

# VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution

Aziznagar Gate, C.B. Post, Hyderabad - 500 075, Telangana.



## ACADEMIC REGULATIONS (R15)

*for*

**B.Tech Four Year Degree Programme**

(Applicable for the batches admitted from the Academic Year 2015-2016 onwards)

## Definitions of Key Words:

**Academic Year:** Two consecutive semesters constitute one academic year.

**Course:** A plan of study of a particular subject leading to an examination. All the courses need not carry the same weight. A course may be designed to comprise of lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/ viva/ seminars/ assignments/ presentations etc. or a combination of some of these.

**Choice Based Credit System (CBCS):** Choice Based Credit System (CBCS) is the programme in which the students have a choice to choose from the prescribed courses and can learn at their own pace and the entire assessment is graded-based on a credit system.

**Credit Point:** It is the product of Grade Point and Number of Credits for a course.

**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 or tutorial) or two hours of practical work/ field work per week.

**Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student of all the semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to 2nd decimal place.

**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 O, A+, A, B+, B, C, P and F.

**Programme:** An Educational Programme leading to award of a Degree.

**Semester Grade Point Average (SGPA):** It is a measure of performance of the work done by the student in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to 2nd decimal place.

**Semester:** Each semester will consist of 16-18 weeks in academic work equivalent to 90 actual teaching days.

**Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

**Types of Courses:** The Courses in under B.Tech, program may be of three kinds viz., Core, Elective and Mandatory.

**a) Core Course:-**

There may be a Core Course in every semester, and are to be compulsorily studied by a student and is essential requirement for a Programme.

**b) Elective Course:-**

Elective Course is a course which can be chosen from a pool of subjects. It may be:

- Supportive to the discipline of study
- Providing an expanded scope of the course subjects
- Enabling an exposure to some other discipline/domain
- Nurturing student's proficiency/skill/Research.

An elective may be "Discipline centric" or may be chosen from other disciplines, and is called an "Open Elective."

**c) Mandatory Courses (Non-Credit Courses)**

- \* Stipulated number of Mandatory courses among the designated ones is compulsory requirement for all Students for the award of B.Tech., degree.
- \* Minimum attendance requirement as per the regulations is compulsory for completing the mandatory courses.
- \* Although mandatory courses are Non-Credit Course, all the students should secure a minimum of 40% marks in the end sem. exam conducted by the college along with the other examinations for the award of B.Tech., degree.
- \* Performance in these courses is evaluated as Satisfactory/ Unsatisfactory

## ACADEMIC REGULATIONS FOR B. TECH. (REGULAR)

Applicable for the students of B. Tech. (Regular) from the Academic Year 2015-16 onwards

### 1. Courses of Study:

The following Four year Bachelor of Technology (B. Tech.) Programmes under Choice Based Credit System (CBCS) are offered with effect from the Academic Year 2015-2016 onwards:

S. No.	Branch	Branch Code
I	Civil Engineering	01
II	Electrical and Electronics Engineering	02
III	Mechanical Engineering	03
IV	Electronics and Communication Engineering	04
V	Computer Science and Engineering	05
VI	Information Technology	12

### 2. Admission Procedure

- 2.1. Admissions will be done as per the norms prescribed by the Government of Telangana State.
- 2.2. The Government orders with regard to the admissions in vogue shall prevail.
- 2.3. The candidate should have passed the prescribed qualifying examination on the date of Admission.

### 3. Award of B. Tech. Degree

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

- 3.1 The candidate shall register for 192 credits and secure all the 192 credits by securing a minimum CGPA of 5.0.
- 3.2 The external examination in all the subjects shall be conducted at the end of each semester for all the eight semesters.
- 3.3 Students joining the B.Tech. Programme shall have to complete the programme within 8 years from the year of joining. Similarly, the students joining the B.Tech. Programme in the third semester directly through Lateral Entry Scheme (LES) shall have to complete the programme within 6 years from the year of joining otherwise they shall forfeit they will not be permitted to pursue their studies nor will be allowed to write the exams.

### 4. Course Structure:

- 4.1 The course shall be of Four Academic year's duration, each Academic year having Two Semesters with eight semesters in all. Each semester shall have minimum **16** weeks of instruction, with a minimum of **90** Instructional Days per Semester.

#### 4.2 Credits :

Credits shall be assigned to each Subject / Courses in a L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) Structure, based on the following general pattern.

Type of course		Clock hour/week			
		L	T	P	C
Theory	1)	04	01	-	04
	2)	03	01	-	03
	3)	02	01	-	02
Practical		0	0	03	02
Drawing	1)	0	04	-	02
	2)	02	02	-	03
	3)	00	06	-	03
Mini project, Comprehensive Viva Voce Seminar, Major project		-	-	-	16

#### 5. Attendance Requirements

- 5.1 A student is eligible to write the Semester End examinations only if he / she acquire a minimum of 75% of attendance in aggregate of all the subjects/Courses in that Semester.
- 5.2 Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted on medical grounds with a documentary evidence approved by the Academic Committee
- 5.3 A stipulated fee shall be payable towards condonation of shortage of attendance.
- 5.4 Students whose shortage of attendance is not condoned are not eligible to write semester end examinations of that semester. Such students are detained and their registration for examination stands cancelled.
- 5.5 A student detained due to shortage of attendance in a semester may seek re-admission into that semester, as and when offered, within four weeks from the date of the commencement of class work with the academic regulations of the batch into which he/she gets admitted.
- 5.6 A student will be promoted to the next semester if he/she satisfies the attendance requirement of the present semester.
- 5.7 For all mandatory, non credit courses offered in a semester, a “Satisfactory Participation Certificate” shall be issued to the student, only after securing  $\geq 75\%$  attendance in such a course. Letter Grade shall be allotted for these courses.

**The courses offered in 8 semesters spread over 4 years have been classified into 8 categories under CBCS.**

S. No.	Subject categories	No. of Credits
1	Humanities and Social Sciences (HS) Subjects, English, Management and the courses dealing with personality development	<b>15</b>
2	Basic Sciences (BS) Subjects including Mathematics, Physics and Chemistry	<b>30</b>
3	Engineering Sciences (ES), Engg. Workshop, Drawing, Fundamentals of computer Science and courses dealing with the basics of Electrical / Electronics/ Mechanical engineering	<b>30</b>
4	Professional Core (PC) Subjects, Courses dealing with the concerned engineering branch	<b>70</b>
5	Professional Elective (PE) Subjects. The students opt electives offered by the department	<b>18</b>
6	Open Elective (OE) Subjects. Courses offered by the other branches representing technically important subjects from emerging areas.	<b>9</b>
7	Project Work, Seminar and/ or Internship in Industry or elsewhere.	<b>20</b>
8	Mandatory Courses (MC)	<b>nil</b>
<b>Total Number of credits</b>		<b>192</b>

**B.Tech Year wise distribution of credits under CBCS**

S.No.	Year	Semester	Credits	Total
1	1 <sup>st</sup> Year	I	25	<b>48</b>
		II	23	
2	2 <sup>nd</sup> Year	I	24	<b>48</b>
		II	24	
3	3 <sup>rd</sup> Year	I	24	<b>48</b>
		II	24	
4	4 <sup>th</sup> Year	I	24	<b>48</b>
		II	24	
<b>Total No. of Credits</b>				<b>192</b>

## **6. Promotion regulations**

- 6.1 A student shall be promoted from I Year to II Year only if he/she fulfills the academic requirements of securing 50% of total credits (24 credits out of 48 credits) upto I year II Semester, from all the examinations, whether or not the candidate takes the examinations.
- 6.2 A student shall be promoted from II Year to III Year only if he/she fulfills the academic requirements of securing 50% of total credits (48 out of 96 credits) up to II year II semester, from all the examinations, whether or not the candidate takes the examinations.
- 6.3 A student shall be promoted from III year to IV year only if he/she fulfills the academic requirements of securing 50% of total credits (72 out of 144 credits) up to III year II semester, from all the examinations, whether or not the candidate takes the examinations.

## **7. Minimum Academic Requirements**

The following minimum academic requirements are to be satisfied in addition to the requirements mentioned in item no.5.

- 7.1 A student shall be deemed to have satisfied the minimum academic requirements and has earned the credits allotted to each theory/practical/design/drawing subject/project and secured not less than 35% marks in Semester End Examination (SEE), and minimum 40% of marks in the sum total of the internal evaluation and end examination taken together.
- 7.2 The student has to pass the failed course by appearing the supplementary examination as per the requirement for the award of degree.
- 7.3 Students, who fail to earn 192 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 stands cancelled.
- 7.4 A student shall register and put up minimum Attendance and earn all 192 Credits for the award of degree.
- 7.5 When a student is detained due to shortage of attendance in any semester, no Grade allotments or SGPA/CGPA calculations will be done for that entire Semester in which he got detained.
- 7.6 When a Student is detained due to lack of Credits in any year, he may be readmitted after fulfillment of the Academic Requirements, with the Academic Regulations of the Batch into which he gets readmitted for readmitted candidates. If there are any Professional Electives / Open Electives, the same may also be re-registered if offered. However, if those Electives are not offered in later Semesters, then alternate Electives may be chosen from the SAME set of Elective Subjects offered under that category.
- 7.7 After securing 192 Credits as specified for the successful completion of the entire UGP, an exemption of 6 Credits (two subjects with 3 credits each) may be permitted to drop resulting in 186 Credits for UGP performance evaluation. Accordingly, the performance of student in 186 Credits shall be taken into account for the calculation of 'the final CGPA and shall be indicated in the Grade Card. However, the student's performances in the earlier individual Semesters, with the corresponding SGPA for which already Grade Cards are given, will not be altered. Further, the optional drop out for such 6 Credits shall not be allowed for i) Laboratory courses, ii) Industrial Training / Mini-Project, iii) Seminar, iv) Major Project v) Open electives.

- 7.8 A student is eligible to appear in the End Semester Examination in any Subject / Course, but absent at it or failed (thereby failing to secure P Grade or above), may reappear for that Subject /Course at the supplementary exam as and when the examinations are conducted. In such cases, his Continuous Internal Evaluation(CIE) assessed earlier for that Subject/Course will be carried over, and added to the marks to be obtained in the supplementary examinations, for evaluating the performance in that subject
- 7.9 A student with final CGPA (at the end of the UGP) < 5.00 will not be eligible for the Award of the Degree.

## **8 Evaluation - Distribution and Weightage of Marks**

- 8.1 The performance of a student in each semester shall be evaluated Subject-wise (irrespective of Credits assigned) for a maximum of 100 marks for Theory or Seminar or Drawing/Design or Industry Oriented Mini-Project or Minor Course, etc. For Practical's a maximum of 75 Marks shall be evaluated. However the B. Tech. Project work (Major Project) will be evaluated for 200 Marks. These evaluations shall be based on 25% CIE (Continuous Internal Evaluation) and 75% SEE (Semester End Examinations) and a Letter Grade corresponding to the % marks obtained shall be given.
- 8.2 For theory subjects the distribution shall be 25 marks for Continuous Internal Evaluation (CIE) and 75 marks for the Semester End- Examination (SEE).
- 8.3 For theory subjects, during the semester there shall be 2 midterm examinations. Each midterm examination is conducted for 20 marks and consists of Part-A (Short Answers) for 6 marks and Part-B (Long Answers) for 14 marks with duration of 90 Minutes and an assignment carrying 5 marks. First midterm examination shall be conducted for 2.5 units of syllabus and second midterm Examination shall be conducted for remaining 2.5 units. First Assignment should be submitted before the conduct of the first mid, and the second Assignment should be submitted before the conduct of the second mid. The marks secured by the student in I and II Midterm examination are considered and the AVERAGE of the two midterm examinations shall be taken as the final marks secured by the student towards Continuous Internal Evaluation in the theory subject. If he/she is absent for any test/assignment, he/she is awarded zero marks for that test/assignment.
- 8.4 The Semester End Examination will be conducted for 75 marks which consist of two parts viz. i). Part-A for 25 marks, ii). Part –B for 50 marks. Part-A is compulsory, which consists of ten questions (numbered from 1 to 10) two from each unit carrying 2/3 marks each. Part-B consists of five questions (numbered from 11 to 15) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice (i.e., there will be two questions from each unit and the student should answer any one question).
- 8.5 For practical subjects there shall be a continuous evaluation during the Semester for 25 marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the concerned laboratory teacher.
- 8.6 The Practical End Semester Examination shall be conducted with an external examiner and the laboratory teacher for 50 marks. The external examiner shall be appointed by the Principal from the panel of examiners recommended by Chairman, Board of Studies in respective Branches.

- 8.7 For the subject having design and / or drawing, (such as Engineering Graphics, Engineering Drawing, and Machine Drawing), the distribution shall be 25 marks for Internal Evaluation (5 marks for day-to-day work and 20 marks for internal tests) and 50 marks for Semester End Examination. There shall be one internal test in a semester and shall be considered for the award of marks for internal test.
- 9 There shall be an industry-oriented mini-Project, to be taken up during the vacation after III year II Semester examination. However, the mini project and its report shall be evaluated in IV year I Semester at the time of practical exams. The industry oriented mini project shall be submitted in report form and should be presented before the committee, which shall be evaluated for 50 marks. The committee consists of an external examiner, Head of the department, the supervisor of mini project and a senior faculty member of the department. There shall be no internal marks for industry oriented mini project.
- 10 There shall be a seminar presentation in IV year II Semester. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his understanding of the topic, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, Seminar Supervisor and a Senior Faculty member. The seminar report shall be evaluated for 50 marks. There shall be no external examination for the seminar.
- 11 There shall be a Comprehensive Viva-Voce in IV year II semester. The Comprehensive Viva-Voce will be conducted by a committee consisting of Head of the Department and two Senior Faculty members of the department and is evaluated for 100 marks. The Comprehensive Viva-Voce is intended to assess the students understanding of the subjects he studied during the B. Tech. course. There will be no External Examiner for the Comprehensive Viva-Voce.
- 12 Out of a total of 200 marks for the major project work, 50 marks shall be for Internal Evaluation and 150 marks for the End Semester evaluation. The End Semester evaluation (viva-voce) shall be conducted by committee. The committee consists of an external examiner, Head of the Department, the supervisor of project and a senior faculty member of the department. The topics for industry oriented mini project, seminar and project work shall be different from each other. The evaluation of project work shall be conducted at the end of the IV year II Semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of his project.
- 13 The Laboratory marks and the sessional marks awarded by the faculty are subject to scrutiny by the Institution whenever/wherever necessary. In such cases, the sessional and laboratory marks awarded by the teacher will be referred to a College Academic Committee. The Committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the Committee are final and binding. The laboratory records and internal test papers shall be preserved as per the University rules and produced before the Committees of the University as and when asked for.
- 13.1** Candidates shall be permitted to apply for recounting/revaluation of SEE scripts within the stipulated period with payment of prescribed fee.

## 14. Malpractice Rules

S.No.	Nature of Malpractices / Improper conduct during examinations	Punishment
	If the candidate:	
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.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practical's and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all Semester end 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 Semester end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass	Cancellation of the performance in that subject.
6	Refuses to obey the orders of the Chief Superintendent / Assistant Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer – in charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty 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. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
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 & 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 Semester examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.

8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during Special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the head of Institute for further action on suitable punishment.	

All cases pertaining to Malpractices in Examinations will be pursued by the Committee Constituted by the Chief Controller of the Examination.

### 15. Grading Procedure:

15.1. Marks will be awarded to indicate the performance of each student in each theory subject, or Lab/Practical, or Seminar, or Project, or Mini-Project, Minor Course etc., based on the % marks obtained in CIE+SEE(Continuous Internal Evaluation + Semester End Examination, both taken together) as specified, and a corresponding Letter Grade shall be given.

15.2. As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades and corresponding percentage of marks shall be followed.

Letter Grade	Grade Points	% of marks Secured (Class Intervals)
O (Out Standing)	10	80% and above ( $\geq 80\%$ , $\leq 100\%$ )
A+ (Excellent)	9	Below 80% but not less than 70% ( $\geq 70\%$ , $< 80\%$ )
A (Very Good)	8	Below 70% but not less than 60% ( $\geq 60\%$ , $< 70\%$ )
B+ (Good)	7	Below 60% but not less than 55% ( $\geq 55\%$ , $< 60\%$ )
B (Above Average)	6	Below 55% but not less than 50% ( $\geq 50\%$ , $< 55\%$ )
C (Average)	5	Below 50% but not less than 45% ( $\geq 45\%$ , $< 50\%$ )
P (Pass)	4	Below 45% but not less than 40% ( $\geq 40\%$ , $< 45\%$ )
F (Fail)	0	Below 40% ( $< 40\%$ )
Ab (Absent)	0	--

15.3. A student obtaining F Grade in any Subject shall be considered 'Failed' and will be required to reappear as 'Supplementary Candidate' in the end Semester Examination (SEE), as and when offered. In such cases; his Internal Marks (CIE Marks) in those Subject(s) will remain same as those he obtained earlier.

15.4 A Letter Grade does not imply any specific % of Marks.

15.5 In general, a student shall not be permitted to repeat any Subject/Course (s) only for the sake of 'Grade Improvement' or 'SGPA/CGPA Improvement'. However, he has to repeat all the Subjects/Courses pertaining to that Semester, when he is detained.

15.6 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course (excluding Mandatory non-credit Courses). Then the corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ course. Credit Points (CP) = Grade Point (GP) x Credits for a Course

15.7 The Student passes the Subject/ Course only when he gets  $GP \geq 4$  (P Grade or above).

## 16 Registration/Dropping

16.1 Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the academic calendar. It is absolutely necessary for the student to register for courses in time.

16.2 The student has to register for a minimum of 20 credits and may register up to a maximum of 28 credits based on the advice of the Faculty Advisor. On an average, a student is expected to register for 24 credits.

- 16.3 A student at the end of II year II semester either having CGPA of  $\geq 7.0$  or having passed all previous courses in the first attempt with a minimum CGPA  $\geq 5.0$  is allowed to register for an additional course / credits from the offered open electives.
- 16.4 Open Electives are offered to students, in IV year I SEM and II sem, which can be registered by the students during III year and IV year I sem, Prior permission for registration of Open Electives as an additional course is compulsory.
- 16.5 A student would be allowed to register in an additional course only if he/she satisfies the prerequisites.
- 16.6 Departments will notify at the time of registration about the minimum number of students to be enrolled for a particular open elective to be offered.
- 16.7 Any student may be barred from registering for any course for specific reasons like disciplinary reasons, non- payment of fees, etc.
- 16.8 Dropping of Courses: Within four weeks after the commencement of the semester, the student may, in consultation with his / her faculty advisor, drop one or more courses without prejudice to the minimum number of credits. The dropped courses are not recorded in the Grade Card.
- 16.9 After Dropping, minimum credits registered shall be 20.

## **17. Earning of Credits**

A student shall be considered to have completed a Course successfully and earned the credits if he/she secures an acceptable letter grade in the range 'O' to 'P'. Letter grade 'F' in any Course implies failure of the student in that Course and no credits earned.

## **18 Passing Standards:**

- 18.1 A student shall be declared successful or 'passed' in a Semester, only when he gets a SGPA  $\geq 5.00$  (at the end of that particular Semester); and a student shall be declared successful or 'passed' in the entire UGP, only when he/she gets a CGPA  $\geq 5.00$ ; subject to the condition that he secures a GP  $\geq 4$  (P Grade or above) in every registered Subject/ Course in each Semester (during the entire UGP) for the Degree Award, as required
- 18.2 (i) In spite of securing P Grade or above in some (or all) Subjects/ Courses in any Semester, if a Student receives a SGPA  $< 5.00$  and/ or CGPA  $< 5.00$  at the end of such a Semester, then he 'may be allowed' (on the 'specific recommendations' of the Head of the Department and subsequent approval from the Principal) to be promoted to the next year in the course.
- (ii) If a student gets P grade or an SGPA is less than 5, is eligible to re appear for one or more of the same Subject(s) / course(s) in which he has secured P Grade(s) in that Semester, at the Supplementary Examinations to be held in the next subsequent Semester(s). In such cases, his Internal Marks (CIE Marks) in those Subject(s) will remain same as those obtained earlier. In these considerations, the newly secured Letter Grades will be recorded and taken into account for calculation of SGPA and CGPA, only if there is an improvement.

18.3 A Student shall be declared successful or 'passed' in any Non-Credit Subject/ Course, if he secures a 40% marks or **P** grade in the end sem exam conducted by the college along with the other examinations.

18.4 After the completion of each Semester, a Grade Card or Grade Sheet (or Transcript) shall be issued to all the registered students of that semester, indicating the Letter Grades and Credits earned. It will show the details of the courses registered (Course Code, Title, No. of Credits, Grade Earned etc.), Credits earned, SGPA, and CGPA.

## 19 Vertical Progression.

It shall also be necessary to lay down uniform minimum standards for SGPA and CGPA together with the minimum number of *credits* to be earned in a semester for the *vertical progression* of the students. This shall be used in facilitating the mobility of students from one college to another and also in avoiding any confusion among the students. The

a) Minimum Standard for SGPA =5.0; (at the end of each semester)

b) Minimum Standard for CGPA =5.0;

However, failure to secure a minimum SGPA of 5.0 at the end of any semester for the first time shall attract a warning before approval of the student to continue in the following semester and will be required to register for courses with GPA of 4.0 or less to improve the SGPA to 5.0 or above.

## 20 Eligibility for Award of B.Tech. Degree

A student shall be eligible for award of the B.Tech degree if he/she fulfils all the following Conditions:

20.1 The students should successfully complete all the components prescribed in the Programme of Study to which he/she is admitted,

20.2 Obtain CGPA greater than or equal to 5.0 (Minimum requirements for Pass),

20.3 Not having any pending disciplinary action.

## 21 Evaluating of Grade Point Averages:

21.1 SGPA and CGPA the *credit index* can be used further for calculating the Semester Grade Point Average (*SGPA*) and the Cumulative Grade Point Average (*CGPA*), both of which being important performance indices of the student. While *SGPA* is equal to the *credit index* for a semester divided by the total number of *credits* registered by the student in that semester, *CGPA* gives the sum total of *credit indices* of all the previous semesters divided by the total number of *credits* registered in all these semesters. Thus, The Grade Point Average (GPA) will be calculated according to the formula:

$$GPA = \frac{\sum C_i G_i}{\sum C_i}$$

where  $C_i$  = number of credits for the course  $i$ ,

$G_i$  = grade points obtained by the student in the course.

21.2 Semester Grade Point Average (SGPA) is awarded to candidates considering all the courses of the semester. Zero grade points are also included in this computation. SGPA is rounded off to TWO Decimal Places.

SGPA will be computed as follows;

$$\sum [(Course\ credits) \times (Grade\ points)] \text{ (for all Courses passed in that semester)}$$

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$$\sum [(Course\ credits)] \text{ (for all courses registered in that semester)}$$

21.3 To arrive at Cumulative Grade Point Average (CGPA), the formula is used considering the student's performance in all the courses taken in all the semesters completed up to the particular point of time. CGPA is rounded off to TWO Decimal Places.

CGPA will be computed as follows:

$$\sum [(Course\ credits) \times (Grade\ points)] \text{ (for all Courses passed up to that semester)}$$

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$$\sum [(Course\ credits)] \text{ (for all Courses registered until that semester)}$$

CGPA is thus computed from the I Year First Semester onwards, at the end of each Semester, as per the above formula. However, the SGPA of I year I Semester itself may be taken as the CGPA, as there are no cumulative effects

#### 21.4 Illustrative Example

An illustrative example given in below Table below indicates the use of the above two equations in calculating SGPA and CGPA, both of which facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Both of them shall be normally calculated up to the second decimal position, so that the CGPA, in particular, can be made use of in rank ordering the student's performance in a class. If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A, B etc shall be taken into account in rank ordering of the students in a class.

Year and Semester	Course No.	Credits	Grade	Grade Points	Credit Points
I Year I sem	XX101	5	A	8	40
I Year I sem	XX102	4	F	0	00
I Year I sem	XX103	3	A+	9	27
I Year I sem	XX104	4	F	0	00
I Year I sem	XX105	5	C	5	25
I Year I sem	XX106	5	P	4	20
Total		26 (18*)			112
SGPA = $112/26 = 4.31$		CGPA = 4.31			
I Year II Sem	XX107	5	B+	7	35
I Year II Sem	XX108	4	A	8	32
I Year II Sem	XX109	3	C	5	15
I Year II Sem	XX110	5	P	4	20
I Year II Sem	XX111	4	A+	9	36
I Year II Sem	XX112	2	F	0	00
I Year II Sem	Xx113	2	A	8	16
Total		25 (23*)			154
SGPA = $154/25 = 6.16$		CGPA = $266/51 = 5.22$			

\*Total No. of credits excluding those with 'F'; this is particularly important to keep track of the number of credits earned by a student up to any semester;

## 22 Award of Class

22.1 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 shall be placed in one of the following four classes:

CGPA	Class Awarded	From the CGPA secured from 192 credits
$\geq 8.00$	First Class with Distinction	
$\geq 6.50 - < 8.00$	First Class	
$\geq 5.50 - < 6.50$	Second Class	
$\geq 5.00 - < 5.50$	Pass Class	

- 21.2. The marks obtained in Internal Evaluation (IE) and Semester End Examination (SEE) will be shown in the memorandum of marks.
- 22.3 For the purpose of awarding first Class with Distinction (CGPA  $\geq$  8.0), the student must obtain the minimum required CGPA within 4 academic years or within 3 academic years in case of Lateral Entry candidates by clearing all the courses.
- 22.4 Candidates detained / prevented from writing the semester end examinations due to any reason in any semester are not eligible for the award of First Class with Distinction. Such candidate's even if the CGPA  $\geq$  8.0 shall be placed in first class.
- 22.5 For the purpose of awarding First, Second and Pass Class, CGPA obtained in the examinations appeared within the maximum period allowed for the completion of course shall be considered as per the regulations.
- 22.6 A student with final CGPA (at the end of the UGP)  $<$  5.00 will not be eligible for the Award of the Degree.
- 22.7 The CGPA can be converted to equivalent percentage of marks by using the equation.,

$$\% \text{ of Marks} = (\text{CGPA} - 0.5) \times 10$$

### **23 Consolidated Grade Card**

A consolidated grade card containing credits & grades obtained by the candidates will be issued after completion of the four years B. Tech Programme.

### **24 Withholding of Results**

If a student is having any indiscipline related issues pending, the result of the student will be withheld and will not be allowed to move into the next semester. His/ her degree will be withheld in such cases and the matter will be referred to the academic council for final decision.

### **25. Transitory Regulations**

- 25.1 Discontinued, detained, or failed candidates are eligible for readmission as and when offered during the subsequent academic year as per the college admission procedures.
- 25.2 Students on transfer shall complete the prescribed courses of the concerned programme not covered earlier. However, he/she should take the remaining courses in the programme along with the other students.
- 25.3 There shall be no branch transfers after the cutoff date of admissions made in the B.Tech. I year.

### **26. Transcripts**

After successful completion of the total programme of study, a Transcript containing performance of all academic years will be issued as a final record. Duplicate transcripts will also be issued if required after the payment of requisite fee.

## **27. Supplementary Examinations**

In addition to the Regular end semester examinations, Supplementary Examinations for the previous semesters will be conducted along with end sem. Examinations. A student can appear for any number of supplementary examinations till he/she clears all courses which he/she could not clear in the first attempt. However the maximum stipulated period cannot be relaxed under any circumstances.

## **28. Graduation Ceremony**

28.1. The College shall have its own annual Graduation Ceremony for the award of degree to students completing the prescribed academic requirements in each case, in consultation with the University and by following the provisions in the Statute.

28.2. The College shall institute Prizes and Awards to meritorious students, for being given away annually at the Graduation Ceremony.

## **29. Termination from the Program**

The admission of a student to the program may be terminated and the student may be asked to leave the Institute in the following circumstances:

29.1. The student fails to satisfy the requirements of the program within the maximum period stipulated for that program.

29.2 The student fails to satisfy the norms of discipline specified by the institute from time to time.

## **30. Non-Credit Courses (Mandatory Courses)**

30.1 Specified number of Mandatory Courses among the designated ones are compulsory requirement for all the students for the award of degree.

30.2 Although these courses do not carry any credits, performance in these subjects is evaluated following the procedure adopted for other subjects for the same marks. However, their performance will be indicated in the student's memo of marks as Satisfactory / Unsatisfactory.

30.3 Requirement of 75% attendance as per the college regulations is compulsory for completing the mandatory courses.

## **31. Amendments**

The Academic regulations here under are subject to amendments as may be made by the Academic Council of the College from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the Academic Council.

## **32. General**

32.1 Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".

32.2 The academic regulation should be read as a whole for the purpose of any interpretation.

32.3 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Academic Council is final.

32.4 The college may change the Academic Regulations, Course structure of syllabi at any time.

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

Applicable for the students admitted into II year B. Tech. (Lateral Entry Scheme) from the Academic Year 2016-17 and onwards.

### **1. Eligibility for award of B. Tech. Degree (LES)**

- 1.1 The LES candidates shall pursue a course of study for not less than three academic years and not more than six academic years.
- 1.2 The candidate shall register for 144 credits and secure 144 credits by securing a minimum CGPA of 5.0 from II to IV year B.Tech. Program (LES) for the award of B.Tech. Degree.
- 1.3 The students, who fail to fulfill the requirement for the award of the degree in **six** academic years from the year of admission, shall forfeit their seats.
- 1.4 The attendance regulations of B. Tech. (Regular) shall be applicable to B.Tech. (LES).

### **2. Promotion Rule**

A student shall be eligible for promotion in B.Tech Programme, if he/she acquires the minimum number of credits as given below:

- 2.1 A student shall be promoted from II Year to III Year only if he/she fulfils the academic requirements of securing 50% of average credits (24 credits out of 48 credits) up to II year II semester, from all the examinations, whether or not the candidate takes the examinations.
- 2.2 A student shall be promoted from III year to IV year only if he/she fulfils the academic requirements of securing 50% of average credits (48 credits out of 96 credits ) up to III year II semester, from all the examinations, whether or not the candidate takes the examinations.
- 2.3 A student shall register and put up minimum attendance in all 144 credits and earn all 144 credits to be eligible for award of B.Tech degree.
- 2.4 Students, who fail to earn 144 credits as indicated in the course structure within six academic years, shall forfeit their seat in B.Tech. Course and their admission stands cancelled.

### **3. Award of Class**

After a student has satisfied the requirement prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he shall be placed in one of the following four classes:

<b>CGPA</b>	<b>Class Awarded</b>	From the CGPA secured from 144 credits
≥8.00	First Class with Distinction	
≥6.50 - <8.00	First Class	
≥5.50 - <6.50	Second Class	
≥5.00 - <5.50	Pass Class	

4. All the other regulations as applicable to B. Tech. 4-year degree course (Regular) will hold good for B.Tech. (Lateral Entry Scheme).
5. The malpractice rules and procedures for evaluating the SGPA and CGPA are mentioned under point 14 & 21 are applicable to the later entry students.

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