

**ACADEMIC REGULATIONS  
COURSE STRUCTURE  
AND  
DETAILED SYLLABUS**

**R23**

**For**

**B.TECH. FOUR YEAR DEGREE COURSE  
(Applicable for batches admitted from 2023-2024)**

**KiTS**

**KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES  
(AUTONOMOUS)  
VINJANAMPADU, VATTICHERUKURU MANDAL,  
GUNTUR-522017, ANDHRA PRADESH.**

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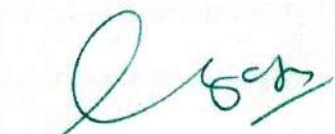
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## ACADEMIC REGULATIONS

### 1 INTRODUCTION

The second autonomous regulation (R23) of the KKR & KSR Institute of Technology and Sciences (Subsequently referred to as KITS) is formulated based on the guidelines of Andhra Pradesh State Council of Higher Education (APSCHE), Andhra Pradesh. Also, abide by the norms of Jawaharlal Nehru Technological University Kakinada, Kakinada. The Academic Council (AC) of this Institution has duly approved regulation R23.

- i. It is common for all undergraduate programs (B. Tech.) offered by the College with effect from the academic year 2023 – 24, and lateral entries will be admitted during 2024-25.
- ii. The institution offers a **B. Tech** degree with **Honors/Minor** to students who fulfill all the academic eligibility requirements for the regular and Honors/Minor programs. The objective is to provide additional learning opportunities to academically motivated students.
- iii. The regulations hereunder are subject to amendments made by the Institution's AC from time to time, keeping the Board of Studies (BOS) recommendations in view. The AC will decide the batches of students already undergoing the Programme applicable to these amendments.

### 2 ADMISSIONS

The admission procedure into all programs adheres to the norms approved by the Government of Andhra Pradesh State from time to time, and it is carried through two modes.

#### 2.1 Regular admission: (Join in the first year of B. Tech Programme)

A candidate who seeks admission into B. Tech Programme at a 1<sup>st</sup> year level should have passed either Intermediate Examination or Higher Secondary School (HSC), and those who fulfill the AICTE admission norms can get admission. The sanctioned intake of the Institution is filled through two categories:

**CATEGORY-A:** The seats under which files by the Convener, Andhra Pradesh Engineering, Agriculture and Medicine Common Entrance Test (AP-EAMCET).

**CATEGORY-B:** The Institution fills the seats as per the norms approved by the Government of Andhra Pradesh.

#### 2.2 Lateral Entry Admission: (Join in the second year of B. Tech Programme)

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A candidate who seeks admission into the B. Tech Programme at a direct 2<sup>nd</sup>-year level should have passed either a Diploma in Engineering in the relevant Programme of study or equivalent. The seats are filled by the Convener, Andhra Pradesh Engineering Common Entrance Test (AP-ECET).

### 2.3 Advanced standing Admission (Transfer from other Colleges/Readmission due to dis-continuation)

These may arise in the following cases:

- When a student seeks transfer from other colleges to KITS and desirous of pursuing the study at KITS in an eligible branch of study.
- When re-admitting a student into the same Programme due to detention, a change of regulation may happen.

In all such cases of admission, the statutory body permission's is to be obtained, and the transitory regulations will govern the Programme of study at KITS.

## 3 ACADEMIC PROGRAMMES

The Institution is offering B.Tech., Programme in the following disciplines:

- Computer Science and Engineering (CSE)
- Computer Science and Engineering (Artificial Intelligence) (CAI)
- Computer Science and Engineering (Data Science) (CSD)
- Computer Science and Engineering (Artificial Intelligence & Machine Learning) (CSM)
- Information Technology (IT)
- Electrical and Electronics Engineering (EEE)
- Electronics and Communication Engineering (ECE)

### 3.1 Programme Duration

The duration of an academic program shall be four years consisting of eight semesters. The program's period for lateral entry students who have admitted in 2<sup>nd</sup> year shall be three years consisting of six semesters.

#### 3.1.1 Maximum duration

The maximum period a student can take to complete a full-time academic program will be as follows:

- Regular admission:** Double the program's normal duration, i.e., eight academic years in sequence from the year of admission.
- Lateral entry admission:** Double the program's normal duration, i.e., six academic years in sequence from the year of admission.

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- c. **Advanced standing admission:** The maximum time for completion of the Programme of study will be between the period in terms of academic years in sequence, stipulated in the Programme curriculum defined at admission.

### 3.1.2 Cancellation of admission

Students who fail to fulfill all the academic requirements for the award of the degree within the prescribed duration as per article 3.1.1, will forfeit their admissions. However, for the students availing Gap year facility, this period shall be extended by two years at the most. These two years would be in addition to the maximum period permitted for graduation.

### 3.2 The medium of Instruction and Examination

The medium of instruction and examination is English.

### 3.3 Minimum Instruction Days

Each semester will consist of a minimum of 90 instruction days, excluding examination days and preparation holidays.

## 4 TRANSITORY REGULATIONS

For those who are admitted under advanced standing, these transitory regulations will provide the modus Operandi. At the time of such admission, based on the Programme pursued (case by case)

- The BOS of the concerned discipline establishes equivalent courses completed by the student.
- Marks/Credits are transferred for all such equivalent courses and treated as completed in the study prescribed by KITS.
- A Programme chart of residual courses not completed will be devised, and a Programme of study with the duration specified will be prescribed for pursuit at KITS.
- Marks obtained in the previous system shall be converted to equivalent grades and CGPA.

All other modalities and regulations governing shall be the same as those applicable to the stream of students with whom such a candidate is merged with current regulations.

## 5 ATTENDANCE REGULATIONS

- i. A student would be eligible to appear for end semester examinations if he/she acquired a minimum of 50% in each subject and 75% of attendance in aggregate of all the courses.

  
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- ii. The College Academic Committee may grant condonation of shortage of attendance in aggregate up to 10% on medical grounds (Above 65% and below 75%) in any semester.
- iii. Shortage of Attendance below 65% in aggregate shall not be condoned.
- iv. Students with less than 65% of attendance in any semester are not eligible to take up their end examination of that semester, and their registration shall stand canceled.
- v. Attendance may also be condoned for those who participate in Intercollegiate/university sports co, and extracurricular activities provided their attendance is in the minimum prescribed range for the purpose (>65%) and recommended by the concerned authority. He/ She shall pay the prescribed condonation fee.
- vi. The prescribed Condonation fee shall be payable by the student to appear for the end examination.
- vii. A Student will not be promoted to the next semester unless he/she satisfies the current semester's attendance requirement as applicable. They may seek readmission for that semester as and when offered consecutively by the Department.
- viii. A student will be condoned only four times for regular students and three times for lateral entry students during the entire study.

## 6 CURRICULUM FRAMEWORK

### 6.1 Prologue

KITS is committed to producing industry-ready, value-added bright engineering graduates through the enhanced curriculum, innovative teaching-learning process, excellent examination, and evaluation systems. Therefore, the curriculum is designed based on APSCHE's revised engineering curriculum-2020 and JNTUK, Kakinada academic regulation (R23), 2023-24. The curriculum feature is that the courses must cover the depth (Specialization) and breadth (Multidisciplinary) for the attainment of program outcomes have been included.

### 6.2 Course Structure

B. Tech Programme course structure of every specialization comprises required courses fall in the nine categories listed in Table I.

  
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**Table 1 Course Structure Components**

S. No.	Category	Code
1	Basic Science Courses	BSC
2	Humanities and Social Science Including Management Courses	HSMC
3	Engineering Science Courses	ESC
4	Professional Core Courses	PCC
5	Professional Elective Courses	PEC
6	Open Elective Courses	OEC
7	Internship, Project Work	PROJ
8	Mandatory Courses	MC
9	Skill Oriented/Advance Courses	SC
10	Honors Courses	HC
11	Minors Courses	MNC

#### 6.2.1 Basic Science Courses

The BSC's give a gateway to the freshman ship B.Tech graduates. It includes Physics, Chemistry, Mathematics, and Biology and its Laboratory practices. The Board of Study concern may recommend additional BSC to understand advanced courses in higher classes.

#### 6.2.2 Humanities and Social Science, Including Management Courses

HSMC's include technical English and communication skills, engineering economics, managerial & finance, and communication skills laboratory. Further, to understand human values and harmony, the humanities and social science elective course is facilitated in the VII Semester (Final Year).

#### 6.2.3 Engineering Science Courses

Engineering Science courses are the prerequisite course encompassing many different scientific principles and associated mathematics that underlie engineering. These courses have come across the first two years. The concerned BOS shall explore the possibility of the introduction of these courses and their practical component.

#### 6.2.4 Professional Core Courses

It consists of a set of courses considered necessary for the students of the specific program. The courses under this category satisfy the program-specific criteria prescribed by the appropriate professional societies. The BOS concern must verify the prerequisite course and

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sequence of the required courses for the professions to tackle the most demanding challenges and advance global society's well-being.

#### 6.2.5 Professional Elective Courses

The curriculum also gives the Institution flexibility in offering a variety of PEC's to the students of a particular discipline, which cover depth and breadth to broaden the student's knowledge. The students may register for appropriate electives offered in the program based on their area of interest. The BOS is empowered to identify as many tracks as possible in emerging technologies and industrial relevance.

#### 6.2.6 Open Elective Courses

The OEC's are offered across the programs to enhance the knowledge breadth in emerging areas/technologies and professional competency of the students in the job market. Each Department shall offer a minimum of four courses to choose from and indicate the maximum number of students allowed to register for each course subject to the faculty's availability. However, a student shall choose an OEC from the list so that he/she has not studied the same course in any form during the Programme.

**Note:** The College shall invite registration forms from the students at the beginning of the semester for offering professional and open elective courses. There shall be a limit on the minimum (not less than twenty) and the maximum number of registrations based on class/section strength.

#### 6.2.7 Internship, Project Work

- (i) Two summer internships either onsite or virtual each with a minimum of 08 weeks duration, done at the end of second and third years, respectively are mandatory.
- (ii) It shall be completed in collaboration with local industries, Govt. Organizations, construction agencies, Power projects, software MNCs or any industries in the areas of concerned specialization of the Undergraduate program.
- (iii) One of the two summer internships at the end of second year (**Community Service Project**) shall be society oriented and shall be completed in collaboration with government organizations/NGOs & others.
- (iv) The other internship at the end of third year is Industry Internship and shall be completed in collaboration with Industries.

- (v) The student shall register for the internship as per course structure after commencement of academic year.
- (vi) The guidelines issued by the APSCHE / University/Institution shall be followed for carrying out and evaluation of Community Service Project and Industry Internship.
- (vii) In the final semester, the student should mandatorily register and undergo internship (onsite/virtual) and in parallel he/she should work on a project with well-defined objectives.
- (viii) At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship.

#### 6.2.8 Mandatory Courses

In this curriculum, AICTE suggested courses such as Environmental Sciences, Universal Human Values, Ethics, Indian Constitution, and Essence of Indian Traditional Knowledge shall be included as non-credit mandatory courses. Out of which Environmental Sciences is mandated for all branches.


#### 6.2.9 Skill Oriented Courses

- Five skill-oriented courses are facilitated in this curriculum over the Programme from the 3<sup>rd</sup> semester onwards.
- Out of the five skill courses, two shall be skill-oriented courses from the same domain and completed in the second year.
- Of the remaining three skill courses, one shall necessarily be a soft skill course. The remaining two shall be skill-advanced courses either from the same domain or Job oriented skill courses, which can be interdisciplinary.
- The student shall be given an option to choose the skill courses offered by the College or a certificate course being offered by industries/Professional bodies/APSSDC or any other accredited bodies as approved by the concerned BOS.
- The BOS concern will review and update skill-oriented and skill advanced courses every year based on industrial demand and recommend a standard external agency to facilitate these courses.

#### 6.2.10 Honors/Minors Courses

  
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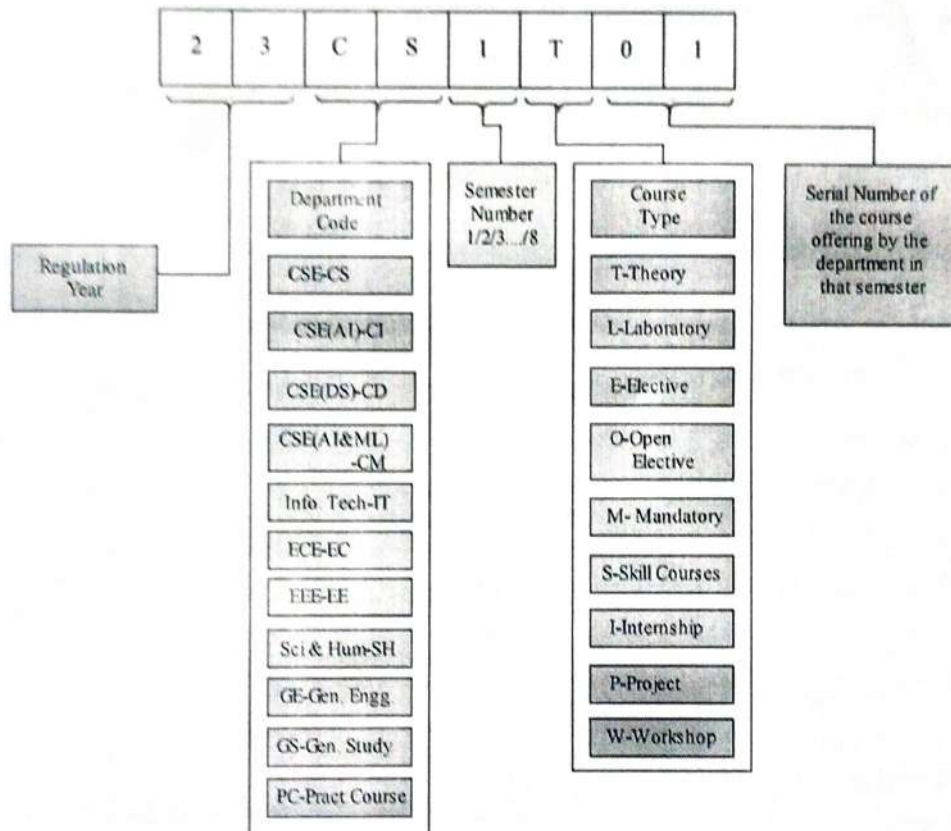
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These courses are offered across the programs to enhance the additional learning opportunities for academically motivated students. Eligibility criteria and selection procedures are described in the honors/minor's framework.

### 6.3 Course Code



### 6.4 Credit System

The curriculum is designed to acquire 160 credits for the regular programme and honors or minors; additionally, 15 credits must be earned. The credit distribution to the various courses is detailed.

#### 6.4.1 Credit definition

Credit means quantified and recognized learning. Credit is measured in terms of contact hours per week in a semester and is summarized in Table 2.

**Table 2** Credit and Contact Hour

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Course type	Contact hours	Credit
Theory	1	1
Tutorial	1	1
Practical	2	1

#### 6.4.2 Credit structure

A typical credit structure for coursework based on the above definition is given in Table3.

**Table 3 Credit and credit hour distributions**

Attribute	Instruction method			Credit (C)
	Lecture (L)	Tutorial (T)	Practical (P)	
Theory Course	3	0	0	3
	2	1	0	3
	3	1	0	4
	2	0	2	3
	2	0	0	2
Engineering Drawing / Workshop	1	0	4	3
Practical	0	0	2	1
	0	0	3	1.5
	0	0	4	2
Skill oriented course	1	0	2	2
Project	0	0	24	12

#### 7 CURRICULAR FRAMEWORK FOR HONORS PROGRAMME

- Students of a Department/Discipline are eligible to opt for Honors Programme offered by the same Department/Discipline.
- A student shall be permitted to register for Honors program at the beginning of 4<sup>th</sup> semester (II/II) provided that the student must have acquired a minimum of 8.0 SGPA up to the end of 2<sup>nd</sup> semester (I/II) without any backlogs. In case of the declaration of the 3<sup>rd</sup> semester (II/I) results after the commencement of the 4<sup>th</sup> semester and if a student fails to score the required minimum of 8 SGPA, his/her registration for Honors Programme stands cancelled and he/she shall continue with the regular Programme.
- Students can select the additional and advanced courses from their respective branch in which they are pursuing the degree and get an honors degree in the same. e.g., If an Electrical and Electronics Engineering student completes the selected advanced courses from same branch under this scheme, he/she will be awarded B.Tech. (Honors) in Electrical and Electronics Engineering.
- In addition to fulfilling all the requisites of a Regular B.Tech Programme, a student shall earn 15 additional credits to be eligible for the award of B. Tech (Honors) degree. This is

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in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e. 160 credits).

- v. Of the 15 additional Credits to be acquired, 12 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 3 credits. The remaining 3 credits must be acquired through MOOCs, which shall be domain specific. For 3 credits the student must complete 12 weeks course. If 2 credits can be given for 8 weeks course at the same time, he/she must complete 4 weeks theory or practical course to earn 1 credit. The concerned BOS will provide guidelines.
- vi. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course. The courses offered in each pool shall be domain specific courses and advanced courses.
- vii. The concerned BoS shall decide on the minimum enrolments for offering Honors program by the department. If minimum enrolments criteria are not met, then the students shall be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department in consultation with BoS.
- viii. Each pool can have theory as well as laboratory courses. If a course comes with a lab component, that component must be cleared separately. The concerned BoS shall explore the possibility of introducing virtual labs for such courses with lab component.
- ix. Attendance will not be monitored for MOOC courses. Students must acquire a certificate from the agencies approved by the BOS with grading or marks or pass/fail to earn 3 credits. If the MOOC course is a pass/fail course without any grades, the grade to be assigned will be as decided by the university/academic council.
- x. The concerned BoS shall also consider courses listed under professional electives of the respective B. Tech programs for the requirements of B. Tech (Honors). However, a student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.
- xi. If a student drops or is terminated from the Honors program, the additional credits so far earned cannot be converted into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and choose to omit the mention of the course as for the following: All the courses done under the dropped Honors will be shown in the transcript. None of the courses done under the dropped Honor will be shown in the transcript.
- xii. In case a student fails to meet the CGPA requirement for Degree with Honors at any point after registration, he/she will be dropped from the list of students eligible for

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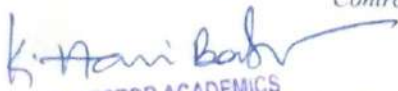
Degree with Honors and they will receive regular B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

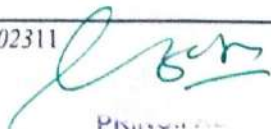
- xiii. Honors must be completed simultaneously with a major degree program. A student cannot earn Honors after he/she has already earned bachelor's degree.

## 8 CURRICULAR FRAMEWORK FOR MINOR PROGRAMME

- i. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in
  - (a) minor specialization groups offered by a department other than their parent department. For example, If Mechanical Engineering student selects subjects from Civil Engineering under this scheme, he/she will get Major degree of Mechanical Engineering with minor degree of Civil Engineering
  - (b) Industry relevant tracks of any branch to obtain the Minor Degree, for example, a B.Tech Mechanical student can opt for the industry relevant tracks like Data Mining track, IOT track, Machine learning track etc.
- ii. The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance / demand. For example, the minor tracks can be the fundamental courses in CSE, ECE, EEE, CE, ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Robotics, Electric vehicles, Robotics, VLSI etc.
- iii. The list of disciplines/branches eligible to opt for a particular industry relevant minor specialization shall be clearly mentioned by the respective BoS.
- iv. There shall be no limit on the number of programs offered under Minor. The Institution can offer minor programs in emerging technologies based on expertise in the respective departments or can explore the possibility of collaborating with the relevant industries/agencies in offering the program.
- v. The concerned BoS shall decide on the minimum enrolments for offering Minor program by the department. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department in consultation with BoS.
- vi. A student shall be permitted to register for Minors program at the beginning of 4<sup>th</sup> semester (II/II) subject to a maximum of two additional courses per semester, provided that the student must have acquired 8 SGPA (Semester Grade point average) up to the end of 2<sup>nd</sup> semester (I/II) without any history of backlogs. It is

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expected that the 3<sup>rd</sup> semester (II/I) results may be announced after the commencement of the 4<sup>th</sup> semester (II/II). If a student fails to acquire 8 SGPA up to 3<sup>rd</sup> semester (II/I) or failed in any of the courses, his registration for Minors program shall stand cancelled. An SGPA of 8 must be maintained in the subsequent semesters without any backlog to keep the Minors registration active.

- vii. A student shall earn an additional 15 credits in the specified area to be eligible for the award of B. Tech degree with Minor. This is in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e., 160 credits).
- viii. Out of the 15 Credits, 12 credits shall be earned by undergoing specified courses listed by the concerned BoS along with prerequisites. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course. If a course comes with a lab component, that component must be cleared separately. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.
- ix. In addition to the 12 credits, students must pursue at least 3 credits through MOOCs. For 3 credits the student must complete 12 weeks course. If 2 credits can be given for 8 weeks course at the same time, he/she must complete 4 weeks theory or practical course to earn 1 credit. The concerned BOS will provide guidelines.
- x. Attendance will not be monitored for MOOC courses. Students must acquire a certificate from the agencies approved by the BOS with grading or marks or pass/fail to earn 3 credits. If the MOOC course is a pass/fail course without any grades, the grade to be assigned as decided by the university/academic council.
- xi. Students can opt for the industry relevant minor specialization as approved by the concerned departmental BoS. Student can opt for the courses from Skill Development Corporation (APSSDC) or can opt the courses from an external agency recommended and approved by concerned BOS and should produce course completion certificate. The Board of studies of the concerned discipline of Engineering shall review such courses being offered by eligible external agencies and prepare a fresh list every year incorporating the latest skills based on industrial demand.
- xii. A committee should be formed at the level of college/department to evaluate the grades/marks given by external agencies to a student which are approved by concerned BoS. Upon completion of courses the departmental committee should convert the obtained grades/marks to the maximum marks assigned to that course.

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The controller of examinations can take a decision on such conversions and may give appropriate grades.

- xiii. If a student drops (or terminated) from the Minor program, they cannot convert the earned credits into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and choose to omit the mention of the course as for the following:
- xiv. All the courses done under the dropped Minors will be shown in the transcript. None of the courses done under the dropped Minor will be shown in the transcript.
- xv. In case a student fails to meet the CGPA requirement for B.Tech degree with Minor at any point after registration, he/she will be dropped from the list of students eligible for degree with Minors and they will receive B. Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- xvi. Minor must be completed simultaneously with a major degree program. A student cannot earn the Minor after he/she has already earned bachelor's degree.

## 9 EXAMINATION AND EVALUATION

To evaluate a student's performance, the Institution conducts a well-structured continuous assessment and end-semester examination for thirty (30) and seventy (70) marks, respectively, for theory and practical courses.

### 9.1 Continuous Assessment and Internal mark

#### 9.1.1 Theory course with five units

The continuous assessment of a theory course is to be performed through two cycles in a semester.

- (i) Each course consists of five units.
- (ii) Each cycle covers two and a half units.
- (iii) There shall be two assignment tests and two mid-semester examinations.
- (iv) Each cycle considers one assignment test and one mid-semester examination.
- (v) Each assignment test will be conducted for ten marks (10) of 45 minutes duration by the course lecturer concern and is scaled to 5 Marks.
- (vi) The first assignment test will be conducted for the first one and half units whereas, the second assignment will be conducted for the remaining third and fourth units.
- (vii) The chief controller of the Examination conducts the mid-semester examinations.

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- (viii) Mid-semester-I examination covers units-I, II, and half of III, whereas Mid-semester-II examination covers the remaining half of unit-III and Units-IV and V.
- (ix) Each Mid-semester Examination is conducted for weightage of twenty-five (25) marks with 110 minutes. Mid-semester question paper comprises Part-A with five short questions carrying two marks each and weighing ten (10) marks. Whereas Part-B contains three questions with internal choice and carries a total of thirty (30) marks. The marks obtained in Part-B are condensed to fifteen (15) marks.
- (x) Each cycle weightage is thirty (30) marks, i.e., the assignment tests mark of scaled five marks (05) plus mid-semester marks of twenty-five (25).
- (xi) Any number after the decimal point shall be rounded off into a higher integer.
- The internal mark is the **weighted sum of two cycles**, i.e., weightage of 80% of the best cycle performance and 20% of the second. A case study is illustrated in Table 4

**Table 4 Internal Mark Assessment (Example)**

Continuous Assessment and Internal mark								
Cycle-1			Cycle-2			80% of (F) the best cycle (G)	20% of (C) the lowermost (H)	Internal mark 30 (I= G+H)
Assig. Test-I 05(A)	Mid-Sem-1 25(B)	Total Mark 30 (C=A+B)	Assig. Test-II 05(D)	Mid-Sem-2 25(E)	Total Mark 30 (F=D+E)			
3	22	25	05	25	30	24	5	29

- Note-1:** If any course contains two different specializations, the syllabus for each specialization consists of three units. The evaluation procedures as follows:
- In clause 9.1.1 (vi) the second assignment test will be conducted for the fourth unit and half of the fifth unit.
  - Also, 9.1.1 (viii) first mid semester-I examination will be conducted for the first three units whereas, mid semester-II examination will be conducted for remaining three units.
  - Likewise, 9.1.1 (ix) Part-B contains three questions with internal choice and each carry 10 marks and weighed a total of thirty (30) marks. The marks obtained in Part-B are condensed to fifteen (15) marks.

**Note-2:** If the student is absent for the mid semester examination, no re-exam shall be conducted and mid semester marks for that examination shall be considered as zero.

#### 9.1.2 Practical course

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The student will be assessed by the course lecturer's concern, like the end practical examination of seventy (70) and scaled into fifteen (15) marks. The weightage for other assessments is listed in Table 5 (a).

**Table 5 (a) Internal Mark Distribution for Practical Course**

S. No.	Activity	Mark
1	Day-to-day Evaluation	10
2	Record	05
3	Internal Assessment	15
<b>Internal mark</b>		<b>30</b>

## 9.2 End Semester Examination

### 9.2.1 Theory course with five units

- The end-semester examination will be conducted with the entire syllabus of a course for seventy (70) marks.
- There shall be six (6) questions and all questions are compulsory.
- Question 1 shall contain ten (10) compulsory short answer questions for a total of 20 marks such that each question carries 2 marks.
- There shall be two short answer questions from each unit.
- In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each. Students shall answer any one of them.
- The questions from 2 to 6 shall be set by covering one unit of the syllabus for each question.
- A student must secure not less than 35% of marks in the end semester examination and a minimum of 40% of marks in the total of internal and end semester examination marks to earn the credits allotted to each course.

### 9.2.2 Theory course with six units

If any course contains two different specializations, the syllabus for each specialization consists of three units. The evaluation procedures as follows.

- The end-semester examination will be conducted with the entire syllabus of a course for seventy (70) marks.
- There shall be seven (7) questions and all questions are compulsory.
- Question 1 shall contain ten (10) compulsory short answer questions for a total of 10 marks such that each question carries 1 mark. There shall be five (5) questions from each specialization.



- In each of the questions from 2 to 7, there shall be either/or type questions of 10 marks each. Students shall answer any one of them.
- The questions from 2 to 4 shall be set by covering first specialization of syllabus and questions from 5 to 7 shall be set by covering second specialization of syllabus.
- A student must secure not less than 35% of marks in the end semester examination and a minimum of 40% of marks in the total of internal and end semester examination marks to earn the credits allotted to each course.

### 9.2.3 Practical course

- The end practical examination shall be conducted for seventy (70) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voic is the external examiner's sole decision.

**Table 5 (b) External Mark Distribution for Practical Course**

S. No.	Activity	Mark
1	Procedure	20
2	Experimental work	20
3	Results	20
4	Viva-voice	10
<b>External marks:</b>		<b>70</b>

**Note:** If any subject has both theory and laboratory practical components, they will be evaluated separately as theory subject and practical subject. However, they will be given same subject code with an extension of 'T' for theory subject and 'L' for practical subject.

### 9.3 Evaluation of Design or Engineering Graphics

For the subject having design or Engineering Graphics, the distribution shall be thirty (30) marks for internal evaluation and seventy (70) marks for the final examination. The assessment procedure is as follows,

- There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for thirty (30) marks for 90 minutes and scaled into fifteen (15) marks.
- There shall be day-to-day work, and the concerned course lecturer about awarding fifteen (15) marks.

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- iii. The internal mark is the weighted sum of two mid-semester Examinations, i.e., weightage of 80% of the best cycle performance and 20% of the second plus day-to-day evaluation.

The end examination contains five questions with internal choice from each unit and carries an equal mark.

#### 9.4 Evaluation of Engineering Workshop

##### 9.4.1 Internal Evaluation

- The student will be assessed by the course lecturer's concern, like the end practical examination of seventy (70) and scaled into fifteen (15) marks. The weightage for other assessments is listed in Table 6.

**Table 6 (a) Internal Mark Distribution for Workshop**

S. No.	Activity	Mark
1	Day-to-day Evaluation	10
2	Record	05
3	Internal Assessment	15
<b>Internal mark</b>		<b>30</b>

##### 9.4.2 External Evaluation

- The end practical examination shall be conducted for seventy (70) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voice is the external examiner's sole decision.

**Table 6 (b) External Mark Distribution for Workshop**

S. No.	Activity	Mark
1	Procedure	20
2	Experimental work	20
3	Results	20
4	Viva-voice	10
<b>External marks:</b>		<b>70</b>

#### 9.5 Evaluation of Mandatory Courses

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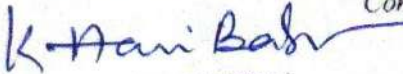
- There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for thirty (30) marks for 90 minutes.
- Mid-semester examination-1 covers units I, II, and half of III, whereas mid-semester examination-2 covers the remaining half of unit-III and Units-IV and V.
- The final mark is the **sum of two** mid-semester examinations.
- A student must secure 40% of the marks allotted in the internal evaluation for passing the course.
- No marks or letter grades shall be allotted for all mandatory non-credit courses. However, attendance shall be considered while calculating aggregate attendance.
- No supplementary examination.
- In case, the student fails, a re-examination shall be conducted for failed candidates for 30 marks subjected to the institution examination reform policy.

## 9.6 Evaluation of Internship

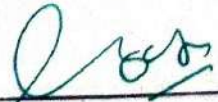
### 9.6.1 Summer Internship's

- After completing the summer internship, the students shall register in the immediate respective odd semester. It will be evaluated at the end of the semester, along with an external laboratory examination.
- At the time of registration, the student must produce the summer internship satisfactory report and certificate taken from the organization to be considered for evaluation.
- A student will be required to submit a summer internship report to the concerned Department and appear for an oral presentation before the departmental committee.
- The departmental committee consists of Head of the Department; mentor/supervisor of the internship; and a senior faculty member of the Department.
- The report and the oral presentation shall carry 50% weightage each. It shall be evaluated for hundred (100) marks. There shall be no internal marks for Summer Internship.
- A student shall secure a minimum of 40% of marks for successful completion. If a student fails, he/she shall reappear as and when the Institution conducts semester supplementary examinations.
- Completion of internships is mandatory. If any student fails to complete an internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

### 9.6.2 Final Semester Internship

  
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- In the final semester, the student may undergo an internship, and parallelly he/she should work on a project with well-defined objectives.
- At the end of the semester, the candidate shall submit an internship completion certificate and a project report.
- A student shall also submit a project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.

## 9.7 Evaluation Skill Oriented/Advance Courses

### 9.7.1 Course offered by the Department.

- Students must register for the course as per the Institution's policy in the event of a skill-oriented/advanced course offered by the department/institution.
- The department/institution conducts it along with regular courses upon resource person availability.
- Other hand, the Institution/Department can collaborate with Industries / Professional bodies or any other accredited bodies to develop the course content and the same course to be conducted not less than thirty (30) contact hours.
- There shall be a continuous assessment for thirty (30) marks. The student must submit weekly/module-wise assignments and submit them as a final report.
- There shall be an end evaluation for seventy (70) marks by the internal evaluator appointed by the chief controller examination.
- The student has to re-register for the course when offered subsequent if he/she fails to fulfill the attendance and End Examination marks requirement.

### 9.7.2 Course offered by an external agency.

- The Department shall mark the student's attendance for the remaining courses in that semester, excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the concerned Board of Studies.
- The student is deemed to have fulfilled the course's attendance requirement and acquire the credits assigned to the course.
- The credits shall be awarded to the student upon producing the Course Completion Certificate from the agency/professional bodies as approved by the Board of studies.
- A committee shall be formed at the College level to evaluate the grades/marks given for a course by external agencies and convert them to equivalent marks/grades.

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- Therecommended conversions and appropriate grades/marks are to be approved by theUniversity/Academic Council.

## 9.8 Evaluation of Project Work

The project work will be evaluated internally for sixty (60) marks whereas, the end evaluation carries one hundred forty (140) marks.

### 9.8.1 Internal Assessment

Project ReviewCommittee (PRC) will monitor the internal assessment. PRC consists of the Head ofthe Department, Project-coordinator, Supervisor, and Senior faculty member. The assessment is based onthe day-to-day assessment by the supervisor and two reviews conducted by the PRC.

**Table 7** Mark Distribution for Project Internal Evaluation

S. No.	Activity	Mark
1	Review-1	20
2	Review-2	20
3	Review-3	20
<b>Internal mark</b>		<b>60</b>

### 9.8.2 End evaluation

The final project evaluation committee comprises the Head of the Department, Supervisor concern, and external examiner duly appointed by the Chief Controller of examination from a panel examiner list.The committee will prepare an evaluation scheme for one hundred forty (140) marks, including a project report, and may ask the student to demonstrate using PowerPoint presentation followed by viva-voice for critical evaluation.

## 10 GRADE POINTS AND AWARD OF CLASS

The student will be awarded an equivalent grade point on a ten-point scale and a grade letter to each course based on the mark secured in that range shown below.

### 10.1 Grading of Theory Courses

**Table 8**Grade Point and its Equivalent Grade letter for TheoryCourses

Marks Range#	Grade Point	Grade Letter	Level
≥ 90	10	S	Superior
80-89	9	A	Excellent
70-79	8	B	Very Good
60-69	7	C	Good
50-59	6	D	Average

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40-49	5	E	Pass
< 40	0	F	Fail
-	0	AB	Absent

# For Project it is percentage (%) of marks secured out of 200 marks.

### 10.2 Semester Grade Point Average (SGPA)

- Suppose credit of the  $i^{\text{th}}$  course is  $C_i$  and grade point of that course is  $G_i$ . Then SGPA is,

$$SGPA = \frac{\sum(C_i * G_i)}{\sum C_i}; i \in n$$

- Where  $n$  is the number of courses in that semester

### 10.3 Cumulative Grade Point Average (CGPA)

- Suppose the total credit of the  $j^{\text{th}}$  Semester is  $STC_j$ , and that semester SGPA is  $S_j$ . Then CGPA is,

$$CGPA = \frac{\sum(STC_j * S_j)}{\sum STC_j}; j \in m$$

- Where  $m$  is the number of semesters in the Programme
- Overall percentage equivalent to CGPA as per AICTE regulations is,

$$\text{Overall percentage} = (CGPA - 0.5) * 10\%$$

#### Note:

- Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
- While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.

### 10.4 Award of Class

- A student will be awarded B.Tech. Degree upon fulfillment of the requirement of the award of degree in the respective discipline.
- He/she shall be placed in one of the following classes.

**Table 9** Classification of Award of Class

CGPA Secured	: Class Awarded
$\geq 7.50$	: First Class with Distinction* (Without any supplementary appearance)
$\geq 6.50 < 7.50$	: First Class

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$\geq 5.50 < 6.50$	: Second Class
$\geq 5.0 < 5.50$	: Pass Class

\*They are awarded if all the credit courses prescribed are cleared in a single attempt within four years for regular candidates and three years for lateral entry candidates.

\*Detained and break-in study candidates are not eligible for the award of First Class with Distinction.

## 11 PROMOTION RULES

- A student shall be promoted from the first year to the second year if he/she fulfills the minimum attendance requirements.
- A student will be promoted from IV to V semester only if he/she fulfills the academic requirements of 40% of the credits up to semester IV from all the examinations (regular and supply) whether or not the candidate takes the examinations.
- A student will be promoted from VI to VII semester only if he/she fulfills the academic requirements of 40% of the credits up to semester VI from all the examinations (regular and supply) whether or not the candidate takes the examinations.

*Note: Any decimal fraction should be rounded off to lower digit*

- The procedure described above is illustrated in the Table shown below.

**Table 10** Promotion Rule Summary

Semester Promotion		Promotion Criteria	No. of credits	
From	To		Regular	Lateral Entry
I	II			
II	III	Minimum Attendance requirement	---	---
III	IV			
IV	V	Minimum Attendance requirement & 40% of the credits up to the 4 <sup>th</sup> Semester		
V	VI	Minimum Attendance requirement	---	---
VI	VII	Minimum Attendance requirement & 40% of the credits up to the 6 <sup>th</sup> Semester		

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VII	VIII	Minimum requirement	Attendance	---	---
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## 12 AWARD OF THE DEGREE

This clause shall be read along with section 3.1.2 and 23. A student will be declared eligible for the award of B. Tech. Degree if he/she fulfills the following:

- **Regular Admission:** Pursue a course of study in not less than four and not more than eight academic years.
- **Lateral Entry:** Pursue a course of study in not less than three and not more than six academic years.
- **Regular Admission:** Registers for 160 credits and must secure all the 160 credits.
- **Lateral Entry:** Registers for 121 credits and must secure all the 121 credits.
- Registered and completed all the components prescribed in the Programme of study in which he/she is admitted.
- All mandatory courses must be completed with satisfaction.
- Obtained CGPA greater than or equal to 4.0 (minimum requirements for a pass).

## 13 WITHHOLDING OF RESULTS

- A student's semester result will be withheld in such cases that he/she must satisfy the articles discussed in 9.6.1 and 9.7.1.
- Suppose any case of malpractice or indiscipline is pending against a student. In that case, that student's result will be withheld, and he/she will not be allowed to enter the next semester, or the degree will be withheld (whichever applicable).

## 14 REVALUATION

- As per the notification issued by the Chief Controller of Examinations, the students can submit the applications for revaluation, along with the requisite fee receipt for revaluation of his/her answer script(s) of theory course(s), if he/she is not satisfied with marks obtained.
- The Controller of Examinations shall arrange for a re-evaluation of those answer script(s).
- Other than the first examiner, a new external examiner shall re-evaluate the answer script(s).
- Better marks between the two will be taken into consideration.

## 15 SUPPLEMENTARY EXAMINATIONS

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- A Supplementary Examination will be conducted along with regular semester-end examinations. A student can appear in any number of supplementary examinations for a course till he/she pass that course. However, the maximum stipulated period of the program cannot be relaxed under any circumstance.
- The examinations' set of the sequence will be odd semester (I, III, V, and VII) and Even Semester (II, IV, VI, and VIII).

#### 16 ADVANCED SUPPLEMENTARY EXAMINATIONS

- A candidate who remains backlogcourse (s) in the VII semesters alone at the time of VIII semester result publication can appear for Advanced Supplementary Examinations.
- Candidate(s), who fails in Theory courses of VII semester, can appear for the advanced supplementary examination conducted within one month after the result's declaration.
- However, those candidates that fail in the advanced supplementary examinations shall appear for subsequent examinations along with regular candidates.

#### 17 MASSIVE OPEN ONLINE COURSES (MOOCs):

- A Student must pursue and complete one course compulsorily through MOOCs approved by the Institution.
- A student can pursue courses other than core through MOOCs and it is mandatory to complete one course successfully through MOOCs for awarding the degree. A student is not permitted to register and pursue core courses through MOOCs.
- A student shall register for the course (Minimum of either 8 weeks or 12 weeks) offered through MOOCs with the approval of Head of the Department.
- The Head of the Department shall appoint one mentor to monitor the student's progression. The student needs to earn a certificate by passing the exam.
- The student shall be awarded the credits assigned in the curriculum only by submission of the certificate. The examination fee, if any, will be borne by the student.
- Students who have qualified in the proctored examinations conducted through MOOCs platform can apply for credit transfer as specified and are exempted from appearing internal as well as external examination (for the specified equivalent credit course only) conducted by the Institution.

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- (vii) Necessary amendments to the rules and regulations regarding adoption of MOOC courses would be proposed from time to time.

## 18 CREDIT TRANSFER POLICY

Adoption of MOOCs is mandatory, to enable Blended model of teaching-learning as also envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the Institution shall allow up to a maximum of 20% of the total courses being offered in a particular programme i.e., maximum of 32 credits through MOOCs platform.

- i. The Institution shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses.
- ii. Student registration for the MOOCs shall be only through the respective department of the institution, it is mandatory for the student to share necessary information with the department.
- iii. The credit transfer policy will be applicable to the Professional & Open Elective courses only.
- iv. The concerned department shall identify the courses permitted for credit transfer.
- v. The institution shall notify at the beginning of semester the list of the online learning courses eligible for credit transfer.
- vi. The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.
- vii. The institution shall ensure no overlap of MOOC exams with that of the university examination schedule. In case of delay in results, the institution will re-issue the marks sheet for such students.
- viii. Students pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.
- ix. The institution shall submit the following to the examination section of the Institution:
  - a) List of students who have passed MOOC courses in the current semester along with the certificate of completion.
  - b) Undertaking form filled in by the students for credit transfer.
- x. The Institution shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

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**Note:** Students shall be permitted to register for MOOCs offered through online platforms approved by the BOS/Academic Council from time to time.

## 19 ACADEMIC BANK OF CREDITS (ABC)

The Institution has implemented Academic Bank of Credits (ABC) to promote flexibility in curriculum as per NEP 2020 to

- (i) provide option of mobility for learners across the universities of their choice
- (ii) provide option to gain the credits through MOOCs from approved digital platforms.
- (iii) facilitate award of certificate/diploma/degree in line with the accumulated credits in ABC
- (iv) execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.

## 20 MULTIPLE ENTRY / EXIT OPTION

### 20.1 Exit Policy

The students can choose to exit the four-year programme at the end of the first /second/third year.

- i. **UG Certificate in (Field of study/discipline)** - Programme duration: First year (first two semesters) of the undergraduate programme, 40 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.
- ii. **UG Diploma (in Field of study/discipline)** - Programme duration: First two years (first four semesters) of the undergraduate programme, 80 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.
- iii. **Bachelor of Science (in Field of study/discipline) i.e., B.Sc. Engineering in (Field of study/discipline)**- Programme duration: First three years (first six semesters) of the undergraduate programme, 120 credits.

### 20.2 Entry Policy

Modalities on multiple entry by the student into the B.Tech. programme will be provided in due course of time.



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**Note:** The Institution shall resolve any issues that may arise in the implementation of Multiple Entry and Exit policies from time to time and shall review the policies in the light of periodic changes brought by UGC, AICTE and State government.

**21 READMISSION CRITERIA**

- A candidate detained in a semester due to lack of attendance/credits must apply for readmission into the same semester when the Institution offers.
- The Principal will review the application, and the candidate can be permitted to rejoin after duly fulfilling all the required norms stipulated by the College.
- Besides, the candidate must pay an administrative fee as decided by the Institution.

**22 BREAK IN STUDY**

- Student, who discontinues the studies for whatever may be the reason has to apply for readmission into the appropriate semester of B.Tech Programme after break-in study.
- The Principal will review the application, and the candidate might be permitted as per the transitory regulations applicable to such batch in which he/she joins.
- Besides, the candidate must pay an administrative fee decided by the Institution to be condoned each year.


**23 GAP - YEAR**

- The gap-year facility concept is extended to outstanding students. They wish to pursue entrepreneurship during their course of study with a break of one or two years after the 4<sup>th</sup> semester.
- An evaluation committee at the institution level shall be constituted to evaluate the student's proposal, and the committee shall decide on permitting the student to avail the gap-year.
- The maximum extent is two years, and these two years would not be counted for the maximum period of graduation.
- However, he/she deserves to award the degree in first class with distinction if all the credit courses prescribed are cleared in a single attempt within four years for regular candidates and three years for lateral entry candidates excluding gap-year upon fulfillment of article 10.4
- The gap year facility ensures syllabus continuity when joining back and after an incubator's appraisal process where the student is attached.



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- Students who have availed of gap-year facility should follow transitory regulations.

#### 24 STUDENT INDUCTION PROGRAM

There shall be a mandatory student induction program for freshers, with a three-week duration before the first semester's commencement. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Department/Branch & Innovations shall be included in the guidelines issued by AICTE.

#### 25 STUDENT PRACTICE COURSES

Student Practice Courses are aimed at improving their professional competency. A student shall participate and complete any one activity successfully.

- In 25.1 and 25.2
- From 25.3 to 25.6 as given below, before completion of the 6<sup>th</sup> semester. The concerned Programme/Department coordinator must verify the document provided by the students.

##### 25.1 National Cadet Corps (NCC)/National Service Scheme (NSS)

- All undergraduate students shall register for NCC/NSS activities. A student will be required to participate in an activity for two hours a week during the second and third semesters.
- The grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet based on participation, attendance, performance, and behavior.
- If a student gets an unsatisfactory grade, he/she shall repeat the above activity in the subsequent years to complete the degree requirements.

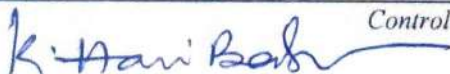
##### 25.2 Co-curricular Participation

A student should have participated in Technical Quizzes/Student paper contest/Seminars/Technical Events, etc., approved by the Department.

##### 25.3 Games and Sports

The potential student will be motivated to participate in the Institution, University, Zonal, State Levels, and above competitions.

The Institution will facilitate the "Fit India Campaign" to fulfill the vision, mission, and goal of the Fit India Movement.



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#### 25.4 Art and Cultural

The interested student will be encouraged to participate in the Institution, University level, and above competitions.

#### 25.5 Competitions

The student should have participated in competitions conducted by Professional Societies (IEEE, IETE, ASME, IE, CSI) in the College or conducted by the other Colleges.

#### 25.6 Publication

The student is provisioned publish a paper in Conference or Journal/ Certifications from Industry as approved by the Head of the Department.

#### 26 CONDUCT AND DISCIPLINE

Students admitted to KITS must abide by the code of conduct and discipline of the College and which will be updated from time to time.

#### 27 MALPRACTICES

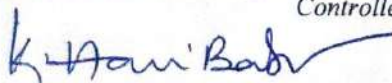
- If any student involves malpractices in internal assessment tests or Semester-End Examinations, the Principal constitutes a Malpractice Enquiry Committee to enquire the case.
- The Principal shall take necessary action based on the recommendations of the committee as per stipulated norms.

#### 28 GENERAL

- Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- The academic regulation should be read as a whole for any interpretation.
- In case of any doubt or ambiguity in interpreting the above rules, the Principal's decision is final and ratified by the Governing Body's Chairman.
- The College may change or amend the academic regulations or syllabi at any time. The changes or amendments made shall apply to all the students with effect from the dates notified by the College.

#### 29 AMENDMENTS TO REGULATIONS

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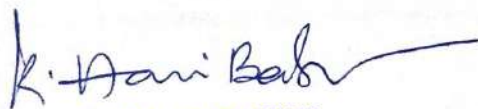
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The Academic Council may, from time to time, revise, amend or change the regulations, schemes of examination, and syllabi.

**Oratory**  
**PRINCIPAL**

**DIRECTOR (ACADEMICS)**



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# ACADEMIC REGULATIONS

R20

For  
**B.TECH. FOUR YEAR DEGREE COURSE**  
(Applicable for batches admitted from 2020-2021)

# KITS

**KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(AUTONOMOUS)  
VINJANAMPADU, VATTICHERUKURU MANDAL,  
GUNTUR-522017, ANDHRA PRADESH.

*K. Hari Babu*  
DIRECTOR ACADEMICS

KKR & KSR Institute of Technology & Sciences  
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## ACADEMIC REGULATIONS

### 1. INTRODUCTION

The first autonomous regulation (**R20**) of the KKR & KSR Institute of Technology and Sciences (**Subsequently referred to as KITS**) is formulated based on the guidelines of Andhra Pradesh State Council of Higher Education (APSCHE), Andhra Pradesh. Also, abide by the norms of Jawaharlal Nehru Technological University Kakinada, Kakinada. The Academic Council (AC) of this Institution has duly approved the regulation **R20**.

- i. It is common for all undergraduate programs (B. Tech.) offered by the College with effect from the academic year **2020 – 21**, and lateral entries will be admitted during **2021-22**.
- ii. The institution offers a **B. Tech** degree with **Honors/Minor** to students who fulfill all the academic eligibility requirements for the regular and Honors/Minor programs. The objective is to provide additional learning opportunities to academically motivated students.
- iii. The regulations hereunder are subject to amendments made by the Institution's AC from time to time, keeping the Board of Studies (BOS) recommendations in view. The AC will decide the batches of students already undergoing the Programme applicable to these amendments.

### 2. ADMISSIONS

The admission procedure into all programs adheres to the norms approved by the Government of Andhra Pradesh State from time to time, and it is carried through two modes.

#### 2.1 Regular admission: (Join in the first year of B. Tech Programme)

A candidate is seeking admission into B. Tech Programme at a 1st-year level should have passed either Intermediate Examination or Higher Secondary School (HSC), and also those who fulfill the AICTE admission norms can get admission. The sanctioned intake of the Institution is filled through two categories:

**CATEGORY-A:** The seats under which files by the Convener, Andhra Pradesh Engineering, Agriculture and Medicine Common Entrance Test (AP-EAMCET).

**CATEGORY-B:** The Institution fills the seats as per the norms approved by the Government of Andhra Pradesh.

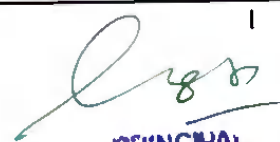
#### 2.2 Lateral Entry Admission: (Join in the second year of B. Tech Programme)

A candidate is seeking admission into B. Tech Programme at a direct 2<sup>nd</sup>-year level should have passed either Diploma in Engineering in the relevant Programme of study or equivalent. The seats are filled by the Convener, Andhra Pradesh Engineering Common Entrance Test (AP-ECET).

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### 2.3 **Advanced standing Admission (Transfer from other Colleges/Readmission due to dis-continuation)**

These may arise in the following cases:

- When a student seeks transfer from other colleges to KITS and desirous of pursuing the study at KITS in an eligible branch of study.
- When re-admitting a student into the same Programme due to detention, a change of regulation may happen.

In all such a case of admission, the statutory body permission's is to be obtained, and the transitory regulations will govern the Programme of study at KITS.

## 3. **ACADEMIC PROGRAMMES**

The Institution is offering B.Tech., Programme in the following disciplines:

- i. Computer Science and Engineering (CSE)
- ii. Computer Science and Engineering (Artificial Intelligence) (CAI)
- iii. Computer Science and Engineering (Data Science) (CSD)
- iv. Computer Science and Engineering (Artificial Intelligence& Machine Learning) (CSM)
- v. Information Technology (IT)
- vi. Electrical and Electronics Engineering (EEE)
- vii. Electronics and Communication Engineering (ECE)

### 3.1 **Programme Duration**

The duration of an academic program shall be four years consisting of eight semesters. The program's period for lateral entry students who have admitted in 2<sup>nd</sup> year shall be three years consisting of six semesters.

#### 3.1.1 **Maximum duration**

The maximum period a student can take to complete a full-time academic program will be as follows:

- a. **Regular admission:** Double the program's normal duration, i.e., eight academic years in sequence from the year of admission.
- b. **Lateral entry admission:** Double the program's normal duration, i.e., six academic years in sequence from the year of admission.
- c. **Advanced standing admission:** The maximum time for completion of the Programme of study will be twice the period in terms of academic years in sequence, stipulated in the Programme curriculum defined at admission.

#### 3.1.2 **Cancellation of admission**

Students, who fail to fulfill all the academic requirements for the award of the degree within the prescribed duration as per article 3.1.1, will forfeit their admissions.

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### 3.2 The medium of Instruction and Examination

The medium of instruction and examination is English.

### 3.3 Minimum Instruction Days

Each semester will consist of a minimum of 90 instruction days, excluding examination days and preparation holidays.

## 4. TRANSITORY REGULATIONS

For those who are admitted under advanced standing, these transitory regulations will provide the modus of Operandi. At the time of such admission, based on the Programme pursued (case by case)

- The BOS of the concerned discipline establishes equivalent courses completed by the student.
- Marks/Credits are transferred for all such equivalent courses and treated as completed in the study prescribed by KITS.
- A Programme chart of residual courses not completed will be derived, and a Programme of study with the duration specified will be prescribed for pursuit at KITS.
- As the case may be, marks obtained in the previous system shall be converted to equivalent grades and CGPA.

All other modalities and regulations governing shall be the same as those applicable to the stream of students with whom; such a candidate is merged with current regulations.

## 5. ATTENDANCE REGULATIONS

- i. A student would be eligible to appear for end semester examinations if he/she acquired a minimum of 50% in each subject and 75% of attendance in aggregate of all the courses.
- ii. The College Academic Committee may grant condonation of shortage of attendance in aggregate up to 10% on medical grounds (Above 65% and below 75%) in any semester.
- iii. Shortage of Attendance below 65% in aggregate shall not be condoned.
- iv. Students with less than 65% of attendance in any semester are not eligible to take up their end examination of that particular semester, and their registration shall stand canceled.
- v. Attendance may also be condoned for those who participate in Intercollegiate/university sports co and extracurricular activities provided their attendance is in the minimum prescribed range for the purpose (>65%) and

recommended by the concerned authority. He/ She shall pay the prescribed condonation fee.

- vi. Prescribed Condonation fee shall be payable by the student to appear for the end examination.
- vii. A Student will not be promoted to the next semester unless he/she satisfies the current semester's attendance requirement as applicable. They may seek readmission for that semester as and when offered consecutively by the Department.
- viii. A student will be condoned only four times for regular students and three times for lateral entry students during the entire study.

## 6. CURRICULUM FRAMEWORK

### 6.1 Prologue

KITS is committed to producing industry-ready, value-added bright engineering graduates through the enhanced curriculum, innovative teaching-learning process, excellent examination, and evaluation systems. Therefore, the curriculum is designed based on APSCHE's revised engineering curriculum-2020. The curriculum feature is that the courses must cover the depth (Specialization) and breadth (Multidisciplinary) for the attainment of program outcomes have been included.

### 6.2 Course Structure

B. Tech Programme course structure of every specialization comprises required courses fall in the nine categories listed in Table 1.

Table 1 Course Structure Components

S. No.	Category	Code
1	Basic Science Courses	BSC
2	Humanities and Social Science Including Management Courses	HSMC
3	Engineering Science Courses	ESC
4	Professional Core Courses	PCC
5	Professional Elective Courses	PEC
6	Open Elective Courses	OEC
7	Internship, Project Work	PROJ
8	Mandatory Courses	MC
9	Skill Oriented Advance Courses	SC
10	Honors Courses	HC
11	Minors Courses	MNC

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### 6.2.1 Basic Science Courses

The BSC's give a gateway to the freshmanship B. Tech graduates. It includes Physics, Chemistry, Mathematics, and Biology and its Laboratory practices. The Board of Study concern may recommend additional BSC to understand advanced courses in higher classes.

### 6.2.2 Humanities and Social Science, Including Management Courses

HSMC's include technical English and communication skills, engineering economics, managerial & finance, and communication skills laboratory. Further, to understand human values and harmony, the humanities and social science elective course is facilitated in the VII Semester (Final Year).

### 6.2.3 Engineering Science Courses

Engineering Science courses are the prerequisite course encompassing many different scientific principles and associated mathematics that underlie engineering. These courses have come across the first two years. The concerned BOS shall explore the possibility of the introduction of these courses and their practical component.

### 6.2.4 Professional Core Courses

It consists of a set of courses considered necessary for the students of the specific program. The courses under this category satisfy the program-specific criteria prescribed by the appropriate professional societies. The BOS concern must verify the prerequisite course and sequence of the required courses for the professions to tackle the most demanding challenges and advance global society's well-being.

### 6.2.5 Professional Elective Courses

The curriculum also gives the Institution flexibility in offering a variety of PEC's to the students of a particular discipline, which cover depth and breadth to broaden the student's knowledge. The students may register for appropriate electives offered in the program based on their area of interest. The BOS is empowered to identify as many tracks as possible in emerging technologies and industrial relevance.

### 6.2.6 Open Elective Courses

OEC's are offered across the programs to enhance the knowledge breadth in emerging areas/technologies and professional competency of the students in the job market. Each Department shall offer a minimum of four courses to choose from and indicate the maximum number of students allowed to register against each course subject to the faculty's availability.

However, a student shall choose an OEC from the list so that he/she has not studied the same course in any form during the Programme.

**Note:** The College shall invite registration forms from the students at the beginning of the semester for offering professional and open elective courses. There shall be a limit on the minimum (not less than twenty) and the maximum number of registrations based on class/section strength.

#### 6.2.7 Internship, Project Work

Students shall undergo mandatory summer internships for a minimum of six weeks duration at the end of the second and third year of the Programme. The students can do the internship at local industries, Govt. Organizations, construction agencies, Industries, Hydel and thermal power projects, and also in software MNCs. There shall also be a mandatory full-time internship in the final semester, along with the project work.

#### 6.2.8 Mandatory Courses

In this curriculum, AICTE suggested courses such as Environmental Sciences, Universal Human Values, Ethics, Indian Constitution, and Essence of Indian Traditional Knowledge shall be included as non-credit mandatory courses. Out of which Environmental Sciences is mandated for all branches.

#### 6.2.9 Skill Oriented Courses

- Five skill-oriented courses are facilitated in this curriculum over the Programme from the 3<sup>rd</sup> semester onwards.
- Out of the five skill courses, two shall be skill-oriented courses from the same domain and completed in the second year.
- Of the remaining three skill courses, one shall necessarily be a soft skill course. The remaining two shall be skill-advanced courses either from the same domain or Job oriented skill courses, which can be interdisciplinary.
- The student shall be given an option to choose the skill courses offered by the College or a certificate course being offered by industries/Professional bodies/APSSDC or any other accredited bodies as approved by the concerned BOS.
- The BOS concern will review and update skill-oriented and skill advanced courses every year based on industrial demand and recommend a standard external agency to facilitate these courses.


#### 6.2.10 Honors/Minors Courses

These courses are offered across the programs to enhance the additional learning opportunities for academically motivated students. Eligibility criteria and selection procedures are described in the honors/minor's framework.

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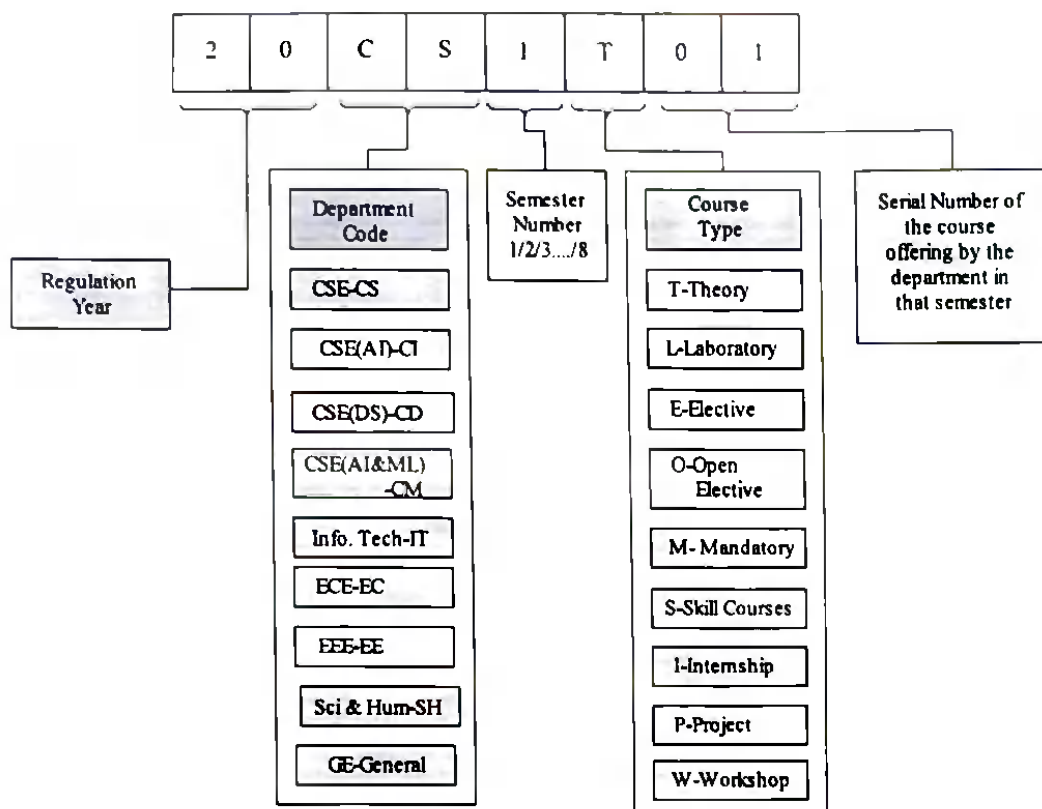
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### 6.3 Course Code



### 6.4 Credit System

The curriculum is designed to acquire 160 credits for the regular programme and honors or minors; additionally, 20 credits must earn. The credit distribution to the various courses is detailed.

#### 6.4.1 Credit definition

Credit means quantified and recognized learning. Credit is measured in terms of contact hours per week in a semester and is summarized in Table 2.

**Table 2 Credit and Contact Hour**

Course type	Contact hours	Credit
Theory	1	1
Tutorial	1	1
Practical	2	1

#### 6.4.2 Credit structure

A typical credit structure for coursework based on the above definition is given in Table 3.

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**Table 3 Credit and credit hour distributions**

Attribute	Instruction method			Credit (C)
	Lecture (L)	Tutorial (T)	Practical (P)	
Theory Course	3	0	0	3
	2	1	0	3
	3	1	0	4
	2	0	2	3
	2	0	0	2
Engineering Drawing / Workshop	1	0	4	3
Practical	0	0	2	1
	0	0	3	1.5
	0	0	4	2
Skill oriented course	1	0	2	2
Project	0	0	24	12

**7. CURRICULAR FRAMEWORK FOR HONORS PROGRAMME**

- i. Students of a Department/Discipline are eligible to opt for Honors Programme offered by the same Department/Discipline.
- ii. A student shall be permitted to register for Honors program at the beginning of 4<sup>th</sup> semester (I/I) provided that the student must have acquired a minimum of 8.0 SGPA up to the end of 2<sup>nd</sup> semester (I/I) without any backlogs. In case of the declaration of the 3<sup>rd</sup> semester (I/I) results after the commencement of the 4<sup>th</sup> semester and if a student fails to score the required minimum of 8 SGPA, his/her registration for Honors Programme stands cancelled and he/she shall continue with the regular Programme.
- iii. Students can select the additional and advanced courses from their respective branch in which they are pursuing the degree and get an honors degree in the same. e.g., If a Mechanical Engineering student completes the selected advanced courses from same branch under this scheme, he/she will be awarded B.Tech. (Honors) in Mechanical Engineering.
- iv. In addition to fulfilling all the requisites of a Regular B.Tech Programme, a student shall earn 20 additional credits to be eligible for the award of B. Tech (Honors) degree. This is in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e. 160 credits).
- v. Of the 20 additional Credits to be acquired, 16 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 4 credits. The remaining 4 credits must be acquired through two MOOCs, which shall be domain specific, each with 2 credits and with a minimum duration of 8/12weeks as recommended by the Board of studies.

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- vi. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course. The courses offered in each pool shall be domain specific courses and advanced courses.
- vii. The concerned BoS shall decide on the minimum enrolments for offering Honors program by the department. If minimum enrolments criteria are not met, then the students shall be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department in consultation with BoS.
- viii. Each pool can have theory as well as laboratory courses. If a course comes with a lab component, that component must be cleared separately. The concerned BoS shall explore the possibility of introducing virtual labs for such courses with lab component.
- ix. MOOC courses must be of minimum 8 weeks in duration. Attendance will not be monitored for MOOC courses. Students must acquire a certificate from the agencies approved by the BOS with grading or marks or pass/fail to earn 4 credits. If the MOOC course is a pass/fail course without any grades, the grade to be assigned will be as decided by the university/academic council.
- x. The concerned BoS shall also consider courses listed under professional electives of the respective B. Tech programs for the requirements of B. Tech (Honors). However, a student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.
- xi. If a student drops or is terminated from the Honors program, the additional credits so far earned cannot be converted into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and choose to omit the mention of the course as for the following: All the courses done under the dropped Honors will be shown in the transcript. None of the courses done under the dropped Honor will be shown in the transcript.
- xii. In case a student fails to meet the CGPA requirement for Degree with Honors at any point after registration, he/she will be dropped from the list of students eligible for Degree with Honors and they will receive regular B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- xiii. Honors must be completed simultaneously with a major degree program. A student cannot earn Honors after he/she has already earned bachelor's degree.

## 8. CURRICULAR FRAMEWORK FOR MINOR PROGRAMME

- i. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in

- (a) minor specialization groups offered by a department other than their parent department. For example, If Mechanical Engineering student selects subjects from Civil Engineering under this scheme, he/she will get Major degree of Mechanical Engineering with minor degree of Civil Engineering
- (b) Industry relevant tracks of any branch to obtain the Minor Degree, for example, a B.Tech Mechanical student can opt for the industry relevant tracks like Data Mining track, IOT track, Machine learning track etc
- ii. The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance / demand. For example, the minor tracks can be the fundamental courses in CSE, ECE, EEE,CE,ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Robotics, Electric vehicles, Robotics, VLSI etc.
- iii. The list of disciplines/branches eligible to opt for a particular industry relevant minor specialization shall be clearly mentioned by the respective BoS.
- iv. There shall be no limit on the number of programs offered under Minor. The Institution can offer minor programs in emerging technologies based on expertise in the respective departments or can explore the possibility of collaborating with the relevant industries/agencies in offering the program.
- v. The concerned BoS shall decide on the minimum enrolments for offering Minor program by the department. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department in consultation with BoS.
- vi. A student shall be permitted to register for Minors program at the beginning of 4<sup>th</sup> semester (II/II) subject to a maximum of two additional courses per semester, provided that the student must have acquired 8 SGPA (Semester Grade point average) up to the end of 2<sup>nd</sup> semester (I/II) without any history of backlogs. It is expected that the 3<sup>rd</sup> semester (II/I) results may be announced after the commencement of the 4<sup>th</sup> semester (II/II). If a student fails to acquire 8 SGPA up to 3<sup>rd</sup> semester (II/I) or failed in any of the courses, his registration for Minors program shall stand cancelled. An SGPA of 8 must be maintained in the subsequent semesters without any backlog to keep the Minors registration active.
- vii. A student shall earn additional 20 credits in the specified area to be eligible for the award of B. Tech degree with Minor. This is in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e., 160 credits)
- viii. Out of the 20 Credits, 16 credits shall be earned by undergoing specified courses listed by the concerned BoS along with prerequisites. It is the responsibility of the student to

  
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acquire/complete prerequisite before taking the respective course. If a course comes with a lab component, that component must be cleared separately. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.

- ix. In addition to the 16 credits, students must pursue at least 2 courses through MOOCs. The courses must be of minimum 8 weeks in duration. Attendance will not be monitored for MOOC courses. Student must acquire a certificate from the agencies approved by the BOS with grading or marks or pass/fail to earn 4 credits. If the MOOC course is a pass/fail course without any grades, the grade to be assigned as decided by the university/academic council.
- x. Student can opt for the industry relevant minor specialization as approved by the concerned departmental BoS. Student can opt the courses from Skill Development Corporation (APSSDC) or can opt the courses from an external agency recommended and approved by concerned BOS and should produce course completion certificate. The Board of studies of the concerned discipline of Engineering shall review such courses being offered by eligible external agencies and prepare a fresh list every year incorporating latest skills based on industrial demand.
- xi. A committee should be formed at the level of college/department to evaluate the grades/marks given by external agencies to a student which are approved by concerned BoS. Upon completion of courses the departmental committee should convert the obtained grades/marks to the maximum marks assigned to that course. The controller of examinations can take a decision on such conversions and may give appropriate grades.
- xii. If a student drops (or terminated) from the Minor program, they cannot convert the earned credits into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and choose to omit the mention of the course as for the following:
- xiii. All the courses done under the dropped Minors will be shown in the transcript. None of the courses done under the dropped Minor will be shown in the transcript.
- xiv. In case a student fails to meet the CGPA requirement for B.Tech degree with Minor at any point after registration, he/she will be dropped from the list of students eligible for degree with Minors and they will receive B. Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.



- xv. Minor must be completed simultaneously with a major degree program. A student cannot earn the Minor after he/she has already earned bachelor's degree.

## 9. EXAMINATION AND EVALUATION

To evaluate a student's performance, the Institution conducts a well-structured continuous assessment and end-semester examination for thirty (30) and seventy (70) marks, respectively, for theory. Fifteen (15) and thirty-five (35) marks for practical courses.

### 9.1 Continuous Assessment and Internal mark

#### 9.1.1 Theory course

The continuous assessment of a theory course is to be performed through two cycles in a semester.

- Each course consists of five units.
- Each cycle covers two and a half units
- There shall be four unit-tests and two mid-semester examinations.
- Each cycle considers two unit-tests and one mid-semester examination.
- Each unit test will be conducted for ten (10) marks of 45 minutes duration by the course lecturer concern and is conducted every third week in a scheduled manner.
- The chief controller of the Examination conducts the mid-semester examinations.
- Mid-semester examination-1 covers units-I, II, and half of III, whereas Mid-semester examination-2 covers the remaining half of unit-III and Units-IV and V.
- Each Mid-semester Examination (only descriptive) is conducted for forty (40) marks with 90 minutes and scale into twenty (20) marks.
- Each cycle weightage is thirty (30) mark, i.e., the average of both unit-tests mark of ten (10) plus scaled mid-semester mark of twenty (20).
- Any number after the decimal point shall be rounded off.
- The internal mark is the **weighted average of two cycles**, i.e., weightage of 80% of the best cycle performance and 20% of the second.
- A case study is illustrated in Table 4

Table 4 Internal Mark Assessment (Example)

Continuous Assessment and Internal mark								
Cycle-1			Cycle-2			80% of (F) the best cycle (G)	20% of (C) the lowermost (H)	Internal mark 30 (I= G+H)
Average of both Unit Tests 10(A)	Mid-Sem-1 20 (B)	Total Mark 30 (C=A+B)	Average of both Unit Tests 10 (D)	Mid-Sem-1 20 (E)	Total Mark 30 (F=D+E)			
8	17	25	10	20	30	24	5	29

### 9.1.2 Practical course

The student will be assessed by the course lecturer's concern, like the end practical examination of thirty-five (35) and scaled into five (05) marks. The weightage for other assessments is briefed in Table 5.

**Table 5** Mark Distribution for Practical Course

S. No.	Activity	Mark
1	Day-to-day Evaluation	05
2	Record	05
3	Internal Assessment	05
<b>Internal mark</b>		<b>15</b>

## 9.2 End Semester Examination

### 9.2.1 Theory course

- The end-semester examination will be conducted with the entire syllabus of a course for seventy (70) marks.
- The question paper contains five questions with internal choice from each unit and is valued at 70 marks.
- A student must secure not less than 35% of marks in the end semester examination and a minimum of 40% of marks in the total of internal and end semester examination marks to earn the credits allotted to each course.

### 9.2.2 Practical course

- The end practical examination shall be conducted for thirty-five (35) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voce is the external examiner's sole decision.

## 9.3 Evaluation of Design or Engineering Graphics

For the subject having design or Engineering Graphics, the distribution shall be thirty (30) marks for internal evaluation and seventy (70) marks for end examination. The assessment procedure is as follows,

- i. There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for thirty (30) marks for 90 minutes and scaled into fifteen (15) marks.

- ii. There shall be day-to-day work, and the concerned course lecturer about awarding the fifteen (15) marks.
- iii. The internal mark is the weighted average of two mid-semester Examinations, i.e., weightage of 80% of the best cycle performance and 20% of the second plus day-to-day evaluation.

The end examination contains five questions with internal choice from each unit and carries an equal mark.

#### 9.4 Evaluation of Engineering Workshop

##### 9.4.1 Internal Evaluation

- The student will be assessed by the course lecturer's concern, like the end practical examination of seventy (70) and scaled into fifteen (15) marks. The weightage for other assessments is briefed in Table 6.

**Table 6** Mark Distribution for Practical Course

S. No.	Activity	Mark
1	Day-to-day Evaluation	05
2	Record	10
3	Internal Assessment	15
<b>Internal mark</b>		<b>30</b>

##### 9.4.2 External Evaluation

- The end practical examination shall be conducted for seventy (70) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voce is the external examiner's sole decision.

#### 9.5 Evaluation of Electrical Installation and Electronics Engineering Practice

##### 9.5.1 Internal Evaluation

**Table 7** Mark Distribution for Internal Evaluation

Attributes	Mark		
	Electrical	Electronics	Total
1 Day-to-day	5.0	5.0	10
2 Record	2.5	2.5	05
3 Internal Assessment*			15
<b>Internal Mark</b>			<b>30</b>

# Internal examination will be conducted as an external examination for 70 Marks, and the same is scaled into 15 Marks.



## 9.5.2 External Evaluation

Table 8 Mark Distribution for External Evaluation

Particulars	Marks	Time
<b>Part-A (Theory) Answer all Questions</b>	30	
1 Electrical Engineering	15 Marks	60 Minutes
2 Electronics Engineering	15 Marks	
<b>Part-B (Practical)</b>	40	
(Student allowed to choose either Electrical or Electronics experiment by a lot)		120 Minutes
<b>Total Mark</b>	<b>70</b>	<b>180 Minutes</b>

## 9.6 Evaluation of Mandatory Courses

- There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for fifty (50) marks for 110 minutes.
- Mid-semester examination-1 covers units I, II, and half of III, whereas mid-semester examination-2 covers the remaining half of unit-III and Units-IV and V.
- The final mark is the **sum of two** mid-semester examinations.
- A student must secure 40% of the marks allotted in the internal evaluation for passing the course.
- No marks or letter grades shall be allotted for all mandatory non-credit courses.
- No supplementary examination

## 9.7 Evaluation of Internship

### 9.7.1 Summer Internship's

- After completing the summer internship, the students shall register in the immediate respective odd semester. It will be evaluated at the end of the semester, along with an external laboratory examination.
- At the time of registration, the student has to produce the summer internship satisfactory report and certificate taken from the organization to be considered for evaluation.
- A student will be required to submit a summer internship report to the concerned Department and appear for an oral presentation before the departmental committee.
- The departmental committee consists of an external examiner appointed by the Chief Controller of Examination, Head of the Department; mentor/supervisor of the internship; and a senior faculty member of the Department.

- The report and the oral presentation shall carry 40% and 60% weightage, respectively, and it shall be evaluated for fifty (50) marks. There shall be no internal marks for Summer Internship.
- A student shall secure a minimum of 40% of marks for successful completion. If a student fails, he/she shall reappear as and when the Institution conducts semester supplementary examinations.
- Completion of internships is mandatory. If any student fails to complete an internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

#### 9.7.2 Final semester Internship

- In the final semester, the student may undergo an internship, and parallelly he/she should work on a project with well-defined objectives.
- At the end of the semester, the candidate shall submit an internship completion certificate and a project report.
- A student shall also submit a project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.

**Note:** The College shall monitor the student internship programs. Completion of internships is mandatory; if any student fails to complete the internship, he/she will not be eligible for the award of the degree. In such cases, the student shall repeat and complete the internship.

#### 9.8 Evaluation Skill Oriented/Advance Courses

##### 9.8.1 Course offered by the Department


- Students must register for the course as per the Institution's policy in the event of a skill-oriented/advanced course offered by the department/institution.
- The department/institution conducts it along with regular courses upon resource person availability.
- Other hand, the Institution / Department can collaborate with Industries / Professional bodies or any other accredited bodies to develop the course content and the same course to be conducted not less than thirty (30) contact hours.
- There shall be a continuous assessment for fifteen (15) marks. The student must submit weekly/module-wise assignments and submit them as a final report.
- There shall be an end evaluation for thirty-five (35) marks by the internal evaluator appointed by the chief controller examination.
- The student has to re-register for the course when offered subsequent if he/she fails to fulfill the attendance and End Examination marks requirement.

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### 9.8.2 Course offered by an external agency

- The Department shall mark the student's attendance for the remaining courses in that semester, excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the concerned Board of Studies
- The student is deemed to have fulfilled the course's attendance requirement and acquire the credits assigned to the course.
- The credits shall be awarded to the student upon producing the Course Completion Certificate from the agency/professional bodies as approved by the Board of studies.
- A committee shall be formed at the College level to evaluate the grades/marks given for a course by external agencies and convert them to equivalent marks/grades.
- The recommended conversions and appropriate grades/marks are to be approved by the University Academic Council.

### 9.9 Evaluation of Project Work

The project work will be evaluated internally for sixty (60) marks whereas, the end evaluation carries one hundred forty (140) marks.

#### 9.9.1 Internal Assessment

Project Review Committee (PRC) will monitor the internal assessment. PRC consists of the Head of the Department, Project-coordinator, Supervisor, and Senior faculty member. The assessment is based on the day-to-day assessment by the supervisor and two reviews conducted by the PRC.

**Table 9** Mark Distribution for Project Internal Evaluation

S.No.	Activity	Mark
1	Review-1	20
2	Review-2	20
3	Review-3	20
<b>Internal mark</b>		<b>60</b>

#### 9.9.2 End evaluation

The final project evaluation committee comprises the Head of the Department, Supervisor concern, and external examiner duly appointed by the Chief Controller of examination from a panel examiner list.

The committee will prepare an evaluation scheme for one hundred forty (140) marks, including a project report, and may ask the student to demonstrate using PowerPoint presentation followed by viva-voice for critical evaluation.



## 10. GRADE POINTS AND AWARD OF CLASS

The student will be awarded an equivalent grade point on a ten-point scale and a grade letter to each course based on the mark secured in that range shown below

### 10.1 Grading of Theory Courses

**Table 10** Grade Point and its Equivalent Grade letter for Theory Courses

Marks Range <sup>#</sup>	Grade Point	Grade Letter	Level
≥ 90	10	A+	Outstanding
80-89	9	A	Excellent
70-79	8	B	Very Good
60-69	7	C	Good
50-59	6	D	Fair
40-49	5	E	Satisfactory
< 40	0	F	Fail
-	0	AB	Absent

<sup>#</sup> For Project it is percentage (%) of marks secured out of 200 marks.

### 10.2 Grading of Practical Courses and Summer Internship

**Table 11** Grade Point and its Equivalent Grade letter for Practical Courses and Summer Internship

Marks Range	Grade Point	Grade Letter	Level
≥ 45	10	A+	Outstanding
40-44	9	A	Excellent
35-39	8	B	Very Good
30-34	7	C	Good
25-29	6	D	Fair
20-24	5	E	Satisfactory
< 20	0	F	Fail
-	0	AB	Absent

### 10.3 Semester Grade Point Average (SGPA)

- Suppose credit of the  $i^{\text{th}}$  course is  $C_i$  and grade point of that course is  $G_i$ . Then SGPA is,

$$SGPA = \frac{\sum (C_i \cdot G_i)}{\sum C_i}, i \in n$$

- Where  $n$  is the number of courses in that semester

#### 10.4 Cumulative Grade Point Average (CGPA)

- Suppose the total credit of the  $j^{\text{th}}$  Semester is  $STC_j$  and that semester SGPA is  $S_j$ . Then CGPA is,

$$CGPA = \frac{\sum (STC_j \cdot S_j)}{\sum STC_j}, j \in m$$

- Where  $m$  is the number of semesters in the Programme
- Overall percentage equivalent to CGPA as per AICTE regulations is,

$$\text{Overall percentage} = (CGPA - 0.75) * 10\%$$

#### Note:

- Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
- While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.

#### 10.5 Award of Class

- A student will be awarded B.Tech. Degree upon fulfillment of the requirement of the award of degree in the respective discipline.
- He/she shall be placed in one of the following classes.

**Table 12** Classification of Award of Class

<b>CGPA Secured</b>	<b>: Class Awarded</b>
$\geq 7.75$	: First Class with Distinction* (Without any supplementary appearance)
$\geq 6.75 < 7.75$	: First Class
$\geq 5.75 < 6.75$	: Second Class
$\geq 5.0 < 5.75$	: Pass Class

\*They are awarded if all the credit courses prescribed are cleared in a single attempt within four years for regular candidates and three years for lateral entry candidates.

\*Detained and break-in study candidates are not eligible for the award of First Class with Distinction.

#### 11. PROMOTION RULES

- A student shall be promoted from the first year to the second year if he/she fulfills the minimum attendance requirements.

- A student will be promoted from IV to V semester only if he/she fulfills the academic requirements of 40% of the credits up to semester IV from all the examinations (regular and supply) whether or not the candidate takes the examinations
- A student will be promoted from VI to VII semester only if he/she fulfills the academic requirements of 40% of the credits up to semester VI from all the examinations (regular and supply) whether or not the candidate takes the examinations
- The procedure described above is illustrated in the Table shown below

**Table 13 Promotion Rule Summary**

Semester Promotion		Promotion Criteria	No. of credits	
From	To		Regular	Lateral Entry
I	II	Minimum Attendance requirement	—	—
II	III			
III	IV			
IV	V	Minimum Attendance requirement & 40% of the credits up to the 4 <sup>th</sup> Semester	32.8	17.2
V	VI	Minimum Attendance requirement	—	—
VI	VII	Minimum Attendance requirement & 40% of the credits up to the 6 <sup>th</sup> Semester	50	34.4
VII	VIII	Minimum Attendance requirement	—	—

## 12. AWARD OF THE DEGREE

A student will be declared eligible for the award of B. Tech. Degree if he/she fulfills the following

- **Regular Admission:** Pursue a course of study in not less than four and not more than eight academic years.
- **Lateral Entry:** Pursue a course of study in not less than three and not more than six academic years.
- **Regular Admission:** Registers for 160 credits and must secure all the 160 credits.
- **Lateral Entry:** Registers for 121 credits and must secure all the 121 credits.



- Registered and completed all the components prescribed in the Programme of study in which he/she is admitted.
- All mandatory courses must be completed with satisfaction.
- Obtained CGPA greater than or equal to 4.0 (minimum requirements for a pass).

### 13. WITHHOLDING OF RESULTS

- A student's semester result will be withheld in such cases that he/she must satisfy the articles discussed in 9.7.1 and 9.8.1.
- Suppose any case of malpractice or indiscipline is pending against a student. In that case, that student's result will be withheld, and he/she will not be allowed to enter the next semester, or the degree will be withheld (whichever applicable).

### 14. REVALUATION

- As per the notification issued by the Chief Controller of Examinations, the students can submit the applications for revaluation, along with the requisite fee receipt for revaluation of his/her answer script(s) of theory course(s), if he/she is not satisfied with marks obtained.
- The Controller of Examinations shall arrange for a re-evaluation of those answer script(s).
- Other than the first examiner, a new external examiner shall re-evaluate the answer script(s).
- Better marks between the two will be taken into consideration.

### 15. SUPPLEMENTARY EXAMINATIONS

- A Supplementary Examination will be conducted along with regular semester-end examinations. A student can appear in any number of supplementary examinations for a course till he/she pass that course. However, the maximum stipulated period of the program cannot be relaxed under any circumstance.
- The examinations' set of the sequence will be odd semester (I, III, V, and VII) and Even Semester (II, IV, VI, and VIII).

### 16. ADVANCED SUPPLEMENTARY EXAMINATIONS

- A candidate who remains backlog course (s) in the VII semesters alone at the time of VIII semester result publication can appear for Advanced Supplementary Examinations.
- Candidate(s), who fails in Theory courses of VII semester, can appear for the advanced supplementary examination conducted within one month after the result's declaration.

- However, those candidates that fail in the advanced supplementary examinations shall appear for subsequent examinations along with regular candidates.

#### 17. READMISSION CRITERIA

- A candidate detained in a semester due to lack of attendance/credits must apply for readmission into the same semester when the Institution offers.
- The Principal will review the application, and the candidate can be permitted to rejoin after duly fulfilling all the required norms stipulated by the College.
- Besides, the candidate must pay an administrative fee is decided by the Institution.

#### 18. BREAK IN STUDY

- Student, who discontinues the studies for whatever may be the reason has to apply for readmission into the appropriate semester of B. Tech Programme after break-in study.
- The Principal will review the application, and the candidate might be permitted as per the transitory regulations applicable to such batch in which he/she joins.
- Besides, the candidate must pay an administrative fee decided by the Institution to be condoned each year.

#### 19. GAP - YEAR

- The gap-year facility concept is extended to outstanding students. They wish to pursue entrepreneurship during their course of study with a break of one or two years after the 4<sup>th</sup> semester.
- An evaluation committee at the institution level shall be constituted to evaluate the student's proposal, and the committee shall decide on permitting the student to avail the gap-year.
- The maximum extent is two years, and these two years would be counted for the maximum period of graduation.
- However, he/she deserves to award the degree in first class with distinction if all the credit courses prescribed are cleared in a single attempt within four years for regular candidates and three years for lateral entry candidates excluding gap-year upon fulfillment of article 10.4
- The gap year facility ensures syllabus continuity when joining back and after an incubator's appraisal process where the student is attached.
- Students who have availed of gap-year facility should follow transitory regulations.

  
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## 20. SELF-LEARNING

- A student shall be encouraged to pursue up to a maximum of two courses (elective/open elective) under any one of the approved MOOCs platforms like SWAYAM and NPTEL during the Programme. Each of the courses must be of a minimum of 12 weeks in duration. Attendance will not be monitored for MOOC courses.
- A student must pursue and acquire a certificate for a MOOC course only from the organizations/agencies approved by the BOS to earn the three (3) credits.
- The Head of the Department shall notify the list of such courses at the beginning of the semester.

## 21. STUDENT INDUCTION PROGRAM

There shall be a mandatory student induction program for freshers, with a three-week duration before the first semester's commencement. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Department/Branch & Innovations shall be included in the guidelines issued by AICTE.

## 22. STUDENT PRACTICE COURSES

Student Practice Courses are aimed at improving their professional competency. A student shall participate and complete any one activity successfully.

- (i) In 22.1 and 22.2
- (ii) From 22.3 to 22.7 as given below, before completion of the 6<sup>th</sup> semester. The concerned Programme/Department coordinator must verify the document provided by the students.

### 22.1 National Cadet Corps (NCC)/National Service Scheme (NSS)

- All undergraduate students shall register for NCC/NSS activities. A student will be required to participate in an activity for two hours a week during the second and third semesters.
- The grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet based on participation, attendance, performance, and behavior.
- If a student gets an unsatisfactory grade, he/she shall repeat the above activity in the subsequent years to complete the degree requirements.

  
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## 22.2 Co-curricular Participation

A student should have participated in Technical Quizzes/Student paper contest/ Seminars/ Technical Events, etc., approved by the Department.

## 22.3 Games and Sports

The potential student will be motivated to participate in the Institution, University, Zonal, State Levels, and above competitions.

The Institution will facilitate the "Fit India Campaign" to fulfill the vision, mission, and goal of the Fit India Movement.

## 22.4 Art and Cultural

The interested student will be encouraged to participate in the Institution, University level, and above competitions.

## 22.5 Competitions

The student should have participated in competitions conducted by Professional Societies (IEEE, IETE, ASME, IE, CSI) in the College or conducted by the other Colleges.

## 22.6 Publication

The student is provisioned publish a paper in Conference or Journal/ Certifications from Industry as approved by the Head of the Department.

## 23. CONDUCT AND DISCIPLINE

Students admitted to KITS must abide by the code of conduct and discipline of the College and which will be updated from time to time.

## 24. MALPRACTICES

- If any student involves malpractices in internal assessment tests or Semester-End Examinations, the Principal constitutes a Malpractice Enquiry Committee to enquire the case.
- The Principal shall take necessary action based on the recommendations of the committee as per stipulated norms.

## 25. GENERAL

- Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- The academic regulation should be read as a whole for any interpretation.

  
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- In case of any doubt or ambiguity in interpreting the above rules, the Principal's decision is final and ratified by the Governing Body's Chairman.
- The College may change or amend the academic regulations or syllabi at any time. The changes or amendments made shall apply to all the students with effect from the dates notified by the College.

## 26. AMENDMENTS TO REGULATIONS


The Academic Council may, from time to time, revise, amend or change the regulations, schemes of examination, and syllabi.

Oratory  
PRINCIPAL

DIRECTOR (ACADEMICS)

**MALPRACTICES RULES**  
**DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS**

	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate</i>	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester year. The Hall Ticket of the candidate is to be cancelled and sent to the University.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the impostor is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent Assistant - Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.

  
K. Anil Babu

DIRECTOR ACADEMICS

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	amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination	
7.	Leaves the exam hall taking away answer script or intentionally tears the script or any part thereof inside or outside the examination hall	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.  Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action and impose suitable punishment.	

**Malpractices identified by squad or special investigators**

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions (if the squad reports that the college is also involved in encouraging malpractices)
  - (i) A show because notice shall be issued to the college.
  - (ii) Impose a suitable fine on the college.
  - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year.

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# Ragging

Prohibition of ragging in educational institutions Act 26 of 1997

## Salient Features

- Ragging within or outside any educational institution is prohibited
- Ragging means doing an act which causes or is likely to cause insult or Annoyance of Fear or Apprehension or Threat or Intimidation or outrage of modesty or Injury to a student.

	Imprisonment upto		Fine Upto
Teasing, Embarrassing and Humiliation	 6 Months	+	Rs. 1,000/-
Assaulting or Using Criminal force or Criminal Intimidation	 1 Year	+	Rs. 2,000/-
Wrongfully restraining or confining or causing	 2 Years	+	Rs. 5,000/-
Causing grievous hurt, kidnapping or Abducts or rape or committing unnatural offence	 5 Years	+	Rs. 10,000/-
Causing death or abetting suicide	 10 Months	+	Rs. 50,000/-

In Case of Emergency CALL TOLL FREE NO. : 1800 - 45 - 1386

LET US MAKE JNTUK A RAGGING FREE UNIVERSITY

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