



# **Jawaharlal Nehru Technological University Anantapur**

*(Established by Govt. of A.P., Act. No. 30 of 2008)*

**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)

and

## **Academic Regulations (R19) for B.Tech.(Lateral Entry Scheme)**

(Effective for the students getting admitted into II year through Lateral Entry  
Scheme from the Academic Year 2020-2021 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 A student has to pursue 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 A student has to register for 160 credits and secure all 160 credits to get B.Tech. degree
  - iii A student will be eligible to get B.Tech. degree with Honours or a Minor if he/she completes an additional 20 credits.
  - iv A student will be permitted to register either for Honours or a Minor Engineering but not both.
2. Students, who fail to fulfil 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.

### 3. Programs offered by the University:

The following programs are offered at present as specializations for the B. Tech. course for non-autonomous, constituent & affiliated colleges from 2019-2020.

| S.No. | Name of the Program                       | Program 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.    | Information Technology                    | 12           |
| 7.    | Food Technology                           | 27           |

and any other course as approved by the authorities of the University from time to time.

### 4. About Program 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       |         |
|---------------------------|----------------|---------|
|                           | Periods / Week | Credits |
| Theory (Lecture/Tutorial) | 02             | 02      |
|                           | 03             | 03      |
|                           | 04             | 04      |
| Practical                 | 02             | 01      |
|                           | 03             | 1.5     |
|                           | 04             | 02      |

## 5. Weights for 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 fulfilment of academic regulations. In such case, he/she shall be in 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. Socially relevant project and Internship shall be evaluated for 50 marks each & Project work shall be evaluated for 200 marks whereas mandatory courses with no credits shall be evaluated for 30 mid semester marks.

- For theory subjects the distribution shall be 30 marks for mid semester Evaluation and 70 marks for the End-Examination.
- For practical subjects, the distribution shall be 30 marks for mid semester Evaluation and 70 marks for the End- Examination.
- 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 Evaluation:

For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks of which 10 marks for objective paper (20 minutes duration), 15 marks for subjective paper (90 minutes duration) and 5 marks for continuous evaluation in the form of assignments.



Objective paper shall be set for maximum of 20 bits for 10 marks. Subjective 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 of question. Each question carries 5 marks.

**\*Note 1:** The subjective paper shall contain 6 questions of equal weightage of 5 marks. Any fraction (0.5 & above) shall be rounded off to the next higher mark.

**\*Note 2:** The Objective paper shall be conducted online by the college on the day of subjective paper test.

**\*Note 3:** Five assignments shall be given and evaluated.

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

First midterm examination shall be conducted for I, II units of syllabus with one either or type question from each unit and third either or type question from both the units. The second midterm examination shall be conducted for III, IV and V units with one either or type question from each unit.

Final mid semester 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 mid semester Marks:  $(25 \times 0.8) + (20 \times 0.2) = 24$

If the student is absent for any one midterm examination, the final mid semester mark 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 mid semester 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 10 compulsory short answer questions for a total of 20 marks such that each question carries 2 marks. There shall be two short answer questions from each unit.



- c) In each of the questions from 2 to 6, there shall be either/or type questions of 10marks each. Student shall answer any one of them.
  - d) The questions from 2 to 6 shall be set by covering one unit of the syllabus for each question.
- 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) In each part, there shall be 3 either-or type questions for 12,12 and 11 marks.

5.5 For practical courses, there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the laboratory shall be evaluated for 30 marks by the concerned laboratory teacher based on the regularity/record/viva/mid semester test. The end examination shall be conducted by the concerned laboratory teacher and a senior expert in the subject from the same department. In a practical subject consisting of two parts (Ex: Electrical & Mechanical Engineering Lab), the end examination shall be conducted for 35 marks in each part. Mid semester examination shall be evaluated as above for 30 marks in each part and final mid semester marks shall be arrived by considering the average of marks obtained in two parts.

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 examination. 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 30 for mid semester evaluation and 70 for end examination.

Day-to-day work shall be evaluated for 15 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 15 marks with weightage of 80% to better mid marks and 20% for the other. The subjective paper shall contain 3 either or type questions of equal weightage of 5 marks. There shall be no objective paper in mid semester examination. The



sum of day-to-day evaluation and the mid semester 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 14 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 mentioned along with the syllabus.

5.8 Laboratory marks and the sessional marks awarded by the college are not final. They are subject to scrutiny and scaling by the University wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled as per the scaling factor. The recommendations of the Committee are final and binding.

5.9 The laboratory records and mid semester test papers shall be preserved for a minimum of 2 years in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

5.10 **Choice Based Credit Courses (CBCC):**

There shall be four professional elective courses, four open elective courses and two humanities elective courses, which are Choice Based Credit Courses (CBCC), offered from V semester onwards. Among them, professional elective course offered in VI semester shall be pursued through MOOCs. The student shall register for the course (Minimum of 12 weeks) offered by SWAYAM/NPTEL through online with the approval of Head of the Department. The Head of the Department shall appoint one mentor to monitor the student's assignment submissions given by SWAYAM/NPTEL. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits assigned in the curriculum only by submission of the certificate. In case, if student does not pass subject registered through SWAYAM/NPTEL, the University shall conduct the external examination for the MOOC subject for 100 marks based on the syllabi of the respective subject provided in the curriculum.

5.11 **Minor degree in a discipline(Minor degree/programme):**

This concept is introduced in the curriculum of all conventional B.Tech. program 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 optional feature of the B. Tech. program. To earn a Minor in a discipline a student must earn 20 extra credits by studying five theory subjects for 15 credits with 3 credits each from the program core & professional elective course, as decided by the respective Board of Studies, of the minor discipline and a Project (Minor) for 5 credits.



Student may register for the Project (Minor) from V semester onwards and complete the same before VIII semester. Out of total 100 marks for the **Project (Minor)**, 30 marks shall be for Internal Evaluation and 70 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 University. 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).

- i 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 discipline programme. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) must 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.
- ii Students aspiring for a Minor must register from V semester onwards and must opt for a Minor 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.
- iii Students will not be allowed to register and pursue more than two subjects in any semester.
- iv The Evaluation pattern of theory subjects shall be similar to the regular programme evaluation.
- v Minimum strength required for offering a **Minor in a** discipline is considered as 20% of the class size and there shall be no limit on maximum strength.
- vi 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. program along with the major discipline.
- vii The Concerned Principal of the college shall arrange separate course/class work and timetable of the various Minor programmes. Attendance regulations for these Minor discipline programmes will be as per regular courses.
- viii 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.
- ix 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 Mechanical Engineering with Minor in Computer Science. This fact will also be reflected in the transcripts, along



with the list of courses taken for Minor programme with CGPA mentioned separately.

#### **5.12 Honours degree in a discipline:**

This concept is introduced in the curriculum for all conventional B. Tech. programmes. The main objective of Honours 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. To earn an Honours degree in his/her discipline, a student has to earn 20 extra credits by studying five courses with 4 credits each. The Evaluation pattern of theory subjects will be similar to the regular programme evaluation.

Students aspiring for Honours degree must register from V semester onwards. However, Honours degree registrations are not allowed before V semester and after VI semester.

- i 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 degree with Honours. 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 Honours registration live or else it will be cancelled.
- ii Students aspiring for Honours must register from V semester onwards and must opt for Honours in a discipline he/she is registered in. However, Honours registrations are not allowed before V semester and after VI semester.
- iii Students will not be allowed to register and pursue more than two subjects in any semester.
- iv The Evaluation pattern of theory subjects shall be similar to the regular programme evaluation.
- v Minimum strength required for offering Honours in a discipline is considered as 20% of the class size and there shall be no limit on maximum strength.
- vi Completion of Honours requires no addition of time to the regular Four-year Bachelors' programme. That is, Honours should be completed by the end of final year B. Tech. program along with the major discipline.
- vii The Head of the concerned department shall arrange separate course/class work and timetable for Honours. Attendance regulations for Honours will be as per regular courses.
- viii A student registered for Honours shall pass in all subjects that constitute the requirement for the Honours degree programme. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Honours degree programme.
- ix The Honours will be mentioned in the degree certificate as Bachelor of Technology (Honours) in XXX. For example, Bachelor of Technology



(Honours) in Mechanical Engineering. This fact will also be reflected in the transcripts, along with the list of courses taken for Honours programme with CGPA mentioned separately.

- 5.13      **A Socially relevant Project** is introduced in V & VI semesters for 0.5 credits in each semester. The student shall 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.
- 5.14      There shall be one Comprehensive online examination with **zero credits** conducted by the college at the end of VI semester with 100 objective questions for 100 marks on the subjects studied up to VI semester. Student shall be declared to have passed the Comprehensive online examination only when he/she secures 40% or more marks in the examination. In case, the student fails, reexam shall be conducted in a month. If the student is unable to secure 40% marks in reexam, then he/she shall reappear as and when VI semester supplementary examinations are conducted.
- 5.15      **Internship/Industrial Training/Research Projects in National Laboratories/ Academic Institutions:**  
An Internship/Industrial Training/Research Projects in National Laboratories/Academic Institutions in physical or virtual mode is introduced for 2 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 2 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.
- 5.16      **Procedure for Conduct and Evaluation of Project Work:**  
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 students start working on selected topic immediately after VII semester examinations.  
Out of a total of 200 marks for the Project Work, 60 marks shall be for Internal Evaluation and 140 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 University. 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), based on 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 University.
- 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 re-admission 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.

- 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 mid semester and end examination marks taken together. In case of mandatory courses he/she should secure 40% of the total marks.
- ii. A student shall be promoted from IV to V Semester only if he/she fulfils the academic requirement of securing 40% of the credits (any decimal fraction should be rounded off to lower digit) 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.

- iii. 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 (any decimal fraction should be rounded off to lower digit) in the subjects that have been studied up to V 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 examination 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 ii and iii 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.

- iv. A student shall register and put-up minimum attendance in all 160 credits and earn all the 160 credits.
- v. Students who fail to earn 160 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.

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

If the candidate has any dues not paid to the university 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<br>in the subject fall | Grade             | Grade points<br>Assigned |
|-------------------------------------------------|-------------------|--------------------------|
| $\geq 90$                                       | S (Superior)      | 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                        |

- i. 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.
- ii. 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.

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

- i 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  $i^{\text{th}}$  subject and  $G_i$  is the grade point scored by the student in the  $i^{\text{th}}$  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 program, i.e.,

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

where " $S_i$ " is the SGPA of the  $i^{\text{th}}$  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 program 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                   | $\geq 5.0 < 5.5$ |

**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 respective college shall forward such proposals submitted by the students to the University. An evaluation committee constituted by the University 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 fulfilment 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 re-joining 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 days.



**14. Medium of Instruction:**

The Medium of Instruction is **English** for all courses, laboratories, mid semester 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:**

- i. The academic regulations should be read as a whole for purpose of any interpretation.
- i. Malpractices rules-nature and punishments are appended.
- ii. Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.
- iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- iv. The University may change or amend the academic regulations 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 University.

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

*(Effective for the students getting admitted into II year through Lateral Entry Scheme from the Academic Year 2020-2021 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 fulfils the following academic regulations:

- i. Pursues a course of study for not less than three academic years and not more than six academic years.
  - ii. Registers for 120.5 credits and secures all 120.5 credits from II to IV year of Regular B. Tech. program.
- 2.** Students, who fail to fulfil 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 mid semester evaluation and end examination taken together.
- ii. A student shall be promoted from third year to fourth year only if the student fulfils the academic requirements of securing 40% of credits (any **decimal** fraction should be **rounded off to lower** digit) 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 examination of IV semester.  
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 itor 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 fulfilment 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. There shall be two mandatory courses with **zero credits**: English in III semester, Mathematics in IV semester. There shall be no external examination for these mandatory courses. However, attendance in the mandatory 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 mid semester 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.

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## RULES FOR

### DISCIPLINARY ACTION FOR MALPRACTICES / 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. |



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| 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 University 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 University examinations, if his involvement is established. Otherwise, the candidate is 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 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 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 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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| 7.  | Leaves the exam hall taking away answer script or intentionally tears of 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 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 University for further action to award suitable punishment.                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### Malpractices identified by squad or special invigilators

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)
3. A show cause notice shall be issued to the college.
4. Impose a suitable fine on the college.
5. Shifting the examination centre from the college to another college for a specific period of not less than one year.

#### 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 fulfil all the norms required for the award of Degree.**

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## RULES FOR

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

|       | Nature of Malpractices/Improper conduct                                                                                                                                                                                                                                                                                                                                                                                              | Punishment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|       | <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 for four 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. 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 University examinations, if his involvement is established. Otherwise, the candidate is 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 imposter is an outsider, he will be handed over to the police and a case is registered against him. |



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| 4. | Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.                                              |
| 5. | Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cancellation of the performance in that subject 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. |
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| 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                                                                                                                                                                                                                                                                                                      |



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|     |                                                                                                                                                                       | 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. |
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| 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 to award suitable punishment. |                                                                                                                                                                                                                                                                                                      |

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