

**VARDHAMAN COLLEGE OF ENGINEERING**  
**(AUTONOMOUS)**

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC and ISO 9001:2015 Certified  
Shamshabad - 501 218, Hyderabad, Telangana State, India.  
[www.vardhaman.org](http://www.vardhaman.org)

**ACADEMIC REGULATIONS**

**CHOICE BASED CREDIT SYSTEM**

**B. Tech. - Regular Four Year Degree Program**

**(For batches admitted from the Academic Year 2018 - 2019)**

**&**

**B. Tech. - Lateral Entry Scheme**

**(For batches admitted from the Academic Year 2019 - 2020)**



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## PRELIMINARY DEFINITIONS AND NOMENCLATURES

- ❖ “Autonomous Institution / College” means an institution / college designated as autonomous institute / college by University Grants Commission (UGC), as per the UGC Autonomous College Statutes.
- ❖ “Academic Autonomy” means freedom to a College in all aspects of conducting its academic programs, granted by the University for promoting excellence.
- ❖ “Commission” means University Grants Commission.
- ❖ “AICTE” means All India Council for Technical Education.
- ❖ “University” means Jawaharlal Nehru Technological University Hyderabad.
- ❖ “College” means Vardhaman College of Engineering, Hyderabad unless indicated otherwise by the context.
- ❖ “Program” means:
  - Bachelor of Technology (B. Tech.) Degree program
  - UG Degree Program: B. Tech.
- ❖ “Branch” means specialization in a program like B. Tech. Degree program in Civil Engineering, B. Tech. Degree program in Computer Science and Engineering etc.
- ❖ “Course” or “Subject” means a theory or practical subject, identified by its course-number and course-title, which is normally studied in a semester. For example, A4001:Linear Algebra and Ordinary Differential Equations, A4501:Programming for Problem Solving, etc. The description of allocation of course code is mentioned in the table 1.

**Table1: Course Code Description**

First Digit	Second Digit	Third Digit	Fourth and Fifth Digits
Indicates Program	Indicates Regulation	Indicates Department	Indicates Course Number
A : B. Tech. B : M. Tech. C : MBA	1 : R11 2 : R14 3 : R15 4 : R18	0: H&S/MBA 1 : Civil 2 : EEE 3 : MECH 4 : ECE 5 : CSE 6 : IT	01 02 .. ..

- ❖ T – Tutorial, P – Practical, D – Drawing, L – Theory, C – Credits

## FOREWORD

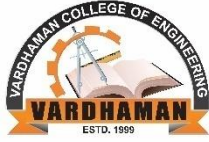
The autonomy conferred on Vardhaman College of Engineering by UGC based on its performance as well as future commitment and competency to impart quality education. It is a mark of its ability to function independently in accordance with the norms set by the monitoring bodies like UGC and AICTE. It reflects the confidence of the UGC in the autonomous institution to uphold and maintain standards it expects to deliver on its own behalf and thus awards Degrees on behalf of the college. Thus, an autonomous institution is given the freedom to have its own **curriculum, examination system and monitoring mechanism**, independent of the affiliating University but under its observance.

Vardhaman College of Engineering is proud to win the credence of all the above bodies monitoring the quality in education and has gladly accepted the responsibility of sustaining, if not improving upon the standards and ethics for which it has been striving for more than a decade in reaching its present standing in the arena of contemporary technical education. As a follow up, statutory bodies like Academic Council and Board of Studies are constituted under the guidance of the Governing Body of the College and recommendations of the JNTUH to frame the regulations, course structure and syllabi under autonomous status.

The autonomous regulations, course structure and syllabi have been prepared after a prolonged and detailed interaction with several expertise solicited from academics, industry and research, in accordance with the vision and mission of the college in order to produce quality engineering graduates for the society.

All the faculty, parents and students are requested to go through all the rules and regulations carefully. Any clarifications, if needed, are to be sought, at appropriate time and with principal of the college, without presumptions, to avoid unwanted subsequent inconveniences and embarrassments. The cooperation of all the stake holders is sought for the successful implementation of the autonomous system in the larger interests of the college and brighter prospects of engineering graduates.

**PRINCIPAL**



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## Vision:

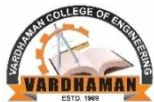
To be a pioneer institute and leader in engineering education to address societal needs through education and practice.

## Mission:

- ❖ To adopt innovative student centric learning methods.
- ❖ To enhance professional and entrepreneurial skills through industry institute interaction.
- ❖ To train the students to meet dynamic needs of the society.
- ❖ To promote research and continuing education.

## Quality Policy:

We at Vardhaman College of Engineering, endeavour to uphold excellence in all spheres by adopting best practices in effort and effect.



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## ACADEMIC REGULATIONS

**B. Tech. - Regular Four Year Degree Program  
(For batches admitted from the Academic Year 2018 - 2019)**

**&**

**B. Tech. - Lateral Entry Scheme  
(For batches admitted from the Academic Year 2019 - 2020)**

For pursuing undergraduate Bachelor Degree Program of study in Engineering (B. Tech.) offered by Vardhaman College of Engineering under Choice Based Credit System(CBCS)and herein after Vardhaman College of Engineering is referred to as VCE.

### 1. APPLICABILITY

All the rules specified herein, approved by the Academic Council, will be in force and applicable to students admitted from the academic year 2018-2019 onwards.

### 2. EXTENT

All the rules and regulations, specified hereafter shall be read as a whole for the purpose of interpretation and as and when a doubt arises, the interpretation of the Chairman of Academic Council is final. As per the requirements of statutory bodies, Principal, Vardhaman College of Engineering shall be the Chairman of the Academic Council.

### 3. ADMISSION

#### 3.1. Admission into First year of Four Year B. Tech. Degree Program of study in Engineering:

##### 3.1.1. Eligibility:

A student seeking admission into the first year of four-year B. Tech. Degree Program should have

- (i) Passed either Intermediate Public Examination (I.P.E) conducted by the Board of Intermediate Education, Telangana, with Mathematics, Physics and Chemistry as optional subjects or any equivalent examination recognized by Board of Intermediate Education, Telangana or a Diploma in Engineering in the relevant branch conducted by the Board of Technical Education, Telangana or equivalent Diploma recognized by Board of Technical Education for admission as per the guidelines of Telangana State Council for Higher Education (TSCHE).
- (ii) Secured a rank in the EAMCET examination conducted by TSCHE for allotment of a seat by the Convener, EAMCET, for admission into the program offered by the Institution.

##### 3.1.2. Admission Procedure:

Admissions are made into the first year of four-year B.Tech. Degree Program as per the stipulations of TSCHE.

- (a) Category A seats are filled by the Convener, EAMCET.
- (b) Category B seats are filled by the Management.

## 3.2. Admission into the Second year of Four Year B. Tech. Degree Program in Engineering

### 3.2.1. Eligibility:

A student seeking admission under lateral entry into the II year I semester B. Tech. Degree Program should have passed the qualifying exam (B.Sc. Mathematics & Diploma holders), based on the rank secured by the student at Engineering Common Entrance Test (FDH) in accordance with the instructions received from the Convener, ECET and Government of Telangana.

### 3.2.2. Admission Procedure:

Admissions are made into the II year of four-year B. Tech degree Program through Convener, ECET (FDH) 10% against the sanctioned strength in each Program of study under lateral entry scheme.

## 4. PROGRAMS OFFERED

**Vardhaman College of Engineering**, an autonomous college affiliated to JNTUH, offers the following B. Tech Programs of study leading to the award of B. Tech. Degree under the autonomous status.

- 1) B. Tech. - Civil Engineering
- 2) B. Tech. - Electrical and Electronics Engineering
- 3) B. Tech. - Mechanical Engineering
- 4) B. Tech. - Electronics and Communication Engineering
- 5) B. Tech. - Computer Science and Engineering
- 6) B. Tech. - Information Technology

## 5. MEDIUM OF INSTRUCTION

The medium of instruction is English for all the courses.

## 6. DURATION OF THE PROGRAMS

### 6.1. Minimum Duration

- 6.1.1. B. Tech. Degree program duration is for a period of minimum four academic years leading to the Degree of Bachelor of Technology (B.Tech.) of the Jawaharlal Nehru Technological University Hyderabad.
- 6.1.2. For students admitted under lateral entry scheme, B. Tech. Degree program duration is for a period of minimum three academic years leading to the Degree of Bachelor of Technology (B.Tech.) of the Jawaharlal Nehru Technological University Hyderabad (JNTUH).

### 6.2. Maximum Duration

- 6.2.1. The maximum period within which a student must complete a full-time academic program is eight academic years for B. Tech. If a student fails to complete the program within the maximum duration as specified above, student will forfeit the seat.
- 6.2.2. For students admitted under lateral entry scheme the maximum duration is six academic years. If a student fails to complete the program within the maximum duration as specified above, student will forfeit the seat.
- 6.2.3. The period is calculated from the academic year in which the student is admitted for the first time into the B. Tech. Degree Program.

## 7. SEMESTER STRUCTURE

The College follows semester system. An academic year consists of first semester, second semester and the summer term follows in sequence. The duration of each semester shall be of 23 weeks spell which includes time for course work, preparation and examinations. Each semester shall have a minimum of 90 instructional days.

Each semester has Continuous Internal Evaluation(CIE) and Semester End Examination(SEE). Choice Based Credit System(CBCS) and Credit Based Semester System(CBSS) as indicated by UGC and curriculum/course structure as suggested by AICTE are followed.

## 8. PROGRAM STRUCTURE

In the B.Tech. program structure, every course is placed in any one of the eight categories. The total 160 credits are distributed into these eight categories mentioned below in the table 2.

**Table 2: Category wise distribution of credits**

S.No	Broad Course Classification	Course Group/Category	Course Description	Total Credits (Approximate)
1	Foundation Courses(FnC)	BSC- Basic Sciences courses	Includes Mathematics, Physics and Chemistry	23
2		ESC- Engineering Sciences Courses	Includes Fundamental Engineering subjects	21
3		HSMC- Humanities and Social Sciences Courses including Management courses	Includes subjects related to Humanities, Social sciences and Management	12
4	Core Courses (CoC)	PCC– Professional Core Courses	Includes core subjects related to the parent discipline/Department/branch of Engineering.	57
5		PROJ : Project Work Industrial training / Mini Project Seminar	B. Tech. project or UG project or UG major project	11
			Industrial training/Internship/UG Mini-Project/Mini-Project	4
		Seminar/Colloquium based on core contents related to parent discipline/ Department/branch of Engineering	2	
6	Elective Courses (EIC).	PEC – Professional Electives Courses	Includes elective subjects related to the parent discipline/Department/branch of Engineering	18
7		OEC-Open Electives Courses	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline/Department/branch of Engineering	12
8	Mandatory Courses(MC)	-	Mandatory courses (Non-Credit)	

## 9. CREDIT BASED SYSTEM

All the academic programs under autonomy are based on credit system. Credits are assigned based on the following norms, shown in table 3.

**Table 3: Credit Representation**

Lectures (hrs/wk/Sem.)	Tutorials (hrs/wk/Sem.)	Practical Work (hrs/wk/Sem.)	Credits (L: T: P)	Total Credits
3	0	0	3:0:0	3
3	1	0	3:1:0	4
3	1	3	3:1:1.5	5.5
3	2	0	3:2:0	5
3	0	2	3:0:1	4
3	0	4	3:0:2	5
4	0	0	4:0:0	4
4	1	0	4:1:0	5
4	0	3	4:0:1.5	5.5
0	2	4	0:2:2	4
0	0	3	0:0:1.5	1.5
0	0	2	0:0:1	1
0	0	16	0:0:8	8

- 9.1. The duration of each semester will normally be 22 weeks with 6 days a week (every second Saturday will be observed as holiday). A working day shall have six lecture hours each of 60 minutes duration.
- 9.2. The four-year curriculum of any B. Tech. program of study shall have 160 credits in total. The exact requirements of credits for each course will be as recommended by the Board of Studies concerned and approved by the Academic Council.

In the case of lateral entry students, B. Tech. program of study shall have a total 122 credits.

## 10. COURSE REGISTRATION

- 10.1. A 'faculty advisor or counsellor' shall be assigned to a group of 20 students, who will advise student about the under graduate program, its course structure and curriculum, choice/option for subjects/courses, based on their competence, progress, pre-requisites and interest.
- 10.2. The college Exam cell invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be completed before the commencement of SEEs (Semester End Examinations) of the 'preceding semester'.
- 10.3. A student can apply for on-line registration, only after obtaining the 'written approval' from faculty advisor/counsellor, which should be submitted to the Examination section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/counsellor and the student.
- 10.4. If the student submits ambiguous choices or multiple options or erroneous entries during on-line registration for the subject(s)/course(s) under a given/specified course group/category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 10.5. Subject/course options exercised through on-line registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the head of the department, with due notification and time-framed schedule, within the first week after the commencement of class-work for that semester.
- 10.6. Open electives: The students have to choose one open elective (OEC-I) during III year II semester, one (OEC-II) during IV year I semester, one (OEC-III) in IV year II semester, from the list of open electives given. However, the student cannot opt for an open elective subject offered by their own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.
- 10.7. Professional Electives: students have to choose professional elective I (PEC-I) in III year I semester, Professional electives II, III (PEC-II, III) in III year II semester, Professional electives IV and V (PEC-IV and V) in IV year I semester and PEC –VI in IV year II semester, from the list of professional electives given.

## 11. SUBJECTS/ COURSES TO BE OFFERED

- 11.1. A typical section (or class) strength for each semester shall be 60.
- 11.2. A subject/course may be offered to the students, only if a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 11.3. More than one faculty member may offer the same subject (lab/practical may be included with the corresponding theory subject in the same semester) in any semester. However, selection of choice for students will be based on - 'first come first serve basis and CGPA criterion' (i.e. the first focus shall be on early on-line entry from the student for registration in that semester, and the second focus, if needed, will be on CGPA of the student).
- 11.4. If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for two (or multiple) sections.



11.5. In case of options coming from students of other departments/branches/disciplines (not considering open electives), first priority shall be given to the student of the 'parent department'.

## 12. METHOD OF EVALUATION

The performance of a student in each semester shall be evaluated subject-wise with a maximum of 100 marks each for Integrated, non-integrated courses (Either theory or lab). In addition, mini-project and internship shall be evaluated for 100 marks each and project work shall be evaluated for 200 marks ( phase I and phase II together).

### 12.1. Theory Courses

The evaluation of the students in each integrated/non-integrated course is a continuous process and is based on their performance in different examinations as mentioned below:

Integrated Courses	Continuous Internal Evaluation	Test - 1: 20 Marks Test – 2: 20 Marks Alternate Assessment : 20 Marks Practice : 40 Marks (Duration of Test 120 Minutes) Total : 100 Marks X 0.3 = 30 Marks (Duration of Test 60 Minutes)	100 Marks
	External Evaluation	Semester End Examination : 100 Marks X 0.7 = 70 Marks (Duration of Test 180 Minutes)	
Theory Courses	Continuous Internal Evaluation	Test – 1 : 40 Marks Test – 2 : 40 Marks Alternate Assessment : 20 Marks Total: 100 Marks X 0.3 = 30 Marks (Duration of Test 90 Minutes)	100 Marks
	External Evaluation	Semester End Examination : 100 Marks x 0.7 = 70 Marks (Duration of Test 180 Minutes)	
Practical Courses	Continuous Internal Evaluation	Practice Test – 1 : 50 Marks Practice Test – 2 : 50 Marks Total : 100 Marks X 0.3 = 30 Marks	100 Marks
	External Evaluation	Semester End Examination : 100 Marks X 0.7 = 70 Marks (Duration of Test 180 Minutes)	
Mini Project	Internal Evaluation	Mini Project / Summer Internship-I: 100 Marks	100 Marks
Technical Seminar	Internal Evaluation	--	100 Marks
Project Work	Internal Evaluation	60 Marks	200 Marks
	External Evaluation	140 Marks	

#### 12.1.1. Semester End Examinations (SEE):

The SEE question paper for all courses will be for a maximum of 100 marks to be answered in three hours duration and scale down to 70 marks.

12.2. For courses like Quantitative aptitude-I & 2, Verbal ability and Logical reasoning online examination will be conducted.

#### 12.3. Mini Project / Internship

The First mini-project / internship shall be carried out during the summer break for a minimum of 4 weeks after the II year II semester and shall be completed before the end of the III year I semester. The Second mini-project / internship shall be carried out during the summer break for a minimum of 4 weeks after the III year II semester and shall be completed before the end of the IV year I semester. A report has to be submitted for assessment to an internal evaluation committee comprising Head of the Department or his nominee and two faculty members of the department including the project supervisor for 100 marks each.

### **13. ATTENDANCE REQUIREMENTS TO APPEAR FOR THE END SEMESTER EXAMINATION**

A student shall be eligible to appear for the semester end examinations, if student acquires a minimum of 75% of attendance in aggregate of all the subjects/courses. Shortage of attendance in aggregate up to 10% (65% and above, and below 75%) in each semester may be condoned by the college academic committee on genuine and valid grounds, based on the student's representation with supporting evidence. A stipulated fee shall be payable towards condonation. Shortage of attendance below 65% aggregate shall not be considered for condonation.

**13.1.** Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any professional electives and/or 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.

**13.2.** Condonation for a student will be given for a maximum of four times during his/her course of study, whereas for lateral entry students it will be for a maximum of three times.

**13.3.** A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same semester.

### **14. BOARD OF EXAMINERS**

Board of Examiners (BOE) is constituted for effective monitoring the conduct of examinations and assessment processes.

### **15. EQUIVALENCE COMMITTEE**

Equivalence Committee is constituted for resolving the issues of students migrating from one regulation to the other.

### **16. EVALUATION**

**Following procedure governs the evaluation.**

**16.1.** The marks for the internal evaluation components will be added to the external evaluation marks secured in the end semester examinations to arrive at total marks for any subject in that semester.

**16.2.** Performance in all the courses is tabulated course-wise and will be scrutinized by the Examination Committee. Moderation is applied, if needed, based on the recommendations of results committee and then course-wise grade lists are finalized.

**16.3.** Student-wise tabulation is done and grade sheet is generated which is issued to the student.

### **17. REVALUATION**

Students shall be permitted to apply for revaluation after the declaration of semester end examination results within due dates by paying prescribed fee. After revaluation if there is any betterment in the grade, then improved grade will be considered. Otherwise old grade shall be retained.

### **18. SUPPLEMENTARY EXAMINATION**

#### **18.1. Supplementary Examination:**

Supplementary examinations for the odd semester shall be conducted with the regular examinations of even semester and vice versa, for those who appeared and failed or absent in regular examinations. Such students writing supplementary examinations may have to write more than one examination per day.

#### **18.2. Advanced Supplementary Examination:**

Advanced supplementary examinations will be conducted for IV year II semester after announcement of regular results.

## 19. ACADEMIC REQUIREMENTS FOR PROMOTION / COMPLETION OF REGULAR B. TECH. PROGRAM OF STUDY

The following academic requirements have to be satisfied in addition to the attendance requirements for promotion/completion of regular B. Tech. Program of study.

### For students admitted into B. Tech. program (Batches admitted from 2018–2019)

#### 19.1 Academic Requirements

- i. A student shall be deemed to have satisfied the minimum academic requirements for each Integrated, theory, practical, design, drawing subject and project, if he secures not less than 35% (24 out of 70 marks) of marks in the end semester examination and of 40% marks in the sum total of the Continuous Internal Evaluation (CIE) and Semester End Examination(SEE) taken together.
- ii. In case of mini project and seminar, a student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each of them, if he secures not less than 40% of marks.
- iii. In case of project work, a student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted, if he secures not less than 40% of marks on the aggregate in the internal evaluation and external end-evaluation taken together.
- iv. A student shall register for all credits and has to earn all the credits. Grade points obtained in all subjects shall be considered for the award of the class based on aggregate of grades.
- v. A student should register for all Mandatory courses mentioned in the curriculum and get minimum pass marks to get the degree. Grade points obtained in these courses will not be considered for awarding class.

#### 19.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.
2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 19 credits out of 38 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 48 credits out of 81 credits for Regular students i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not. But in case lateral entry students, he has to secure atleast 50% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 75 credits out of 126 credits for Regular students and 52 credits out of 88 credits for Lateral Entry students i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

### For lateral entry students (Batches admitted from 2019–2020)

For Lateral Entry students, the regulations are same as Regular students, except maximum duration to complete the program. It is six years for Lateral Entry students.

## 20. TRANSITORY REGULATIONS

For students detained due to shortage of attendance:

- 20.1. A student who has been detained in any of the semesters under old Regulations (prior to R18) due to lack of attendance, shall be permitted to join in the same semester where he/she got detained. In such case/s the readmitted student shall have to follow R18 regulations with substitute subjects wherever necessary as recommended by academic standing committee.
- 20.2. A student who has been detained for want of credits under old Regulations (prior to R18), shall be permitted to join in the next semester where he got detained, provided if the student gets required number of credits. In such case the readmitted student shall have to follow R18 regulations with substitute subjects wherever necessary as recommended by academic standing committee.
- 20.3. A student who has got detained belongs to R18 regulations for want of attendance/credits and readmitted into the next regulations has to follow the new regulations with substitute subjects wherever necessary as recommended by academic standing committee.

## 21. TRANSFER OF STUDENTS FROM OTHER COLLEGES/UNIVERSITIES

Transfer of students from other colleges or universities are permitted subjected to the rules and regulations of TSCHE (TE Department) and JNTUH in vogue.

## 22. TRANSCRIPTS

After successful completion of the entire program of study, a transcript containing performance of all academic years will be issued as a final record. Transcripts will also be issued, if required, after payment of requisite fee.

## 23. AWARD OF DEGREE

The Degree will be conferred and awarded by Jawaharlal Nehru Technological University Hyderabad on the recommendations of the Chairman, Academic Council.

### 23.1. For students admitted into B.Tech. program (Batches admitted from 2018-2019)

**Eligibility:** A student shall be eligible for the award of B. Tech. Degree, if he/she fulfils all the following conditions:

- The student shall pursue a course of study for not less than four academic years and not more than eight academic years.
- The student shall register for 160 credits and has to secure all 160 credits. Marks obtained in all 160 credits shall be considered for the award of the class based on aggregate of grades.
- The student has to obtain not less than 40% of marks (minimum requirement for declaring as passed) in all the courses.
- The student has no dues to the college, hostel, and library etc. and to any other amenities provided by the College.
- The student has no disciplinary action pending against him.
- The student should satisfy minimum requirements for all Mandatory courses.

### 23.2. For lateral entry students (Batches admitted from 2019–2020)

Same as Regular students except minimum duration which is 3 years and maximum duration which is 6 years to complete course and number of credits.

The student shall register for 122 credits and has to secure all 122 credits. Marks obtained in all 122 credits shall be considered for the award of the class based on aggregate of grades.

### 23.3. 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/she shall be placed in one of the following four classes shown in Table 5:

**Table 5: Declaration of Class based on CGPA (Cumulative Grade Point Average)**

Class Awarded	CGPA to be Secured	From the aggregate marks secured from <b>160</b> Credits for Regular Students and <b>122</b> Credits for Lateral Entry Students.
*First Class with Distinction	≥ 8.0	
**First Class	≥ 6.5	
Second Class	5.5 to <6.5	
Pass Class	5.0 to <5.5	
Fail	Below 5.0	

\* Students with final CGPA (at the end of the under graduate programme) ≥ 8.0, and fulfilling the following conditions shall be placed in '**First Class with Distinction**'.

- (i) Should have passed all the subjects/courses in 'first appearance' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a CGPA ≥ 8.0, at the end of each of the 8 sequential semesters, starting from I year I semester onwards.
- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason.

Students fulfilling the conditions listed above alone will be eligible for award of '**college rank**' and '**gold medal**'.

\*\*Students with final CGPA (at the end of the under graduate programme) ≥ 6.5, and not fulfilling the conditions listed above, shall be placed in '**First class**' only.

#### 23.4. Grade Point

It is necessary to provide equivalence of percentages and/or *GradePoint (GP)*. This shall be done by prescribing certain specific thresholds of marks in a subject.

**Table 6: Percentage Equivalence of Grade Points (For a 10-Point Scale)**

Grade	Grade Points (GP)	Percentage of Marks
O	10	≥ 90
A+	9	≥ 80 and <90
A	8	≥ 70 and < 80
B+	7	≥ 60 and <70
B	6	≥ 50 and <60
C	5	≥ 40 and <50
F	0	Below 40
AB	0	ABSENT

For calculating the final percentage of marks equivalent to the computed CGPA, the following formula may be used.

$$\text{Percentage of marks} = (\text{CGPA} - 0.5) \times 10$$

#### 23.5. Semester grade point average (SGPA)

The 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.

$$\text{SGPA (S}_i) = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

Where  $C_i$  is the number of credits of the  $i^{\text{th}}$  course and  $G_i$  is the grade point scored by student in the  $i^{\text{th}}$  course.

**Table 7: Illustration of calculation of SGPA**

Course/Subject(i)	Credits (C <sub>i</sub> )	Letter Grade	Grade Points (G <sub>i</sub> )	Credit Points C <sub>i</sub> X G <sub>i</sub>
Course 1	4	A	8	4 X 8 = 32
Course 2	4	O	10	4 X 10 = 40
Course 3	4	C	5	4 X 5 = 20
Course 4	3	B	6	3 X 6 = 18
Course 5	3	A+	9	3 X 9 = 27
Course 6	3	C	5	3 X 5 = 15
	ΣC <sub>i</sub> =21			Σ C <sub>i</sub> X G <sub>i</sub> = 152

$$SGPA = 152/21=7.24$$

### 23.6.Cumulative grade point average (CGPA)

The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

$$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

Where S<sub>i</sub> is the SGPA of the i<sup>th</sup> semester and C<sub>i</sub> is the total number of credits in that semester.

**Table 8: Illustration of calculation of CGPA**

Course/Subject(i)	Credits (C <sub>i</sub> )	LetterGrade	Grade Points (G <sub>i</sub> )	Credit Points C <sub>i</sub> X G <sub>i</sub>
<b>I Year I Semester</b>				
Course 1	4	A	8	4 X 8 =32
Course 2	4	A+	9	4 X 9 = 36
Course 3	4	B	6	4 X 6 = 24
Course 4	3	O	10	3 X 10 = 30
Course 5	3	B+	7	3 X 7 = 21
Course 6	3	A	8	3 X 8 = 24
<b>SGPA ( S<sub>i</sub>)</b>				
<b>I Year II Semester</b>				
Course 7	4	B+	7	4 X 7 = 28
Course 8	4	O	10	4 X 10 = 40
Course 9	4	A	8	4 X 8 = 32
Course 10	3	B	6	3 X 6 = 18
Course 11	3	C	5	3 X 5 = 15
Course 12	3	A+	9	3 X 9 = 27
<b>SGPA ( S<sub>i</sub>)</b>				

$$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

## 24. TERMINATION FROM THE PROGRAM

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

- I. If the student fails to satisfy the requirements of the program within the maximum period stipulated for that program.
- II. If the student fails to satisfy the norms of discipline specified by the Institute from time to time.

## 25. CURRICULUM

- I. For each program being offered by the Institute, a Board of Studies (BOS) is constituted in accordance with AICTE/UGC/JNTUH statutes.
- II. The BOS for a program is completely responsible for designing the curriculum at least once in two years for that program.

## 26. WITHHOLDING OF RESULTS

If the student has not paid any dues to the college/if any case of indiscipline/malpractice is pending against him/her, the results of the student will be withheld. The issue of the Degree is liable to be withheld in such cases.

## **27. GRIEVANCES REDRESSAL COMMITTEE**

**“Grievance and Redressal Committee” (General)** constituted by the Principal shall deal in all grievances pertaining to the academic/administrative/disciplinary matters. The composition of the complaints cum Redressal committee shall be:

- Headed by Senior Faculty member
- Heads of all departments
- A senior lady staff member from each department (if available)

The committee constituted shall submit a report to the principal of the college and the penalty to be imposed. The Principal upon receipt of the report from the committee shall, after giving an opportunity of being heard to the person complained against, submit the case with the committee's recommendation to the Governing Body of the college. The Governing Body shall confirm with or without modification the penalty recommended after duly following the prescribed procedure.

## **28. MALPRACTICE PREVENTION COMMITTEE**

A malpractice prevention committee shall be constituted to examine and punish the student who involves in malpractice/behaves in an in-disciplinary manner during the examination. The committee shall consist of:

- Principal
- Subject expert
- Head of the department to which the student belongs to
- The invigilator concerned
- Controller of Examinations

The committee constituted shall conduct the meeting on the same day of examination or latest by next working day of the incident and punish the student as per the guidelines prescribed by the JNTUH from time to time.

Any action on the part of student at the examination like trying to get undue advantage in the performance at examinations, trying to help another, or derive the same through unfair means is punishable according to the provisions contained hereunder. The involvement of the Staff who are in-charge of conducting examinations, evaluating examination papers and preparing/keeping records of documents relating to the examinations, in such acts (inclusive of providing incorrect or misleading information) that infringe upon the course of natural justice to one and all concerned at the examination shall be viewed seriously and will be recommended for appropriate punishment after thorough enquiry.

## **29. AMENDMENTS TO REGULATIONS**

The Academic Council of Vardhaman College of Engineering reserves the right to revise, amend, or change the regulations, scheme of examinations, and/or syllabi or any other policy relevant to the needs of the society or industrial requirements etc., without prior notice.

## **30. STUDENTS' FEEDBACK**

It is necessary for the College to obtain feedback from students on their course work and various academic activities conducted. For this purpose, suitable feedback forms shall be devised by the College and the feedback is obtained from the students regularly in confidence by administering the feedback form in print or on-line in electronic form.

The feedback received from the students shall be discussed at various levels of decision making at the College and the changes/improvements, if any, suggested shall be given due consideration for implementation.

## **31. GRADUATION DAY**

The College shall have its own annual *Graduation Day* for the distribution of Degrees to students completing the prescribed academic requirements in each case, in consultation with the University and by following the provisions in the Statute.

The College shall institute Prizes and Awards to meritorious students, for being given away annually at the *Graduation Day*. This will greatly encourage the students to strive for excellence in their academic work.

## **32. AWARD OF A RANK UNDER AUTONOMOUS SCHEME**

**30.1.** Merit Rank will be declared only for those students who have been directly admitted in VCE under Autonomous Regulations and complete the entire course in VCE only within the minimum possible prescribed time limit, i.e., 4 years for B. Tech. and 3 years for B. Tech. under lateral entry scheme.

**30.2.** A student shall be eligible for a merit rank at the time of award of Degree in each branch of Bachelor of Technology, provided, the student has passed all subjects prescribed for the particular Degree program in first attempt only.

### 33. CODE OF CONDUCT

33.1 Each student shall conduct himself in a manner befitting his association with VCE.

33.2 He is expected not to indulge in any activity, which is likely to bring disrepute to the college.

33.3 He should show due respect and courtesy to the teachers, administrators, officers and employees of the college and maintain cordial relationships with fellow students.

33.4 Lack of courtesy, decorum, indecorous behaviour or untoward attitude both inside and outside the college premises is strictly prohibited. Willful damage or discard of Institute's property or the belongings of fellow students are not at all accepted. Creating disturbance in studies or adopting any unfair means during the examinations or breach of rules and regulations of the Institute or any such undesirable means and activities shall constitute violation of code of conduct for the student.

**33.5 Ragging in any form is strictly prohibited and is considered a serious and punishable offence as per law. It will lead to the expulsion of the offender from the college.**

33.6 Violation of code of conduct shall invite disciplinary action which may include punishment such as reprimand, disciplinary probation, debarring from the examination, withdrawal of placement services, withholding of grades/Degrees, cancellation of registration, etc., and even expulsion from the college.

33.7 Principal, based on the reports of the warden of Institute hostel, can reprimand, impose fine or take any other suitable measures against an inmate who violates either the code of conduct or rules and regulations pertaining to college hostel.

33.8 A student may be denied the award of Degree/certificate even though he has satisfactorily completed all the academic requirements if the student is found guilty of offences warranting such an action.

33.9 Attendance is not given to the student during the suspension period.

### 34. OTHER ISSUES

The quality and standard of engineering professionals are closely linked with the level of the technical education system. As it is now recognized that these features are essential to develop the intellectual skills and knowledge of these professionals for being able to contribute to the society through productive and satisfying careers as *innovators, decision makers and/or leaders* in the global economy of the 21<sup>st</sup> century, it becomes necessary that certain improvements are introduced at different stages of their education system. These include:

- a. Selective admission of students to a Program, so that merit and aptitude for the chosen technical branch or specialization are given due consideration.
- b. Faculty recruitment and orientation, so that qualified teachers trained in good teaching methods, technical leadership and students' motivation are available.
- c. Instructional/Laboratory facilities and related physical infrastructure, so that they are adequate and are at the contemporary level.
- d. Access to good library resources and Information & Communication Technology (ICT) facilities, to develop the student's aptitude effectively.

**These requirements make it necessary for the College to introduce improvements like:**

- a. Teaching-learning process on modern lines, to provide Add-On Courses for audit/credit in a number of peripheral areas useful for students' self-development.
- b. Life-long learning opportunities for faculty, students and alumni, to facilitate their dynamic interaction with the society, industries and the world of work.
- c. Generous use of ICT and other modern technologies in everyday activities.

### 35. SCOPE

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

35.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.

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

### 36. GENERAL

Where the words "he", "him", "his", "himself" occur in the regulations, they include "she", "her", "herself".

**Note: Failure to read and understand the regulations is not an excuse.**



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

	Nature of Malpractices/Improper conduct	Punishment
	<i>If the student:</i>	
<b>1. (a)</b>	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 student 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>(b)</b>	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student 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 students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
<b>2.</b>	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 student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student 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 student is to be cancelled and sent to the University.
<b>3.</b>	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student, 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student 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.
<b>4.</b>	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 student 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
<b>5.</b>	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.
<b>6.</b>	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,	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 student(s) has (have) already appeared and shall not be permitted to appear for the

	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.	remaining examinations of the subjects of that semester/year. The students 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.
<b>7.</b>	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 student 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
<b>8.</b>	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 student 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 student is also debarred and forfeits the seat.
<b>9.</b>	If student of the college, who is not a student 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 student 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 student 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.
<b>10.</b>	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 student 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.
<b>11.</b>	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 student has appeared including practical examinations and project work of that semester/year examinations.
<b>12.</b>	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.	