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++

Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India.

ARISE AND SHINE

ACADEMIC REGULATIONS
2022

ACADEMIC REGULATIONS 2022

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PROGRAMS AND CREDITS

Sl. No	Program	Duration (In Semester)	Total Credits
1	B.Tech. (Civil Engineering)	8	165
2	B.Tech. (Mechanical Engineering)	8	165
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. (Computer Science and Engineering (Artificial Intelligence))	8	165
8	B.Tech. (Computer Science and Engineering (Artificial Intelligence and Machine Learning))	8	165
9	B.Tech. (Electronics and Communication Engineering)	8	165
10	B.Tech. (Electronics and Computer Engineering)	8	165
11	B.Tech. (Biomedical Engineering)	8	165
12	B.Tech. (Robotics and Automation)	8	165
13	B.Tech. (Biotechnology)	8	165
14	B.Tech. (Food Processing and Engineering)	8	165
15	M.Tech. (Structural Engineering)	4	70
16	M.Tech. (Environment and Water Resource Engineering)	4	70
18	M.Tech. (Aerospace Engineering)	4	70
19	M.Tech. (Computer Science and Engineering)	4	70
20	M.Tech. (Cyber Security)	4	70
22	M.Tech. (VLSI Design)	4	70
23	M.Tech. (Biomedical Instrumentation)	4	70
24	M.Tech. (Robotics and Automation)	4	70
25	M. Tech (Biotechnology)	4	70
26	M.Tech. (Food Processing and Engineering)	4	70
27	B.Sc (Hons) Agriculture	8	184
29	M.Sc (Agriculture) in Agronomy	4	72
32	B.Sc. (Data Science and Analytics)	6	140
33	B.Sc.(Information Security and Digital Forensics)	6	140
34	B.Sc. Computer Science (Specialization in Artificial Intelligence)	6	137
35	B.Sc. Computer Science (Specialization in Data Science and Analytics)	6	137
36	B.Sc. (Optometry)	8	163
37	B.Sc. (Forensic Science)	6	136
38	BA (Criminology)	6	138
40	B.Sc. Visual Communication (Specialization in Multimedia and	6	140

	Animation)		
41	BBA	6	140
42	B.Com	6	147
43	B.Com (Financial Technology)	6	147
44	B.Com (Banking and Capital Market)	6	144
45	M.Sc. (Biotechnology)	4	90
46	M.Sc. (Food Science and Technology)	4	90
47	M.Sc. (Information Security and Digital Forensics)	4	92
48	M.Sc. Chemistry	4	90
49	M.Sc. Physics	4	91
50	M. Sc. (Forensic Science)	4	90
52	M.Sc.(Clinical Phycology)	4	90
53	M.Sc (Applied Criminology)	4	91
54	MBA	4	110

ACADEMIC REGULATIONS

A. FOCUS / OBJECTIVE

The main focus of the program is highly purposive and innovative, setting the pace for workable reforms in higher education that are relevant both nationally and globally. The academic programs are suitably enriched, interdisciplinary, flexible and marketable. Through the Industry interaction programs, purposeful linkage between the professional and educational community shall be established. Efforts are oriented towards Research and Consultancy to make research relevant to the nation and society. Centers of Excellence of International standards and joint academic and research program with Universities in India and abroad are being established. Programs shall be designed with Science, Applied Science and Technology components for the graduates of the program to function efficiently and effectively in the 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. 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.

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./MA/ M.Sc. (Lateral – integrated)	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 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 the 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. COURSES AND CREDITS DISTRIBUTION

F1. 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	Humanities and Social sciences including Management courses	Entrepreneurship	Basic Sciences	Engineering Sciences	Professional Core	Professional Electives	Open subjects – Electives from other technical and / or emerging subjects	Internships, Projects, / Patent / Products	Online Courses	Mandatory Courses (Environment Studies, Constitution of India)	Total
						Total no. of credits allotted						
1	Civil	5	10	16	17	70	21	6	15	5		165
2	Mechanical	8	10	19	16	68	15	9	15	5		165
3	Aerospace	5	10	18	12	73	21/27	6	15/9	5		165
4	CSE	5	7	19	14	73	21	6	15	5		165
5	Computer Engineering	5	7	19	14	73	21	6	15	5		165
6	AI&DS	5	7	16	13	77	21	6	15	5	Non-credit	165
7	CSE(AI)	5	7	16	14	76	21	6	15	5		165
8	CSE(AI&ML)	5	7	16	14	76	21	6	15	5		165
9	ECE	5	10	12	24	64	24	6	15	5		165
10	ECM	5	10	9	25	66	24	6	15	5		165
11	Biomedical	8	10	18	20	63	18	6	17	5		165
12	Robotics & Automation	5	7	17	21	71	18	6	15	5		165
13	Biotech	9	10	16	15	68	18/24	9	15/9	5		165
14	Food Processing	5	9	20	18.5	66.5	18/24	9	14/8	5		165

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

S. No	Name of the Program	Total No of Credits allotted (Category-wise)										
		Humanities and Social sciences including Management courses	Entrepreneurship	Basic Sciences	Engineering Sciences	Professional Core	Professional Electives	Open subjects – Electives from other technical and / or emerging subjects	Internships, Projects, / Patent / Products	Online Courses*	Mandatory Courses (Environment Studies, Constitution of India)	Total
1	Civil Engineering	5	9	7	4.5	70	21	6	15	3	-	**140.5**
2	Mechanical Engineering	3	9	10	7.5	68	15	9	15	3	-	**139.5**
3	Aerospace Engineering	5	9	7	6.5	64	21	6	15	3	-	**136.5**
4	Computer Science and Engineering	4	6	14	10.5	68.5	21	6	15	3	-	**148**
5	Computer Engineering	4	6	14	10.5	68.5	21	6	15	3	-	**148**
6	Artificial Intelligence and Data Science	4	6	11	10.5	72.5	21	6	15	3	-	**149**
7	CSE (Artificial Intelligence)	4	6	11	10.5	72.5	21	6	15	3	-	**149**
8	CSE (AI&ML)	4	6	11	10.5	71.5	21	6	15	3	-	**148**
9	Electronics and Communication Engineering	5	10	6	11.5	64	24	6	15	3		**144.5**
10	Electronics and Computer Engg.	5	10	6	13.5	62	24	6	15	3		**144.5**
11	Biomedical Engineering	8	10	6	10.5	63	18	6	17	3	-	**141.5**
12	Robotics and Automation	6	6	7	7.5	71	18	6	14	3	-	**138.5**
13	Biotechnology	10	9	6	7.5	68	18	9	15	3	-	**145.5**
14	Food Processing and Engineering	3	9	9	10.5	66.5	18/24	9	14/8	3	-	**142.0**

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

F1.1. 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 the degree in a branch of Engineering and Technology

F1.2 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 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 5th semester onwards.

F1.3 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 plans. The students can choose any approved course offered by any Department of the University.

F1.4 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 21[XX]2998 (XX represents the Department/Programme) can be a team effort and maximum of 4 UG students can form the team for this purpose.
- Project 21[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 the information regarding the options available along with the skill set required to all the students.

- **Industrial Training**:
  For UG programs, Training in a reputed Industry/Research lab for a period of two weeks will be given 0:0:1 credits (Course code: ITP2921, 2922,...) and for a period of four weeks will be given 0:0:2 credit (Course code: ITP2911, 2912,…).
  For PG programs, Training in a reputed Industry/Research lab for a period of four weeks will be given 0:0:2 credits (Course code: ITP3901, 3902) and for a period of two weeks will be given 0:0:1 credit (Course code: ITP3903, 3904).

- **Mini Projects**: For UG programs, individual Mini Project done for a duration of four weeks will be given 0:0:2 credits (Course code: MP2911, 2912,..) and for a period of two weeks will be given 0:0:1 credit (Course code: MP2921, 2922,…).

  For PG programs, Individual Mini Project done for a duration of four weeks will be given 0:0:2 credits (Course code: MP3951, 3952) and for a period of two weeks will be given 0:0:1 credit (Course code: MP3953,3954)

- **Summer Internship Program**: For UG programs, training in a reputed Industry/Research lab for a duration of four weeks will be given 0:0:2 credits (Course code: SIP2911,2912,…) and for a period of two weeks will be given 0:0:1 credit (Course code: SIP2921,2922,…)

  For PG programs, training in a reputed Industry/Research lab for a duration of four weeks will be given 0:0:2 credits (Course code: SIP3991,3992) and for a period of two weeks will be given 0:0:1 credit (Course code: SIP3993,3994)

- **Internship:** For UG programs, training in a reputed Industry/Research lab for a period of 45 working days will be given 0:0:6 credits (Course code: ISP2931, 2932,..), for a period of 4 weeks working days will be given 0:0:2 credits (Course code: ISP2911, 2912,..) and for a period of 2 weeks working days will be given 0:0:1 credit (Course code: ISP2921, 2922,..).

- For PG programs, training in a reputed Industry/Research lab for a period of 45 working days will be given 0:0:6 credits (Course code: ISP3997) , for a period of 4 weeks working days will be given 0:0:2 credits (Course code: ISP3995) and for a period of 2 weeks working days will be given 0:0:1 credits (Course code: ISP3996)

- **Project Preparation:** To help the students to identify industry relevant project works by going through Literature and by contacting industries/research organizations, Faculty members may give presentation to students explaining the details of the Project Works proposed by them.
  For UG program, Project preparation will have a credit of 0:0:1 and the course code will be PP2921, 2922,…
  For PG program, Project preparation will have a credit of 0:0:1 and the course code will be PP3911, PP3912,…

- **Comprehensive Practices:** To integrate the learning in different courses and enable the students to develop a holistic view, this module is developed. This exercise helps the students to enhance their knowledge using logical and analytical skills which ultimately helps them to assimilate concepts learnt in the classroom. Comprehensive Practices will have a credit of 0:0:1 and the course code will be CP2921(a credit of 0:0:1.5 for the course 18CSCP2922).

For UG Programs

S.No	Course	Credits	Course Code	Minimum 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	Minimum 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

F2. 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	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	25	15	3	8	15	2	2	70
3	Computer Science and Engineering	21	19	3	8	15	2	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
10	Environment and Water Resource Engineering.	25	15	3	8	15	2	2	70

F2.1. Professional core: The BoS on the recommendation of the CDC will prescribe a list of courses which are essential to obtain the 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 the information regarding the options available along with the skill set required to all the students.

F2.2. 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 credits from the list. The students are free to choose any elective course across any specialization.

F2.3. 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 the academic affairs.

TABLE 5 COURSES & CREDIT DISTRIBUTION FOR OTHER POSTGRADUATE PROGRAMS

S. No	Program	General	Basic Sciences / Basic Arts	Sciences and Technical Arts/Media Arts	Program Core	Professional Electives	Other Electives	Open elective/ Online* courses	Part Semester Project/ Miniproject	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			8	16	0	90
3	M. Sc. (Physics)				60	12	7		12		0	91
4	M. Sc. (Chemistry)				52	12	14/6		12/20			90
5	M.Sc. (Forensic Science)				52	12	14/6		12/20			90
7	M.Sc. (Information Security and Digital Forensics)				72	8			12	20		92
8	MBA	1			53	40		2	12+2			110
15	M.Sc (Applied Criminology)	2			60	8		1	20			91
16	M.Sc.(Clinical Phycology)				61	6/ 14	3			12/ 20		90

F3. M.A./M.Sc. and M.A./M.Sc. (Integrated) Programs
A student will be awarded M.Sc degree if he/she successfully complete the total number of academic credits prescribed for a regular degree as given in table 5.

F.4 MA PROGRAM

A student will be awarded MA (English) if he/she successfully completes the total number of academic credits prescribed for a regular degree which is 90 (Table 5).

F5. PG Diploma

A student will be awarded PG Diploma if he/she successfully complete the total number of academic credits prescribed for a regular degree which is 41 (Table 6).

F6. UG-Arts and Science Programs

The following UG programmes are offered by the university and their credit distribution shown in Table 7.

TABLE 6 COURSES & CREDIT DISTRIBUTION FOR PG DIPLOMA PROGRAM

Classification	No of Credits	Remarks
General	2	Value Education
Program Core	19	
Full Semester Project	20	To be registered in the final semester
Total	41	

Credits can also be earned by PG students as prescribed in F1.4

TABLE 7 COURSES & CREDIT DISTRIBUTION FOR UG ARTS & SCIENCE PROGRAMS

S. No	Program	General Core	Program Core	Allied/Basic Sciences	Electives	Part Semester Project	Full Semester Project	Mini Project/ Internship	Mandatory	Total
1	B.Sc. (Optometry)	14	106				40		3	163
2	B.Sc (Forensic Science)	15	83		21	12			5	136
	BBA	21	105			12		2		
4	B. Com (General)	24	107			12		4		147
5	~~B.Com. (PA)~~	~~27~~	~~97~~			~~12~~		~~4~~		~~140~~
6	~~B.Com (CA)~~	~~52~~	~~77~~			~~12~~		~~4~~		~~145~~
7	B.Com. (FT)	24	107			12		4		147
8	B.Com (Banking and Capital Market)	20	108			12		4		144
9	B.Sc. (Data Science and Analytics)	21	96		11	12				140
10	B.Sc. (Information Security and Digital Forensics)	21	96		11	12				140
11	B.Sc. Computer Science (Specialization in	21	93		11	12				137

	Artificial Intelligence)									
12	B.Sc. Computer Science (Specialization in Data Science and Analytics)	21	93		11	12				137
13	B.Sc. Visual Communication (Specialization in Multimedia and Animation)	21	96		11	12				140
14	BA (Criminology)	23	79		22	12		2		138

G. 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 class conducted for self-study courses. The Director/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 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.

H. 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 student should register with the Course Instructor before the commencement of the course, with permission of the Director/HoD. The student is expected to complete all the formality of internal and end semester assessment. No adjustment of Time Table 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.

I. 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.

I1. Number of Credits per Semester

The number of credits to be taken by an Under Graduate 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 lesser than the average number of credits.

I2. 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 had 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.

I3. 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.

I4. Re-registration

    a. A student who wishes to improve his/her grade shall be permitted to re-register for that particular course as and when it is offered

    b. Re-registration fees is Rs.5000/- per course. A student can re-register only during the stipulated period of study.

I5. Summer Course for Arrear Students

    a. In a particular course, if the number of students who wish to register for the summer course is ≥ 30, the course will be offered. The course duration will be 45 hours and the Course fee will be Rs. 5000. No Internal Assessment will be conducted.

    b. On completion of the Summer Course, the student shall appear for arrear exam. The student will be awarded 'P' grade if he/she scores minimum passing requirement in arrear exam.

J. 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 effected at the end of the semester.

- His/her conduct is found to be satisfactory as certified by the Director 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.

K. 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 (S, A, 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:

O – Outstanding (10), A$^+$– Excellent (9), A – Very Good (8) B$^+$ – Good (7), B – Above average (6) , C – Average (5), P – Pass (4) and 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**

Continuous Assessment	- 60
End semester examination	- 40
Total	- 100

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

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

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:**

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:**

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

(v) **For COMPREHENSIVE PRACTICES CP2921 the distribution of marks will be as under:**

Test 1 (Online MCQ test from Program Core courses of 3rd& 4th Semesters)	- 30
Test 2 (Online MCQ test from Program Core courses of 5th& 6th Semesters)	- 30
End Semester (Online MCQ test from Program Core courses of 3rd to 6th Semesters)	- 40
Total	-100

Every test may comprise of 70 MCQs in GATE pattern.Test 1 may be scheduled during regular time table before 35th working day. Test 2 may be scheduled before the 70th working day. End Semester Test will be conducted before 85th working day.

(vi) For PART SEMESTER PROJECT (PSP[2/3]998 / 18[XX] [2/3]998)the distribution will be as follows:

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

(vii) For FULL SEMESTER PROJECT (FSP[2/3]999 / 18[XX] [2/3]999)the distribution will be as follows:

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

L. CONTINUOUS ASSESSMENT

Continuous assessment (CA) marks will be awarded on the basis of 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 loss of marks. Instruction for the same is given separately.

M. 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 examination, normally in November and in April every year. The time table will be notified in advance.
- A student is permitted to withdraw the end semester examinations once during a programme under the following norms:
  o He / she meets the minimum attendance requirement
  o He / she should not have failed in any course/withdrawn even a single course earlier.
  o 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 KU to be appointed by the Director will conduct the end semester examination.

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

N. REVALUATION

The students are entitled 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.

O. 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 appearing students 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	$\geq 40\%$	$\geq 45\%$
3	$\geq 50\%$	$\geq 50\%$

*For integrated courses (eg. 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 in 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	$\geq 40\%$	$\geq 45\%$	Completed
3	$\geq 50\%$	$\geq 50\%$	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	$\geq 37\%$	$\geq 40\%$
3	$\geq 50\%$	$\geq 50\%$

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) $\geq$ 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 as '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

$$GPA = \frac{\sum (\text{No.of Credits} \times \text{Grade Point})}{\sum \text{No.of Credits}}$$

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 upto that stage.

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

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

P. 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**.**

Q. CLASSIFICATION OF AWARDS

i)   A student is awarded I 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 pass all subjects without arrears, he/she is eligible to get I 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.

R. COMMENDATION

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

S. 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

T. 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.

U. GENERAL

On all matters connected with their course work and the prescribed requirements for the Degree, the students are advised to seek the 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 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 loss of marks.

➢ The marks obtained in all components will be added and statistical method 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 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. Student 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*.

Level 1& 2	Marks	Level 3	Marks
3 Internal Tests @ 15 marks each	45	3 Internal Tests @ 15 marks each	45
Quality Assessment (5 marks-Online/MCQ test)	10	Quality Assessment	15
Attendance	5	End Semester Exam	40
End Semester Exam	40		
Total	100	Total	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 student will be allowed to write the 4th

c. IA test and the marks scored in this IA test will be considered for final IA marks calculation.

*For all UG programs offered by the School of Science, Arts, Media & Management, the distribution of marks for continuous assessment for the students admitted from the academic year 2018-19 onwards will be as follows:

Level 1& 2	Marks
Two Internal Tests @ 20 marks each (Best two out of three tests)	40
Quality Assessment (5 marks-MCQ test, 10 Marks – Assignments / Seminars / etc/),	15
Attendance	5
End Semester Exam	40
Total	100

2. 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

3. Question Pattern for Internal Test:
   1 & 2 Level Courses
   - 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.

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

5. **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 a 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 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/Director 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 a 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. Question Pattern for End Semester Exam: Five questions of 20 marks each for UG and PG with one compulsory question which will be asked from the syllabi covered from 37th to 45th lectures (for a 3 credit course except MBA). For MBA, the compulsory question will be from 29th to 36th lecture hours.

3. One common question paper will be used per course for all internal tests and end semester exam.

4. End Semester Question Paper Pattern:

Level 1 & 2 Courses
- Part A   : $10 \times 1 = 10$ Marks
- Part B   : $6 \times 3 =$ 18 Marks
- Part C   : $6 \times 12 = 72$ Marks   (Among 8 Any 6, with subdivisions)

Level 3 Courses
- $5 \times 16 = 80$ Marks(Among 7 Any 5, with subdivisions)
- One compulsory 1 x 20 = 20 Marks

LABORATORY COURSES

Practical

1. The faculty will prepare a list of experiments and get the approval of HoD / Director and notify the same before the commencement of the semester.

2. The list will consist of 12 experiments for a 1.5/2 credit 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 atleast 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 / Director for appointing an expert from KU.

4. The faculty and the expert appointed by the HoD / Director will conduct the end semester examination for 40 marks.

5. There will be a viva voce for 10 marks during the end semester examination conducted by the expert.

6. No student will be allowed to appear for end semester examination regular as well as arrear without the certified record book.

INDUSTRIAL TRAINING / MINI-PROJECT / INTERNSHIP / PART-SEMESTER PROJECT 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 / Director.

2. This assessment will be for 60 marks as per the policy.

3. Faculty who are associated with this activity along with an expert from KU to be appointed by the Director 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.