

**TKR COLLEGE OF ENGINEERING & TECHNOLOGY  
(AUTONOMOUS)**

Accredited by National Board of Accreditation (NBA) & NAAC 'A' GRADE

**ACADEMIC REGULATIONS FOR UG COURSES**

**FROM THE YEAR 2018**



Survey No. 8/A, Emboli, Meer pet, Ballarpur Mandala, R.R.Dist.Telangana - 500 097

Phone: 040-65347536

E-mail: [principal@tkrcet.ac.in](mailto:principal@tkrcet.ac.in), Website: [www.tkrct.ac.in](http://www.tkrct.ac.in)



# **T K R COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)**

## **ACADEMIC REGULATIONS FOR B.TECH R18 (REGULATIONS)**

### **APPLICABLE FOR REGULAR STUDENTS OF B.TECH. WITH EFFECT FROM THE ACADEMIC YEAR 2018.**

#### **1.0 Under-Graduate Degree Program in Engineering & Technology (UGP in E & T)**

**1.1** Teegala Krishna Reddy College of Engineering & Technology (TKRCET) offers an VIII-Semesters (4-years) **Bachelor of Technology (B.Tech.)** degree Program, under the Choice Based Credit System (CBCS) at its Autonomous College with effect from the academic year 2018-19 in the following branches of Engineering:

<b>S.No.</b>	<b>Branch</b>
1.	Civil Engineering
2.	Electrical & Electronics Engineering
3.	Mechanical Engineering
4.	Electronics & Communication Engineering
5.	Computer Science & Engineering
6.	Information Technology

#### **2.0 Eligibility for admission**

- 2.1** Seats for each Program in the college are classified into CATEGORY-A (70% of intake), CATEGORY-B (30% of intake) and CATEGORY-C (20% of intake through Lateral Entry).
- 2.2** Admission to the CATEGORY-A (70% of Intake) is made either on the basis of the merit rank obtained by the qualified candidate in the entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations prescribed by the government from time to time.
- 2.3** CATEGORY-B (30% of Intake) is filled by the college as per the guidelines of the competent authority.
- 2.4** CATEGORY-C (20% of intake) are Lateral Entry students who are admitted into the third semester directly based on the rank secured by the candidate in the Engineering Common Entrance Test (ECET) in accordance with the instructions received from the convener, ECET and the competent authority.

2.5 The medium of instruction for the entire under graduate Program in E & T will only be in English.

2.6 It is mandatory that every student follows the undertaking and abides by the rules of TKR College of Engineering & Technology.

### 3.0 B.Tech. Program structure

3.1 A student after securing admission is required to pursue the under graduate Program in B.Tech for a minimum period of VIII-semester, (4 academic years and a maximum period of 8 academic years) starting from the date of commencement of the first semester, failing which the student shall forfeit the seat in the B.Tech course. **Each student should secure 160 credits (with CGPA  $\geq$  5.0) required for the completion of the undergraduate Program and award of B.Tech. Degree.**

3.1.1 A student after securing admission through lateral entry is required to pursue the under graduate Program in B.Tech for a minimum period of VI-semester, (3 academic years) and a maximum period of 6 academic years starting from the date of commencement of the Third semester, failing which the student shall forfeit the seat in the B.Tech course. **Each student should secure 118.5 credits (with CGPA  $\geq$  5.0) required for the completion of the undergraduate Program and award of B.Tech. Degree.**

3.2 Definitions/descriptions specified by UGC/AICTE are adopted appropriately for various terms and abbreviations used in these academic regulations/norms, which are listed below.

#### 3.2.1 Semester Scheme

Each under graduate program constitutes VIII semesters (4 academic years). Each academic year is divided into two semesters a maximum of 22 weeks and a minimum of 18 weeks ( $\geq$  90 instructional days) each. In each semester students are subject to “Continuous Internal Evaluation (CIE) and a Semester End Examination (SEE)”. The Choice Based Semester System (CBSS) is implemented as prescribed by the UGC and the curriculum/course structure is followed as suggested by AICTE from time to time.

#### 3.2.2 Credit Courses

All subjects/courses are to be registered by the student in a semester to earn credits which are assigned to each subject/course in an L: T: P: C (L - lecture periods: T - tutorial periods: P-practical periods: C-credits) structure which is on the following general pattern.

- One credit for one Period/hour/week/semester for theory/lecture courses.
- Half credit for one Period/hour/week/semester for laboratory/practical.

Courses like Environmental Science, Professional Ethics, Gender Sensitization lab and other social context courses, and student activities like NCC/NSO and NSS are identified as mandatory courses. **These courses do not carry any credits.**

### 3.2.3 The Structure of the under graduate Engineering Program:

S.NO.	CATEGORY	Suggested breakup of credits (Total 160)
01	Humanities and Social sciences including Management	12*
02	Basic Sciences	25*
03	Engineering Sciences courses including workshop, drawing, basics of electrical/mechanical/computer etc.	24*
04	Professional Core Courses	48*
05	Professional Elective Courses relevant to chosen specialization/branch	18*
06	Open Electives-Electives from other technical and/or emerging subjects	18*
07	Project work, seminar and internship in industry or elsewhere	15*
08	Mandatory courses [Environmental sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	(non- credit)
	Total	160*

\* Minor Variation is allowed as per the need of the respective disciplines.

### 3.2.4 Subject Code Classification

The Subject Codes of various branches in R18 Regulations are formulated using the following Procedure

**Regulation, Branch, Semester, Classification, S.No.**

<b>Regulation</b>	R17-A, R18-B, ..., and so on
<b>UG Branch</b>	1- Civil Engineering, 2- Electrical and Electronics Engineering, 3- Mechanical Engineering, 4- Electronics and Communication Engineering, 5- Computer Science and Engineering, 6- Information Technology
<b>PG Branch</b>	12-Power Electronics 25-Computer Science and Engineering, 35-Software Engineering, 14- Master of Bussiness Administration
<b>Semester</b>	I,II,III,IV,V,VI,VII,VIII
<b>Classification</b>	HS-Humanities and Sciences, BS-Basic Sciences, ES-Engineering Sciences, PC- Professional Core, PE- Professional Elective, OE-Open Elective, PW-Project Work,
<b>S.No.</b>	1 to 9

## 4.0 Course registration

- 4.1 An adviser /counselor from the faculty shall be assigned to a group of 20 students, who will instruct the students regarding the under graduate Program, its course structure and curriculum, choice/option for subjects/courses, which is based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the commencement of the semester through 'on-line registration' ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of the SEEs (Semester End Examinations) of the 'preceding semester', and for I semester students the online registration requests shall be completed four weeks from the date of admission.**
- 4.3 A student can apply for on-line registration, **only after** obtaining the written approval from the faculty adviser/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with the Head of the Department, faculty advisor/counselor and the student.
- 4.4 A student should register for all the courses offered to him in that particular semester not exceeding 9 subjects/courses, excluding the Mandatory Courses.
- 4.5 If the student submits ambiguous choices or multiple options during on-line registration for the subject(s)/course(s) under a given/specified course group/category as listed in the course structure, then a subject/course will be allotted by Head of the Department without considering the submission.
- 4.6 Subject/course options exercised through on-line registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/course that has already been listed for registration by the Head of the Department in a semester cannot be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to select an alternate choice either for a new subject (subject to offering of such subject), or another existing subject (subject to availability of seats). Such alternate arrangements will be made by the head of the department, with due notification and within a time-framed schedule, in the **first week** after commencement of the class-work for that semester.
- 4.7 **Open electives:** The students have to choose three open electives (OE-I), (OE-II) (OE- III). The student can opt for open elective subjects offered by their own (parent) department or the student can choose an open elective subject from the list of subjects offered by any other department of the same college. Once, a subject is chosen under the open elective category if cannot be opted again.
- 4.8 **Professional electives:** Students have to choose professional electives (PE-I, II, III, IV, V, VI). However, the students may opt for professional elective subjects offered in the related area.

5.0 Subjects/courses to be offered

5.1 The class strength for each semester shall be 60.

5.2 A subject/ course may be offered to the students, only if a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60+ 1/3 of the Strength of the section).

5.3 More than **one faculty member** may offer the **same subject** (lab/practical may be included with the corresponding theory subject in the same semester) in any semester. However, selection of choice of students will be based on – ‘**first come first serve**’ basis and the CGPA criterion’ (i.e. the primary shall be on on-line entry from the student for registration in that semester, and the focus that follows, if needed, will be on the CGPA of the student)

5.4 If more entries for registration of a subject come into picture, then the Head of the Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections.**

5.5 An Elective Course is offered to the students if and only if there is a minimum of 1/3 strength of the sanctioned intake register for that course.

## 6.0 Attendance requirements

6.1 A student shall be eligible to appear for the semester end examinations, if the student acquires a minimum of 75% of attendance in aggregate in all the subjects/courses including days of internal examinations (excluding attendance in mandatory courses:- Environmental Science, Professional Ethics, Gender Sensitization Lab, NCC and NSS, subjects related to social context) for that semester.

6.2 For Mandatory Courses like NCC and NSS a ‘ Satisfactory Participation Certificate’ shall be issued to the students from the authorities concerned only after securing  $\geq 65\%$  attendance in such a course. Submission of Report on the activities is also mandatory for securing attendance during the allocated periods.

6.3 Shortage of attendance in aggregate up to 10% (65% and above, and below 75%) in each semester may be condoned by the college academic committee on valid grounds, like natural calamity, medical emergency, any sudden demise of close family members based on the students representation with supporting evidence/certificates.

6.4 A stipulated fee shall be paid for condonement of shortage of attendance.

6.5 Shortage of attendance **below 65%** in aggregate shall, **in no case be condoned.**

6.6 **Students whose shortage of attendance, is not condoned in a semester, are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester.**

**6.7** The students who are detained due to lack of attendance should seek re-admission into that semester as and when offered, and re-register all the courses offered in that semester.

**6.8** A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class, till completion of the VIII semester, even on payment of the requisite fees.

**7.0 Academic Requirements**

The following academic requirements have to be satisfied, **in addition to the** attendance requirements mentioned in item no **6**.

**7.1** A student shall be deemed to have satisfied the minimum academic requirements if he/she has earned the credits allotted to each subject/course, and has secured not less than **35% marks (24 out of 70)** in the semester end examination, and a minimum of **40%** of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades. This implies securing ‘C’ grade or above in that subject/course.

**7.2 Promotion Rules:**

S.No.	Promotion	Conditions to be fulfilled
1.	I semester to II semester	Regular course of study of I semester by satisfying attendance requirements.
2.	II Semester to III Semester	Regular course of study of II Semester, by satisfying attendance requirements. Must have secured at least 50 % credits up to II semester from the offered credits from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	III Semester to IV Semester	Regular course of study of III semester, by satisfying attendance requirements.
4.	IV Semester to V Semester	Regular course of study of IV semester, by satisfying attendance requirements, and must have secured at least credits i.e., 60% credits up to IV semester from the offered credits (rounding to near low value) from all the relevant regular and supplementary examinations, whether the students takes those examinations or not
5.	V Semester to VI Semester	Regular course of study of V Semester, by satisfying attendance requirements.
6	VI Semester to VII Semester	Regular course study of VI semester, by satisfying attendance requirements. Must have secured at least 60% credits (rounding to near lower value) up to VI Semester from the offered credits from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.

7	VII Semester to VIII Semester	Regular course of study of VII Semester, by satisfying attendance requirements.
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### Promotion Rules for Lateral Entry Students

S.No.	Promotion	Conditions to be fulfilled
01	III Semester to IV Semester	Regular course of study of Second Year first semester, by satisfying attendance requirements.
02	IV Semester to V Semester	Regular course of study of IV Semester by satisfying attendance requirements and a minimum of 50 % of credits (rounding to the near lower value) from the offered credits, from one regular and one supplementary examinations of III semester, irrespective of the candidate takes the examination or not.
03	V Semester to VI Semester	Regular Course of Study of V Semester by satisfying attendance requirements.
04	VI semester to VII Semester	Regular Course of study of VI Semester by satisfying academic requirements and a minimum of 60% of credits (rounding to the near low value) from the offered credits, from two regular and two supplementary examinations of III Semester; two regular and one supplementary examinations of IV Semester; one regular and one Supplementary examination of V Semester.
05	VII Semester to VIII Semester	Regular course of study of VII semester by satisfying the academic requirements.

- 7.3** A student shall register for subjects covering 160 credits as specified and listed in the course structure, fulfill all the attendance and academic requirements for 160 credits, 'earn all 160 credits' by securing SGPA  $\geq 5.0$  ( in each semester) and CGPA ( at the end of each successive semester  $\geq 5.0$  ) to successfully complete the under graduate Program.
- 7.4** A student eligible to appear in the end semester examination for any subject/course, but absent from it or failed (thereby failing to secure 'c' grade or above) may reappear for that subject/course in the supplementary examination as and when conducted. In such cases, the CIE assessed earlier for that subject/course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.5** A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfilment of academic requirements.** The academic regulations under which the student has been readmitted shall be applicable. However, no grade allotments or SGPA/CGPA calculations will be done for the entire semester in which the student has been detained.

**7.6** A student detained **due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which the student has been re-admitted shall be applicable to him.

## **8.0 Evaluation – Distribution and Weightage of marks**

**8.1** The performance of a student in every subject/course (including Practicals) will be evaluated for 100 marks each, with 30 marks allotted for CIE (Continuous Internal Evaluation) and 70 marks for SEE (Semester End Examination).

**8.2** For theory subjects, during a semester there shall be two mid-term and two minor examinations. Each mid-term examination consists of one objective paper and one descriptive paper carrying 15 marks for descriptive and 5 marks for objective paper with the time duration of 1hour 20 minutes. Each minor examination consists of an objective paper/assignment with 10 marks with a time duration of 60 minutes/one period. The syllabus for the first minor examination shall be from unit 1 and first mid examination will be 50% of syllabus. The second minor examination will have the partial syllabus from the 3<sup>rd</sup> unit i.e., (2<sup>nd</sup> half of portion not covered in mid-1) and 4<sup>th</sup> unit (i.e., 1<sup>st</sup> half of portion). The syllabus for the second mid examination will be the remaining 50% of the syllabus. The marks secured by the student in each mid-term examination will be evaluated for 20 marks, subsequently each minor examination will be evaluated for 10 marks each. **The total marks secured by the student for the whole CIE (Continuous Internal Evaluation) will be the average of 2 mid-terms and 2 minor examinations.** If any student is absent from / would like to seek improvement in any subject of a mid- term examination, an on-line test will be conducted for him by the examination branch of the college, which will be scheduled after completion of both mid-term and minor examinations. The details of the end semester examination and the pattern of the question paper are as follows:

- The end semester examinations will be conducted for 70 marks consisting of two parts viz. i) **Part –A** for 20 Marks, ii) **Part –B** for 50 marks.
- It is mandatory to answer all questions (which include ten sub-questions) in PartA.
- Part-B consists of five questions (number from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

**8.3** For practical subjects there shall be a continuous internal evaluation during the semester for 30 marks and 70 marks for end semester practical examinations. The duration for both Internal and External Practical Examination is 3 hours. For 30 marks of Internal Evaluation of practical subjects, day to day evaluation in laboratory is done for 15 marks and internal practical examination will be assessed for 15 marks. The internal practical examination will be conducted by the concerned laboratory subject teacher (Internal Examiner) only. The external practical examination will have 2 examiners, one is the external examiner and the other is the internal examiner. The external examiner will be appointed by the examination branch of the college.

- 8.4** For the subjects that include design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing and estimation), the distribution shall be 30 marks for continuous internal evaluation (15 marks for day to day evaluation and 15 marks for internal examination) and 70 marks for semester end examination. **There shall be two internal examinations in a semester and the average of the two shall be considered for the award of marks for internal examinations.**
- 8.5** The student has to undergo a comprehensive MCQ TEST/comprehensive Viva during his VII/VIII semester, and subsequently the candidate should secure at least 50 marks out of 100, for obtaining the required credits.
- 8.6** The student during his VII semester has to register for a UG project, and subsequently get permission for implementing the project by the departmental committee. The evaluation process of the UG project is done for 100 marks; to be done in VII semester part A of the Project, and the same project should be carried out for VIII semester and be evaluated for 100 marks (External Evaluation) as part B
- 8.7** The laboratory marks, sessional marks, and the end examination marks awarded by the college are subject to scrutiny and scaling, if necessary, by a committee, constituted in this regard, with a university representative/under the guidance of the Director of Evaluation of the affiliating university. The recommendations of the committee are final and binding. The laboratory records, internal examination scripts and external examination scripts, shall be preserved as per the rules for two consecutive academic years if the respective subjects are cleared, and shall be produced before the committee as and when required.
- 8.8** A student has to secure satisfactory/unsatisfactory remarks copy from the concerned teacher in mandatory courses like environmental science, professional ethics and gender sensitization lab.
- 8.9** For mandatory courses like NCC/NCO, NSS the student should sustain his attendance by participating in the activities of the particular course  $\geq 65\%$  as minimum and obtain a 'satisfactory' participation certificate from the concerned authorities.
- 8.10** For all non-credit courses and mandatory courses no marks or letter grade is allotted.

## **9.0 Grading Procedure**

- 9.1** Marks will be awarded to the student to indicate the performance in each theory subject, laboratory/practicals, seminar, project Part A and project Part B. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item no. 8 above, a corresponding letter grade shall be given.
- 9.2** As measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE/JNTUH guidelines) and

corresponding percentage of marks shall be followed.

<b>% of marks secured in a subject/course</b>	<b>Letter Grade</b>	<b>Grade Points</b>
<b>90% to 100%</b>	<b>O (Outstanding)</b>	<b>10</b>
<b>80 and less than 90%</b>	<b>A<sup>+</sup> (Excellent)</b>	<b>9</b>
<b>70 and less than 80%</b>	<b>A (Very Good)</b>	<b>8</b>
<b>60 and less than 70%</b>	<b>B<sup>+</sup> (Good)</b>	<b>7</b>
<b>50 and less than 60%</b>	<b>B (Average)</b>	<b>6</b>
<b>40 and less than 50%</b>	<b>C (Pass)</b>	<b>5</b>
<b>Below 40%</b>	<b>F (Fail)</b>	<b>0</b>
<b>Absent</b>	<b>Ab</b>	<b>0</b>

\*\* Awarding of Letter Grade will be done for the benefit of the student.

**9.3** A student obtaining ‘**F**’ grade in any subject shall be deemed to have ‘**failed**’ and is required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered. In such cases internal marks in those subjects will remain same as those obtained earlier.

**9.4** A student who has not appeared for an examination in any subject ‘**Ab**’ grade will be allocated in that subject, and the student shall be considered ‘**failed**’. The student will be required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered.

**9.5** A letter grade will not indicate any specific percentage of marks, but states only the range of marks he/she has obtained.

**9.6** A student earns grade point (GP) in each subject/course, on the basis of the letter grade secured in that subject/course. The corresponding ‘credit points’ (CP) are computed by multiplying the grade point with credits for that particular subject/course.

**Credit points (CP) = grade points (GP) x credits... for a course**

**9.7** The student passes the subject/course only when **GP ≥ 5 (‘C’ grade or above)**

**9.8** The semester grade point average (SGPA) is calculated by dividing the sum of credit points ( $\sum CP$ ) secured from all subjects/course registered in a semester, by the total number of credits registered during the semester. SGPA is rounded off to **two decimal places**. SGPA is thus calculated as

$$SGPA = \frac{\sum_{i=1}^N C_i G_i}{\sum_{i=1}^N C_i} \dots \dots \text{for each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects, in a semester) 'N' is the no. of subjects registered for the semester (as specifically required and listed under the course structure of the parent department)  $C_i$  is the no. of credits allotted to the  $i^{\text{th}}$  subject, and  $G_i$  represents the grade points (GP) corresponding to the letter grade awarded for the  $i^{\text{th}}$  subject.

**9.9** The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in **all** registered courses in **all semesters**, and the total number of credits registered in **all** the semesters. CGPA is rounded to **two** decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$\frac{\{\sum_{j=1}^M C_j G_j\}}{\{\sum_{j=1}^M C_j\}} \dots \text{for all semester registered}$$

(i.e., up to and inclusive of S semesters,  $S \geq 2$ ),

where 'M' is the **total no. of subjects** (as specifically required and listed under the course structure of the parent department) the student has '**registered**' i.e., from 1<sup>st</sup> semester onwards up to and inclusive of the 8<sup>th</sup> semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters),  $c_j$  is the no. of credits allotted to the  $j^{\text{th}}$  subject, and  $G_j$  represents the grade point (GP) corresponding to the letter grade awarded for that  $j^{\text{th}}$  subject. After registration and completion of first year first semester, the SGPA of that semester itself can be taken as the CGPA, as there are no cumulative effects.

#### Illustration of calculation of SGPA

Course/subject	Credits	Letter Grade	Grade points	Credit Points
Course1	3	A	8	3 x 8 = 24
Course2	3	O	10	3 x 10 = 30
Course3	3	C	5	3 x 5 = 15
Course4	3	B	6	3 x 6 = 18
Course5	3	A+	9	3 x 9 = 27
Course6	1.5	B+	7	1.5 x 7 = 10.5
	<b>16.5</b>			<b>124.5</b>

$$\text{SGPA} = 124.5/16.5 = 7.55$$

#### Illustration of calculation of CGPA:

Course/subject	Credits	Letter Grade	Grade points	Credit Points
<b>I year I semester</b>				
Course1	4	A	8	4 x 8 = 32
Course2	4	O	10	4 x 10 = 40
Course3	4	C	5	4 x 5 = 20
Course4	3	B	6	3 x 6 = 18
Course5	3	A+	9	3 x 9 = 27
Course6	3	B+	7	3 x 7 = 21

<b>I year II semester</b>				
<b>Course/subject</b>	<b>Credits</b>	<b>Letter Grade</b>	<b>Grade points</b>	<b>Credit Points</b>
Course7	4	B	6	4 x 7 = 28
Course8	4	O	10	4 x 10 = 40
Course3	4	C	5	4 x 5 = 20
Course4	3	B	6	3 x 6 = 18
Course5	3	A+	9	3 x 9 = 27
Course6	1.5	B+	7	1.5 x 7 = 10.5
	Total Credits = 38.5			Total Credit Points = 301.5

$$\text{CGPA} = 301.5/38.5 = 7.83$$

**9.10** For merit ranking or comparison purposes or any other listing, **only** the ‘**rounded off**’ values of CGPAs will be used.

**9.11** For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/courses (securing **F grade**) will also be taken into account, and the credits of such subjects/courses will also be included in the multiplications and summations. After passing the failed subjects(s) newly secured grade points will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration for calculation of CGPA and SGPA.

### **10.0 Passing standards**

**10.1** A student shall be declared successful or ‘passed’ in a semester, if the student secures a  $GP \geq 5$  (‘C’ grade or above) in every subject/course in that semester (i.e. when student gets an  $SGPA \geq 5.00$  at the end of that particular semester); also a student shall be declared successful or ‘passed’ in the entire under graduate Program, only when he/she gets a  $CGPA \geq 5.00$  for the award of the degree as required.

**10.2** After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (Course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

### **11.0 Declaration of results**

**11.1** Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9

**11.2** For final percentage of marks equivalent to the computed final CGPA, the following formula may be used. **% of marks = (final CGPA-0.5) x 10**

### **12.0 Award of degree**

**12.1** A student who registers for all the specified subjects/courses as listed in the course structure and secures the required number of 160 credits (with  $CGPA \geq 5.0$ ), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘**qualified**’ for the award of the B.Tech. Degree in the chosen branch of Engineering as selected at the time of admission.

**12.2** A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

**12.3** Students with the final CGPA (at the end of the under graduate Program)  $\geq 8.00$ , and fulfilling the following condition will be awarded **'first class with distinction'**; **should have secured a final (at the end of the undergraduate Program) CGPA  $\geq 8.00$** , for each year of course study.

Students with final CGPA (at the end of the under graduate Program)  $\geq 6.50$  **but  $< 8.00$** , shall be placed in **'first class'**.

Students with final CGPA (at the end of the under graduate Program)  $\geq 5.50$  **but  $< 6.50$** , shall be placed in **'second class'**.

Students with final CGPA (at the end of the under graduate Program)  $\geq 5.00$  **but  $< 5.50$** , and all other students who qualify for the award of degree (as per 12.1) with **final CGPA  $\geq 5.00$  but  $< 5.50$** , shall be placed in **'pass class'**.

A student with final CGPA (at the end of the under graduate Program)  $< 5.00$ , **will not be eligible** for the award of the degree.

**12.4** Student who secures **CGPA  $\geq 8.00$**  consistently in all semesters will be eligible for award of **'rank'** and **'gold medal'**.

### **13.0 Withholding of results**

**13.1** If the student has not paid the fees to the college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next semester. The award or issue of the degree may also be withheld in such cases.

### **14.0 Transitory Regulations**

**14.1** A student who has discontinued for any reason, is liable to completely pay his balance annual fees, from the discontinued year to completion of the four year course.

**14.2** A student who is detained due to lack of credits or lack of attendance has to follow the existing regulations of the year in which he/she is re-admitted, with additional/substitute subjects if necessary.

### **15.0 Students Transfers**

**15.1** There shall be no branch transfers after the completion of the admission process.

**15.2** There shall be no transfers from one college/stream to another within the constituent colleges and units of the affiliating university (JNTUH).

**15.3** The students seeking transfer under the ceiling admission category to this college from any of the JNTUH affiliated Autonomous colleges or from various other Universities/institutions (National Importance, Autonomous) have to pass the failed subjects which are equivalent to the subjects of TKRCET and also pass the subjects of TKRCET which the students have not studied at the earlier institution/university. Further, though the students have passed some of the subjects at the earlier institution/university, if the same subjects are being offered in different semesters of

TKRCET, the students have to study those subjects in TKRCET in spite of the fact that those subjects are repeated.

**15.4** The students transferred from other Universities/institutions to TKRCET, shall be provided a chance of writing online internal examination **for the failed subjects/and or subjects not studied** as per the clearance (equivalence) letter issued by the university/institution, at the end of the semester as per the prescribed schedule by the college examination cell.

## **16.0 Scope**

**16.1** The academic regulations should be read as whole, for the purpose of any interpretation.

**16.2** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Governing Body of TKRCET is final.

**16.3** The College may change or amend the academic regulations, course structure or syllabi, at any time, and the changes or amendments made shall be applicable to all students with effect from the date of notification by the college authorities.

## **MALPRACTICES RULES**

### **DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS**

	<b>Nature of Malpractices/Improper conduct</b>	<b>Punishment</b>
	<i>If the candidate</i>	
1. (a)	possesses or carries accessible in the 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. The hall ticket of the candidate should be cancelled.
3.	impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from the 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 practical and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester. The candidate is also debarred for two consecutive semesters from class work and all end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of the seat. If the imposter is an outsider, he will be handed over to the police and a case will be 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. The candidate is also debarred for two consecutive semesters from class work and all end 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.	<p>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 amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of</p>	<p>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. 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 will be registered against them.</p>
7.	<p>leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.</p>	<p>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. The candidate is also debarred for two consecutive semesters from class work and all end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.</p>
8.	<p>possesses any lethal weapon or firearm in the examination hall.</p>	<p>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. The candidate is also debarred and forfeits the seat.</p>

9.	Indulges in any malpractice or improper conduct mentioned in clause 6 to 8 and is not a candidate for the particular examination or not a person connected with the college.	Student of the college 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. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to the 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.
11.	is detected copying 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 examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the PRINCIPAL/ DIRECTOR for further action to award suitable punishment.	