NOTIFICATION

Sub: Regulations Governing the Degree of B.E./B.Tech. under OBE and CBCS (Revised-2018) - reg...

Ref: Executive Council Resolution. No. 2.2.1 dt: 30th May, 2019

Pursuant to the aforesaid Executive Council Resolution, the "Regulations Governing the Degree of B.E./B.Tech. under outcome Based Education and Choice Based Credit System - (Revised – 2018)" are hereby notified.

These Regulations are applicable for the following students:

1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXX18XXXX)
2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN XXX19XX4XX)

You are hereby directed to bring the same to the notice of all the concerned and to follow them scrupulously.

The previous regulations in this regard (published on VTU website and printed in syllabus books are treated as null and void.

Encl: as above

BY ORDER

REGISTRAR

To,
The of Principals of All Engineering Colleges under the ambit of VTU, Belagavi

Copy to:
1. Hon’ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
2. The Registrar (Evaluation), VTU, Belagavi
3. The Regional Directors (I/C) of all the Regional Offices of VTU for circulation
4. The Computer Network Centre, VTU, Belagavi to upload on VTU website
5. PS to Registrar, VTU, Belagavi
6. All the concerned Special Officer and Case-workers of Academic Section, VTU, Belagavi
Definitions of Keywords

The following are the definitions/descriptions that have been followed for the different terms used in the Regulations of B.E./B.Tech. Programmes:

1) **Programme:** Is an educational Programme in a particular stream/branch of Engineering/branch of specialization leading to award of the Degree. It involves events/activities, comprising of lectures/tutorials/laboratory work/field work, outreach activities/project work/vocational training/viva voce/ seminars/internship/assignments/presentations/self-study etc., or a combination of some of these.

2) **Branch:** Means Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.

3) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety). The odd and even semesters shall be as per the University academic calendar.

4) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.

5) **Course:** Refers to usually referred to as ‘papers’ and is a component of a Programme. All Courses need not carry the same weight. The Courses should define learning objectives and learning outcomes. A Course may be designed to comprise lectures/tutorials/laboratory work/field work/outreach activities/project work/vocational training/viva voce/seminars/term papers/assignments/presentations/self-study etc., or a combination of some of these.

6) **Credit:** Refers to 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 lecture or two hours of laboratory/practical Courses/tutorials/fieldwork per week etc.

7) **Audit Courses:** Means the Knowledge/Skill enhancing Courses without the benefit of a grade or credit for a Course.

8) **Choice Based Credit System (CBCS):** Refers to customizing the Course work, through Core, Elective and soft skill Courses, to provide necessary support for the students to achieve their goals.

9) **Course Registration:** Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor etc.) in each semester for the Institution to maintain proper record.

10) **Course Evaluation:** Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. CIE and SEE to carry 40% and 60% respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.

11) **Continuous Internal Evaluation (CIE):** Refers to evaluation of students’ achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the semester, with a weightage for the different components being fixed by the University.

12) **Semester End Examinations (SEE):** Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as University examination.

13) **First Attempt:** Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019
14) **Credit Based System (CBS):** Refers to quantification of course work, after a student completes teaching - learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.

15) **Credit Representation:** Refers to the Credit Values for different academic activities considered, as per the Table 1. Credits for seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.

16) **Letter Grade:**

<table>
<thead>
<tr>
<th>Theory/Lectures (L)</th>
<th>Tutorials (T)</th>
<th>Laboratory/Practical (P)</th>
<th>Credits (L:T:P)</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(hours/week/Semester)</td>
<td>(hours/week/Semester)</td>
<td>(hours/week/Semester)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>0</td>
<td>4:0:0</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
<td>2:1:0</td>
<td>3</td>
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<td>2</td>
<td>2</td>
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<td>2:0:1</td>
<td>3</td>
</tr>
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<td>2</td>
<td>2</td>
<td>2</td>
<td>2:1:1</td>
<td>3</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>6</td>
<td>0:0:3</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** Activities like, practical training, study tour and participation in Guest lectures not to carry Credits.

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

17) **Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in CIE and SEE. Grading is done by Absolute Grading [Refer: 18 OB 6.0]. The rubrics attached to letter grades are as follows: S – Outstanding, A – Excellent, B – Very Good, C – Good, D – Above Average, E – Average and F – Fail.

18) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>S</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Point</td>
<td>10</td>
<td>09</td>
<td>08</td>
<td>07</td>
<td>06</td>
<td>04</td>
<td>00</td>
</tr>
</tbody>
</table>

19) **Passing Standards:** Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 18).

20) **Credit Point:** Is the product of GP and number of credits for a Course i.e., Credit points (CrP) = GP × Credits for the Course.

21) **Semester Grade Point Average (SGPA):** Refers to the measure of academic performance of student/s in a semester. [Refer: 18OB6.2]

22) **Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. [Refer: 18OB6.2]

23) **Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester end examination. The grade card will display the Programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.

24) **University:** Visvesvaraya Technological University (VTU), Belagavi.
### Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19

<table>
<thead>
<tr>
<th>18OB1.0</th>
<th>Title, Duration and Credits of the Programme of Study.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18OB1.1</td>
<td>The Programme of study shall be called the degree of Bachelor of Engineering/Bachelor of Technology, abbreviated as B.E./B.Tech.</td>
</tr>
</tbody>
</table>
| 18OB1.2 | (a) The Programme to which students are admitted to First semester of B.E./B.Tech. Programme shall be of four academic year duration divided into eight semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester.  
(b) The Programme to which students are admitted to third semester of B.E./B.Tech. Programme under lateral entry shall be of three academic year duration, divided into six semesters. The actual Teaching and Learning days shall be at least 90 working days in a semester.  
(c) The Programme (conducted during evening) to which students are admitted to third semester of B.E./B.Tech. Programme under lateral entry scheme shall be of three academic year duration, divided into six semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester. The deficit contact hours of the Programme, conducted during evening on all working days, shall be compensated on all Sundays (except on general holidays). |
| 18OB1.3 | The calendar of events in respect of the Programme of study shall be notified by the University in advance. |
| 18OB1.4 | Maximum Duration for Programme Completion:  
(a) In case of students admitted to First semester of First year B.E./B.Tech. Programme  
(i) Students admitted to First year first semester B.E./B.Tech. shall complete the Programme within a period of eight academic years from the date of first admission, failing which they have to discontinue the Programme.  
(ii) A student who has not obtained eligibility to third semester even after three academic years from the date of first admission to first semester shall discontinue the Programme or get readmitted to first semester of first year B.E./B.Tech., with a revised University Seat Number having the same year of admission but serial number of the student starting with SIX hundred series (6XX).  
(iii) A student who has joined first year (to I or II semester) as a repeater and has not obtained eligibility to third semester even after three academic years from the date of readmission to first year shall discontinue the Programme or get readmitted to first semester of first year B.E./B.Tech., subject to the provision of 18OB1.4 (a) (i), with a revised University Seat Number having the same year of admission but serial number of the student starting with SIX hundred series (6XX).  
(iv) A student, who has been readmitted to First year [as per 18OB1.4 (a) (ii)and (iii)], does not get eligibility to third semester even after two academic years from the date of readmission, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.  
(v) A student who gets admitted to III semester from I year in three or less than three years shall complete the Programme, with or without break, within a period of eight academic years from the date of first admission, failing which they have to discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.  
(b) In case of lateral entry students admitted to Third semester of Second year B.E./B.Tech. Programme.  
(i) Students admitted to second year third semester B.E./B.Tech. shall complete the Programme within a period of six academic years from the date of first admission, failing which they have to discontinue the Programme.  
(ii) A student who has not obtained eligibility to fifth semester even after two academic years from the date of first admission to third semester shall discontinue the Programme or get readmitted to third semester of second year B.E./B.Tech. with a revised University Seat Number having the same year of admission but serial number of the student starting with SEVEN hundred series (7XX).  
(iii) A student who has joined second year (to III or IV semester) as a repeater and has not |

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obtained eligibility to fifth semester even after three academic years from the date of
readmission to second year shall discontinue the Programme or get readmitted to third
semester of second year B.E./B.Tech., subject to the provision of 18OB1.4 (b) (i), with a
revised University Seat Number having the same year of admission but serial number of the
student starting with SEVEN hundred series (7XX).
(iv) A student, who has been readmitted to second year [as per 18OB1.4 (b) (ii) and (iii)],
does not get eligibility to fifth semester even after two academic years from the date of
readmission to second year, he/she shall discontinue the Programme or seek fresh admission
following the prevailing admission procedure at that time.
(v) A student who gets admitted to V semester from II year in two or less than two years
shall complete the Programme, with or without break, within a period of six academic years
from the date of first admission, failing which they have to discontinue the Programme or
seek fresh admission following the prevailing admission procedure at that time.

18OB1.5 Prescribed Number of Credits for the Programme [to be read along with 18OB1.2.2]:
(a) The number of credits to be completed by students admitted to first semester of
B.E./B.Tech. Programme shall be 175.
(b) The number of credits to be completed by students admitted to third semester of
B.E./B.Tech. Programme under lateral entry scheme shall be 135.
(c) A student shall be eligible to get Undergraduate degree with Honours, if he/she earns
additional 20 credits, as per VTU norms issued from time to time regarding the earning of
additional credits. [To be read along with Regulations Governing the award of Honours’ in
B.E./B.Tech. Degree Programmes.]

18OB1.6 (a) Definition of Credits:
(a.1) 1 hour Lecture (L) per week per semester = 1 Credit
(a.2) 2 hours Tutorial (T) per week per semester = 1 Credit
(a.3) 2 hours Practical/Laboratory/ Drawing (P) per week per semester = 1 Credit.
(a.4) Four credit theory courses shall be designed for 50 hours of Teaching – Learning
process.
(a.5) Three credit theory courses shall be designed for 40 hours of Teaching – Learning
process.

18OB2.0 Eligibility for Admission to B.E./B.Tech. Programmes (As per the Government orders
issued from time to time)

18OB2.1 (a) Day Engineering College (Eligibility: Candidates who have Passed Second PUC/
Twelfth standard)
(i) Passed Second PUC/12th standard/Equivalent examination with English as one of the
Languages and obtained a minimum of 45% of Marks in aggregate in Physics and
Mathematics along with Chemistry/Bio-Technology/Biology/Electronics/Computer. 40 %
for SC, ST, Category – 1, 2A, 2B, 3A and 3B category candidates of Karnataka only.
(ii) Those students, who have passed a qualifying examination other than the PUC II
examination of the Pre-University Education Board of Karnataka, have to obtain eligibility
certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya
Technological University, Belagavi.

(b) Day Engineering College (Eligibility: Candidates who have Passed 3 year Diploma)
(i) A candidate who has passed any Engineering diploma examination or equivalent
examination and obtained an aggregate minimum of 45% marks taken together in all the
subjects of the final year (Fifth and Sixth semester) diploma examination (qualified
examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of
Engineering (as notified by the Government of Karnataka for admission to 3rd
semester / 2nd year B.E./B.Tech.) and 40% of marks in qualified examination in case of
SC, ST and Backward Classes of Karnataka candidates.
(ii) Those candidates who have completed Engineering Diploma from other than Karnataka
state shall provide the Equivalence / Eligibility Certificate issued from the Director of
Technical Education, Karnataka.
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(c) Evening Engineering College (Eligibility: Candidates who have Passed 3 year Diploma):

(i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45% marks taken together in all the subjects of the final year (Fifth and Sixth semesters) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40% of marks in qualified examination in case SC, ST and Backward Classes of Karnataka candidates.

In addition to this a candidate after passing the diploma, must have minimum of Two years full-time work experience as on 1st September of the year of admission, in a registered firm/Company/Industry/Educational Institution/Government/Autonomous Organizations in the branch of Engineering/Technology, in which the candidates holds a diploma and in which admission is sought by him/her.

Professional experience refers to the experience earned as an employee on regular basis in Government, Government Undertaking, Public Sector Undertaking, Corporation or Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or Government recognized Institutions as technical staff. Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region, Chennai or by Government, Government Undertakings and Public Sector Undertakings.

Note: In case where genuineness of the employment certificate is questionable, such candidates have to produce supportive documents specifying the registration details of the Industry/Company (e.g., SSI Registration) and or identity cards provided to them together with latest salary certificate and provident fund certificate. However, the employer has to fill up the NOC duly signed by the company authority.

(d) Day Engineering College (Eligibility: Candidates who have Passed B.Sc Degree)

Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.

<table>
<thead>
<tr>
<th>18OB2.2</th>
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<tbody>
<tr>
<td>With regard to the qualification earned from foreign countries, Equivalence certificate from the University/ Association of Indian Universities is mandatory for admission to B.E./B.Tech. Programmes. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University Equivalence Committee shall be the final in establishing the eligibility of the student.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18OB3.0 Courses</th>
</tr>
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<tbody>
<tr>
<td>18OB3.1</td>
</tr>
<tr>
<td>There shall be the following types of Courses:</td>
</tr>
<tr>
<td>(a) Humanities, Social Sciences and Management Courses (HSMC): These are mandatory for all disciplines.</td>
</tr>
<tr>
<td>(b) Basic Sciences Courses (BSC): Physics, Chemistry and Mathematics. These are mandatory for all disciplines.</td>
</tr>
<tr>
<td>(c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines.</td>
</tr>
<tr>
<td>(d) Professional Core Courses (PCC) – Core: Are the professional Core Courses, relevant to the chosen specialization/ branch. The core Courses are to be compulsorily studied by students and are mandatory to complete them to fulfill the requirements of a Programme.</td>
</tr>
<tr>
<td>(e) Professional Elective Courses (PEC): Are the professional Electives, relevant to the chosen specialization / branch and can be chosen from the pool of papers. It shall be supportive to the discipline providing extended scope/enabling an exposure to some other discipline /domain and nurturing student proficiency skills.</td>
</tr>
<tr>
<td>(f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/or from emerging fields.</td>
</tr>
<tr>
<td>(g) Project Work (PROJ): Mini project and Main Project. Carried out at the Institution or elsewhere without affecting with the regular classwork.</td>
</tr>
</tbody>
</table>

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(h) Seminar: Deliverable at the Institution under the supervision of a Faculty.  
(i) Internship: Preferably at an industry/R and D organization/IT company/Government  
organization or elsewhere of significant repute for a specified period as mentioned in  
Scheme of Teaching and Examinations.  
(j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade  
or credit, for students admitted to B.E./B.Tech. Programme. A pass in each mandatory  
Course is required to qualify for the award of degree.

| 18OB3.2 | The minimum number of students registered to any Elective Course offered by the  
Departments shall be not less than ten. However, the above condition shall not be applicable to Programmes having class strength of less than 10. In such cases, only one elective course shall be offered. |
| 18OB3.3 | A student shall exercise his option in respect of Elective Course/s and registered for the same at the beginning of the concerned semester. The student may be permitted to opt for a change of Elective Course/s within 15 days from the date of commencement of the semester as per the calendar of the University. |
| 18OB3.4 | **Course Registration:**  
In order to maintain proper academic record of each student at the Institution, every student shall register for the Courses of a semester (Credits) under the supervision of a Faculty Advisor (also called Mentor, Counselor, etc.,) in each semester. |
| 18OB4.0 | **Internship/Professional Practice** |
| 18OB4.1 | Internship / Professional Practice  
The Internship shall be completed during the period specified in the Scheme of Teaching and Examinations.  
1) The internship shall preferably be at an industry/R and D organization/IT company/  
Government organization of significant repute for a specified period as mentioned in  
Scheme of Teaching and Examinations.  
2) The Department/college shall nominate staff member/s to facilitate, Guide and supervise  
students under internship.  
3) The students shall report progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship.  
4) After the completion of Internship, students shall submit a report with completion  
certificate and attendance certificate to the Head of the Department with the approval of  
both internal and external Guides.  
5) There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of  
CIE marks shall be 50% of the maximum marks.  
6) The internal Guide shall be the internal examiner for the SEE.  
7) The external Guide for Internship shall be the external examiner for SEE. Examination  
for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks. [To be read along with 18OB8.9 (f)]  
8) In case the external Guide expresses his inability to conduct the Examination, the  
Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the  
Department to conduct the Examination along with the internal Guide.  
9) Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the  
Principal /Chief Superintendent of respective institute shall appoint a senior faculty of the  
Department to conduct the Examination.  
10) The students are permitted to carry out the internship anywhere in India or abroad. The  
University will not provide any kind of financial assistance to any student for carrying out  
the Internship. |
| 18OB 5.0 | **Technical Seminar and Project** |
| 18OB 5.1 | Technical Seminar: Technical Seminar is one of the head of passing.  
(i) Each candidate shall deliver Technical seminar as per the Scheme of Teaching and  
Examinations on the topic chosen from the relevant field.  
(ii) The Head of the Department shall make arrangements for the conduct of seminars |

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through concerned faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award the CIE marks for the seminar. The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson. [To be read along with 18OB8.2 (e)]

18OB 5.2 Project: Project (Mini and Main) is one of the head of passing.
Mini Project Work and Main Project Work shall preferably be batch wise, the strength of each batch shall not exceed a maximum of four students. [To be read along with 18OB 8.2 (f), (g) 18OB8.9 (f) and the details mentioned in Scheme of Teaching and Examinations.]

18OB 5.3 Examinations in Mini Project Work and Main Project Work shall be conducted batch-wise.

18OB 6.0 Computation of SGPA and CGPA

18OB 6.1 (i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results shall be declared in terms of Semester Grade Point Average (SGPA) considering all the courses appeared in that Semester End Examinations including backlog course/arrrear papers (refers to courses other than the current semester courses that have not yet been completed) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester, except for the first semester.

(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system shall be as given below:

<table>
<thead>
<tr>
<th>Level</th>
<th>Outstanding</th>
<th>Excellent</th>
<th>Very Good</th>
<th>Good</th>
<th>Above Average</th>
<th>Average</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter Grade</td>
<td>S</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td>Grade Points</td>
<td>10</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>6</td>
<td>4</td>
<td>00</td>
</tr>
<tr>
<td>Percentage of Marks Scored in a Course</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 90</td>
<td>&lt;90</td>
<td>≥80</td>
<td>&lt;80</td>
<td>≥70</td>
<td>&lt;60</td>
<td>&lt;45</td>
<td>&lt;40</td>
</tr>
<tr>
<td>(90-100)</td>
<td>(80-89)</td>
<td>(70-79)</td>
<td>(60-69)</td>
<td>(45-59)</td>
<td>(40-44)</td>
<td>(0-39)</td>
<td></td>
</tr>
</tbody>
</table>

(iii) A student obtaining Grade F in a Course shall be considered fail and is required to reappear in the subsequent SEE. Whatever the letter grade secured by the student during his/her reappearance shall be awarded. The number of attempts taken to clear Course/s shall be indicated in the grade card.

18OB 6.2 Computation of SGPA and CGPA

The following expressions shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:

\[
SGPA = \frac{\sum [Course\ Credits \times Grade\ Points] \ for \ all \ the \ Courses \ in \ that \ Semester}{\sum [Course\ Credits] \ for \ all \ the \ Courses \ in \ that \ Semester}
\]

\[
CGPA = \frac{\sum [Course\ Credits \times Grade\ Points] \ for \ all \ Courses \ excluding \ those \ with \ F \ grades \ until \ that \ Semester}{\sum [Course\ Credits] \ for \ all \ Courses \ excluding \ those \ with \ F \ grades \ until \ that \ semester}
\]

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards.

(a) SGPA and CGPA Calculations: An Illustrative Example for one academic year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Grade</th>
<th>Grade Points (GP)</th>
<th>Credit Points (CP)</th>
<th>SGPA, CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>XX101</td>
<td>5:0:0 = 5</td>
<td>B</td>
<td>8</td>
<td>5x8=40</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>XX102</td>
<td>3:2:0 = 5</td>
<td>Absent</td>
<td>0</td>
<td>5x0=00</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>XX103</td>
<td>3:0:0 = 3</td>
<td>A</td>
<td>9</td>
<td>3x9=27</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>XX104</td>
<td>0:1:1 = 2</td>
<td>F</td>
<td>0</td>
<td>2x0=00</td>
<td></td>
</tr>
</tbody>
</table>

\[
SGPA = \frac{117}{25} = 4.68
\]
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<table>
<thead>
<tr>
<th>I</th>
<th>XX105</th>
<th>4:1:0 = 5</th>
<th>D</th>
<th>6</th>
<th>5×6 = 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>XX106</td>
<td>5:0:0 = 5</td>
<td>E</td>
<td>4</td>
<td>5×4 = 20</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>25 (18*)</td>
<td></td>
<td></td>
<td>117</td>
</tr>
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</table>

(18*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.

<table>
<thead>
<tr>
<th>II</th>
<th>XX107</th>
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<th>C</th>
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<th>5×7 = 35</th>
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<td>3:0:0 = 3</td>
<td>D</td>
<td>6</td>
<td>3×6 = 18</td>
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<tr>
<td>II</td>
<td>XX110</td>
<td>4:1:0 = 5</td>
<td>E</td>
<td>4</td>
<td>5×4 = 20</td>
</tr>
<tr>
<td>II</td>
<td>XX111</td>
<td>2:1:1 = 4</td>
<td>A</td>
<td>9</td>
<td>4×9 = 27</td>
</tr>
<tr>
<td>II</td>
<td>XX112</td>
<td>2:0:0 = 2</td>
<td>F</td>
<td>0</td>
<td>2×0 = 00</td>
</tr>
<tr>
<td>II</td>
<td>XX113</td>
<td>0:2:0 = 2</td>
<td>B</td>
<td>8</td>
<td>2×8 = 16</td>
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</table>

I semester

<table>
<thead>
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<th>D</th>
<th>6</th>
<th>5×6 = 30</th>
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</thead>
<tbody>
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<td>0:1:1 = 2</td>
<td>C</td>
<td>7</td>
<td>2×7 = 14</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>32 (30*)</td>
<td></td>
<td></td>
<td>201</td>
</tr>
</tbody>
</table>

(30*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.

(b) CGPA Calculation of the Programme: An Illustrative Example

<table>
<thead>
<tr>
<th>Semester</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>VI</th>
<th>VII</th>
<th>VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits of the semester</td>
<td>20</td>
<td>20</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>SGPA</td>
<td>4.68</td>
<td>6.28</td>
<td>9.20</td>
<td>6.86</td>
<td>8.18</td>
<td>7.73</td>
<td>9.18</td>
<td>9.40</td>
</tr>
<tr>
<td>ΣCrP</td>
<td>117</td>
<td>201</td>
<td>22</td>
<td>165</td>
<td>204</td>
<td>185</td>
<td>184</td>
<td>169</td>
</tr>
</tbody>
</table>

\[
CGPA = \frac{[117 + 201 + 220 + 165 + 204 + 185 + 184 + 169]}{175} = \frac{1445}{175} = 8.26
\]

18OB6.3 Grade Card: Based on the secured letter grades, grade points, SGPA and CGPA, a grade card for each semester and a consolidated grade card indicating the performance in all semesters shall be issued.

18OB7.0 Conversions of CGPA into Percentage of marks and Class Equivalence

18OB7.1 Formula for the conversion of CGPA into percentage of marks.

\[
\text{Percentage of marks secured, } P = \text{ [CGPA Earned - 0.75]} \times 10
\]

Illustration for a CGPA of 8.20:

\[
P = \text{ [CGPA Earned 8.20 - 0.75]} \times 10 = 74.5 \%
\]

18OB7.2 Class Equivalence:

Subsequent to the conversion of final CGPA, after successful completion of the Programme, into percentage of marks (P), a graduating student is reckoned to have passed in

(i) First Class with Distinction (FCD) if \( P \geq 70\%
(ii) First Class (FC) if \( P \geq 60\% \) but <70% and
(iii) Second Class (SC) if \( P < 60\% \).

18OB8.0 Continuous Internal Evaluation, Semester End Evaluation and Minimum CIE and SEE Marks

18OB8.1 Continuous Internal Evaluation Marks and Minimum CIE Marks:

(a) For Vyavaharika Kannada (Balake Kannada)/Aadaliyitha Kannada (Samakruthika Kannada) the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 40 marks.

(b) For Project work Phase -1 and Technical seminar the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 50 marks.

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(c) For Practical/Mini-project/Internship/Project work- Phase 2 the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 20 marks.

(d) For all other theory Courses of the Programme, the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.

(f) For Additional Mathematics I and II (to be completed by diploma lateral entry students) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.

(g) For Engineering Graphics and Elements of Civil Engineering and Mechanics (of First Year Engineering and to be completed by B.Sc graduates under lateral entry) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be respectively 50 % and 40 % of the maximum marks i.e., 20 and 16 marks.

18OB8.2 Continuous Internal Evaluation Procedure: [To be read along with 18 OB 8.1 and 8.3]

(a) Theory Courses:

(i) CIE Marks in each theory Course [including ‘Technical English I and II’, ‘Constitution of India, Professional Ethics and Cyber Law’, ‘Environmental Studies’, ‘Additional Mathematics I and II’], shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 30 and that for assignments 10.

(ii) The CIE marks awarded for tests in the theory Courses shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a maximum of 50 marks and the final test marks shall be the average of three tests, proportionately reduced to a maximum of 30 marks.

(iii) The remaining 10 marks shall be awarded based on the evaluation of assignments/unit tests/written quizzes that support to cover both lower and higher order thinking skills as per Revised Bloom’s Taxonomy.

(iv) Final CIE marks awarded shall be the sum of 18OB8.2 (a) (ii) and (iii) for a maximum of 40 marks.

(v) The candidates shall write the tests, assignments/unit-tests/written quizzes in Blue Books which shall be preserved by the Principal/Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).

(b) Engineering Graphics/ Drawing/Field work Courses:

The CIE marks awarded for I year Engineering Graphics Course shall be based on

(i) Classwork for 24 marks (sketching and Computer Aided Engineering Drawing).

(ii) Two Tests conducted in the same pattern as that of SEE for 16 marks (The marks secured can be taken as best of the two tests).

(iii) Final CIE marks awarded for Engineering Graphics shall be the sum of 18OB8.2 (b) (i) and (ii) for a maximum of 40 marks.

(iv) The CIE marks awarded for higher semester Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.

(v) The CIE marks awarded for field work (like Surveying Practice) shall be based on the evaluation of the associated field work and one test in the ratio 60:40.

(c) Practical Courses:
The CIE marks awarded in case of Practical shall be based on the weekly evaluation of laboratory journals/reports after the conduction of every experiment and one practical test in the ratio 60:40.

(d) Internship:
The CIE marks awarded for internship shall be based on the evaluation of Internship Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

(e) Technical Seminar:
The CIE marks awarded for Technical Seminar shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

(f) Mini – Project:

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The CIE marks awarded for Mini - Project shall be based on the evaluation of Mini - Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Mini - Project report shall be the same for all the batch mates.

(g) Main Project Work:

(i) Project Work Phase – 1
The CIE marks awarded for project work phase -1 shall be based on the evaluation of project work phase -1 Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Project Work Phase – 2
The CIE marks awarded for project work phase -2 shall be based on the evaluation of project work phase -2 Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Project report shall be the same for all the batch mates.

(h) Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada)

(i) CIE Marks in Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada) shall be the sum of marks prescribed for tests and assignments.

Marks prescribed for tests shall be 75 and that for the assignments shall be 25.

(ii) The CIE marks awarded for the tests shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a maximum of 25 marks and the final CIE marks shall be the sum of the marks of all the three tests.

(iii) The remaining 25 marks shall be awarded based on the evaluation of assignments/oral discussions/ quizzes that supports communication skills.

(iv) Final marks awarded shall be the sum of 18OB8.2 (h) (ii) and (iii) for a maximum of 100 marks.

(v) Students shall write the tests in Blue Books and complete the exercises/activates/ questions given in the University Kannada textbook. These shall be preserved by the Principal/ Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).

18OB8.3

(a) The CIE marks in the case of Internship/Technical Seminar/Mini-Project and Project Work Phase 1 and 2 shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

(b) A committee constituted by the Head of the Department of Humanities and Social Science shall inspect and authenticate the award the CIE marks for the Course Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada). The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson.

18OB8.4

(i) Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any Course/s, shall not be eligible for the SEE conducted by the University and they shall be considered as fail in that Course /those Courses. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Course/s if any.

(ii) Students who have satisfied the attendance requirement but not the CIE requirements shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.

(iii) Each appearance to SEE to complete a course shall be treated as an attempt.

18OB8.5

CIE marks of those students, who come under 18OB8.4, shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.

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| 18OB8.6 | (i) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Technical Seminar/Mini – Project/Project work —phase 1 and 2, shall be displayed on the notice board of the college much before the closure of the semester.

(ii) The institution shall enter the CIE marks of each semester in the format of the VTU online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.

| 18OB8.7 | Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall indicate the number of corrections on every sheet and attest it with his/her signature.

| 18OB8.8 | CIE marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered.

| 18OB8.9 | **Semester End Examination Marks and Passing standards**

(a) University examination for all Courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately reduced to a maximum of 60 marks to add the same with the CIE marks for the award of letter grade.

(b) The University examinations for all the Programmes of study shall be conducted at the end of each semester for all the eight semesters.

(c) Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog course/s may face a situation where they may have

(i) Two examinations scheduled at the same time of the day,

(ii) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and

(iii) Examinations on consecutive days.

As changing the examination dates is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in second and third cases, the students shall manage the examinations as per their decision.

(d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Cyber Law, and Environmental Studies shall be objective type [Multiple Choice Questions (MCQ)].

(e) For a pass in a theory Course/Drawing, students shall secure a minimum 35% of the maximum marks prescribed for the University examination and in total 40% of the Course maximum marks, i.e., the sum of the CIE and SEE marks prescribed for the Course.

(f) For a pass in Practical/Mini-project/Internship/Technical Seminar/Project work, students shall secure a minimum of 40% of the Course maximum marks prescribed for the University examination (SEE).

(g) Students who satisfy the conditions 18OB8.9 (e) and (f), and obtain any grade from S to E in a Course shall be considered to have passed that Course.

(h) A student shall be declared fail if the candidate

(h.a) Fails to satisfy the conditions 18OB8.9 (g).

(h.b) Absents himself/herself to the University examination.

(h.c) Is held guilty of examination malpractice and for any other reasons and declared the performance of any Course/s null and void by a competent authority.

(i) If a student secures F grade in any of the Course/s, he/she shall reappear for that Course/s during the subsequent SEE. The CIE marks awarded to the student at first attempt in the concerned Course/s shall be carried forward. Revised CIE marks is considered only in cases under the provision of 18OB8.4 (ii).

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| 18OB8.10 | Students who pass a Course of a semester as per 18OB8.9 (g) shall not be allowed to appear for any individual Course again, unless they opt for rejection of results of entire semester. However, students who have CGPA less than 5.00 at the end of academic Programme, subject to the provision 18OB1.4, shall be allowed to appear for only SEE of Course/s to make up the deficiency in CGPA. |
| 18OB8.11 | A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examinations of a semester. The rejection is permitted only once during the entire Programme of study. |
| 18OB8.12 | Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned Course grades) in all the Courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of VIII semester project shall not be permitted.
(i) Students, who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s. They shall also be governed by 18OB12.1, 12.2 and 1.4.
(ii) If the rejection of SEE results excluding CIE marks is of odd semester, students shall be allowed to take admission to the immediate next even semester.
(iii) If the rejection of SEE results excluding CIE marks is of even semester, then students shall not be allowed to take admission to the next odd semester as per 18OB10.3. In such cases, students shall take admission to the next odd semester of the prevailing scheme during the subsequent academic year/s, after obtaining the eligibility to move to higher semester. They shall also be governed by 18OB12.1, 12.2 and 1.4.
(iv) Readmission to odd/even semester as per 18OB8.12 (i) and (iii) shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Programme (as per 18OB1.4) shall be counted with reference to old University Seat Number.
(v) Applications for rejection and approval to reappear for University examinations shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons.
(vi) Application for approval of readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons. |
| 18OB8.13 | Students who opt for rejection of results of University examination shall be eligible for the award of degree and not for the award of ranks and Honours Degree. |

### 18OB9.0 Attendance Requirement

| 18OB9.1 | Each semester shall be considered as a unit for calculation of the attendance and the Candidates have to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University/State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The supporting documents for condoning the shortage of attendance shall be submitted along with the recommendations. |

| 18OB9.2 | (a) The basis for the calculation of attendance shall be the period prescribed by the University by its calendar of events and as notified by the Registrar (Evaluation) from time to time.
(b) In case of late admissions, approved by competent authority (DTE/VTU), to I semester/ III semester (lateral entry scheme) of day college/III semester (lateral entry scheme) of Engineering Programme conducted during even, the attendance shall be reckoned from the date of admission to the Programme. |

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| 18OB9.3 | The Course Instructor/ Mentor/College shall inform the students as well as their parents /guardians about the attendance status periodically. Students who are facing the shortage of attendance shall be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance. |
| 18OB9.4 | A candidate, who does not satisfy the attendance requirement (in one or more Courses and including the Courses Additional Mathematics I and II) as mentioned in 18OB 9.1 shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year. |
| 18OB10.0 | Vertical Progression (Promotion/ Eligibility to higher semesters) |
| 18OB10.1 | There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement. |
| 18OB10.2 | Along with the reasons specified at 18OB8.9 (h), a student shall be declared fail if he/she (i) Has not satisfied the CIE requirements of any Course/s.  
(ii) Has not registered for the SEE even after satisfying the attendance and CIE requirements. |
| 18OB10.3 | (A) Vertical Progression in case of students admitted to First year:  
(a) Students having not more than four F grades in the two semesters of first year of the Programme shall be eligible to move to second year.  
(a.1) Students having not more than four F grades in the four semesters of I and II year shall be eligible to move to III year.  
(a.2) Students who have earned all the prescribed credits of I year, and having not more than four F grades in the four semesters of II and III year shall be eligible to move to IV year.  
(B) Vertical Progression in case of Diploma students admitted to Second year (lateral entry):  
(a) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II) in the two semesters of II year of the Programme shall be eligible to move to III Year.  
(a.1) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II, if any) in the four semesters of II and III year shall be eligible to move to IV year.  
(b) The mandatory non – credit Courses Additional Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of B.E./B.Tech. Programmes shall attend the classes during the respective semesters to satisfy attendance and CIE requirements and to appear for the University examinations.  
(b.1) In case, any student fails to satisfy the attendance requirement of the Courses Additional Mathematics I and II, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.  
(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the Courses Additional Mathematics I and II shall be permitted to register fresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.  
(c) Completion of Additional Mathematics I and II shall be mandatory for the award of degree.  
(C) Vertical Progression in case of B.Sc students admitted to Second year (lateral entry):  
(a) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme) in the two semesters of II year of the Programme shall be eligible to move to III Year.  
(a.1) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme, if any) in the four semesters of II and III year shall be eligible to move to IV year. |

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(b) The prescribed mandatory non-credit Courses Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme to lateral entry B.Sc. holders admitted to III semester of B.E./B.Tech. Programmes, shall attend the classes during the respective semesters to complete CIE and attendance requirements and to appear for the University examinations.

(b.1) In case, any student fails to satisfy the attendance requirement of the above said Courses, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.

(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the above said Courses, shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course(s) (with or without satisfying the attendance requirement) when offered during subsequent semester(s).

(c) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics shall be mandatory for the award of degree.

The Principal of each college shall make suitable arrangements in the timetable to facilitate the B.Sc students to attend the above mentioned courses to satisfy the CIE and attendance requirements and to appear for the University examinations.

18OB11.0 Award of Degree

18OB11.1 1. B.E./B.Tech. degree

(a) Students shall be declared to have completed the Programme of B.E./B.Tech. degree and is eligible for the award of degree, provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18OB1.5. [To be read along with 18 OB 12.1 and 12.2]

(b) For the award of degree, a CGPA ≥ 5.00 at the end of Programme shall be mandatory. [To be read with 18OB11.2 (1)]

(c) Completion of Additional Mathematics I and II, shall be mandatory for the award of degree to lateral entry diploma students.

(d) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme shall be mandatory for the award of degree to lateral entry B.Sc graduates.

(e)(i) Over and above the academic credits, every Day College regular student admitted to the 4 years Degree Programme and every student entering 4 years Degree Programme through lateral entry, shall earn 100 and 75 Activity Points respectively through AICTE Activity Point Programme for the award of degree. Students transferred from other Universities/ Autonomous colleges under VTU to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eight semester Grade Card.

(ii) Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points before the commencement of 8th semester examinations, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

2. B.E./B.Tech. (Honours) degree

(a) A student shall be declared to have completed the Programme of B.E./B.Tech. degree and shall be eligible to get undergraduate BE/B.Tech degree with Honours, provided.

(a.1) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18 OB1.5 (a) and (b).

(a.2) Has earned additional 20 or more credits through University approved online Courses.

(a.3) Satisfies the Regulations Governing the award of Honours at B.E./B.Tech. Degree Programmes.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019
**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 – 19**

<table>
<thead>
<tr>
<th>18OB11.2</th>
<th>(1) Noncompliance of CGPA ≥5.00 at the end of the Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(a) Students who have completed all the courses of the Programme but not having a CGPA ≥5.00 at the end of the Programme, shall not be eligible for the award of the degree.</td>
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<td>(b) In the cases of 18OB11.2 (1) (a), students shall be permitted to appear again for SEE in course/s [other than Internship, Technical seminar, Project (Mini and Main), and Laboratories] of any Semester/s without the rejection of CIE marks for any number of times, subject to the provision of maximum duration of the Programme to make up the CGPA equal to or greater than 5.00 for the award of the Degree.</td>
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<td>(c) In case, the students earn improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA &lt;5.00, the students shall follow the procedure laid in 18OB11.2(1) (b).</td>
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<td>(d) In case, the students earn improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in the other reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA &lt;5.00, the students shall follow the procedure laid in 18OB11.2 (1) (b).</td>
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<td></td>
<td>(e) In case, the students earn improved grade/s in some courses and fail in the other reappeared course/s, the CGPA shall be calculated by considering the improved grade/s and the previously earned pass grade/s of the reappeared course/s in which the students have failed. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA &lt;5.00, the students shall follow the procedure laid in 18OB11.2 (1) (b).</td>
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<td>(f) In case, the students fail (i.e., earns F grade) in all the reappeared course/s, pass grade/s of the course/s earned by the students before reappearance shall be retained. In such cases, the students shall follow the procedure laid in 18OB11.2 (1) (b).</td>
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<td>(g) Students shall obtain written permission from the Registrar (Evaluation) to reappear in SEE to make up the CGPA equal to or greater than 5.00.</td>
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<td>(2) Noncompliance of Mini-project</td>
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<td>(a) The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.</td>
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<tr>
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<td>(3) Noncompliance of Internship</td>
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<tr>
<td></td>
<td>(a) All the students of B.E./B.Tech. shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and/or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credits shall be included with the credits of VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail in that Course and shall have to complete the same during subsequent University examinations after satisfy the internship requirements.</td>
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</table>

| 18OB12.0  | Temporary Discontinuation/Break in the Programme/Change in Scheme of Study |

| 18OB12.1  | (a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the Programme during any semester intentionally, he/she shall be permitted to continue the Programme by registering to the same semester of the prevailing scheme. The candidate from that semester shall attend and complete all the remaining Course works of all the semesters, adhering to the regulations of the prevailing scheme and subject to the provision 18OB1.4. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank / Honours degree. |

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(b) Candidates who take admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the Programme adhering to the regulations of the prevailing scheme, and shall complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Courses shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank/Honours Degree.

(c) The credits to be earned by the candidates under 18OB12.1 (a) and (b) and 18OB14.1(b) and (c) shall be decided by the University along with the additional Course/s to be completed.

18OB12.2

(i) The candidates who have temporarily discontinued the Programme of study or changed the scheme of study from one to another because of various reasons, or transferred from autonomous/other University to non-autonomous VTU constituent/affiliated college, shall be eligible for the award of degree provided the credits earned is equal to or greater than the credits decided by the University in the individual cases.

(ii) In case, the credits earned is less than the credits decided by the University in the individual cases, after the completion of all the semesters of the Programme under the prevailing scheme, the candidate shall register for a Course or courses not studied earlier and make up the credits earned equal to or greater than the required for the award of degree.

(iii) If the earned Programme credits are greater than the prescribed, the CGPA shall be proportionately reduced to the prescribed Programme credits.

18OB13.0 Award of Prizes, Medals and Ranks

18OB13.1 For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such awards.

18OB13.2

1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester shall be considered.

2) The additional credits earned for the award of Honours degree shall not have any bearing for the Rank declaration.

3) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided that the student,

(a) (i) Has passed all the Courses of I to VIII semester in first attempt only in case of Candidates admitted to I year.

(ii) Has passed all the Courses (including Additional Mathematics I and II in case Diploma students/ Engineering Graphics and Elements of Civil Engineering and Mechanics in case of B.Sc graduates under lateral entry) of III to VIII semester in first attempt only in case of Candidates admitted under lateral entry scheme.

(b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc.

(c) Has completed all the Courses/semesters of the same Scheme of Teaching and Examinations without any break/discontinuity.

(d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.

(e) Has not been transferred from any autonomous institution affiliated to VTU or from any other University.

4) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 ranks in a Specialization.

5) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination.

Illustration:

(a) If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Programme, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.
Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
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| 18OB13.3 | Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank. |
| 18OB14.0 | Transfer of students |
| 18OB14.1 | (a) (i) Transfer of students from one VTU affiliated non-autonomous college to another VTU non-autonomous affiliated college shall be permitted only at the beginning of third, fifth and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges with the approval of the Registrar, VTU subject to the provision 18OB10.3. (ii) The students seeking transfer as per 18OB14.1 (a) (i) shall have to obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU. (iii) Complete the Programme subject to the provision 18OB1.4. (b) Transfer of students from an autonomous to non-autonomous college, affiliated to VTU is permitted with the following conditions. (i) Transfer shall only be at the beginning of III and V semester B.E./B.Tech. Programme. (ii) No transfer shall be permitted to VII semester B.E./B.Tech. Programme. (iii) Students who are seeking transfer must have passed in all the Courses of the previous semesters. (iv) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU. (v) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the Eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree. (vi) Earn the credits decided by the University as per 18OB12.2. (vii) Complete the Programme subject to the provision 18OB1.4. (c) In the case of students seeking transfer from Universities other than VTU, the students must have passed in all the Courses of I and II semesters for admission to III semester and all the Courses of I to IV semesters for admission to V semester. No transfer shall be permitted to VII semester B.E./B.Tech. Programme of VTU from any other Universities. The students seeking admission from other Universities to VTU shall have to (i) Apply for establishment of equivalence with prescribed fees as notified by the VTU and obtain No Objection certificate for admission from the University before the commencement of term as notified by VTU. (ii) Produce No Objection certificate for admission from both the colleges before the commencement of term as notified by VTU. (iii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree. (iv) Earn the credits as decided by the University as per 18OB12.2. (v) Complete the Programme subject to the provision 18OB1.4. |
| 18OB14.2 | Transfer of students within the College from one branch to another branch at the start of III semester shall be permitted with the approval of the Registrar, VTU subject to the provisions made by the appropriate authorities. |

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019
### Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 – 19

<table>
<thead>
<tr>
<th>18OB14.3</th>
<th>The University may prescribe fee for administration purpose, which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).</th>
</tr>
</thead>
<tbody>
<tr>
<td>18OB15.0</td>
<td>Applicability and Power to Modify</td>
</tr>
<tr>
<td>18OB15.1</td>
<td>The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.</td>
</tr>
</tbody>
</table>
| 18OB15.2 | i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/orders to address any difficulty.  
ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above. |

REGISTRAR  
Visvesvaraya Technological University,  
BELAGAVI - 590 018.