



**JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) ANANTAPUR  
ANANTHAPURAMU-515 002 (A.P) INDIA**

**Academic Regulations (R19) for  
B. Tech (Regular-Full time)**

*(Effective for the students admitted into I year from the Academic Year 2019-2020 onwards)*

**1. Award of B.Tech. Degree**

A student will be declared eligible for the award of the B.Tech. degree if he/she fulfils the following academic regulations:

- i. Pursues a course of study for not less than four academic years and not more than eight academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would not be counted in the maximum period permitted for graduation.
- ii. Registers for 170 credits and secures all 162 credits.
- iii. A student will be eligible to get Undergraduate degree with Honors or additional Minor chosen degree in Engineering, if he/she completes an additional 20 credits for each.
- iv. A student will be permitted to register for Honors degree or/and additional Minor degree in Engineering.

**2.** Students, who fail to fulfill all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit their seat in B.Tech. Course and their admission stands cancelled. This clause shall be read along with clause 1 (i).

**3. Programmes offered by the College:**

The following Programmes are offered at present as specializations for the B. Tech. course from 2019-20

S.No.	Name of the Programme	Programme Code
1.	Civil Engineering	01
2.	Electrical and Electronics Engineering	02
3.	Mechanical Engineering	03
4.	Electronics and Communication Engineering	04
5.	Computer Science and Engineering	05
6.	Chemical Engineering	08

**4. About Programme related terms:**

- i. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (Lecture/Tutorial) or two hours of practical work/field work per week.
- ii. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
- iii. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the Prescribed courses.

iv. Each course is assigned certain number of credits based on following criterion:

	Semester	
	Hours / Week	Credits
Theory (Lecture/Tutorial)	02	02
	03	03
	04	04
Practical	02	01
	03	1.5
	04	02
Project stage – I*	03	1.5
Project stage – II	07	07

**\* Marks shall be awarded in 7<sup>th</sup> semester, but started at end of 6<sup>th</sup> semester and completed before beginning of 7<sup>th</sup> semester.**

## **5. Course Evaluation:**

### **5.1 Course Pattern:**

- The entire course of study is for four academic years. Semester pattern shall be followed in all the academic years.
- A student eligible to appear for the end examination in a subject, but absent or has failed in the end examination may appear for that subject at the next supplementary examination when offered.
- When a student is detained due to lack of credits/shortage of attendance, he/she may be re-admitted when the semester is offered after fulfillment of academic regulations. In such case, he/she shall be governed by the academic regulations into which he/she is readmitted.

### **5.2 Evaluation Process:**

The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory and 100 marks for practical subject. Project stage-I, Socially relevant project and Internship shall be evaluated for 50 marks each & Project stage-II shall be evaluated for 200 marks whereas mandatory courses with no credits shall be evaluated for 30 internal marks.

- For theory subjects the distribution shall be 40 marks for Internal Evaluation and 60 marks for the End-Examination.
- For practical subjects the distribution shall be 40 marks for Internal Evaluation and 60 marks for the End- Examination.
- If any course contains two different branch subjects, the syllabus shall be written in two parts with 3 units each (Part-A and Part-B).
- If any subject is having both theory and practical components, they will be evaluated separately as theory subject and practical subject. However, they will be given same subject code with an extension of 'T' for theory subject and 'P' for practical subject.

### **5.3 Internal Examination Evaluation:**

- For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 40 marks of which 10 marks for objective paper (20 minutes duration), 20 marks for subjective paper (90 minutes duration) and 10 marks for assignment.

Objective paper shall be set for maximum of 20 bits for 10 marks. Descriptive paper shall contain 3 either or type questions (totally six questions from 1 to 6) of which student has to answer one from each either or type question. Each question carries 10 marks and finally scaled down to 20.

- \*Note 1:** The subjective paper shall contain 6 questions of equal weightage of 10 marks. Any fraction above shall be rounded off to the next higher mark.
- \*Note 2:** The midterm examination shall be conducted first by distribution of the Objective paper, simultaneously marking the attendance, after 20 minutes the answered objective paper shall be collected back. The student is not allowed to leave the examination hall. Then the descriptive question paper and the answer booklet shall be distributed. After 90 minutes the answered booklets are collected back.
- \*Note3:** The assignment shall contain objective type/essay type question/numerical problems/software development. It should be continuous assessment throughout the semester. There shall be at least two assignments in a semester and the average marks of the two assignments shall be considered.

If the student is absent for the internal examination, no re-exam shall be conducted and internal marks for that examination shall be considered as zero.

First midterm examination shall be conducted for I, II units of syllabus. The second midterm examination shall be conducted for III, IV and V units.

Final Internal marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the better mid exam and 20% to the other.

For Example:

Marks obtained in first mid : 25  
 Marks obtained in second mid : 20  
 Final Internal Marks:  $(25 \times 0.8) + (20 \times 0.2) = 24$

If the student is absent for any one midterm examination, the final internal marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in first mid : Absent  
 Marks obtained in second mid : 25  
 Final Internal Marks:  $(25 \times 0.8) + (0 \times 0.2) = 20$

#### 5.4 End Examination Evaluation:

- i. End examination of theory subjects shall have the following pattern:
  - a. There shall be 6 questions and all questions are compulsory.
  - b. Question I shall contain 5 compulsory short answer questions for a total of 10 marks such that each question carries 2 marks. There shall be one short answer question from each unit.
  - c. In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.
  - d. The questions from 2 to 6 shall be set by covering one question from each unit of the syllabus.
- ii. End examination of theory subjects consisting of two parts of different subjects, for Example: Electrical & Mechanical Technology shall have the following pattern:
  - a. Question paper shall be in two parts viz., Part A and Part B with equal weightage.
  - b. One question of type either or from each unit of Part A and Part B

**Note:** The answers for Part A and Part B shall be written in two separate answer books.

5.5 For practical courses, there shall be a continuous evaluation during the semester for 40 sessional marks and end examination shall be for 60 marks. Day-to-day work in the laboratory shall be evaluated for 40 marks by the concerned laboratory teacher based on the regularity/record/viva/Internal test. The end examination shall be conducted by the concerned laboratory teacher and a senior expert in the subject from the same department. For passing the laboratory examination a student shall obtain minimum 35% marks in the external examination and shall obtain minimum 40% including internal and external examinations.

In a practical subject consisting of two parts (Eg: Electrical & Mechanical Engg. Lab), the end examination shall be conducted for 30 marks in each part. Internal examination shall be evaluated as above for 20 marks in each part. Minimum of 35% of lab in each part in the end exam. i.e., 11 for each and overall student shall obtain minimum 40% including internal and external examinations.

5.6 There shall be **mandatory courses** with zero credits. There shall be no external examination. However, attendance in the audit course shall be considered while calculating aggregate attendance and student shall be declared to have passed the mandatory course only when he/she secures 40% or more in the internal examinations. In case, the student fails, a re-examination shall be conducted for failed candidates every six months/semester at a mutually convenient date of college/student satisfying the conditions mentioned in item 1 & 2 of the regulations.

5.7 For the subject having design and/or drawing, such as Engineering Drawing, the distribution of marks shall be 40 for internal evaluation and 60 for end examination.

Day-to-day work shall be evaluated for 20 marks by the concerned subject teacher based on the reports/submissions prepared in the class. And there shall be two midterm examinations in a semester for duration of 2 hours each for 20 marks with weightage of 80% to better mid marks and 20% for the other. The subjective paper shall contain 3 either or type questions. There shall be no objective paper in internal examination. The sum of day-to-day evaluation and the internal test marks will be the final sessional marks for the subject.

The end examination pattern for Engineering Graphics, shall consists of 5 questions, either/or type, of 12 marks each. There shall be no objective type questions in the end examination. However, the end examination pattern for other subjects related to design/drawing is to be mentioned along with the syllabus.

5.8 The laboratory records and internal test papers shall be preserved for a minimum of 3 years in the respective departments as per the Institution norms and shall be produced to the Committees as and when the same are asked for.

#### 5.9 Procedure for Conduct and Evaluation of MOOC:

- A student can choose any of the courses listed in open electives in VI Semester through MOOCs. The student shall register for the course (Minimum of 30 hours and maximum of 40 hours) offered by authorized Institutions/Agencies, through online with the recommendation of Head of the Department and approved by the Principal of the Institution. In case of online certification, no need of conventional evaluation, otherwise the Head of the Department shall appoint one mentor for each of the MOOC subjects offered and the mentor appointed shall conduct the internal examinations following the guidelines given in 5.3. Further, the external examination for the MOOC subject will be conducted in line with other regular subjects (5.4) based on the syllabi of the respective subject provided in the curriculum. A MOOC course may be studied either in online or in conventional manner (or) MOOC online courses conducted under SWAYAM/NPTEL/COURSERA/EDX can be given weightage as per the norms.

5.10 There shall be four Open Electives, four Professional Electives and two Humanities Electives which are **Choice Based Credit Courses (CBCC)** from V semester onwards. These courses can be pursued in MOOC manner or the Conventional manner. If the course performed by the student in MOOC manner, then no need of conventional evaluation, only certification required in such cases.

5.11 There shall be a seminar presentation in IV year I Semester. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his/her understanding over the topic, and submit to the department before presentation. The report and the presentation shall be evaluated by the Departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar shall be evaluated for 100 marks. There shall be no external examination for seminar. A student shall acquire 0.5 credits assigned to the seminar only when he/she secures 40 marks on aggregate out of 100 marks allocated. In case, if a student fails in seminar, he/she shall reappear for the makeup seminar by following a similar procedure adopted for the theory examinations.

**5.12 Minor degree in a discipline (Minor degree/Programme):**

- This concept is introduced in the curriculum of all conventional B. Tech. Programmes offering a major degree. The main objective of Minor in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. Programme. A student can get a Minor degree in a discipline other than his/her parent discipline if he/she earn 20 extra credits from the discipline in which he/she wants to acquire Minor degree through professional core/professional elective or equivalent MOOC courses pertaining to the discipline in which Minor degree is needed, available under SWAYAM platform. The list of courses to be studied either in MOOCs or conventional type will be decided by the College at the time of registration for Minor degree.
- a. Students having a CGPA of 8.0 (for SC/ST students CGPA of 7.5) or above up to II year-I semester and without any backlog subjects will be permitted to register for Minor degree. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog subjects in order to keep the Minor discipline registration live or else it will be cancelled.
- b. Students aspiring for a Minor degree must register from V semester onwards and must opt for a Minor degree in a discipline other than the discipline he/she is registered in. However, Minor discipline registrations are not allowed before V semester and after VI semester.
- c. Students will not be allowed to register and pursue more than two subjects in any semester.
- d. The Evaluation pattern of theory subjects will be similar to the regular Programme evaluation.
- e. Students may enlist their choice of Minor discipline Programmes, in order of preference, for which they wish to register. It will not be permissible to alter the choices after the application has been submitted. However, students are allowed to opt for only one Minor discipline Programme in the order of preference given by them.
- f. Minimum strength required for offering a Minor in a discipline is considered as 20% of the class size and Maximum would be 80% of the class size.
- g. Completion of a Minor discipline Programme requires no addition of time to the regular Four year Bachelors' Programme. That is, Minor discipline Programme should be completed by the end of final year B. Tech. Programme along with the major discipline.
- h. There shall be separate course/class work and time table of the various Minor Programmes. Attendance regulations for these Minor discipline Programmes will be as per regular courses.
- i. A student registered for Minor in a discipline shall pass in all subjects that constitute the requirement for the Minor degree Programme. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Minor degree Programme.
- j. The Minor in a discipline will be mentioned in the degree certificate as Bachelor of Technology in XXX with Minor in YYY. For example, Bachelor of Technology in **Computer Science & Engineering** with Minor in **Electronics & Communication Engineering**. This fact will also be reflected in the transcripts, along with the list of courses taken for Minor Programme with CGPA mentioned separately.

### 5.13 Honors degree in a discipline:

- a. This concept is introduced in the curriculum for all conventional B. Tech. Programmes. The main objective of Honors degree in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. Programme. In order to earn a Honors degree in his/her discipline, a student has to earn 20 extra credits by studying five advanced courses for 15 credits and by carrying out a mini project for 5 credits in the concerned branch of Engineering. In place of advanced courses, he/she can study equivalent MOOC courses available under SWAYAM platform, as decided by the College from time to time. The Evaluation pattern of theory subjects will be similar to the regular Programme evaluation. The mini project shall be evaluated by the committee consisting of Head of the department, Supervisor and External examiner. Students aspiring for Honors degree must register from V semester onwards. However, Honors degree registrations are not allowed before V semester and after VI semester. Student may register for mini project from V semester onwards and complete the same before VIII semester after completing at least two advanced courses or equivalent.

#### b. Procedure for Conduct and Evaluation of Honors degree Mini project:

Out of a total of 100 marks for the Mini project, 40 marks shall be for Internal Evaluation and 60 marks for the End Semester Examination (Viva-voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the College. The evaluation of project work shall be conducted at the end of the VIII semester. The Internal Evaluation shall be made by the departmental committee (Head of the Department and one senior faculty member of the Department and Supervisor).

- c. Students having a CGPA of 8.0 (for SC/ST students CGPA of 7.5) or above upto II year-I semester and without any backlog subjects will be permitted to register for degree with Honors. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog subjects in order to keep the degree with Honors registration live or else it will be cancelled and degree will be given as B.Tech. (Regular).
- d. If any student willing to register both Minor and Honors, Students having a CGPA of 8.5 (for SC/ST students CGPA of 8.0) or above upto II Year I-Semester and without any backlog subjects will be permitted.

5.14 A **Socially relevant Project** is introduced in V and VI semesters for 0.5 credits in each semester. The student has to spend 15 hrs./semester on any socially relevant project and submit a report for evaluation. This shall be evaluated for 50 marks in each of the above semesters by a committee consisting of Head of the department, Project mentor and one senior faculty member of the department. A student shall acquire 0.5 credits assigned, when he/she secures 40% or more marks for the total of 50 marks. In case, if a student fails, he/she shall resubmit the report. There shall be no external evaluation.

5.15 An **Internship/Industrial Training/Research Projects in National Laboratories/Academic Institutions** is introduced for 10 credits in the curriculum. It is introduced at the end of VI semester i.e., during summer vacation for a period of 4 weeks. The student shall submit a diary and a technical report for evaluation. This shall be evaluated in the VII semester for 50 marks by a committee consisting of Head of the Department along with two senior faculty members of the Department. A student shall acquire 10 credits assigned, when he/she secures 40% or more marks for the total of 50 marks. In case, if a student fails, he/she shall reappear as and when the VII semester supplementary examinations are conducted. There shall be no external evaluation.

Alternatively, B. Tech Civil Engineering students can take up a mini project on Water Resource Engineering in place of the above for 10 credits. Topics can be found from the Civil Engineering curriculum.

### 5.16 Procedure for Conduct and Evaluation of Project Stage – I:

There shall be a presentation of **Abstract of the main project** in the VII Semester. After selecting the specific topic, the student shall collect the information and prepare a report, showing his/her

understanding of the topic and submit the same to the department before presentation. The report and the presentation shall be evaluated by the departmental committee consisting of Head of the Department, Project supervisor and a senior faculty member. It shall be evaluated for 50 marks. A student shall acquire 1.5 credits assigned to the Project stage-I, when he/she secures 40% or more marks for the total of 50 marks. The Project stage-I shall be evaluated at the end of VII semester by the department committee. There shall be no external evaluation for Project stage-I.

In case, if a student fails in Project stage-I, a reexamination shall be conducted within a month. In case if he/she fails in the reexamination also, he/she shall not be permitted to register for Project Stage-II. Further, such students shall reappear as and when VII semester supplementary examinations are conducted.

#### **5.17 Procedure for Conduct and Evaluation of Project Stage – II:**

Out of a total of 200 marks for the **Project stage - II**, 80 marks shall be for Internal Evaluation and 120 marks for the End Semester Examination (Viva-voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the Institution. Project work shall start in VII semester and shall continue in the VIII semester. The evaluation of project work shall be conducted at the end of the VIII semester. The Internal Evaluation shall be made by the departmental committee (Head of the Department, two senior faculty members of the department and Supervisor), on the basis of two seminars given by each student on the topic of his/her project.

### **6. Attendance Requirements in Academics:**

- 6.1. A student shall be eligible to appear for University examinations if he/she acquires a minimum of 75% of attendance in aggregate of all the subjects in a semester.
- 6.2. Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.
- 6.3 Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.
- 6.4 A stipulated fee shall be payable towards condonation of shortage of attendance to the Institution.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class and their registration shall stand cancelled.
- 6.6 A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester when offered next.

### **7. Minimum Academic Requirements and Award of the Degree:**

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in section 6.

7.1 A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing subject or project if he secures not less than 35% of marks in the end examination and a minimum of 40% of marks (Sum of Internal and External Marks). In case of mandatory courses he/she should secure 40% of the total marks.

7.2 A student shall be promoted from IV to V Semester only if he/she fulfils the academic requirement of securing 40% of the credits in the subjects that have been studied up to III semester from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.

- One regular and two supplementary examinations of I Semester.
- One regular and one supplementary examination of II Semester.
- One regular examination of III semester.

7.3 A student shall be promoted from VI semester to VII semester only if he/she fulfils the academic requirements of securing 40% of the credits in the subjects that have been studied up to VI semester from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.

One regular and four supplementary examinations of I Semester.

One regular and three supplementary examinations of II Semester.

One regular and two supplementary examinations of III Semester.

One regular and one supplementary examinations of IV Semester.

One regular examination of V Semester.

And in case a student is detained for want of credits for particular academic year by sections 7.2 and 7.3 above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester as the case may be.

7.4 A student shall register and put up minimum attendance in all 170 credits and earn all the 170 credits.

7.5 Students who fail to earn 170 credits as indicated in the course structure within eight academic years from the year of their admission shall forfeit their seat in B.Tech. course and their admission shall stand cancelled, subjected to clause 1(i).

### **8. With-holding of Results:**

If the candidate has any dues not paid to the College or if any case of indiscipline or malpractice is pending against him/her or candidate or student, the result of the candidate shall be withheld and the candidate will not be allowed/promoted into the next higher semester. The issue of awarding degree is liable to be withheld in such cases.

### **9. Award of Grades:**

After each subject is evaluated for 100 marks, the marks obtained in each subject will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

**Structure of Grading of Academic Performance**

Range in which the marks in the subject fall	Grade	Grade points Assigned
$\geq 90$	S (Superlative)	10
80-89	A (Excellent)	9
70-79	B (Very Good)	8
60-69	C (Good)	7
50-59	D (Average)	6
40-49	E (Below Average)	5
$< 40$	F (Fail)	0
Absent	Ab (Absent)	0

- A student obtaining Grade 'F' or Grade 'Ab' in a subject shall be considered failed and will be required to reappear for that subject when it is offered the next supplementary examination.
- For mandatory courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.

### **9.1. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):**

- The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,



$$SGPA = \Sigma (C_i \times G_i) / \Sigma C_i$$

where,  $C_i$  is the number of credits of the  $i^{th}$  subject and  $G_i$  is the grade point scored by the student in the  $i^{th}$  course.

- ii. The Cumulative Grade Point Average (CGPA) will be computed in the same manner taking into account all the courses undergone by a student over all the semesters of a Programme, i.e.,

$$CGPA = \Sigma (C_i \times S_i) / \Sigma C_i$$

where " $S_i$ " is the SGPA of the  $i^{th}$  semester and  $C_i$  is the total number of credits upto that semester.

- iii. Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

- iv. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

*Grade Point:* It is a numerical weight allotted to each letter grade on a 10-point scale.

*Letter Grade:* It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.

#### 10. Award of Class:

After a student has satisfied the requirements prescribed for the completion of the Programme and is eligible for the award of B. Tech. degree he/she shall be placed in one of the following four classes

Class Awarded	CGPA Secured
First Class with Distinction	$\geq 7.5$
First Class	$\geq 6.5 < 7.5$
Second Class	$\geq 5.5 < 6.5$
Pass Class	$\geq 4.5 < 5.5$

#### 11. Gap Year Concept:

Gap year concept for Student Entrepreneur in Residence is introduced and outstanding students who wish to pursue entrepreneurship are allowed to take a break of one year at any time after II year to pursue full-time entrepreneurship. This period may be extended to two years at the most and these two years would not be counted for the time for the maximum time for graduation. The Principal of the college shall take the decision on proposals submitted by the students. An evaluation committee constituted by the Principal of the College shall evaluate the proposal submitted by the student and the committee shall decide whether to permit the student(s) to avail the Gap Year or not.

#### 12. Transitory Regulations:

Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfillment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

Candidates who are permitted to avail Gap Year shall be eligible for rejoining into the succeeding year of their B. Tech from the date of commencement of class work, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

**13. Minimum Instruction Days for a Semester:**

The minimum instruction days including exams for each semester shall be 90 working days.

**14. Medium of Instruction:**

The Medium of Instruction is **English** for all courses, laboratories, internal and external examinations, Comprehensive Viva-Voce, seminar presentations and project reports.

**15. Student Transfers:**

Student transfers shall be as per the guidelines issued by the Government of Andhra Pradesh and the University from time to time.

**16. General Instructions:**

- a. The academic regulations should be read as a whole for purpose of any interpretation.
- b. Malpractices rules-nature and punishments are appended.
- c. Where the words “he”, “him”, “his”, occur in the regulations, they also include “she”, “her”, “hers”, respectively.
- d. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.
- e. The Principal may change or amend the academic regulations of common B.o.S or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the Principal.
- f. The above rules and regulations are to be approved/ratified by the College Academic Council as and when any modifications are to be done.

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## **ACADEMIC REGULATIONS FOR B. TECH.(R19)** **(LATERAL ENTRY SCHEME)**

*(Effective for the students getting admitted into II year through Lateral Entry Scheme from the Academic Year 2019-2020 and onwards)*

### **1. Award of B.Tech. Degree**

A student admitted in Lateral Entry Scheme (LES) will be declared eligible for the award of the B.Tech degree if the student fulfills the following academic regulations:

- a) Pursues a course of study for not less than three academic years and not more than six academic years.
  - b) Registers for 130.5 credits and secures all 130.5 credits from II to IV year of Regular B. Tech. Programme.
2. Students, who fail to fulfill the requirement for the award of the degree within six consecutive academic years from the year of admission, shall forfeit their seat.
3. The regulations 3 to 6 except 5.1 are to be adopted as that of B. Tech. (Regular).

### **4. Minimum Academic Requirements:**

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in item no.5

- i. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing subject or project if he secures not less than 35 % of marks in the end examination and a minimum of 40% of marks in the sum total of the internal evaluation and end examination taken together.
- ii. A student shall be promoted from third year to fourth year only if the student fulfills the academic requirements of securing 40% of credits from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.
  - a. One regular and Two supplementary examinations of III semester.
  - b. One regular and one supplementary examinations of IV semester.
  - c. One regular examination of V semester.

And in case if student is already detained for want of credits for particular academic year, the student may make up the credits through supplementary exams of the above exams before the commencement of IV year I semester class work of next year.

### **5. Course Pattern**

- 5.1. The entire course of study is three academic years on semester pattern.
- 5.2. A student eligible to appear for the end examination in a subject, but absent at it or has failed in the end examination may appear for that subject at the next supplementary examination offered.
- 5.3. When a student is detained due to lack of credits/shortage of attendance the student may be re-admitted when the semester is offered after fulfillment of academic regulations, the student shall be in the academic regulations into which he/she is readmitted.

6. The regulations **8 to 16** are to be adopted as that of B. Tech. (Regular). All other regulations as applicable for B. Tech. Four-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).

## **7. Minimum Academic Requirements and Award of the Degree:**

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in section 6 of B.Tech. (Regular).

7.1 A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing subject or project if he secures not less than 35% of marks in the end examination and a minimum of 40% of marks in the sum total of the internal and end examination marks taken together. In case of mandatory courses he/she should secure 40% of the total marks.

7.2 A lateral entry student shall be promoted from VI semester to VII semester only if he/she fulfils the academic requirements of securing 40% of the credits in the subjects that have been studied up to VI semester from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.

One regular and two supplementary examinations of III Semester.

One regular and one supplementary examinations of IV Semester.

One regular examination of V Semester.

And in case a student is detained for want of credits for particular academic year by section 7.2 above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the VII semester as the case may be.

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

S. No.	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.
1 (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.
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 for four consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of 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 four consecutive semesters from class work and all examinations, if his involvement is established. Otherwise, the candidate is debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the

		remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all 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 only.
6	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	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. If the candidate physically assaults the invigilator/ officer-in-charge of the Examinations, then the candidate is also debarred and forfeits his/her seat. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7	Leaves the exam hall taking away answer script or Intentionally tears of the script or any part there of 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 the 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 only or in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester / year examinations, depending on the recommendation of the committee.
12	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the Institution for further action to award suitable punishment.	

**Note: -**

**Whenever the performance of a student is cancelled in any subject/subjects due to Malpractice, he has to register for End Examinations in that subject/subjects consequently and has to fulfill all the norms required for the award of Degree.**