Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES
(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)
MoE, UGC & AICTE Approved; NAAC Accredited A++; ICAR Accredited
Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India

Academic Regulation 2023

ACADEMIC REGULATIONS 2023

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PROGRAMS AND CREDITS

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1	B.Tech. (Civil Engineering)	8	165
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3	B.Tech. (Aerospace Engineering)	8	165
4	B.Tech. (Computer Science and Engineering)	8	165
5	B.Tech. (Computer Engineering)	8	165
6	B.Tech. (Artificial Intelligence and Data Science)	8	165
7	B.Tech. CSE (Artificial Intelligence)	8	165
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9	B.Tech. (Electronics and Communication Engineering)	8	165
10	B.Tech. (Electronics and Computer Engineering)	8	165
11	B.Tech. (Electrical and Electronics Engineering)	8	165
12	B.Tech. (Biomedical Engineering)	8	165
13	B.Tech. (Robotics and Automation)	8	165
14	B.Tech. (Biotechnology)	8	165
15	B.Tech. (Food Processing and Engineering)	8	165
16	M.Tech. (Structural Engineering)	4	70
17	M.Tech. (Aerospace Engineering)	4	70
18	M.Tech. (Computer Science and Engineering)	4	70
19	M.Tech. (Cyber Security)	4	70
20	M.Tech. (VLSI Design)	4	70
21	M.Tech. (Biomedical Instrumentation)	4	70
22	M.Tech. (Robotics and Automation)	4	70
23	M.Tech (Biotechnology)	4	70
24	M.Tech. (Food Processing and Engineering)	4	70
25	B.Sc. (Hons) Agriculture	8	184
26	M.Sc. (Agri.) in Agronomy	4	77
27	M.Sc. (Agri.) in Genetics and Plant Breeding	4	77
28	M.Sc. (Horti.) in Fruit Science	4	77
29	B.Sc. (Information Security and Digital Forensics)	6	140
30	B.Sc. (Forensic Science)	6	139
31	B.Sc. (Computer Science and Media Production)	6	140
32	B.Com. (PA & FT)	6	146
33	M.Sc. (Biotechnology)	4	90
34	M.Sc. (Food Science and Technology)	4	90
35	M.Sc. (Information Security and Digital Forensics)	4	90

36	M.Sc. (Artificial Intelligence and Data Science)	4	90
37	M. Sc. (Forensic Science)	4	93
38	MBA	4	109
39	B.Tech. (Lateral) (Civil Engineering)	6	138
40	B.Tech. (Lateral) (Mechanical Engineering)	6	131
41	B.Tech. (Lateral) (Aerospace Engineering)	6	132
42	B.Tech. (Lateral) (Computer Science and Engineering)	6	138
43	B.Tech. (Lateral) (Computer Engineering)	6	138
44	B.Tech. (Lateral) (Artificial Intelligence and Data Science)	6	138
45	B.Tech. (Lateral) CSE (Artificial Intelligence)	6	138
46	B.Tech. (Lateral) CSE (Artificial Intelligence and Machine Learning)	6	138
47	B.Tech. (Lateral) (Electronics and Communication Engineering)	6	133
48	B.Tech. (Lateral) (Electronics and Computer Engineering)	6	133
49	B.Tech. (Lateral) (Electrical and Electronics Engineering)	6	138
50	B.Tech. (Lateral) (Biomedical Engineering)	6	137
51	B.Tech. (Lateral) (Robotics and Automation)	6	134
52	B.Tech. (Lateral) (Biotechnology)	6	136
53	B.Tech. (Lateral) (Food Processing and Engineering)	6	130.5

ACADEMIC REGULATIONS

A. FOCUS / OBJECTIVE

The main focus of the program is highly purposive and innovative, setting the pace for implementing reforms in higher education that are relevant both nationally and internationally. The academic programs are suitably enriched, interdisciplinary, flexible and marketable. Through the Industry interaction programs, purposeful linkages between the professional and educational communities shall be established. The focus is on Research and Consultancy in intending to make the research applicable to the society and country. The establishment of International Standard centres of excellence and combined academic and research programmes with institutions in India and overseas are front-line. Programs shall be designed with Science, Applied Science and Technology components for the graduates of the program to function efficiently and effectively in a technologically advanced society.

Centres of Excellence meeting international standards are being set up, along with shared teaching and research programmes with universities in India and other countries. Science, Applied Science, and Technology should all be included in programmes so that grads can work quickly and successfully in today's technological world. There should be structure similarities between all programmes, and all students, no matter what degree they end up with, should be able to take the same courses at the same time. This will make it easier for students to connect with each other professionally and do group activities. 'Industrial Schooling' and goal-oriented, time-bound study projects will help people build strong professional bonds. The way schools are run should allow for all kinds of new ideas and make them work.

Programs shall be designed with Science, Applied Science and Technology components for the graduates of the program to function efficiently and effectively in technological society. All programs shall have structural commonality, and the common courses shall be offered together, irrespective of the ultimate degree to be awarded, to provide easy professional linkage, communication and group activity. A strong professional bond shall be developed through ‘Industrial Schooling’ and mission-oriented, time bound research projects. Academic administrative structure shall make all innovations possible and workable.

The program's primary objective is to be purposeful and inventive, leading the way in implementing effective changes in higher education that are applicable both domestically and internationally. The academic programmes are appropriately enhanced, multidisciplinary, adaptable, and marketable. The industry engagement programmes aim to develop meaningful connections between the professional and educational groups. The focus is on directing efforts towards Research and Consultancy in order to ensure that research is applicable to the country and society. Efforts are underway to construct Centres of Excellence that meet international standards, as well as to develop collaborative academic and research programmes with

universities in India and other countries. The programmes should include elements of Science, Applied Science, and Technology to ensure that graduates are able to operate with optimal efficiency and effectiveness in a technologically advanced society. Every programme must possess structural uniformity, and the shared courses should be taught concurrently, regardless of the final degree being pursued, in order to facilitate seamless professional connections, communication, and collaborative work. An enduring professional connection will be fostered via 'Industrial Schooling' and goal-driven, time-limited research projects. The academic administration framework should facilitate and implement all conceivable and feasible advances.

Choice Based Credit System (CBCS) is a versatile and flexible option for each student to achieve their target number of credits by using their choice both in terms of pace and sequence of courses. The students are given the privilege to choose any course as an elective which they have not studied before.

B. ADMISSION CRITERIA

- The Admission Criteria for all programs will be as per the University policy.
- Candidates with M.Sc. qualification are admitted to M.Tech programs, if they are qualified through GATE or by an examination conducted by the School, testing the proficiency and suitability to the program.

C. PROGRAM(S) OF STUDY

All the degree programs offered by the University are structured and their academic requirements are spelt out by the number of course credits. Programs are designed in such a way that a student will be able to finish the program in a stipulated number of semesters (Table 1). Students can be permitted to break-in the program by the Chairman, Academic Council (AC) on the recommendations of the Dean of the School concerned, however the program should be completed within the permitted number of semesters.

TABLE 1. DURATION OF STUDY

Degree	Stipulated Number of Semesters	Permitted Number of Semesters
B.Tech	8	12
BBA/B.Com/B.Sc./BA/B.Tech (Lateral)	6	10
M.Tech/MBA/M.Sc.	4	6
M.Tech (Lateral) / PG Diploma / Diploma	2	4
M.Sc. (Integrated)	10	14

(The permitted number of semesters can be increased case by case by the Academic Council)

D. ACADEMIC YEAR

The academic year is divided into two semesters, each semester consisting of 90/105 working days depending upon the requirements and workload, the courses are scheduled in either one of the semesters or both semesters.

E. COURSES AND CREDITS

- The departments offer courses in their areas of expertise. The nature of course, syllabus and the credits are reviewed and updated periodically by the Curriculum Development Cells (CDC) of the Departments and recommended to the BoS and AC for approval. The feedback from the Alumni, Industry Experts, Academicians and other stakeholders are obtained and incorporated during BoS/AC. The program core shall be updated once in three years only.
- With due approval of the University authorities, external faculty, agency or industry are also permitted to offer courses. The Curriculum Development Cell shall review the course content and assign appropriate credits and recommend the same to the BoS and AC for the approval.
- All the theory and laboratory courses are listed under the appropriate department and coded with two digits identifying the year, two alphabets identifying the department followed by 4 numbers, the first one indicating the level and the 2^{nd}–4^{th} digits indicating the course number.
- The level of the courses is as follows:
  - 1 for I year undergraduate programmes and M.Sc. (Integrated) programmes. These courses cannot be chosen as electives.
  - 2 for UG programmes, which cannot be chosen as elective by PG students.
  - 3 for PG programmes, which can be chosen as electives by UG students.
- Each course shall carry a credit rating related to the weekly workload for the semester.

  - One credit is assigned to one hour of lecture or one hour of tutorial per week.
  - One credit is assigned for 2 continuous hours of academic work per week in Laboratory/ Workshop/ Drawing/ Design for the programmes offered by the school of Engineering & Technology.
  - In the case of Arts & Science programmes, one credit is assigned for 1.5 continuous hours of academic work per week in Laboratory/ Workshop/ Drawing/ Design.

  For Example:

  a) A credit rating of 1:0:0 indicates (1x1) + (0x1) + (0x1.5/2.0) = One hour of lecture, no tutorial class and no laboratory / workshop / design / drawing.

b) A credit rating of 0:1:0 indicates (0xl) + (1x1) + (0x1.5/2.0) = No lecture class, one hour of tutorial class and no laboratory / workshop / design / drawing. The tutorial is to be conducted in lab mode.
c) A credit rating of 0:0:1 indicates (0xl) + (0x1) + (1x1.5/2.0) = No lecture class, no tutorial class and 2* / 1.5** hours of laboratory / workshop / design / drawing

(- For B.Tech/M.Tech / MBA Programs; ** - For all other programs)*

F. BLENDED LEARNING

Blended learning refers to the combination of traditional face-to-face instruction with online learning activities. This approach allows for personalized learning, increased flexibility, and improved access to education. Blended learning can take various forms, such as flipped classrooms, rotational models, and online dual enrollment. It is an effective way to enhance teaching and learning outcomes in the digital age.

Theory

The divisions shall identify at least 3 theory courses every semester for each batch of students that are to be offered through a blended learning method.

Lab

All the laboratory courses shall be offered through a blended learning method.

G. COURSES AND CREDITS DISTRIBUTION

G 1 B.Tech Programs

The following B.Tech programs are offered by the University: B.Tech course credit distribution are shown in Table 2.

TABLE 2 COURSES & CREDIT DISTRIBUTION FOR UG (B.Tech.) PROGRAM

S. No	Program	Total no. of credits allotted									
		Humanities and Social sciences and Management courses	Basic Sciences	Engineering Sciences	Professional Core	Professional Electives	Open subjects	Skill based Courses	Internships/ Projects/ Patent/ Products	Online Courses	Mandatory Courses	Total
1	Civil	11	16	15	70	24/18	6	6	12/18	5	Non-credit	165
2	Mechanical	9	14	21	63	24/18	9	8	12/18	5		165
3	Aerospace	10	15	18	69	24/18	6	6	12/18	5		165
4	CSE	11	15	19	64	21	6	4	20	5		165
5	Computer Engineering	11	15	19	64	21	6	4	21	5		165
6	AI & DS	11	12	22.5	63.5	21	6	4	20	5		165
7	CSE (AI)	11	12	20.5	65.5	21	6	4	20	5		165
8	CSE (AI&ML)	11	12	20.5	65.5	21	6	4	20	5		165
9	ECE	8	12	20	65	30/24	6	7	12/18	5		165
10	ECM	8	10	22	66	30/24	6	6	12/18	5		165
11	EEE	8	15	25	63	18/24	6	7	12/18	5		165
12	Biomedical	11	12	17	66	30/24	6	6	12/18	5		165
13	Robotics & Automation	8	17	23	64	18	6	6	18	5		165
14	Biotech	15	16	14	65	17/11	9	6	18/24	5		165
15	Food Processing	11	18.5	17.5	64.5	18.5	6	6	18	5		165

TABLE 3 COURSES & CREDIT DISTRIBUTION FOR UG (B.Tech.-Lateral) PROGRAM

S. No	Program	Total no. of credits allotted										
		Humanities and Social Sciences and Management courses	Basic Sciences	Engineering Sciences	Professional Core	Professional Electives	Open subjects	Internships/ Projects/ Patent/ Products	Skill based Courses	Online Courses	Mandatory Courses	Total
1	Civil	4	7	3	66	18/24	9	12/18	3	3	Non-Credit	138
2	Mechanical	2	6	3	63	24/18	9	11/17	6	3		131
3	Aerospace	5	6	5	69	18/24	6	18/12	2	3		132
4	CSE	2	12	9	64	21	6	20	-	3		138
5	Computer Engineering	2	12	9	64	21	6	20	-	3		138
6	AIDS	2	9	12.5	64	21	6	20	-	3		138
7	CSE (AI)	2	9	10.5	66	21	6	20	-	3		138
8	CSE (AI&ML)	2	9	10.5	66	21	6	20	-	3		138
9	ECE	4	6	6	65	24	6	17	-	3		133
10	ECM	4	6	11	60	24	6	17	-	3		133
11	EEE	5	7	17	61	24/18	6	12/18	3	3		138
12	Biomedical	5	6	6	66	30/24	6	11/17	4	3		137
13	Robotics and Automation	5	7	10	64	18	6	17	4	3		134
14	Biotechnology	11	3	6	65	18	9	17	4	3		136
15	Food Processing	8	5	12	65	14.5	6	18	-	3		130.5

**The students shall earn 3 credits through online courses between 3rd and 7th semester (both inclusive)*

G 1.1 Professional Core

Program core is a group of courses identified to be taken by students for attaining a specific degree. The BoS on the recommendation of the CDC will prescribe a list of courses which are essential to obtain a degree in a branch of Engineering and Technology.

G 1.2 Professional Electives

The BoS on the recommendation of CDC will prescribe a list of courses and the list should contain courses for a minimum credit of 36. The student would have to earn a minimum number of credits prescribed from the list. A student can register for the professional elective courses from the 5th semester onwards.

G 1.3 Open Electives

Towards the requirement of the balance of credits for the degree, a student may choose additional Interdisciplinary Courses depending upon the aptitude, interest and future. The students can choose any approved course offered by any other Divisions of the KITS. A student can register for the open elective courses from the 5th semester onwards.

G 1.4 Project work, Seminar, Internship in industry or elsewhere

Project:

The allotment of guides for eligible UG students should be done before the semester starts.

Project 23[XX]2998 (XX represents the Department/ Programme) can be a team effort and a maximum of 4 UG students can form the team for this purpose.

Project 23[XX]2999 (XX represents the Department/ Programme) is for 90 working days and is an individual effort.

All students are required to do Projects in Reputed Industry/ Laboratory to promote academic industrial interaction and to provide professional expertise in selected fields of interest. Under this program, projects are formulated and implemented jointly by specialists from the industries and faculty members of the institute. The Institute will provide information regarding the options available along with the skill set required to all the students.

Industrial Training/ Internship/ Summer Internship Program/ Mini Project/ Project Preparation

For UG Programs

S. No	Course	Credits	Course Code	Min. Duration
1	Mini Project	0:0:2	MP2911, MP2912 etc.	4 Weeks
2	Mini Project	0:0:1	MP2921, MP2922 etc	2 Weeks
3	Industrial Training	0:0:2	ITP 2911, ITP 2912 etc	4 Weeks
4	Industrial Training	0:0:1	ITP 2921, ITP 2922 etc	2 Weeks
5	Summer Internship Program	0:0:2	SIP2911, SIP 2912 etc	4 Weeks
6	Summer Internship Program	0:0:1	SIP2921, SIP 2922 etc	2 Weeks
7	Project Preparation	0:0:1	PP2921, PP2922 etc	
8	Internship	0:0:2	ISP2911, ISP2912 etc	4 Weeks
9	Internship	0:0:1	ISP2921, ISP2922 etc	2 Weeks
10	Internship	0:0:6	ISP2931, ISP2932 etc	45Working days

For PG Programs

S.No	Course	Credits	Course code	Min. Duration
1	Mini Project	0:0:2	MP3951, MP3952	4 Weeks
2	Mini Project	0:0:1	MP3953, MP3954	2 Weeks

3	Industrial Training	0:0:2	ITP 3901, ITP 3902	4 Weeks
4	Industrial Training	0:0:1	ITP 3903, ITP 3904	2 Weeks
5	Summer Internship Program	0:0:2	SIP3991, SIP 3992	4 Weeks
6	Summer Internship Program	0:0:1	SIP3993, SIP 3994	2 Weeks
7	Project Preparation	0:0:1	PP3911, PP3912 etc.	
8	Internship	0:0:2	ISP3995	4 Weeks
9	Internship	0:0:1	ISP3996	2 Weeks
10	Internship	0:0:6	ISP3997	45 Working days

G 2 M.Tech Programs

A student will be awarded M.Tech. if he/she successfully completes the total number of academic credits prescribed for a regular degree which is 70 (Table 4).

TABLE 4 COURSES & CREDIT DISTRIBUTION FOR M. Tech PROGRAM

S. No	Program	Total No of Credits allotted							
		Program Core	Professional Electives	Open Electives	Part-semester Project	Full-semester Project	Mini Project/ Industrial training	Online Courses	Total
1	Structural Engineering	24	15	3	8	15	3	2	70
2	Aerospace Engineering	24	16	3	8	15	2	2	70
3	Computer Science and Engineering	22	19	3	8	15	1	2	70
4	Cyber Security	21	19	3	8	15	2	2	70
5	VLSI Design	25	15	3	8	15	2	2	70
6	Biomedical Instrumentation	25	15	3	8	15	2	2	70
7	Robotics and Automation	25	15	3	8	15	2	2	70
8	Biotechnology	22	15	3	10	16	2	2	70
9	Food Processing and Engineering	30	15	3	6	12	2	2	70

G 2.1 Professional core

The BoS on the recommendation of the CDC will prescribe a list of courses which are essential to obtain a Master's degree in a branch of engineering, one part semester and one full semester project.

The allotment of guides for eligible PG students should be done by the end of second semester.

Part semester project is done for a minimum of 45 working days, it should be an individual effort.

The full semester project is done for 90 working days and is also an individual effort.

All students are required to do Projects in Reputed Industry / Laboratory to promote academic industrial interaction and to provide professional expertise in selected fields of interest. Under this program projects are formulated and implemented jointly by specialists from the industries and faculty members of the institute. The Institute will provide information regarding the options available along with the skill set required to all the students.

G 2.2 Professional Electives

The BoS on the recommendation of the CDC will prescribe a list of courses and the list should contain courses for a minimum credit of 23/27. The student would have to earn a minimum 15/19 credit from the list. The students are free to choose any elective course across any specialization.

If a student completes the PG core course as an elective course at the UG level, a maximum of 2 courses may be replaced with any other program specific elective courses at M.Tech level after matching the syllabi with due approval from the office of academic affairs.

G 3 M.Sc. Programs

A student will be awarded M.Sc. degree if he/she successfully completes the total number of academic credits prescribed for a regular degree as given in table 5.

TABLE 5 COURSES & CREDIT DISTRIBUTION FOR OTHER POSTGRADUATE PROGRAMS

S. No	Program	Total No of Credits allotted								
		General Core	Program Core	Professional Electives	Other Electives	Open elective/ Online* courses	Internship/ Industrial Training	Part / Full Semester project	Audit	Total
1	M.Sc. (Biotechnology)		35	33		2*	4	16	0	90
2	M.Sc. (Food Science and Technology)		46	20				24	0	90
3	M.Sc. (Forensic Science)		51	11	9/ 17	1*	1	20/ 12		93
4	M.Sc. (Information Security and Digital Forensics)	1	69	8		2		12/ 20		90
5	M.Sc. (Artificial Intelligence and Data Science)	1	69	8		2		12/ 20		90
6	MBA		53	40		2*	2	12		109

G 4 UG-Arts and Science Programs

The following UG programmes are offered by the university and their credit distribution shown in Table 6.

TABLE 6 COURSES & CREDIT DISTRIBUTION FOR UG ARTS & SCIENCE PROGRAMS

S. No	Program	Total No of Credits allotted								
		General Core	Program Core	Other Electives	Electives	Part Semester Project	Full Semester Project	Mini Project/ Internship	Online	Total
1	B.Sc. (Forensic Science)	20	84	12	21			1	1	139
2	B.Com. (PA & FT)	23	109			12		2		146
3	B.Sc. (Information Security and Digital Forensics)	30	88		08	12		2		140
4	B.Sc. Computer Science and Media Production	25	95		8	12				140

H. DIRECTED SELF STUDY

Any final year UG Degree student who wishes to study an approved course (except Program Core) while the course is not offered can opt for self-study. Any PG Degree student who wishes to study an approved course (except Program Core) while the course is not offered can opt for self-study from II Semester onwards. A maximum of 3 courses can be registered under self-study during the entire program of study.

Any student who wishes to pursue a course under self-study shall register for the same in the beginning of the semester. There will not be any regular classes conducted for self-study courses. The Dean/ HOD will allot a faculty in-charge to monitor the student, to set the question papers and evaluate the internal tests, quality assessment and end semester exam. The continuous assessment will be according to the 3 level Course of Academic Regulations and the results will be declared based on the absolute grading. However, the total credits registered for a semester should not exceed the limit prescribed for various programs.

In cases such as University/ Institute Transfer, etc., the students may be allowed to register courses for credits more than the prescribed limit after getting the approval from the competent authority.

I. AUDITING OF A COURSE

A student desiring to study a course can Audit a Course which will be reflected in the mark statement but not included for CGPA calculation. Such students should register with the Course Instructor before the commencement of the course, with permission of the Dean/ HoD. The student is expected to complete all the formality of internal and end semester assessment. No adjustment of Timetable will be done to accommodate such students. A maximum of 2 courses can be audited per program and an audited course cannot be registered for earning credit.

J. FACULTY ADVISORY SYSTEM AND REGISTRATION OF COURSES

Each student is assigned to a faculty member who will act as an Advisor during the campus life of the student in all relevant academic and administrative matters. The student is advised to draw up a plan of study in consultation with the Faculty Advisor.

J 1 Number of Credits per Semester

The number of credits to be taken by an Undergraduate student during a regular semester is 15-25. However, in the final year of study the student is permitted to register for the remaining credits even if it is less than the average number of credits.

J 2 Pre-Requisites and Co-Requisites

If a course ‘C2’ has a pre-requisite ‘C1’ and a co-requisite lab ‘C3’:

- A student is permitted to register for ‘C2’, only if he/she has registered for ‘C1’ in the preceding semester(s).
- A course ‘C3’ specified as co-requisite of ‘C2’ may be registered along with ‘C2’ or in the ensuing semester.

J 3 Add/Drop of Courses

A student can add to or drop any registered course according to the notification given by the Office of the Academic Affairs. The ‘dropped’ courses can be taken in the subsequent semester.

K. REQUIREMENTS FOR CONTINUING THE COURSE

A student will be deemed to have completed any semester only if:

- He/ She secures not less than 80% of class attendance (OD and ML corrected) and 80% of counseling session attendance in that semester.

However, it is mandatory for a student to maintain a physical attendance of 70%, only after which, the attendance correction for all kinds of official duty (OD) and medical leave (ML) will be affected at the end of the semester.

- His/ her conduct is found to be satisfactory as certified by the Dean of the School.

Students who do not complete the semester as per this clause will not be permitted to write the end semester examination and are not permitted to go to the next semester. They are required to repeat the incomplete semester in the next academic year.

L. SCHEME OF ASSESSMENT

Unique methods of evaluation have been evolved to take account of certain traits which do not surface in a classroom education, like professional judgment, decision making, interdisciplinary approach, initiative, leadership, sense of responsibility, etc. The system discards the conventional emphasis on a single final examination and numerical marks as the absolute indication of the quality of student's performance. Thus, at the end of the semester letter grades, O, A^+, A, B^+, B, C, P and R are awarded to the student based on the total performance of the student. These letter grades stand for quality of performance and also associated with points in a quantified hierarchy as given below:

TABLE 7a GRADE, PERFORMANCE QUALITY AND GRADE POINT

Grade	Performance Quality	Grade Point
O	Outstanding	10
A+	Excellent	9
A	Very Good	8
B+	Good	7
B	Above Average	6
C	Average	5
P	Pass	4
R	Fail	0

Further, these letter grades have points associated with them in a quantified hierarchy.

(i) For THEORY courses the distribution will be as under

TABLE 7b THEORY MARK DISTRIBUTION

Continuous Assessment	60
End semester examination	40
Total	100

The end semester examination will be conducted for 100 marks and the marks obtained will be converted appropriately for all level courses.

(ii) For PRACTICAL courses the distribution will be as under

TABLE 7c PRACTICAL MARK DISTRIBUTION

Laboratory work	60
End Semester Examination (30 Marks) & Viva voce (10 Marks)	40
Total	100

(iii) For INDUSTRIAL TRAINING / MINI PROJECT/ INTERNSHIP courses the distribution will be as under:

TABLE 7d INDUSTRIAL TRAINING / MINI PROJECT/ INTERNSHIP MARK DISTRIBUTION

Satisfactory certificate	30
Report	30
End Semester Examination & Viva voce	40
Total	100

(iv) For PROJECT PREPARATION PP[2/3]911 the distribution will be as under:

TABLE 7e PROJECT PREPARATION MARK DISTRIBUTION

Continuous Assessment (Min. 3 Reviews)	30
Report (with the final Review)	30
End Semester (Seminar & Viva Voce)	40
Total	100

(v) For PART SEMESTER PROJECT (PSP [2/3]998/ 23[XX] [2/3]998) the distribution will be as follows:

TABLE 7f PART SEMESTER PROJECT MARK DISTRIBUTION

Continuous Assessment (Min. 2 Reviews)	30
Report (with the final Review)	30
End Semester (Seminar & Viva Voce)	40
Total	100

(vi) For FULL SEMESTER PROJECT (FSP [2/3]999 / 23[XX] [2/3]999) the distribution will be as follows:

TABLE 7f FULL SEMESTER PROJECT MARK DISTRIBUTION

Continuous Assessment (Min. 3 Reviews)	30
Report (with the final Review)	30
End Semester (Seminar & Viva Voce)	40
Total	100

M. CONTINUOUS ASSESSMENT

Continuous assessment (CA) marks will be awarded based on continuous assessment made during the semester for Theory, Practical, Part-semester Project and Full-semester Projects, as per the guidelines issued from time to time with the approval of Chairman, AC. This continuous assessment is based on the sessional work and consists of class tests, Internal examinations, homework, assignments, term paper, seminars, course related projects, etc. Absence from these or late submissions will result in a loss of marks. Instructions for the same is given separately.

N. END SEMESTER EXAMINATION

- End Semester examination will be conducted for all the courses registered in a particular semester along with courses in which R grade was awarded, if any, in the previous semester(s).

- The University conducts final examinations, normally in November and in April every year. The timetable will be notified in advance.

- A student is permitted to withdraw the end semester examinations once during a programme under the following norms:

    - He / she meets the minimum attendance requirement
    - He / she should not have failed in any course/withdrawn even a single course earlier.
    - The immediate next attempt will be considered as the first attempt and the internal assessment of the withdrawn course may be carried forward and the student shall appear for end semester exam in the subsequent semester and the grading will be given after fixing the marks obtained by the student with their original class.

Practical/ Part-semester / Full-semester Projects: Faculty who conducted the practical / the Supervisor of the Project along with an expert from KITS to be appointed by the Dean/ HoD will conduct the end semester examination.

Industrial training / Mini project/ Internship / Project Preparation: Two experts (one can be supervisor) from KITS to be appointed by the Dean/ HoD will conduct the end semester examination.

O. REVALUATION

The students are entitled to the following within a reasonable time limit, to keep the evaluation system above board:

- The students are entitled to apply for xerox copies of answer scripts and/or revaluation.

- The average mark will be taken as the mark obtained for the two valuations for pass & pass or fail & fail. However, for pass & fail, there will be a third valuation and the marks corresponding to two similar results will be averaged.

P. GRADING SYSTEM

- The letter grade and the grade point to each student studying a course are awarded based on the statistical parameters, mean ($\bar{x}$) and standard deviation (σ) of the distribution of marks. These parameters are defined as follows:

$$\bar{x} = \frac{\sum_{i=1}^{N} M_i}{N} \quad \sigma = \sqrt{\frac{\sum_{i=1}^{N} (M_i - \bar{x})^2}{N}}$$

where M is the aggregate of marks obtained both from continuous assessment if applicable and the end semester assessment by the student in a course. N is the number of students appearing in the batch / course.

The minimum passing requirement details are given in Table 8 and classification of grades are presented in Tables 9.

TABLE 8a MINIMUM PASSING REQUIREMENTS
(For the B.Tech* and M.Tech programs)

Level of Course	End Semester Mark	Total
1 & 2	≥ 40%	≥ 45%
3	≥ 50%	≥ 50%

*For integrated courses (e.g. Courses having 1:0:1, 1:0:2, 2:0:1 credits), the student should get 40% or more in both theory and practical examinations separately at the end semester and the overall mark should be ≥ 45%. The overall marks will be calculated based on the credits for the theory and practical components (eg. for a 1:0:2 course, overall marks = (0.33 x total theory marks + 0.67 x Total lab marks)

TABLE 8b MINIMUM PASSING REQUIREMENTS
(For the Non-Credit Courses)

Level of Course	End Semester Mark	Total	Grade to be awarded
1 & 2	≥ 40%	≥ 45%	Completed
3	≥ 50%	≥ 50%	Completed

*The students who fail to secure the minimum passing requirement will be awarded "R" (Reappearance required) grade. The grade obtained shall not be included for the calculation of CGPA.

TABLE 8c MINIMUM PASSING REQUIREMENTS
(For the Arts and Science Programmes – B.A., B.Sc., B.Com., BBA, MA, M.Sc., MBA, etc.)

Level of Course	End Semester Mark	Total
1 & 2	≥ 37%	≥ 40%
3	≥ 50%	≥ 50%

TABLE 8d MANDATORY COURSES MINIMUM PASSING REQUIREMENTS
(For the B.Tech & M.Tech Students)

Course Level	Minimum pass marks required in End Semester Exam	Overall Pass %	Grade to be awarded
Level 1 & 2 courses	40%	45%	Completed
Level 3 courses	50%	50%	Completed

*The students who fail to secure the minimum passing requirement will be awarded "R" (Reappearance required) grade. The grade obtained shall not be included for the calculation for CGPA.

TABLE 9a CLASSIFICATION OF GRADES

S. No	Attendance	End Semester Exam	Grade	Proposed Outcome	Evaluation
1	Overall attendance <80%	-	IE	Repeat Semester	
2	Overall attendance (Morning Counseling +Subject-wise) ≥ 80%	Fail/ Absent	R/ AB	Appear for Arrear Exam (AE)	Relative Grading by fixing in the original batch

TABLE 9b RELATIVE GRADING

Total Mark, M secured by the student (CA+ES)	Grade	Quality Assessment	Grade Point
$M \geq (\bar{x} + 1.75\sigma)$	O	Outstanding	10
$(\bar{x} + 1.125\sigma) \leq M < (\bar{x} + 1.75\sigma)$	A+	Excellent	9
$(\bar{x} + 0.5\sigma) \leq M < (\bar{x} + 1.125\sigma)$	A	Very Good	8
$\bar{x} + 0.125\sigma \leq M < \bar{x} + 0.5\sigma$	B+	Good	7
$\bar{x} - 0.75\sigma \leq M < \bar{x} + 0.125\sigma$	B	Above Average	6
$\bar{x} - 1.375\sigma \leq M < \bar{x} - 0.75\sigma$	C	Average	5
$\bar{x} - 2\sigma \leq M < \bar{x} - 1.375\sigma$	P	Pass	4
$M < \bar{x} - 2\sigma$	R	Fail	0

If the value of $\bar{x} + 1.75\sigma \geq 100$ and $M \geq 95$, he/she may be awarded 'O' grade

TABLE 9c ABSOLUTE GRADING

Grade	Qualitative Assessment	Point Value of Grade	Marks associated with
O	Outstanding	10	≥ 95
A+	Excellent	9	≥ 85 & < 95
A	Very Good	8	≥ 75 &< 85
B+	Good	7	≥ 65 &< 75
B	Above Average	6	≥ 60 &< 65
C	Average	5	≥ 55 &< 60
P	Pass	4	≥ 45 &<55* ≥ 50 & <55**
R	Fail	0	<45* <50**
AB	Absent	0	-

*For 1 and 2 Level Courses **For 3 Level Courses

- If a student fails to meet the attendance requirement, he may be considered 'Ineligible' and allotted the grade 'IE' (Table 8a). A student who gets the grade 'IE' shall repeat the semester in the subsequent academic year. All the courses registered during that semester will be cancelled.

- If a student meets the minimum attendance but is fail or absent in the end semester exam shall be awarded 'R/AB' grade (Table 8a). He / She shall appear for arrear exam in the subsequent semester and grade will be awarded according to Relative Grading by fixing in the original batch if he/she meets the minimum requirement.

Level 1 & Level 2 courses:

1. If the number of students registered for a course is ≥ 30, relative grading (Table 8b) will be followed, else absolute grading based on Table 15c will be applied.

2. A student will be awarded R grade if M < ($\bar{x} - 2\sigma$) or end semester mark <40% (Refer Table 7).

3. If ($\bar{x} - 2\sigma$) > 45, the lower limit of Grade P is to be fixed as 45%.

4. Half Semester and Full Semester Project shall follow the Absolute Grading (Table 8c).

Level 3 Courses:

1. All theory, laboratory courses, half semester and full semester projects shall follow absolute grading. All theory and laboratory courses for MBA students shall follow relating grading. However, for Part/Full Semester Projects, absolute grading shall be followed.

2. A student will be awarded R grade if M < ($\bar{x} - 2\sigma$) or end semester mark < 50% (Refer Table7).

3. If ($\bar{x} - 2\sigma$) > 50, the lower limit of Grade P is to be fixed as 50%.

GRADE POINT AVERAGE

Based on the grades obtained by a student in all the registered courses, a Grade Point Average (GPA) is calculated as follows and is rounded off to two decimals

$$\text{GPA} = \frac{\sum(\text{No.ofCredits} \times \text{GradePoint})}{\sum \text{No.ofCredits}}$$

The ranking of a student in a semester will depend on the GPA earned.

SGPA: The Semester Grade Point Average is the GPA for the subjects registered in a semester.

CGPA: The Cumulative Grade Point Average at any stage is the GPA for all subjects successfully completed up to that stage.

The SGPA and CGPA are rounded off to two decimal places.

PERCENTAGE OF MARKS: To get a percentage of marks, multiply the GPA by 10.

Q. CLASSIFICATION OF SUCCESSFUL CANDIDATES

- Should successfully complete the total number of academic credits prescribed for a regular UG and PG degree

- In addition to satisfactory completion of the academic requirement, every student should successfully complete a minimum of non-academic credits as per norms for the award of degree by taking activities of student's choice from amongst those designed to achieve the non-academic objectives of the University.

R. CLASSIFICATION OF AWARDS

(i) A student is awarded First Class with Distinction if the student passes all the courses required in the first attempt within the permitted period and has more than 8.0 CGPA on a 10-point grade. Even if a student takes 'break of study' on valid reasons and passes all subjects without arrears, he/she is eligible to get First Class with Distinction.

(ii) A student is awarded I Class if the student

- is able to pass all the subjects within the permitted period by taking not more than two attempts after the stipulated period.

- has been permitted to go through 'break of study' on valid reasons and this period will not be counted as part of stipulated/permitted period.

- has more than 6.0 CGPA on a 10-point grade at the completion of the required number of credits.

(iii)All the other students who qualify for the degree are given second class.

S. COMMENDATION

A student obtaining a CGPA of 9.5 and above with project grade of 'O' will be commended by the Board of Management for outstanding performance

T. CONSTITUTION OF CURRICULUM CELLS

The Departmental Curriculum Development Cells are constituted as under for planning and updating of syllabus to be presented to the Board of Studies. Similarly, the Common Curriculum Development Cell is constituted as under for finalizing the subjects for both common and departmental core.

a) Departmental Curriculum Development Cells for academic matters

Curriculum Development Cell is a standing internal committee with all the internal members of the BoS and AC and any other faculty co-opted / nominated by the Dean of School / HoD.

Chairman : Head of the Department

Secretary : Faculty nominated by HoD

b) Board of Studies

Chairman: Head of the Department

Internal Members: All Professors

: All Associate Professors

: Assistant Professors nominated by the HoD

External Members: One member each one from Academia, Industry and Alumni from the constituted Board.

Secretary: Faculty member nominated by the HoD.

c) Common Curriculum Development Cell for regulations

Chairman: Chairman (Academic Council)

Members: Registrar

All Deans

All HODs

Secretary: Registrar

U. CREDIT REQUIREMENTS FOR GRADUATION

The students who complete more than the minimum number of credits required for the completion of the program shall be given an option to get the Degree with the best minimum credits required for graduation. Only the courses corresponding to the best minimum required credits will be listed in the consolidated statement of grades.

V. GENERAL

On all matters connected with their course work and the prescribed requirements for the Degree, the students are advised to seek guidance from their Class Advisor / Mentor / Head of the Department concerned.

CONTINUOUS ASSESSMENT

PREAMBLE

Grades will be awarded on the basis of continuous assessment made during the semester. These continuous assessment components are periodic tests, internal examinations, assignments, term paper, seminars, course related projects, etc.

A course instructor who handles a class does the assessment on his/her own but will be subjected to an academic audit.

The salient features of the continuous assessment are:

- There will be regular periodic evaluation of each student by number of pre-notified components
- Absence from these or late submissions will result in a loss of marks.
- The marks obtained in all components will be added and statistical methods will be used to award the grades as given in the policy.
- End semester examination/ Viva are mandatory.

THEORY COURSES

Attendance:

(i) Students who are physically present in a class only should be marked present; students do not present in the class for what so ever reason should not be marked present.

(ii) The attendance marks will be awarded as per the course-wise OD corrected attendance. >95% - 4 marks / <95 &>90 - 3 marks / <90 &>85 - 2 marks / <85 &>80 - 1 mark

(iii) Students will be awarded 1 mark if their counseling session attendance is more than 90%.

Periodic Tests

1. Three tests will be conducted for 40 marks each. All the three tests are compulsory for all UG programs offered by the School of Engineering and Technology, School of Computer Technology and School of Science, Arts, Media & Management, the distribution of marks for continuous assessment for the students admitted from the academic year 2022-23 will be as follows:

	Level 1& 2 Marks	**Level 3 Marks**
3 Internal Assessments @ 15 marks each	45	45
Quality Assessment	10 (5 marks – Online/ MCQ test)	15
Attendance	5	-

End Semester Exam	40	40
Total	100	100

Note:

a. Students who have availed OD for any one test will be allotted the best marks out of the two tests he/she appeared.

b. However, if any student is unable to write the IA test due to medical or other valid reasons, such students will be allowed to write the 4th IA test and the marks scored in this IA test will be considered for final IA marks calculation.

2. The assessment pattern for the students 2022-23 batch onwards (Blended Learning)

IA	Assessment Pattern
IA 1	Online Quiz mode for 30 minutes (From the commencement of class to till date)
IA 2	Written exam (From the commencement of class to till date)
IA 3	Project/ Skill based/ Written exam (The portion after 2nd IA)

3. The following tests schedule shall be incorporated in the Academic Calendar.

UG and PG courses other than MBA

Test No.	Schedule	Portions
Test 1	After 25th Working day	1 - 12 lectures
Test 2	After 50th Working day	13 - 24 lectures
Test 3	After 75th Working day	25 - 36 lectures

4. Question Pattern for Internal Test:

<u>1 & 2 Level Courses</u>

- The question paper will consist of two big questions of 20 marks each with adequate subdivisions.
- Each question can be of the following pattern:
  a. Two questions @1marks each
  b. Two questions @ 2 marks each
  c. One big question @ 14 marks

3 Level Courses

- The question paper will consist of two big questions of 20 marks each with subdivisions.

5. The faculty will prepare a scheme of valuation, value the script, give to the students, and will explain the valuation scheme.

6. **Quality Assessment:**

One online / MCQ test will be conducted per course between 55th and 74th working day for all 1 and 2 level courses. The test can be conducted during regular lecture hours. The mark obtained will be converted to 5. Any other component (seminars/ term papers/ posters/ hardware) may be given for the remaining 5 marks.

Quality Assessment

(i) QA will be given for a course which does not have tutorial credit and will be given a maximum of 15 marks for 3 level courses and 10 marks for 1 and 2 level courses.

(ii) The Course Teacher will decide on any two components for this assessment; it can be a seminar / assignment / design / product development / minor project / case study / term paper, etc.

(iii) The quality assessment component and their weightage by which the students are going to be assessed by the course teacher will be clearly spelled out to the students in the beginning of the semester itself.

(iv) Students are not permitted to just download materials from the Internet and submit them as Assignment, Project or Term Paper for Quality Assessment. Students should prepare handwritten / typed reports based on the understanding of concept, technology, etc.

(v) The quality assessment will be reviewed by the HoD/ Dean at the end of the semester.

Tutorials (Applicable for 1 and 2 Level Courses)

(i) This will be applicable only to the courses which have tutorial credit

(ii) The tutorial questions and keys will be framed by the course teacher and communicated to teachers handling the tutorials.

(iii) The students are required to maintain a separate notebook for each tutorial class.

(iv) The faculty will assess the tutorial work at the end of every tutorial period and record the marks

(v) The marks obtained by each student in all tutorials will be added and calculated for 10 marks.

End Semester Theory Examination

1. The students registered for the same course code will appear for a common end semester exam.
2. One common question paper will be used per course for all internal tests and end semester exam.
3. End Semester Question Paper Pattern:

   Level 1 & 2 Courses

   - Part A : 10 × 1 Mark = 10 Marks
   - Part B : 6 × 3 Mark = 18 Marks
   - Part C : 6 × 12 Mark = 72 Marks (Among 7 Any 5, and one compulsory)

   Level 3 Courses

   - 5 × 16 Mark = 80 Marks (Among 7 Any 5, with subdivisions)
   - 1 × 20 Mark = 20 Marks (One compulsory)

LABORATORY COURSES

Practical

1. The faculty will prepare a list of experiments and get the approval of HoD/ Dean and notify the same before the commencement of the semester.
2. The list will consist of 12 experiments for a 1.5/ 2 credits lab (one session per week) or 6 experiments for a 1 credit lab (one session per 2 weeks)
3. At the end of every class the faculty will evaluate the work done during the session (based on observation note) for 20 marks
4. The student would have to submit the record note at the beginning of the ensuing class and faculty will evaluate the same for 10 marks
5. No student will be permitted to do 2 experiments in the same class.
6. The marks obtained by the students will be calculated for 60 marks.

End Semester Practical Examination

1. The faculty after ensuring that the students have completed at least 10/ 5 experiments will conduct the examination in the regular lab class.
2. A student should have completed a minimum of 8/ 4 experiments to appear for the end semester examination. The list of eligible students will be generated by the system.
3. Faculty who conducted the practical will inform HoD/ Dean for appointing an expert from KITS.

4. The faculty and the expert appointed by the HoD/ Dean will conduct the end semester examination for 40 marks (Experiment–20 marks, Procedure–10 marks and Viva voce–10 marks).
5. No student will be allowed to appear for the end semester examination regular as well as arrear without the certified record book.

INDUSTRIAL TRAINING/ MINI-PROJECT/ INTERNSHIP/ PART-SEMESTER AND FULL-SEMESTER PROJECT

Assessment will be as per the scheme given in the Academic Regulations:

1. There will be periodic review of the progress by the panel assigned by the HoD / Dean.
2. This assessment will be for 60 marks, as per the policy.
3. The faculty who are associated with this activity along with an expert from KITS to be appointed by the Dean will conduct the end semester viva for 40 marks.

Malpractice Policy

The students will be governed by the Malpractice Policy as prescribed by the Office of the Controller of Examinations.