 then absolute grading system is adopted for converting marks to grades (Table 13b).
- Also, for laboratory / Project work courses absolute grading will be done.

Letter Grades:

Relative Grading: For reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as given in **Table 13a**

Table 13a: Relative Grading – Letter Grades

Sl. No.	Letter Grade	Grade Points
1.	O (Outstanding)	10
2.	A+ (Excellent)	9
3.	A (Very Good)	8
4.	B+ (Good)	7
5.	B (Average)	6
6.	C (Satisfactory)	5
7.	U (Reappearance)	0
8.	SA (Reappearance due to Shortage of Attendance)	0
9.	AB (Reappearance due to absence)	0
10.	WD	0
11.	P	0
12.	F	0

Absolute Grading:

For the courses in which absolute grading is done, the performance of a candidate is reported as letter grades, each carrying certain number of points, will be awarded as per the mark range given in **Table 13b**, based on the percentage of marks obtained by the candidate in each subject:

Table 13b : Absolute Grading - Letter Grade and mark range

Sl. No.	Range of percentage of total marks	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.	56 to 60	B (Average)	6
6.	50 to 55	C (Satisfactory)	5

7.	<50	U (Reappearance)	0
8.	Shortage of Attendance	SA (Reappearance due to Shortage of Attendance)	0
9.	Absent	AB (Reappearance due to absence)	0
10.	Withdrawal from examination	WD	0
11	Pass in mandatory-non- credit Audit course	P	0
12	Fail in mandatory-non- credit Audit 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”, “C”. Reappearance registration is mandatory for that course for which “U”, “AB”, “SA” is obtained.

P and F grades are awarded in a course that the student opts to audit. The audit pass (P) grade is awarded if the student meets attendance requirements as for other credit courses and he/she has obtained at least 50% marks in the CAM. If the stipulated requirements are not fulfilled, the audit fail (F) grade is awarded. The grades obtained in an audit course are not considered in the calculation of GPA

16.2. Grading For Mandatory Courses

Mandatory Courses are courses that are required to be completed to fulfil the degree requirements (e.g. Human excellence, Environmental science, etc.). They are normally non – credit based. These courses will not be taken into 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 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.

$$\textbf{S}\text{emester }\textbf{G}\text{rade }\textbf{P}\text{oint }\textbf{A}\text{verage} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

Where $\mathbf{C_i}$ is the credit for a course in that semester and $\mathbf{GP_i}$ 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 **G**rade **P**oint **A**verage **(CGPA**)up to that point of time.

$$\textbf{C}\text{umulative }\textbf{G}\text{rade }\textbf{P}\text{oint }\textbf{A}\text{verage} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where $\mathbf{C_i}$ is the credit for each course in each of the completed semesters at that stage and $\mathbf{GP_i}$ 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 2018 (R18) (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 13**

Table 13: Classification of the B.E/ B.Tech Degree

Sl.No.	Class Awarded	Criteria
1.	First class with distinction	A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction: 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	A student who satisfies the following conditions shall be declared to have passed the examination in First class: a) Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of Lateral Entry) within Five years (Four 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 Five years (Four years in the case of lateral entry) for award of First class c) Should have secured a CGPA of not less than 6.50. For Honours (with or without specialization) should have secured a CGPA of not less than 7.50, and no history of arrears

3.	Second class	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.

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 the purpose of classification.*

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 for action.

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 Courses

Human Excellence department offers Value Education (VE) Courses. These courses are mandatory non-credit courses. Each of these courses is assessed continuously for a total mark (CAM) 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

Table 14: Assessment scheme 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.
- Normally students may be permitted to complete only one professional certification course.

21.4. Guided Self-Study of Professional Elective (PE) 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. Honours and Minor Specialization

Honours (with or without specialization) and minor specialization are a set of five or six courses totalling 18 credits, offered to students who opt for them. These will be optional credit courses in addition to the minimum total credits required for fulfilling the degree requirements of the programme.

The eligibility for enrolment for the courses of the Honours (with or without specialization) and minor specialization will be (a) CGPA of 7.5 or above until III semester (b) for Honours (with or without specialization) additionally all the courses until III semester must have been cleared in the first attempt.

Honours modules are offered as additional credits in the same discipline, while Minor modules are offered as additional credits in another discipline.

In the case of Honours modules if the set of courses are earned in a single vertical (domain) the student will earn Honours (with specialization), and if the courses are

earned across different verticals (domains) of the discipline, the student will earn Honours.

Minor Modules can be offered individually or jointly by Departments/Centres/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.

Of the 18 credits, students can earn maximum of 6 credits in online SWAYAM/NPTEL courses, with prior DCC approval.

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. 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.

If a student chooses to forego the pursuit of Honours or Minors specialization subsequent to the completion of a specified number of courses, said additional courses shall be deemed eligible for allocation to Professional Electives (in the case of Honours) or Open Electives (in the case of Minors). In the scenario where a student has undertaken a greater number of additional Honours/Minor courses but opts not to pursue Honours/Minor, the aforementioned courses shall be documented as supplementary credits, with no incorporation into the calculation of the Cumulative Grade Point Average (CGPA).

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 15 : 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 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 15 illustrates the credit allocation for Internship.

21.7. One credit courses 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, faculty 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.

21.9. New Course Types:

The following are the various types of courses that can be offered to students as credit or non -credit courses, in addition to the standard course types (Theory, lab, project, embedded courses etc) listed in the curriculum.

Audit Courses are optionally registered by a student to understand certain basic / advanced concepts in his / her own discipline or other disciplines offered by the Institute. In the case, if a candidate fails in an Audit Course, it is not mandatory to repeat that course and these courses shall not be considered for the eligibility for awarding the Degree / CGPA calculations. Grades shall be awarded as “Audit Pass” or “Audit Fail”, depending upon the outcomes of assessments.

Bridge Courses are offered to bridge the learning gaps that may exist on account of (i) learning gaps at school education (students admitted from different Boards in the case of UG) or (ii) students admitted under Lateral Entry Scheme (Diploma, BSc qualification) or (iii) learning an advanced level courses that require certain pre-requisites. Such courses will have additional credits that shall not be included in the CGPA calculations.

Capsule Courses are offered in the (i) emerging areas (eg. Metaverse, 6G, Web 3.0), (ii) introductory course for an established domain (eg. Blockchain, Cyber Physical Systems) and (iii) non-credit courses with a total duration not exceeding 6 to 8 hours. In the case, if a candidate fails in a Capsule Course, it is not mandatory to repeat that course and these courses shall not be considered for the eligibility for awarding the Degree / CGPA calculations.

Collaborative Courses are jointly designed by a team of students from different programmes / specialisation with the help of a faculty team. These courses are expected to meet specific requirements like seeking admission for higher studies, participating in national / international competitions, incubation of new ideas. Assessment and evaluation will be carried out jointly by a team of faculty members, relevant to course content

Competitions / Hackathons may be considered as one of the course types in situations, where multiple solutions are expected to a problem or, multiple problems are expected to be solved, related to one particular domain / industry / research laboratory (eg. AICTE-SIH, Defense, DRDO Labs, jointly with Ministries of Government, etc). Such course shall be essentially a combination of theory with problem solving (Lab Component) and may be offered on a workshop mode also. Credit allocation, Assessment and Evaluation shall be based on the duration of the competition.

Comprehension course is offered (only in UG Programmes), towards the end of pre-final year to facilitate the students to prepare for certain competitive examinations / placements / higher studies.

Course-on-Demand is a curriculum enrichment option given to the students of a programme to gain knowledge / skill on a specific topic. Group of students with appropriate course content / topics may approach the concerned Head of the Department and submit the request for delivery. However, such courses shall not have any repetition (in syllabus) of other courses offered in any programme offered by the Institution.

Course-by-Consent facilitates a student to attend few lectures / complete course to understand certain concepts and gain fundamental knowledge of a course, without Course Registration, with the consent of course-handling faculty member. There shall not be any Assessments and Evaluations for these courses.

Delivery-at-Industry is an option given to faculty members to deliver a part / complete course in an industry, where specific facilities (related to manufacturing, service) are available. Assessments and evaluation will be conducted at the Institution / Industry as per the schedule / calendar released by the Controller of Examinations.

Edge Courses are essential courses offered from the initial years of the Degree Programme and Edge courses include the following courses and any other courses approved by the Academic Council.

1. Biology for Engineers
2. Design Thinking
3. Ethics
4. Indian Constitution
5. IPR Fundamentals

6. Research Ethics
7. Start-up Fundamentals

Field Study may be offered as a special / curriculum enriching component to understand certain practical issues / work practices / market survey / societal issues. Field Study, if it forms a part of the course then credit(s) shall be assigned accordingly, otherwise such course(s) may be specified in the Grade Sheet without credits / grades.

Independent Study is an option given to the needy student(s) to enhance learning experience in a specific domain. In Independent Study, a student is expected to solve real-time problems, individually, related to research / industry / societal needs (Problem Based Course). Independent Study may be taken in place of Professional Elective or Open Elective (T) or Additional Credit Course, with a maximum of 3 credits, in the entire period of study. The study shall be proposed and planned by an individual student. A Faculty Coordinator shall be assigned to monitor the progress, plan assessments and final evaluation. In case, if a student fails to complete the study, he / she may seek additional time or may drop the course and opt for a different elective course. Such proposals from the students shall be presented to the Board of Study for approval and recommendations.

Industry-driven Course shall be offered, jointly with an industry or organisation that would result in learning the emerging trends / employment potential topics / solving real-time problems. Contents of the course shall be jointly designed by the industry expert and a suitable faculty member, with relevant assessments and evaluation.

Interdisciplinary Course may be offered jointly by a team of faculty members / support systems with the course content that include interdisciplinary topics from different domains, thereby enhancing the Professional Knowledge / Skills of the students. However, such courses shall not have any significant repetition (in the syllabus) of other courses offered in any discipline of the Institution. If a student fails complete such course in the first attempt or lack of attendance requirements, he / she may opt for a different course in the subsequent semester and meet the minimum credit requirements of the Programme or may re-do the same course whenever offered.

Mini-project is offered as an individual course or as a part of the course taught under various types, preferably in a semester before a student takes-up the Capstone Project. Mini-projects are expected to enhance the learning outcomes of the students by applying the

Engineering Knowledge unambiguously by Problem Analysis, Design / Development of Solutions, Conducting short Investigations or involving the use of Modern Tools.

Massive Open Online Courses (MOOC) are offered as additional credit courses or a part of the curriculum with the credit equivalence, equal to that of Professional Electives and /or Open Electives. In the case, if the binding-guidelines are received from the University regarding credit equivalence or credit limits, that shall be adhered to strictly, regardless to the provisions given in this Regulation.

Partnered Course is typically a course outsourced through a qualified vendor (Institute / Individual Experts / Professional Bodies / Government Agencies) to bridge the (i) gap between industry-institute or (ii) expertise available within the Institution. A Course Coordinator shall be appointed by the concerned Head to monitor the progress, assessment and evaluation.

Protosem shall be a semester-long activity, offered by a Department / Laboratory/ Centre, where an individual student or group of students is/are expected to work on incubating certain ideas to develop a product / process / technology / business with or without financial assistance from the Institute. Courses opted and efforts put-in by the individual / team shall be mapped with the Professional Electives / Open Elective (Technical) Courses.

Self-Study Elective may be offered from the existing list of Professional Electives, when sufficient cohort is not available for offering a course (as elective). Student(s) who opt for self-study elective shall be assigned with a Course Coordinator to monitor the progress, conduct assessments and evaluation. In case, if a self-study course is registered by a student as an additional credit course, he / she shall not be required to repeat / redo, if fails to secure the 'pass' grade.

Skill Courses are related to either personal (transferable) skills or professional skills, delivered in the form of demo-sessions, hands-on training and any other suitable delivery methods. These courses shall be optional, non-credit courses without / with assessments and evaluations.

Technical Seminar is offered to enhance learning activities and the outcomes of students related to Communication, Individual / Teamwork and Life-long learning.

Value Added Courses are offered to provide value addition over certain basic courses, offered as a part of the UG curriculum. These courses shall have a duration of minimum 30 hours and may be delivered by Institutional Faculty or Adjunct Faculty or Expert Members identified in the relevant domain. Faculty Coordinator and HoDs proposing such courses shall get approval from the Board of Study for Syllabus and Assessments and Evaluation.

If a student or group of student wish(es) to opt for (i) Course-on-Demand, (ii) Independent Study, (iii) Internship, (iv) MOOC, (v) Protosem and (vi) Self-Study Elective, same shall be communicated to the Mentor / Head of the Department / Department of Academics for necessary approvals from BoS / AC (for (i), (ii)) to facilitate the Course Registration process.

The assessment of these course types will be as follows:

Table 17 – Assessments and Evaluations of New Course Types

Course Type	Continuous Assessments and Weightage (Marks)			End Semester Examination (ESE) & Weightage (Marks)	Eligibility for 'Pass" Grade	Remarks
	Test 1	Test 2	Assignment			
Capsule Course	Test 1 – 50 Marks	-	-	-	50%	No need to redo in case, if a student fails
Collaborative Course - Theory	Test 1 – 20 Marks	Test 2 – 20 Marks	Test 3 / Term Paper – 10 Marks	Mini-project** / SEE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	If a student fails, no need to repeat if registered for additional credits
Collaborative Course - Lab	Mid-Term Assessment 1 – 20 Marks	Mid-Term Assessment 1 – 30 Marks	-	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	If a student fails, no need to repeat if registered for additional credits

Course Type	Continuous Assessments and Weightage (Marks)			End Semester Examination (ESE) & Weightage (Marks)	Eligibility for 'Pass" Grade	Remarks
	Test 1	Test 2	Assignment			
Competitions / Hackathons	Review 1 – 10 Marks	Review 2 – 40 Marks	Review 3 – 50 Marks	-	50%	Needs to be repeated if the course is meant for Credit under CGPA or a different course may be opted for.
Comprehension	Test 1 – 10 Marks	Test 2 – 20 Marks	Test 3 – 20 Marks	-	50%	-
Course-by-Consent	-	-	-	-	-	No credits
Course-on-Demand - Theory	Test 1 – 20 Marks	Test 2 – 20 Marks	Term Paper – 10 Marks	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	If a student fails, no need to repeat if registered for additional credits
Course-on-Demand – Lab	Mid-Term Assessment 1 – 20 Marks	Mid-Term Assessment 1 – 30 Marks	-	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	If a student fails, no need to repeat, if registered for additional credits
Field Study	Review 1 – 10 Marks	Review 2 – 20 Marks	Review 3 – 20 Marks	-	50%	Individual Assessments
Independent Study	Review 1 – 10 Marks	Review 2 – 20 Marks	Review 3 – 20 Marks	Viva Voce – 30 Marks Report** – 10 Marks Paper Published (Journal) / Patent Filed – 10 Marks	50% of the Total Score and Minimum Score 45% in ESE	Rubrics to be approved by Academic Council

Course Type	Continuous Assessments and Weightage (Marks)			End Semester Examination (ESE) & Weightage (Marks)	Eligibility for 'Pass" Grade	Remarks
	Test 1	Test 2	Assignment			
Industry-driven Course	Test 1 – 20 Marks	Test 2 – 20 Marks	Test 3 / Term Paper – 10 Marks	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	Final Evaluation to be conducted jointly.
Interdisciplinary Course	Test 1 – 20 Marks	Test 2 – 20 Marks	Test 3 / Term Paper – 10 Marks	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	Final Evaluation to be carried out jointly.
Massive Open Online Course (MOOC)	-	-	-	Presentation – 100%	-	No need to repeat, if a candidate fails in the MOOC
Mini-project	Review 1 – 10 Marks	Review 2 – 20 Marks	Review 3 – 20 Marks	-	50%	-
Partnered Course	Test 1 – 20 Marks	Test 2 – 20 Marks	Test 3 / Term Paper – 10 Marks	Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	Final Evaluation to be conducted jointly.
Protosem Courses	Review / Test 1 – 20 Marks	Review / Test 2 – 20 Marks	Review / Test 3 / Term Paper – 10 Marks	Report** – 50 Marks Mini-project** / ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	In case, if a student fails, he/she may opt for regular mode in subsequent Semester.
Self-Study Elective	Test 1 – 20 Marks	Test 2 – 20 Marks	Term Paper – 10 Marks	ESE – 50 Marks	50% of the Total Score and Minimum Score 45% in ESE	If a student fails, no need to repeat if registered for additional credits
Skill Courses	Test 1 – 50 Marks	-	-	-	50%	No need to redo in case, if a student fails

Course Type	Continuous Assessments and Weightage (Marks)			End Semester Examination (ESE) & Weightage (Marks)	Eligibility for 'Pass" Grade	Remarks
	Test 1	Test 2	Assignment			
Technical Seminar	Presentation 1 – 20 Marks	Presentation 2 – 30 Marks	Report – 30 Marks and Presentation 3 – 20 Marks	-	50%	-
Value Added Course	Test 1 – 10 Marks	Test 2 – 40 Marks	Test 3 – 50 Marks	-	50%	No need to redo in case, if a student fails

*** - Preferably softcopy of the full reports are expected from the students. Only abstracts may be submitted in the printed form.*

Note:

1. *In case of assignments, softcopy shall be submitted in Simulation / programming / coding related subjects or subjects, where substantial written contents are not required.*
2. *Number of Tests and Assignments may also be decided in the Class / Course Committee meeting, in addition to the above, with the approval of respective Board of Studies. However, common question paper shall be followed in the case of ESE with common "eligibility for pass grade".*
3. *Wherever ESE has 50% weightage to secure 'Pass' Grade (except Collaborative Courses – Theory and Lab, Course-on-Demand – Theory and Lab, Industry Driven, Partnered Course and Protosem), Examination/Evaluation shall be conducted for 3 hours for 100 marks and marks secured by a student shall be converted into 50% for arriving at total marks along with CAM. In the case of CAM, assessment topics shall not exceed 50% of total syllabus and assessment duration shall not be more than 90 minutes.*
4. *In the case, if a student fails in the Self-Study Elective (under Total Minimum Credit), Partnered Courses, Interdisciplinary Courses, Independent Study, Industry-Driven Courses, Independent Study, Competitions/Hackathons, Collaborative Courses (under credit), he / she may opt for a different course under Professional / Open Electives and earn the required credits.*
5. *In the case of Value Added Courses, Skill Courses, Self-study elective (non-credit, Non-CGPA), Partnered Courses, MOOC, Internship, Independent Study, Immersion Programme, Capsule Courses, the final grades shall be specified in the Grade Sheet only if the student secures "Pass" grade.*
6. *In the case, if a student fails in Value Added Course, Skill Courses, MOOC, Immersion Programme and Capsule Courses, it is not mandatory to repeat / re-do the course. Status of 'fail' shall not be specified in the Grade Sheets.*

22. 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.*

APPENDIX

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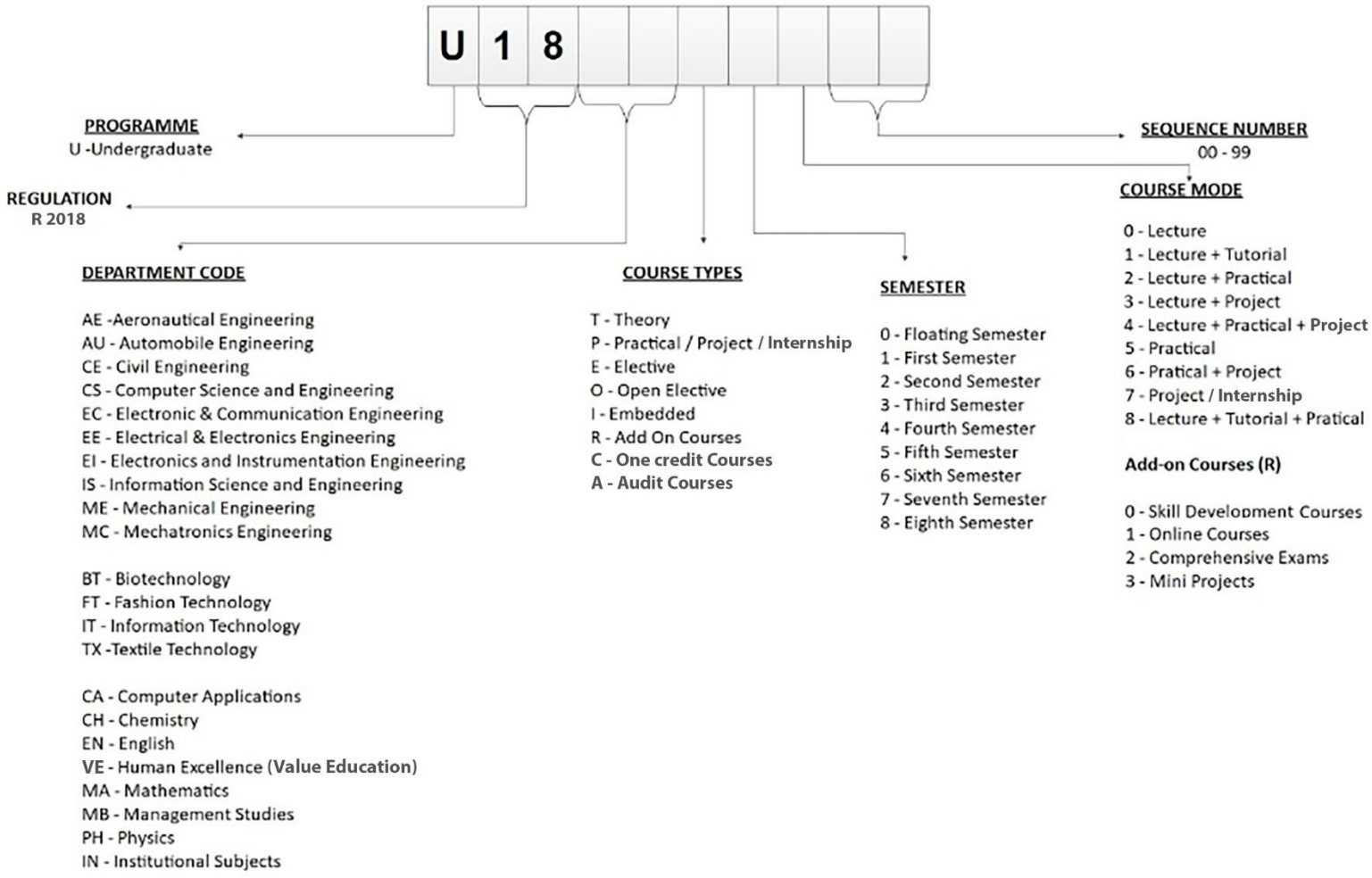
A1. COURSE CODE NUMBERING SCHEME



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/winter 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 COMMITEES

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 **A-3**.

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.

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.