

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.

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DEAN, ACADEMICS

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PRINCIPAL

KKR & KSR Institute of Technology & Science
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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 2nd-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 2nd 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

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.

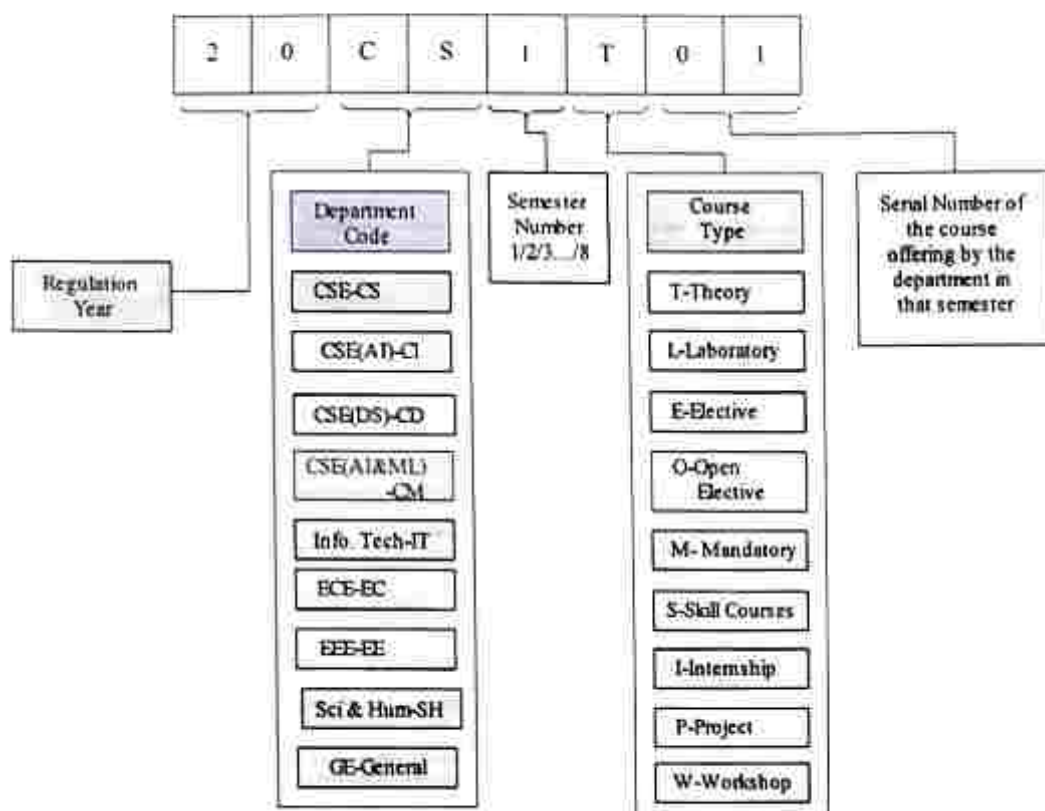
6.2.9 Skill Oriented Courses

- Five skill-oriented courses are facilitated in this curriculum over the Programme from the 3rd 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.

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 4th semester (II/II) provided that the student must have acquired a minimum of 8.0 SGPA up to the end of 2nd semester (I/II) without any backlogs. In case of the declaration of the 3rd semester (II/I) results after the commencement of the 4th 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.

- 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 4th 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 2nd semester (I/II) without any history of backlogs. It is expected that the 3rd semester (II/I) results may be announced after the commencement of the 4th semester (II/II). If a student fails to acquire 8 SGPA up to 3rd 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

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 lower mark (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	6	30

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
Internal mark		15

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
Internal mark		30

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
Internal Mark			30

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


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9.5.2 External Evaluation

Table 8 Mark Distribution for External Evaluation

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

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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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#	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

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^{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^{th} Semester is STC_j and that semester SGPA is S_j . Then CGPA is,

$$CGPA = \frac{\sum (STC_j \cdot S_j)}{\sum STC_j} \cdot 10 \cdot m$$

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

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

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

CGPA Secured	: Class Awarded
≥ 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.

- 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 as 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 4th 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.

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 6th 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.

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.

- 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 the 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 or 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

[Signature]
PRINCIPAL

	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 confine or confine	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 - 425 - 1383

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