#### CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING



(Recognised by the Govt. of Karnataka, Affiliated to Visvesvara, a Technological University, Belagavi. Approved by AJETE New Delat. Recognised by UGC Under Section 2(f)

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List of programs in which CBCS/Elective course system implemented in the last completed

#### academic year certified by the Principal

Program me Code	Programme name	Year of Introduc tion	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementati on of CBCS / elective course system
CSE	Computer Science Engineering	2000	YES	2015
CSE	Computer Science Engineering	2009	YES	2015
ISE	Information Science Engineering	2000	YES	2015
ISE	Computer Network Engineering	2010	YES	2015
MT	Mechatronics	2011	YES	2015
CIV	Civil Engineering	2008	YES	2015
CIV	Structural Engineering	2011	YES	2015
EEE	Electrical & Electronics Engineering	2001	YES	2015
EPE	Power Electronics Engineering	2008	YES	2015
AU	Automobile Engineering	2011	YES	2015
AU	Automobile Engineering	2014	YES	2015
BT	Biotechnology Engineering	2003	YES	2015
B.E	Mechanical	2000	YES	2015
B.E	Machine Design	2011	YES	2015
B.E	Thermal Power Engineering	2008	YES	2015
ECE	Electronics & Communication Engineering	2000	YES	2015
ECE	Digital Communication & Networking	2010	YES	2015
ECE	Digital Electronics & Communication	2009	YES	2015
ECE	VLSI Design & Embedded Systems	2012	YES	2015
MCA	Post Graduate	2001	YES	2015
MBA	Post Graduate	2001	YES	2015



PRINCIPAL the Oxford College of Englasering Remmanahalli, Hosur Road Rangalucy-560/068

#### CHOICE BASED CREDIT SYSTEM (CBCS) REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY (B.E./B.Tech.)

#### DEFINITIONS OF KEY WORDS:

- 1. University: Visvesvaraya Technological University, Belagavi.
- Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.
- Semester: Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from August to January and even semester from February to July.
- Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses (core, elective and Foundation Courses).
- Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
- Programme: An educational programme leading to award of a Degree or certificate.
- 7. Course: Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. 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/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- Branch: Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
- Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
- Grade Point: It is a numerical weightage allotted to each letter grade on a 10-point scale.
- 11. Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- Credit Point: It is the product of grade point and number of credits for a course.
- 13. Semester Grade Point Average (SGPA): It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits

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The Oxford College of Engineering Bommanahalli, Hosur Ros Bengaburu-560 055 taken during that semester. It shall be expressed up to two decimal places.

- **1. Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earnedby a student in various courses in all semesters and the sumof the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- **2. First Attempt:** If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.
- **3. Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.
- **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses.

Sequencing Plan for the B.E. / B.Tech. Degree Curriculum

Semesters	Course Coverage
I –II	HSS, BS and ES; Common for all Branches;
	Mandatory Courses
III-IV	BS Common for all Branches and ES;
	PS – Core/Elective
V-VII	PS- Core & Electives; Other Electives;
	Branch-wise Orientation
VIII	PS-Electives/Elective ; Other Electives,
	Internship, Project work

#### Abbreviations:

- HSS Humanities and Social Sciences
- **BS** Basic Sciences
- ES Engineering Sciences
- PS Professional Subjects

#### **Credit Structure for Course Work**

Lectures	Tutorial	Lab. Work	Credits	Credits
(hrs/wk	(hrs/wk/	(hrs/wk/Sem)	(Lec:instruction:Lab)	(Total)
/Sem)	Sem)			
4	0	0	4:0:0	4
3	0	0	3:0:0	3
0	1	2	0:1:2	2

## CHOICE BASED CREDIT SYSTEM (CBCS) REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

#### (**B.E.**/**B.**Tech.)

150B 1	TITLE AND DURATION OF THE PROGRAMME OF STUDY
150B 1.1	The program of study shall be called the degree Program of study in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
150B 1.2	The program shall be of four academic years duration divided into eight
	semesters, each semester having duration of 16 weeks. For evening
	courses the contact hours are to be satisfied by working extra
	on afternoons of Saturdays and Sundays.
150B 1.3	The calendar of events in respect of the program of study shall be fixed by the University from time to time.
150B 1.4	The examination in all programs of study shall be conducted at the
	end of each semester for all eight semesters.
150B 2	ELIGIBILITY FOR ADMISSION
	(The Government orders issued from time to time in this regard shall prevail).
150B 2.1	Admission to I year / I semester Bachelor Degree in Engineering /
	Technology shall be open to the students who have passed the second
	year Pre-University or XII standard or equivalent examination recognized
	by the University.
	For the prerequisite qualification earned from foreign countries,
	Equivalence certificate from the Association of Indian Universities is
	Mandatory. The decision of the Equivalence committee shall be final in
	establishing the eligibility of student.
150B 2.2	In addition to 150B 2.1, the student shall have secured not less than
1000 2.2	forty five percent (45%) marks in the aggregate with Physics and
	Mathematics as compulsory subjects, along with any one of the
	following subjects, namely, Chemistry, Bio-Technology, Computer
	Science, Biology and Electronics or as decided by the Government of
	Karnataka.
	Provided that, the minimum marks for the purpose of eligibility shallbe
	forty percent (40%) in optional subjects in case of students belonging to
	SC/ST and OBC students from Karnataka or as decided by the
	Government of Karnataka.
	Provided further that, the student shall have studied and passed English
1500.2.2	as one of the subjects.
150B 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/
	Technology (Lateral Entry) shall be open to the students
	<ul><li>Diploma Holders</li><li>Must have passed diploma or equivalent qualification as</li></ul>
	• Must have passed diploma of equivalent qualification as recognized by University and secured not less than forty five
	percentage (45%) marks in the final year examination (fifth and
	percentage (1570) marks in the initial year examination (intil and

	<ul> <li>sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marksfor eligibility shall be forty percent (40%).</li> <li>Who have completed their Diploma from other than Karnatakastate shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</li> <li>Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics – III and IV) and Mandatory subjects (CPH and CIV) as specified by the University.</li> </ul>
	B.Sc. Graduates
	<ul> <li>Must have passed B.Sc. degree from a recognized University as defined by the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (including all six semesters). In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%). Should have studied Mathematics as subject of study at XII Standard.</li> <li>Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester</li> </ul>
	I. Computer Aided Engineering Drawing (CAED) and II. Programming in C and Data Structures III. CPH and CIV (if not studied at B.Sc. Level).
150B 2.4	<ul> <li>Admission to Evening Programme of study shall be open to a student</li> <li>Who on the first day of the term notified by the University for the year of admission has at least one-year professional experience in the branch of engineering / technology, in which the student holds a diploma.</li> <li>Explanation: Professional experience means employment on regular basis <ul> <li>a. in Government, Government undertaking, Public Sector undertaking, Corporations or</li> <li>b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or</li> <li>c. In Government, Government recognized institutions as technical staff.</li> </ul> </li> </ul>
	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 any Government, Government undertaking or Public Sector undertaking. Provided further that employment shall be in an establishment
	situated within the urban agglomeration of city in which the professional institution is situated.
150B 2.5	Those students, who have passed a qualifying examination other than

	the DIIC II exemination of the Dro University Education Doord of Vernetal-
	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
	or from the Principal of concerned Engineering
	College of Karnataka State.
150B 3	ATTENDANCE REQUIREMENT
150B 3.1	Each semester is considered as a unit and the student has 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 recommendation of the Principal of the college where the
	student is studying, showing reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops, paper presentation, etc.
150B 3.2	The basis for the calculation of the attendance shall be the number of hours prescribed by the University by its calendar of events. For the first semester students, the same shall be reckoned from the date of admission to the course as per CET allotment.
150B 3.3	The students shall be informed about their attendance status periodically by the colleges so that the students shall be cautioned tomake up the shortage. The Principals of the affiliated Colleges shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. Provided that mere omission by the college to inform the student about the shortage of attendance shall not entitle him to appear for examination.
150B 3.4	A student having shortage of attendance in one or more subjects shall have to repeat the whole semester and such students shall not be permitted to take admission to next higher semester. Such students shall take readmission to the same semester in the subsequent academic year.
150B 3.5	TEMPORARY DISCONTINUATION OF THE PROGRAM:
	A student, who wishes to temporarily discontinue the program and
	continue the same subsequently, has to obtain prior permission from the
	University by applying through the Principal. Such students have to
	take readmission to the same semester/year in the subsequent academic
	year. However, the student shall complete the course as per
	150B 6.2.
150B 4	INTERNAL ASSESSMENT MARKS
150B 4.1	There shall be a maximum of 20 Internal Assessment Marks in each
	theory or practical paper. For seminars, the Internal Assessment marks shall be 50.

150B 4.2 150B 4.3	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 <sup>th</sup> and 12 <sup>th</sup> week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 15OB 4.13. The test shall be answered in Blue Books with pages serially numbered. These blue books shall be kept in the custody of the Principal of the College until after one month from the date of announcement of the result by the University. These shall be made available to University authorities for verification as per the directions of the Registrar (Evaluation)/ Registrar.
	Internal Assessment Marks for the relevant subject.
150B 4.4	If a student remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as AB for the subject against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
150B 4.5	In the case of a Practical, the IA marks shall be based on the
	laboratory journals/reports and one practical test.
150B 4.6	<ul> <li>The IA marks for I year Computer Aided Engineering / Drawing: <ul> <li>a) 12 marks for class work (sketching and Computer Aided engineering drawing).</li> <li>b) 08 marks for test in the same pattern as that of the main examination (better of the two tests)</li> <li>ii) The IA marks for other Drawings and Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.</li> </ul> </li> </ul>
150B 4.7	The IA marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of 8 <sup>th</sup> semester 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 project / seminar guide.
150B 4.8	The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Internship/Project work/Seminar, shall be displayed on the notice board of the college at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principals to the University Examination Section within the stipulated date. Every page of the IA marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
150B 4.9	Any corrections or over writing of IA marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall on every sheet indicate the number of corrections and attest it with his signature.

150B 4.10 (a)	A student failing to secure a minimum of 50% of the IA marks in Practical/Internship/Project work shall not be eligible for the Practical /Internship/Project of the University examination.
150B 4.10 (b)	
150B 4.11	
150B 4.12	For theory subjects, there shall not be any minimum requirements of IA marks.
150B 4.13	<ul><li>Improvement of IA marks shall not be allowed</li><li>a. In theory subjects and</li><li>b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks.</li></ul>
150B 4.14	IA marks of those students to whom 150B 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
150B 4.15	IA 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 Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.
150B 5	<b>ELIGIBILITY FOR PASSING</b> A student who obtained Grades O to E shall be considered as passed and if a student secured "F" grade in any of the head of passing he /she has to reappear for the examination.
150B 5.1 (a)	For a pass in a theory subject/drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and 40% of marks in the aggregate inclusive of the IA marks. i.e. Minimum Passing Grade is "E".
150B 5.1 (b)	For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Internship/Project/Viva-voce. i.e. Minimum Passing Grade in a course is "E".
15OB 5.1 (c)	For a pass in Seminar, a student shall secure a minimum of 40% of the maximum marks prescribed. i.e. Minimum Passing Grade is "E".
150B 5.2	The students who do not satisfy the condition 150B 5.1 and the student who remains absent shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the IA marks awarded to the student/s at first attempt in the concerned theory subject will be carried forward. In case of Practical/Internship/Projects/Seminar revised marks will be taken as per regulations 150B 4.10 (a & b) and
150B 5.3	150B 4.11. The student who passes a course of a semester as per 150B 5.1 shall

	not be allowed to appear for the same again, unless he/she opts for
	rejection of results as per 150B 5.4, 5.5, 5.6, 5.7 & 5.8.
OB 5.4	A student may, at his/her desire, reject his/her total performance of a
	semester (including IA marks) or he/she may reject the result of
	his/her performance in University examination of a semester only. The rejection is permitted only once during the entire course of study.
150B 5.5	The student who desires to reject the performance as per 150B 5.4 shall
1500 5.5	reject performance in all the courses of the semester, irrespectiveof
	whether the student has passed or failed in any subject. However, the
	rejection of performance of 8 <sup>th</sup> semester project result shall not be
	permitted.
150B 5.6	A student, who desires to reject the total performance of the semester
	including Internal Assessment, has to take readmission for the
	relevant semester. Application for such readmission shall be sent tothe
	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. Readmission to First semester in
	such cases shall not be considered as fresh admission i.e., the student will continue to have the same University Seat Number, which was
	allotted earlier. The course duration permitted (as per
	150B 6) will be counted as per old USN.
OB 5.7	The student, who desires to reject only the results of University
	examination of a semester and does not desire readmission, shall be
	permitted to re-appear for examinations of all the subjects of the
	semester in the subsequent examinations. However, the IA marks
	obtained by the student in the rejected semester shall be retained.
	Applications for such rejection 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.
	If the rejection of the University examination results of the semester
	happens to be of the odd semester, the student shall be allowed to take
	admission to the immediate next even semester. However, if therejection
	of the University result is of the even semester, the studentshall not be
	allowed to take admission to the next odd semester (as per
	150B 7.2).
150B 5.8	Such students who opt for rejection at final year are eligible for the
	award of class and distinction at the B.E./ B.Tech. degree level, but
1500 50	are not eligible for the award of ranks.
150B 5.9	A student shall be declared to have completed the program of B.E. /
	B.Tech., degree, provided the student has undergone the stipulated
	course work as per the regulations and has earned at least 200 Credits.
150B 6	
	MAXIMUM DURATION FOR COURSE COMPLETION

150B 6.2	period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch. The student admitted to 1 <sup>st</sup> year B.E/ B.Tech. shall complete the course
	within a period of eight academic years from the date of first admission,
	failing which he/she has to discontinue the course. The students admitted under lateral entry scheme (2nd Year B.E./B.Tech.)
	shall complete the course within a period of six academic years from
	the date of first admission, failing which he/she
4500 5	has to discontinue the course.
150B 7	PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS
150B 7.1	There shall not be any restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
150B 7.2	<ul> <li>A student shall be eligible for promotion from an even semester to the next odd semester (i.e. of the next academic year) if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all thelower semester examinations. A theory or practical shall be treated as a head of passing.</li> <li>Illustrations <ul> <li>a. A student seeking eligibility to 3<sup>rd</sup> semester should not have failed in more than 4 heads of passing of first and second semesters taken together.</li> <li>b. A student seeking eligibility to 5<sup>th</sup> semester should have passed in all the subjects of 1<sup>st</sup> and 2<sup>nd</sup> semesters and should not have failed in more than 4 heads of passing of third and fourth semesterstaken together.</li> <li>c. A student seeking eligibility to 7<sup>th</sup> semester should have passed in all the subjects up to 4<sup>th</sup> semester and should not have failed in more than 4 heads of passing of 5<sup>th</sup> and 6<sup>th</sup> semesters taken together.</li> </ul> </li> <li>The Subjects: <ul> <li>Constitution of India, Professional Ethics and Human Rights, and</li> <li>Environmental Studies are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class,</li> </ul> </li> </ul>
	calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.
150B 8	COURSES

	There will be Four types of courses		
150B 8.1	There will be Four types of courses (i) <b>Core Courses</b> : This is the course which is to be compulsorily studied by a student as a core requirement to complete therequirements of a program in a said discipline of study. These courseswill have 4 credits per course. (ii) <b>Foundation Courses</b> : The Foundation Courses are of two kinds: <i>Compulsory Foundation</i> and <i>Elective foundation</i> . "Compulsory Foundation": These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. These courses will have 4 credits per course. "Foundation Electives": These are value based courses aimed at man making education. These courses will have 3 credits per course. <b>(iii)Elective Courses:</b> This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing		
	extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have		
	3 credits per course. (iv)Mandatory Non-Credit Courses: These courses are mandatory for students joining B.E./B.Tech. Program and students have tosuccessfully complete these courses before the completion of degree.		
150B 8.2	The minimum number of students to be registered for an Elective to be offered shall be not less than ten.		
150B 8.3	A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within15 days from the date of commencement of the semester as per the calendar of the University.		
150B 9	INTERNSHIP		
150B 9.1	<b>Internship:</b> The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7 <sup>th</sup> semester Examination after availing one week vacation and completing during the initial period of 8 <sup>th</sup> semester.		
	<ol> <li>The college shall nominate a faculty for a group of students to prepare the students for internship.</li> <li>The students shall report the progress of the internship</li> </ol>		
	<ul> <li>to the guide in regular intervals and may seek his/her advise.</li> <li>3. The Internship shall be completed between 7<sup>th</sup> and 8<sup>th</sup></li> </ul>		
	semesters.		
	<ul> <li>4. After completion of 7<sup>th</sup> semester Theory and Practical examinations, the students shall have one week vacation.</li> </ul>		
	<ol> <li>Immediately after availing one week vacation, the students shall undergo internship (without waiting for the results) which may be a period of 4/5 weeks.</li> </ol>		

6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8 <sup>th</sup> semester.
7. After completion of Internship, students shall submit a
report to the college with the approval of both internal and
external guides.
8. There will be 50 IA and 50 External marks for Internship.
9. The guide shall be the internal examiner and IA marks out
of 50 are to be awarded by the internal guide after evaluating the Internship Report submitted by the student.
10. Viva-Voce on internship shall be conducted at the college
and the date of Viva-Voce shall be fixed in consultation with the external Guide.
11. Viva-Voce on internship shall be conducted by both
internal and external guides and jointly evaluate the
internship report for 50 marks. The expenses of external
guide are to be borne by the student/college.
12. In case of the non availability of external guide for the
conduct of viva-voce, the Principal shall appoint a senior faculty of the department to conduct viva-voce along with the
internal guide, and they jointly evaluate the internship
report for 50 marks.
13. The students are permitted to carry out the internship
outside India with the following conditions:
a. The entire expenses are to be borne by the student or
college and the University will not give any financial assistance.
b. The Internal Guide has to visit at least once during
the student's internship; the expenses of the visit are to
borne by the student/college.
c. The external guide from the industry has to be an
examiner for the viva voce on Internship, and the
expenses are to be borne by the student/ college.
d. The University will not provide any kind of Financial Assistance to any student for internship and for the
conduct of Viva-Voce on internship.

150B9.2	<b>Report on Internship</b> : The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide.									
150B9.3	<b>Failing to undergo Internship:</b> Completion of internship is mandatory; if any student fails to complete internship, he/she will notbe eligible for the award of degree.									
150B9.4	<b>Non-completion of Internship</b> : In such cases, the student has to redo the internship.									
150B 10	SEMINAR AND PROJECT									
150B 10.1	Seminar topic shall be selected from the emerging technical areas only.									
150B 10.2	Project work at 8 <sup>th</sup> semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.									
150B 10.3	<i>Viva-voce</i> examination in project work shall be conducted batch-wise.									
150B 11	COMPUTATION OF SGPA AND CGPA									
	<ul> <li>i. The VTU adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.</li> <li>ii. The grading system is with the following letter grades as given below:</li> <li>Grades and Grade Points</li> <li>Level Out-standing Excellent Very Good Above Average Average Poor Fail</li> <li>Letter O S A B C D E F</li> </ul>									
	Grade Points         10         9         8         7         6         5         4         00									
	<ul> <li>iii. A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination.</li> <li>Such students after passing the failed subject in subsequent examination/s will be awarded with "E" grade irrespective of marks he/she scores in the subsequent examination/s.</li> <li>Number of attempts taken to clear a subject/s shall be shown in the transcripts.</li> </ul>									

Grade P	Grade Points Scale										
Level	Out- standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail			
Letter Grade	0	S	A	В	С	D	Е	F			
Grade Points	10	9	8	7	6	5	4	00			
Score (Marks) Range (%)	≥ 90	<90	< 80 ≥70	< 70 ≥60	< 60 ≥50	< 50 ≥45	<45 ≥40	< 40			

# **Computation of SGPA and CGPA**

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

<sup>1.</sup> 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

**SGPA** (Si) =  $\sum$ (Ci x Gi) /  $\sum$ Ci

where Ci is the number of credits of the  $i^{th}$  course and Gi is the grade point scored by the student in the  $i^{th}$  course.

ii. 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 programme, i.e. **CGPA =**  $\Sigma$ (Ci x Si) /  $\Sigma$  Ci

where Si is the SGPA of the i<sup>th</sup> semester and Ci is the total

number of credits in that semester.

**iii.** The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

# **Illustration for Computation of SGPA and CGPA**

## Computation of SGPA Illustration No.1

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	С	6	4x6 = 24
Course 3	4	В	7	4x7 = 28
Course 4	3	0	10	3x10= 30
Course 5	3	D	4	3x4 = 12
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	С	6	2x6 = 12
	25			174

Thus, SGPA= 174/25=6.96

## **Illustration No.2**

Course	Credit	Grade	Grade	Credit Point
		letter	point	(Credit x Grade)
Course 1	4	А	8	4x8 = 32
Course 2	4	С	6	4x6 = 24
Course 3	4	В	7	4x7 = 28
Course 4	3	0	10	3x10= 30
Course 5	3	F	0	3x0 = 00
Course 6	3	С	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	С	6	2x6 = 12
	25			162

Thus, SGPA= 162/25=6.48

## Illustration No.2(a)

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 5	3	E	4	3x4 =12
	25			Ci (First Attempt)162 +Ci (subsequent attempt) 12= 174
Thus. SGPA=	174/25	=6.96	•	•

# Thus, **SGPA= 174/25=6.96**

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 =32
Course 2	4	C	6	4x6 =24

	Course 3	4	В	7	4x7	=28		
	Course 4	3	0	10	3x10			
	Course 5	3	S	9	3x9			
	Course 6	3	C	6	3x6			
	Course 7	2	S	9	2x9			
	Course 8	2	C	6	2x5			
	Course o	25	C	0	270	189		
	Thus, <b>SGPA=</b>		7 56			109		
	Thus, <b>SGFA</b> -		<b>- 7 .50</b> x6.96 + 25x7.5	<u>6</u>				
		CGPA=	50	=7.26				
	CGPA	after Find	al Semes	ter				
		n 2 Sem.	- 3 Sem	4 Sem 5	Sem 6	Sem 7	Sem 8	
			: 27 Credit : 2		Credit:24	Credit:24	Credit : 26	
	SGPA:7 SGPA	A:8.5   SGPA:9	0.2  3GPA:0.0	6 SGPA:8.18	SGPA:7.73	SGPA:8.68	SGPA:9.4	
	Thus, CGPA=	94x7 + 24x85	+27x92+27x	686 + 24x818	+ 24x773 + 2	4x868 + 26x9	4 -0 2	
	Thus, CGPA=	21/11/21/2013	1 2129.2 1 213	200	1 2121.1312	1.0.00 + 2017	<u> </u>	
	Transcript (	Format):	Based on	the above	recomm	endations	on Letter	
	grades, grade	points, S	GPA and	CCPA, the	transcrip	ot for eac	hsemester	
	and a consoli			icating the	performa	nce in		
	all semesters	may be is	ssued.					
150B 12	CONVERSION OF GRADES INTO PERCENTAGE:							
	Conversion f					-	ge is	
	[CGPA Earned	l - 0.75] x	10= Perc	entage of r	narks sco	red.		
			1.0.0					
	Illustration:	-		_	= 74.5%			
150B 13	AWARD OF	PRIZES, N	AEDALS 8	& RANKS				
150B 13.1	For the award							
	may be consid			provisions	of the sta	atutes fran	ned by the	
	University for							
150B 13.2	For award o							
	have appeare							
	ranks awarde						ared in 8 <sup>th</sup>	
	semester or 1	10 studen	ts, which	ever is less	in that b	oranch.		
	Illustration:							
			• •				Electronics	
							r of ranks	
			or Electro	onics and (	Communi	cation Er	ngineering	
	will 10			for 1	Oth	-+		
	2. If 90							
					r ranks	to be aw	varded for	
1500		lical Engin			ing / T		the CCDA	
150B	For award of			n Engineer	ing / Teo	unology,	the CGPA	
13.3	secured by th			tu dante e	itted i	۰ D F / D יי	Toob	
	-			students ad	imitted t	0 B.E./B.1	ecn.	
	Progra	m from 1 <sup>s</sup>	<sup>,,</sup> year, an	a				

	<ul> <li>b) 3<sup>rd</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech.</li> <li>Program from 2<sup>nd</sup> year (Lateral Entry)</li> <li>shall be considered.</li> </ul>
	A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student a. Has passed 1 <sup>st</sup> to 8 <sup>th</sup> (students joining from 1 <sup>st</sup> semester) or 3 <sup>rd</sup> to8 <sup>th</sup> (in case of lateral entry) semester in all the subjects in first attempt only
	b. Has not repeated/rejected any of the lower semesters.
150B	If two students get the same CGPA, the tie should be resolved by
13.4	considering the number of times a student has obtained higher <i>SGPA</i> ; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, S, A, B etc shall be taken into account in rank ordering of the students in a program.
150B 14	TRANSFER OF STUDENTS
150B14.1	<ul> <li>Transfer of students from one college to another college within Karnataka state 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 and subject to the prior approval of the University and the provisions of 150B 7.2.</li> <li>In the case of students from Universities other than VTU the students should have passed in all the courses of 1<sup>st</sup> &amp; 2<sup>nd</sup> semesters for admission to 3<sup>rd</sup> semester and all the courses of 1<sup>st</sup> to 4<sup>th</sup> semesters for admission to 5<sup>th</sup> semester and all the courses of 1<sup>st</sup> to 6<sup>th</sup> semesters for admission to 7<sup>th</sup> semester.</li> <li>The students seeking admission from Universities other than VTUshall have to <ul> <li>a. apply for establishment of equivalence with prescribed fees as notified by the VTU and</li> <li>b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.</li> </ul> </li> </ul>
150B14.2	Transfer of students within the College from one branch to another branch at 3 <sup>rd</sup> semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka and AICTE in this behalf.
150B14.3	The University may prescribe fee for administrative purpose (for updating
	of the records), 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).
	*****

NOTE: These regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all and may be modified from time to time.

# Visvesvaraya Technological University, Belagavi



REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017 – 18

AUGUST2017

# Visvesvaraya Technological University, Belagavi

# REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Effective from the academic year 2017 – 18

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# Visvesvaraya Technological University, Belagavi

#### REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017 – 18

#### **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:

- Programme: Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ 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 semester may be scheduled from August and even semester from February of the year.
- 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/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.
- 6) **Credit:** Referstoa 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 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, Counselor 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. **SEE** and **CIE** to carry 60% and 40% 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 weightage for the different components being fixed at the University level.

#### Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech) Under Choice Based Credit System (CBCS) (Effective from the academic year 2017 – 18)

- **12)** Semester end examinations (SEE): Refers to examination conducted at the University level 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.
- 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 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 Examination (Annexure -1).

Table 1: Credit Values									
Theory/Lectures (L)	Tutorials (T)	Laboratory/Practical (P)	Credits	Total					
(hours/week/Semester)	(hours/week/Semester)	(hours/week/Semester)	(L:T:P)	Credits					
4	0	0	4:0:0	4					
3	0	0	3:0:0	3					
2	2	0	2:1:0	3					
2	0	2	2:0:1	3					
2	2	2	2:1:1	4					
0	0	6	0:0:3	3					
<b>NOTE:</b> Activities like.	practical training, study	y tour and participation in C	Juest lectur	es not to					

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

- 16) Letter Grade: It is an index of the performance of students in a said Course. Grades are denoted by letters S, A, B, C, D, E and F.
- **17) Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 17OB6.0]. The rubric 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.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale								
Letter Grade	S	А	В	С	D	Е	F	
Grade Point	10	09	08	07	06	04	00	

- **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 grade point (GP) and number of credits for a Course i.e., Credit Point (CrP) = GP × Credits for the Course

- 21) Semester Grade Point Average (SGPA): Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer:170B6.0]
- 22) Cumulative Grade Point Average (CGPA): Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 17OB6.0]
- **23) Transcript or Grade Card or Certificate:** Refers to a certificate showing the grades earned by a student. A grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the programme details (Course code, title, numberof credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) University: Visvesvaraya Technological University (VTU), Belagavi.



# Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech.) Under Choice Based Credit System (CBCS) (With effective from the academic year 2017 – 18)

Under	· U	noice	Based	Creat	Sy	stem (CBCS)	
	~~			-			

	(With effective from the academic year 2017 – 18)
17OB 1.0	Title, Duration and Credits of the Programme of Study
17OB 1.1	The programme of study shall be called the degree of Bachelor of Engineering (Subject of Specialization) /Bachelor of Technology (Subject of Specialization), abbreviated as B.E. / B.Tech. (Subject of Specialization).
17 OB1.2	The program to which students are admitted to I semester of the programme shall be of
17 001.2	four academic year duration divided into eight semesters and each semester is of 16 weeks
	duration.
	The programme to which students are admitted to III semester of the programme under
	lateral entry shall be of three academic year duration divided into six semesters and each
	semester is of 16 weeks duration.
	The programme (conducted during evening) to which students are admitted to III semester
	of the programme under lateral entry shall be of three academic year duration divided into
	six semesters and each semester is of 16 weeks duration. The deficit contact hours of the
	programme, conducted during evening on all working days, shall be
	compensated on all Sundays (except on general holidays).
17 OB 1.3	The calendar of events in respect of the program of study shall be notified by the
15 OD 1 4	University in advance.
17 OB 1.4	The University examination in all programs of study shall be conducted at the end of
	each semester for all the eight semesters.
17 OB 1.5	Maximum Duration for Programme Completion:
	i. Students admitted to I year 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 Course.
	ii. Students admitted II Year B.E./B.Tech. under lateral entry scheme shall
	complete the Programme within a period of six academic years from the date of first admission, failing which he/she has to discontinue the Course.
	b)
	<ul> <li>i. A student who has not obtained the eligibility for III semester even after three academic years from the date of admission to I semester shall discontinue the Programme or get readmitted to I semester of first year B.E./B.Tech. with a new University Seat Number but retaining the sameyear of admission.</li> <li>ii. A student (under lateral entry scheme) who has not obtained the eligibility for V semester even after three academic years from the date of admission toIII semester shall discontinue the Programme or get readmitted to III semester of II year B.E./B.Tech. with a new University Seat Number but retaining the same year of admission.</li> </ul>
17 OB 1.6	Prescribed Number of Credits for the Programme:
1/ 00 1.0	(a) The number of credits to be completed by students admitted I semester of
	B.E./B.Tech. programme shall be 200
	<ul><li>(b) The number of credits to be completed by students admitted to III semester of B.E./B.Tech. programme under lateral entry scheme shall be 152</li></ul>

17 OB2.0	Eligibility for Admission(As per the Government orders issued from time to time)					
17 OB2.1	Admission to I year/ I semester Bachelor Degree in Engineering/ shall be open to the students who have passed the II PUC/ XII Standard/ Equivalent Examination with English as one of the Languages and obtained a Minimum of 45% of Marks in aggregatein Physics and Mathematics along with Chemistry / Bio-Technology / Biology / Electronics / Computer.					
	In case of SC/ST, Category -1 and OBC (2A, 2B, 3A and 3B) category students from					
	Karnataka (Karnataka candidates) the minimum marks for eligibility shall be 40 %. With regard to the qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory for admission to B.E./B.Tech. programme. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the Equivalence committee shall be the final in establishing the eligibility of the student.					
	Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the Diploma holders and B.Sc. graduates.					
17 OB2.2	(i) Diploma Holders					
	<ul> <li>(a) Must have passed diploma or equivalent examination as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).</li> <li>(b) Those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</li> <li>(ii) B.Sc. Graduates Must have passed B.Sc. degree from a recognized University under the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (considering the marks ofall six semesters). In case of SC/ST and OBC students from Karnataka (Karnataka</li></ul>					
	candidates) the minimum marks for eligibility shall be forty percent (40%).					
	Candidates must have studied Mathematics as subject of study					
	at XII Standard.					
	(i) Diploma Holders for the programme conducted during evening					
	A candidate who has passed 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 is eligible to B.E Courses, and 40 % of marks in case of 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 professional experience as on first September of the year of admission, in a registered firm/company/industry/ educational / Government / Autonomous organizations in the branch of Engineering/ Technology, in which the candidates hold a diploma, and in which admission is sought by him/her.					

17 OB2.2	Further that employment shall be in an establishment situated within the 15 km
(continued)	from the place of the institution to which the candidate is seeking admission.
	Professional experience refers to the experience earned as an employee on
	regular basis in,
	(a) Government, Government Undertaking, Public Sector Undertaking,
	Corporation or,
	(b) In a private company registered under the Directorate of Industries and
	Commerce or the Directorate of Small Scale Industries or,
	(c) Government, 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.
	Further, those candidates who have completed Diploma from other than
	Karnataka state shall provide the Equivalence/ Eligibility Certificate from the
	Director of Technical Education, Karnataka.
17 OB2.3	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.
17 OB3.0	Courses
17 OB3.1	There shall be the following types of Courses:
	a) Humanities and Social Sciences (HSS) including Management. These are
	mandatory for all disciplines.
	b) Basic Sciences (BS): Physics, Chemistry and Mathematics. These are mandatory
	for all disciplines.
	c) Engineering Sciences (ES): Materials, Workshop, Drawing, and Basics of
	Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer
	Engineering. These are mandatory for all disciplines.
	d) Professional Subjects (PS) - Core: Are the professional Core (PC) Courses,
	relevant to the chosen specialization/ branch. The core Courses are to be
	compulsorily studied by a student and are mandatory to complete them to fulfill
	the requirements of a programme.
	e) Professional Subjects (PS) - Elective: Are the professional Electives (PE),
	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 nurturingstudent proficiency
	skills.
	f) Open Subjects - Electives (OE): Are from other technical areas and/ or from
	emerging fields.
	g) Mini project and Main Project: Carried out at the Institution or at an Industry.
	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 of significant repute for a specified period mentioned
	in the Scheme of Teaching and Examination.
	j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of
	a grade or credit, for students admitted to B.E./B.Tech. program. A pass in each
	mandatory Course is required to qualify for Degree award from the University.
1	

	k) Audit Courses (AC): Knowledge/ skill enhancement Courses without the benefit
17 OD2 1	
17 OB3.1	of a grade or credit for a Course.
(continued)	i) The Audit Course/s (other than the Course/s considered for completing the
	prescribed program credits) can be any Course offered by the program to
	which the student is admitted to other programs offered in the institution,
	where the student is studying.
	ii) The students who are interested in audit Courses can register for one audit
	Course at a time during III to VIII semesters. Students, who have opted for
	audit Courses and considered on par with students registered for credit
	Courses, have to satisfy the attendance and CIE requirements. However, they
	need not have to appear for SEE.
	The number of registrations to an audit Course is restricted to 10 % of the
	AICTE intake.
	iii) Registration for any audit Course, in writing, shall be completed at the
	beginning of semesters. The Institution should intimate the Registrar
	(Evaluation) about the registration at the beginning of the semester and obtain
	a formal approval for inclusion of the audit Course/s in the Grade
15 002 2	cards/ Transcripts issued to the students.
17 OB3.2	The minimum number of students registered to any Elective offered by the Departments
17 OB3.3	shall be not less than ten.A student shall exercise his option in respect of Elective Courses and register for the
17 005.5	same at the beginning of the concerned semester.
	The student may be permitted to opt for a change of Elective Course within 15 days from the date of commencement of the semaster as per the colordar of the University.
17 002 4	from the date of commencement of the semester as per the calendar of the University.
17 OB3.4	<b>Course Registration:</b> 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 for the Institution to maintain proper record
170P40	each Semester for the Institution to maintain proper record.
170B4.0	Internship/Professional Practice
170B4.0 170B4.1	Internship/Professional Practice Internship / Professional Practice:
	Internship/Professional Practice         Internship / Professional Practice:         1) The Internship shall be completed during the period specified in the Scheme of
	Internship/Professional Practice         Internship / Professional Practice:         1) The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.
	Internship/Professional Practice         Internship / Professional Practice:         1) The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.         2) The internship can be carried out in any industry/R and D Organization/Research
	<ul> <li>Internship/Professional Practice</li> <li>Internship / Professional Practice: <ol> <li>The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.</li> <li>The internship can be carried out in any industry/R and D Organization/Research Institute/ Educational institute of repute.</li> </ol></li></ul>
	<ul> <li>Internship/Professional Practice</li> <li>Internship / Professional Practice: <ol> <li>The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.</li> <li>The internship can be carried out in any industry/R and D Organization/Research Institute/ Educational institute of repute.</li> <li>(a) The Department/college shall nominate staff member/s to facilitate, guide and</li> </ol></li></ul>
	<ul> <li>Internship/Professional Practice</li> <li>Internship / Professional Practice: <ol> <li>The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.</li> <li>The internship can be carried out in any industry/R and D Organization/Research Institute/ Educational institute of repute.</li> </ol></li></ul>
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	8) The extern	nal guide fro	om the in	dustry shal	l he an ex	aminer fo	or the viva	voce on
		. Viva-Voce		•				
	Viva-Voce shall be fixed in consultation with the external Guide. The Examiners shall							
	<ul><li>jointly award the Viva - Voce marks.</li><li>9) In case the external Guide expresses his inability to conduct viva voce, the Chief</li></ul>							
			-		-			
	Superintendent of the institution shall appoint a senior faculty of the Department to conduct viva-voce along with the internal guide. The same shall be informed in							
	conduct viva-voce along with the internal guide. The same shall be informed in writing to the concerned Chairperson, Board of Examiners (BOE).							
	•		-			-	-	r abroad.
	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							
170B4.2	÷ ÷	ut the Interns	<u> </u>	ahin is one	of the her	ad of poss	ing Comm	lation of
1/004.2	<b>Failing to und</b> internship is n	-	-	-		-	÷ .	
	shall be consid				-	-		
	in that Course					•	• •	
	prescribed for							
17OB5.0	Seminar and	Project						
17OB5.1	Seminar: Sem	ninar is one o	f the head	of passing.				
	i) Each can	didate shall	deliver se	eminar as p	per the Sch	neme of T	Ceaching ar	nd
		ion on the top						
		of the Depar			-		-	
	-	oncerned fac	•		-			
	for the purpose by the Head of the Department shall award the CIE marks for the							
	seminar. The committee shall consist of three faculty from the Department and the senior most acting as the Chairman/Chairperson [To be read along with 17 OB]							
	senior most acting as the Chairman/Chairperson. [To be read along with 17 OB 8.6].							
17OB5.2	Project Work	Project is c	one of the	head of pas	sing.			
	Project work s	e		-	•	f each bat	ch shall no	t exceed
	maximum of f	our students.						
17OB5.3	Viva-voce exa	mination in J	project wo	ork shall be	conducted	batch-wis	e.	
17OB 6.0	Computation of SGPA and CGPA							
17OB 6.1	(i) The University adopts absolute grading system wherein the marks are converted to							
	grades, and every semester results will be declared with semester grade pointaverage							
	(SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will becalculated							
	for every semester, except for the first semester.							
	<ul><li>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</li></ul>							
	absolute g	grading syste	in are as g	Iven below	•			
	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail
	Letter Grade	S	А	В	С	D	Е	F
	Grade Points	10	9	8	7	6	4	00
	Percentage of	≥ 90	<90	< 80	< 70	< 60	< 45	< 40
	Marks Scored in a Course	(90 - 100)	≥80 (80 - 89)	≥70 (70 - 79)	≥60 (60 - 69)	$\geq 45$ (45 - 59)	≥40 (40 - 44)	(0 - 39)
		(90-100)	(00 - 09)	(10 - 19)	(00 - 09)	(45 - 59)	(40 - 44)	(0 - 39)
L	L							

	(iii) A student obtaining Grade 'F' in a Course shall be considered failed and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his / her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts.
17OB 6.2	Computation of SGPA and CGPA (as per UGC Guidelines)
	The following procedures shall be used to compute the Semester Grade Point Average
	(SGPA) and Cumulative Grade Point Average (CGPA) respectively:
	i) The SGPA is the ratio of sum of the product of the number of credits with the
	grade points secured by a student in all the Courses taken by him/her and the sum
	of the number of credits of all the Courses undergone by a student, i.e.,
	$SGPA = \frac{\sum(C_i \times G_i)}{\sum C_i}$
	Where C <sub>i</sub> is the number of credits of the i <sup>th</sup> Course and G <sub>i</sub> is the grade point
	scored by the student in the i <sup>th</sup> Course.
	ii) 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 programme, i.e.,
	$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$
	Where $S_i$ is the SGPA of the i <sup>th</sup> semester and $C_i$ is the total number of credits in
	that semester.
	The SGPA and CGPA shall be rounded off to 2 decimal places and reported in
	the transcripts.
L	1

	n No.1	<u> </u>		Credit Point = (Credit × Grade
Course	Credit	Grade letter	Grade point	Creatt Point = (Creatt × Grade
Course 1	4	В	08	$4 \times 08 = 32$
Course 2	4	D	06	$4 \times 06 = 24$
Course 3	4	C	07	$4 \times 07 = 28$
Course 4	3	S	10	$3 \times 10 = 30$
Course 5	3	E	04	$3 \times 04 = 12$
Course 6	3	D	06	$3 \times 06 = 18$
Course 7	2	A	09	$2 \times 09 = 18$
Course 8	2	D	06	$2 \times 06 = 12$
Total	25			174
Thus, SGP	A = 174/2	o = 6.96		
Illustratio	n No.2			
Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	В	08	4 × 08 = 32
Course 2	4	D	06	$4 \times 06 = 24$
Course 3	4	С	07	$4 \times 07 = 28$
Course 4	3	S	10	$3 \times 10 = 30$
Course 5	3	F	00	$3 \times 00 = 00$
Course 6	3	D	06	$3 \times 06 = 18$
Course 7	2	A	09	$2 \times 09 = 18$
Course 8	2	D	06	$2 \times 06 = 12$
Total Thus, <b>SGP</b>	25 A= <b>162/2</b> :	 5=6.48		162
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b>	25 A= 162/25 It secures 1 n No. 2(a)	 5=6.48	 uring reappeara	162 nce then the SGPA is Calculated
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> Course	25 A= 162/25 it secures 1 n No. 2(a) Credit	= =6.48 etter grade C d Grade letter	 uring reappeara Grade point	162 nce then the SGPA is Calculated a Credit Foint = (Credit × Grade
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5	25 A= 162/25 it secures n No. 2(a) Credit 3	  etter grade C d Grade letter C	 uring reappeara Grade point 07	162 Ince then the SGPA is Calculated Credit Foint = [Credit × Crade 7× 03 = 21
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21	25 A= 162/25 it secures n No. 2(a) Credit 3 it Points = = 183	         	 uring reappeara Grade point 07	162 Ince then the SGPA is Calculated a Credit Foint = (Credit × Grade) 7×03 = 21
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21 Total credi	25 <b>A = 162/23</b> It secures In <b>No. 2(a)</b> Credit 3 It Points = = 183 Its of the sec	         	 uring reappeara Grade point 07	162 Ince then the SGPA is Calculated a Credit Foint = (Credit × Grade) 7× 03 = 21
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21 Total credi	25 <b>A = 162/23</b> It secures In <b>No. 2(a)</b> Credit 3 It Points = = 183 Its of the sec	         	 uring reappeara Grade point 07	162 Ince then the SGPA is Calculated a Credit Foint = (Credit × Grade) 7×03 = 21
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b>	25 A = 162/25 it secures 1 n No. 2(a) Credit 3 it Points = = 183 ts of the sec A = 183/25	         	 uring reappeara Grade point 07	162 nce then the SGPA is Calculated a Credit Foint = (Credit × Grade
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21	25 A = 162/25 it secures 1 n No. 2(a) Credit 3 it Points = = 183 ts of the sec A = 183/25	         	 uring reappeara Grade point 07	162 Ince then the SGPA is Calculated a Credit Foint = (Credit × Grade) 7×03 = 21
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b> <b>Illustratio</b> Course	25 $A = 162/25$ it secures 1 in No. 2(a) Credit 3 it Points = 183 its of the sec $A = 183/25$ in No.3 Credit	 5=6.48 etter grade C d Grade letter C C Credit Points of emester = 25 5=7.32 Grade letter	 uring reappeara Grade point 07 of first Attempt, Grade point	162         nce then the SGPA is Calculated a         Credit Foint = [Credit × Grade]         7× 03 = 21         ) + Credit Points of subsequent atte         Credit Point = (Credit x Grade)
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b> <b>Illustratio</b> Course Course 1	25 <b>A = 162/25 i</b> t secures 1 <b>n No. 2(a) Credit</b> 3 <b>i</b> t Points = 183 <b>ts of the sec A = 183/25 n No.3 Credit</b> 4		uring reappeara Grade point 07 of first Attempt Grade point 08	162         nce then the SGPA is Calculated a         Credit Foint = [Credit × Crade]         7× 03 = 21         ) + Credit Points of subsequent atte         Credit Point = (Credit x Grade)         4 x 08 = 32
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b> <b>Illustratio</b> Course Course 1 Course 2	25 A = 162/23 it secures <b>n No. 2(a)</b> Credit 3 it Points = = 183 ts of the sec A = 183/23 <b>n No.3</b> Credit 4 4 4		uring reappeara Grade point 07 of first Attempt, Grade point 08 06	162         Ince then the SGPA is Calculated a         Credit Point = [Credit × Crade] $7 \times 03 = 21$ ) + Credit Points of subsequent attr         (Credit Point = (Credit x Grade)         4 x 08 = 32         4 x 06 = 24
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b> <b>Illustratio</b> Course Course 1 Course 2 Course 3	25 A = 162/23 it secures in No. 2(a) Credit $3$ it Points = 183 its of the sec A = 183/23 its of the sec A = 183/23 its of the secure of th	         	uring reappeara Grade point 07 of first Attempt Grade point 08 06 07	162nce then the SGPA is CalculatedCredit Foint = (Credit × Crade $7 \times 03 = 21$ ) + Credit Points of subsequent attCredit Point = (Credit x Grade)4 x 08 = 324 x 06 = 244 x 07 = 28
Total Thus, <b>SGP</b> If a Studer below. <b>Illustratio</b> <b>Course</b> Course 5 Total Cred =162 + 21 Total credi Thus, <b>SGP</b> <b>Illustratio</b> Course Course 1 Course 2 Course 3 Course 4	25 A = 162/23 A = 183 A = 183 A = 183 A = 183/23 A =	= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	uring reappeara Grade point 07 of first Attempt Grade point 08 06 07 10	162nce then the SGPA is Calculated aCredit Foint = (Credit × Crade) $7 \times 03 = 21$ ) + Credit Points of subsequent attended(Credit × Crade)4 x 08 = 324 x 08 = 324 x 06 = 244 x 07 = 283 x 10 = 30
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17OB 6.2 (continued)	Semester	Ι	II	III	IV	V	VI	VII	VIII
(continueu)	Credits of the semester	24	24	27	27	24	24	24	26
	SGPA	7.00	8.50	9.20	6.86	8.18	7.73	8.68	9.40
	$Thus CGPA = \frac{(24 \times 7.00 + 24 \times 8.50 + 27 \times 9.20 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.40)}{(24 \times 7.00 + 24 \times 8.50 + 27 \times 9.20 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.40)}$								= 8.20
		200							
17OB 6.3	Transcript Format:	Based of	n the sec	cured lett	er grade	s, grade	points, S	GPA an	d CGPA,
	the transcript for each all semesters shall be i		er and a c	consolida	ited trans	script ind	licating t	he perfoi	rmance in
17OB 7.0	Conversions of Grad		Percenta	ge and I	Declarati	on of Cl	ass		
17OB 7.1	Conversion Formula F			0				ven Belo	W
1.02.11	Percentage Of Marks								
	Illustration For A CGF	A Of 8.2	20:						
	P = CGPA Earned 8.2	2 - 0.75]	$\times$ 10 = 7	4.5 %					
17OB 7.2	Class Declaration:	C C' 1 4	CODA .			1 0		1	
	After the conversion of declared to have page		CGPA in	to perce	ntage of	marks (I	P), a gra	duating s	student 1s
	declared to have passe (i) First Class with Dis		(FCD) if	f D > 700	6				
	(ii) First Class (FC) if		· /		0				
	(iii) Second Class (SC			o /o una					
17OB8.0	Continuous Internal	Evaluat	ion						
17OB8.1	For each theory and practical paper, the CIE marks shall be 40.								
	For Technical seminar					11.1 50			
	For Internship/ Profess For Project Phase –I						_II the	CIF sha	11 be 100
	respectively.	und I I	sjeet sen	innar and	i i i i i i i i jee	i i nuse	II, the		11 00 100
17OB8.2	CIE Marks in each	theory (	Course s	hall be	the sum	of marl	ks presci	ribed for	test and
	assignment.	. 1 11	1 20	1.1.6		. 10	<b>`</b>		
	Marks prescribed for t The CIE marks for tes				0			morally	anducted
	at the end of fifth, tent		-				-	-	
	for a maximum of 30 t								
	The remaining 10 ma						-		
	tests/written Quizzes CIE marks awarded sh	that sup	port to a	cover so	me of th	e Course	e/program	n outcor	
	The candidates shall w						-		
	Quizzes in Blue Boo			-		•		-	
	Department for at le								esults and
	shall be made availab	ole for v	verification	on at the	e directio	on of the	Registra	ır	
	(Evaluation).								

17OB8.3	In the case of a Practical, the CIE marks shall be based on the laboratory journals/ records (30
	Marks on continuous evaluation based on conduct of experiment, viva and report writing) and
	one practical test (10 Marks) to be conducted at the end of the semester.
17OB8.4	(i) The CIE marks for I year Computer Aided Engineering / Drawing:
	a) 24 marks for class work (sketching and Computer Aided engineering Drawing).
	b) 16 marks for test conducted in the same pattern as that of SEE (The marks secured can
	be taken as best of the two tests).
	(ii) The CIE marks for other Drawings/ Design Drawings offered by various branches shall be
	based on the evaluation of the sheets and one test in the ratio 60:40.
17OB8.5	The CIE marks in the case of projects and seminars in the final year shall be based on the
	evaluation at the end of VIII semester 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
	project / seminar guide.
17OB8.6	i. For theory Courses, there shall not be any minimum requirements of CIE marks.
	ii. Minimum requirement of CIE marks for Practical/ Internship/Project work shall be 50%
	of the maximum marks.
	iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum
	marks.
17OB8.7	i) Students failing to secure a minimum of 50% of the CIE marks in Practical/
	Internship/Project work shall not be eligible for the Practical / Internship/Project
	examination conducted by the University and they shall be considered as failed in that/those Course/s. However, they can appear for University examinations conducted in other
	Courses of the same semester and backlog Courses if any.
	Students after satisfying the prescribed minimum CIE marks in the Course/s when offered
	during subsequent semester shall appear for SEE.
	ii) If any student fails to secure a minimum of 40% of the maximum CIE marks in seminar/
	fails to deliver the seminar, he/she shall be considered as failed in that Course and shall
	not be eligible for the award of degree. However, the student shall become eligible for the award of degree after satisfying the requirements prescribed for seminar during the
	subsequent semester/s.
	iii) The Course/s under 17OB8.6 (ii) and (iii), when repeated are considered as attempts.
17OB8.8	CIE marks of those students, who come under 17OB8.7, shall be sent separately to the
	Registrar (Evaluation).
17OB8.9	If a student remains absent for all the CIE tests conducted, the CIE Marks shall be marked as
	AB for the Courses against the University Seat Number (USN) of the student in the marks
	sheet submitted to the University by the Principal of the College.
17OB8.10	Improvement of CIE marks shall not be allowed in
	a. Theory Courses and
	b. Laboratory/Workshop/Seminar/Internship/Project where the student has already secured
	the minimum required marks.
17OB8.11	The final list, incorporating corrections (if any) of CIE marks awarded to the students in the
	Theory/Practical/Internship/Project work/ Seminar, shall be displayed on the notice board of
	the college at least seven days before the closure of the semester and a certified copy of the
	same shall be sent by the Principal to the University Examination Section within the stipulated
	date. Every page of the CIE marks sheet shall bear the signatures of the concerned
	Teacher/Teachers, Head of the Department and Principal.
17OB8.12	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.

17OB8.13	CIE marks shall reach the University before the commencement of examination as per the
	notification issued 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.
17OB 9.0	Eligibility for Passing and Award of Degree(To be read along with 17OB4.2, 5.1, 5.2, 8.6 and 8.7)
17OB 9.1	<ul> <li>(a) For a pass in a theory Course/Drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and in total 40% of the maximum marks (i.e., prescribed for SEE and CIE) including the CIE marks secured by the student.</li> <li>(b) The Minimum Passing letter grade in a Course is 'E'.</li> <li>(c) For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination. The Minimum Passing Grade in a Course is 'E'.</li> </ul>
17OB 9.2	<ol> <li>A student who obtain any grade from 'S' to 'E' shall be considered as passed.</li> <li>If a student secure F grade in any of the head of passing (17 OB 4.2, 17 OB 5.1, 17 OB 5.2 and 17 OB 11.2) he/she has to reappear in that head for the SEE.</li> <li>A student will be declared successful at the end of academic year if he/she has not more than four 'F' grades in the immediate preceding two semesters.</li> <li>A student will be declared successful at the end of program, when he/she has none of the Courses remaining with F grade and shall have CGPA of greater than or equal to 5.00.</li> <li>In case, the CGPA falls below 5.00 at the end of the program, the student shall be permitted to appear again for SEE in full or part of the previous semester Courses by rejecting the performance for required number of Course/s (other than seminar, Projectand Practical's) and times, subject to the provision of 17OB1.5, to make up CGPA equalto or greater than 5.0. The student should reject the SEE results of the previous attemptand obtain written permission from the Registrar (Evaluation) to reappear in the subsequent SEE.</li> </ol>
17OB 9.3	The students who do not satisfy the provision 17OB9.2 (1) and the students who remainabsent for the University examinations shall be deemed to have failed in that Course/s. They have to reappear for the University examination in the subsequent examinations. The CIE marks awarded to the student/s at first attempt in the concerned theory Course/s will becarried forward. Revised CIE marks are considered only in cases under the provisions of 17OB8.7.
17OB 9.4	Students who pass a Course of a semester as per 17OB 9.1 and has earned CGPA equal to or greater than 5.00 shall not be allowed to appear for any individual Course/s again, unless they opt for rejection of results of entire semester as per 17OB 9.5.
170B9.5	A student may, at his/her desire, reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examination of a semester. The rejection is permitted only once during the entire programme of study.
170B9.6	The student who desires to reject the results of a semester shall reject performance in all the Courses of the semester, irrespective of whether the student has passed or failed in any Course. However, the rejection of performance of VIII semester project shall not be permitted.

170B9.7	A student, who desires to reject the total performance of a semester including CIE marks, has to take readmission for that semester. 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. Readmission to First semester in such cases shall not be considered as fresh admission and therefore the student will continue to have the same University Seat Number, which was allotted earlier. The Course duration (as per 17OB1.5) will be counted with reference to old USN.
17089.8	The student, who rejects only the results of University examination of a semester, shall be permitted to re-appear for University examinations of all the Courses of that semester in the subsequent examinations. However, the CIE marks obtained by the student in the rejected semester shall be retained. Applications for rejection and approval to reappear for University examination 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. If the rejection of results of University examination is of odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of results of University examination is of even semester, then the student shall not be allowed to take admission to the next odd semester (as per 17OB11.2).
170B9.9	Students who opt for rejection of results of University examination are eligible for the award of class and distinction, but are not eligible for the award of ranks.
170B9.10	A student shall be declared to have completed the program of B.E. / B.Tech. degree, provided the student has undergone the stipulated Course work as per the Scheme of Teaching and Examination and has earned the prescribed number of credits as per the provision 17OB1.6, having CGPA $\geq$ 5 with none of the registered courses remaining with 'F' grade.
17OB10.0	Attendance Requirement
17OB10.1	Courses of each semester shall be treated as a separate unit for calculation of the attendance. The candidate has to put in a minimum attendance of 85% in each Course with a provision to condone 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 are to be submitted along with the recommendations.
17OB 10.2	The datum for the calculation of attendance shall be the number of Teaching hours prescribed for a Course [50 hours for 04 credit Courses (theory), and 40 hours for 03 credit Courses (theory) counted from the date of commencement of the semester. In case of Laboratories, the number of classes (deemed as teaching hours) is equal to the number of experiments prescribed under main heading]. In case of late admission, approved by competent authority (DTE/VTU), to I semester/III semester (lateral entry scheme)/ III semester (lateral entry scheme) of Engineering programme conducted during evening the attendance shall be reckoned from the date of admission to the programme.

17OB10.3	The Course Instructor/ Mentor/College shall inform the students as well as their parents about the attendance status periodically. Students who are facing the shortage of attendance be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance.						
17OB10.4	A candidate, who does not satisfy the attendance requirement (in one or more Courses)as mentioned in 17OB10.1 shall not be eligible to appear for the SEE 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.						
17OB 10.5	The list of the candidates falling short of attendance shall be sent to Registrar (Evaluation) at least once in a month and final list shall be sent one week prior to the commencement of the examination. The detained students should obtain permission from Registrar, VTU for readmission to the semester concerned as a repeater.						
17OB 11.0	Promotion and Eligibility						
17OB 11.1	There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.						
17OB 11.2	A student shall be eligible for promotion from an even semester to next odd semester if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the Courses of all the lower semester examinations. Each credit Course shall be treated as a head of passing.						
	Illustrations:						
	a) A student seeking eligibility to III semester should not have failed in more than 4 heads of passing of I and II semesters considered together.						
	<ul> <li>b) A student seeking eligibility to V semester should have passed in all the subjects of I and II semesters and should not have failed in more than 4 heads of passing of III and IV semesters considered together.</li> </ul>						
	c) A student seeking eligibility to VII semester should have passed in all the subjects up to IV semester and should not have failed in more than 4 heads of passing of V and VI semesters considered together.						
	<ul> <li>Lateral entry scheme:</li> <li>a. A student seeking eligibility to V semester should not have failed in more than 4 heads of passing of III and IV semesters considered together.</li> <li>b. A student seeking eligibility to VII semester should have passed in all the subjects of III and IV semesters and should not have failed in more than 4 heads of passing of fifth and sixth semesters considered together.</li> </ul>						

17OB 11.3	<ul> <li>a. All students admitted to I semester and to III semester under lateral entry scheme to B.E./B.Tech. programme have to undergo the Mandatory non – creditCourses viz., Environmental Studies and English Language. However these Courses shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA.</li> </ul>
	b. The Courses viz., Advanced Mathematics I and II, to be completed by the candidates (diploma holders) admitted to III semester under lateral entry scheme shall not be considered for the eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree.
	c. The Courses Viz., (i) Computer Aided Engineering Drawing (ii) Programming in C and Data structure and (iii) Environmental Studies (if not studied at B.Sc. level), to be completed by the candidates who have passed B.Sc. degree and admitted to III semester of the programme, shall not be considered for the award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree.
17OB 12.0	Temporary Discontinuation/Break in the Program
17OB 12.1	<ul> <li>a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the programme during any semester intentionally, he/she may be permitted to continue the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining Course work subject to the provision 17 OB 1.5. Also the Candidatesmay have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit the student forthe award of degree. Such candidates shall not be eligible for the award of rank.</li> <li>b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and COPA to admit the student for the award of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.</li> </ul>

17OB 13.0	Award of Prizes, Medals and Ranks
17OB 13.1	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.
17OB 13.2	<ul> <li>awards.</li> <li>1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester is considered.</li> <li>2) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided the student, <ul> <li>a)</li> <li>(i) Has passed I to VIII semester in all the Courses in first attempt only in case of candidates admitted I year.</li> <li>(ii) Has passed III to VIII semester in all the Courses in first attempt only in case of candidates admitted under lateral entry scheme.</li> <li>(iii) Has completed all the prescribed Audit/mandatory Courses.</li> <li>b) Is not a repeater in any semester because of rejection of result of a semester/shortage of attendance etc.</li> <li>c) Has completed all the semesters without any break/discontinuity.</li> <li>d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.</li> <li>e) Has not been transferred from autonomous institution affiliated to VTU or from any other University.</li> </ul> </li> <li>3) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 students should have appeared in the VIII semester examination.</li> <li>Illustration: <ul> <li>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 rogramme, the number of ranks to be awarded for Biomedical Engineering will be 09.</li> </ul> </li> <li>5) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.</li> <li>Ranks are awarded based on the merit of the students as determined CGPA. If two or</li> </ul>
	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.

17OB 14.0	Transfers of Students
17OB 14.1	Transfer of students from one college to another college within Karnataka state 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 and subject to the prior approval of the University.
	<ul> <li>(a) Transfer of students from one non - autonomous to another non – autonomous college affiliated to VTU is permitted with the approval of the Registrar, VTU subject to the provision 17OB11.2.</li> <li>The students seeking transfer shall have to,</li> </ul>
	<ul> <li>(i) Obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU.</li> <li>(ii) Complete the programme subject to the provision 17OB1.5.</li> <li>(b) Transfer of students from an autonomous to non – autonomous college affiliated to</li> </ul>
	VTU is permitted with the approval of the Registrar, VTU provided the candidates have passed in all the Courses of the previous semesters. The students seeking transfer shall have to,
	<ul> <li>(i) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU.</li> <li>(ii) Complete additional Course/s, if any, as per the decision of concerned Board</li> </ul>
	of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion, Class, calculation of SGPA and CGPA. However, a pass in the Additional Courses, if any, is mandatory before the completion of Degree. iii) Complete the programme subject to the provision 17OB1.5.
	(c) In the case of students 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 and all the Courses of I to VI semesters for admission to VII semester.
	<ul><li>The students seeking admission from other Universities to VTU shall have to,</li><li>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 commencement of term as notified by VTU.</li><li>ii) Produce No Objection certificate for admission from both the colleges before</li></ul>
	<ul> <li>commencement of term as notified by VTU.</li> <li>iii)Complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion, Class, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</li> <li>(ii) Complete the programme subject to the provision 17OB1.5.</li> </ul>
17 OB 14.2	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
17OB 14.3	provisions made by the Government of Karnataka and AICTE in this behalf. The University may prescribe fee for administrative 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).

17 OB 15.0	Applicability and Power to Modify
17 OB15.1	The regulations governing the Degree of Bachelor of Engineering/Technology of
	Visvesvaraya Technological University shall be a binding on all concerned.
17 OB15.2	<ul><li>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li><li>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.</li></ul>



# Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech) Under Choice Based Credit System (CBCS) (w.e.f. the academic year 2017 – 18)

Annexure -1

			ARAYA TECHNO Scheme of Teachin				[				
				Credit System	(CBCS)						
				/B. I ecn. (r n 1 51	Te	aching rs /Week		Examir	ation		
SI. No	Course Code	Course Title	Teaching Department	Board	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04		03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04		03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04		03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04		03	60	40	100	4
5	17ELE15	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04		03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01Hour 1 02Hour 1	Instruction Practical	03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language – English (Audit Course)	Humanities		01						
				TOTAL		21 hours l: 06 hours	21	420	280	700	24
		II	SEMESTER B.E./P	B.Tech. (CHEMIS	TRY GRO	OUP)					
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04		03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04		03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04		03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour 1 04-Hour	Instruction Practice	03	60	40	100	4
5	17ELN25	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04		03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour 02Hour I		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutori			30	20	50	
				TOTAL		21 hours l: 08 hours	21	450	300	750	24

# Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech.) Under Choice Based Credit System (CBCS) (w.e.f. academic year 2017 – 18) Annexure -1

				exure -1								
	VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018											
	Choice Based Credit System (CBCS)											
		I SE	EMESTER B.E./B.			J <b>P</b> )						
			t			aching rs /Week		Examination				
SI. No	Course Code	Course Title	Teaching Department	Board	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits	
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04		03	60	40	100	4	
2	17PHY12	Engineering Chemistry	Chemistry	Basic Science	04		03	60	40	100	4	
3	17PCD13	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04		03	60	40	100	4	
4	17CED14	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour 04Hour	Instruction Practice	03	60	40	100	4	
5	17ELN15	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	04		60	40	100	4	
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering		01Hour Tutorial 02Hour Practical		60	40	100	2	
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science		01Hour Tutorial 02Hour Practical		60	40	100	2	
8	17CIV18	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Hour7	Futorial		30	20	50		
				TOTAL		21 hours d: 08 hours	21	450	300	750	24	
		π	SEMESTER B.E./I	P Took (DUVSIC)	CDOID	)						
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	) 	03	60	40	100	4	
2	17PHY22	Engineering Physics	Physics	Basic Science	04		03	60	40	100	4	
3	17CIV23	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04		03	60	40	100	4	
4	17EME24	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04		03	60	40	100	4	
5	17ELE25	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04		03	60	40	100	4	
6	17WSL26	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02-Hour	01-Hour Instruction 02-Hour Practical		60	40	100	2	
7	17PHYL27	Engineering Physics Laboratory	Physics	Basic Science		Instruction Practical	03	60	40	100	2	
8	17ENG28	Language – English (Audit Course)	Humanities		01							
				TOTAL		21 hours d: 06 hours	21	420	280	700	24	

Under Choice Based Credit System (CBCS)

(w.e.f. academic year 2017 - 18)

Annexure -1 TRAINO

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	VISV	ESVARAY	A TECHNOLO Scheme of Teaching Choice Based	and Exa	mination	2017-2018	BELA	AGAV	VI		
						BC3)					
III SE	MESTER										
					Teach	ing Hours /Week		Exami	nation		
SI. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17MAT31	Core Course	Engineering Mathematics-III		04		03	60	40	100	4
2	17XX32	Core Course			04		03	60	40	100	4
3	17XX33	Core Course			04		03	60	40	100	4
4	17XX34	Core Course			04		03	60	40	100	4
5	17XX35	Core Course			04		03	60	40	100	4
6	17XX36	Foundation Course			03		03	60	40	100	3
7	17XXL37	Laboratory			01- Hour 02- Hour	Instruction Practical	03	60	40	100	2
8	17XXL38	Laboratory			01- Hour 02- Hour	Instruction Practical	03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
	1	•	T	OTAL	Theory: Practica	24hours 1: 06 hours	25	510	340	850	28

1. Core Course: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Foundation Course: The courses based upon the content that leads to Knowledge enhancement.

3. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

4. Audit Course:

(i) All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics - I which is 04 contact hours per week.

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

Under Choice Based Credit System (CBCS)

(w.e.f. academic year 2017 - 18)

Annexure -1 (page -4)

	VISV	ESVARAY	A TECHNOLO Scheme of Teaching : Choice Based	GIC.	AL UN mination	2017-2018	BELA	AGAV	VI		
			B.E./B.Tech								
IV SE	MESTER										
				L 1	Teach	ing Hours /Week		Exami	nation	1	
SI. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17MAT41	Core Course	Engineering Mathematics-IV		04		03	60	40	100	4
2	17XX42	Core Course			04		03	60	40	100	4
3	17XX43	Core Course		1	04		03	60	40	100	4
4	17XX44	Core Course			04		03	60	40	100	4
5	17XX45	Core Course			04		03	60	40	100	4
6	17XX46	Foundation Course			03		03	60	40	100	3
7	17XXL47	Laboratory				Instruction Practical	03	60	40	100	2
8	17XXL48	Laboratory				Instruction Practical	03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
			T	OTAL	Theory: Practica	24hours ll: 06 hours	25	510	340	850	28

1. Core Course: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Foundation Course: The courses based upon the content that leads to Knowledge enhancement.

**3. Kannada/Constitution of India, Professional Ethics and Human Rights:** 50 % of the programs of the Institution have teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

4.Audit Course:

(i) All lateral entry students (except B. Sc candidates) have to register for Additional Mathematics – II which is 04 contact hours per week.
(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

Under Choice Based Credit System (CBCS) (w.e.f. academic year 2017 – 18)

Annexure -1 (page -5)

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS) **B.E./B.Tech V SEMESTER Teaching Hours /Week** Examination Teaching Department Duration in Credits **SEE Marks CIE Marks** Practical/ Drawing SI. Course Theory hours Total Marks **Course Title** Course No Code Management and Entrepreneurship Excluding CSE, ISE and **EV Programs.** (The course must be related 17XX51 Core Course 04 03 60 40 100 1 4 to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement). 17XX52 Core Course 04 03 60 40 100 4 2 --Core Course 40 100 17XX53 04 03 60 4 3 --4 17XX54 Core Course 04 03 60 40 100 4 --Professional 5 17XX55X 03 --03 60 40 100 3 Elective Open Elective 17XX56Y 03 40 100 6 03 60 3 \_\_ 01- Hour Instruction 7 2 17XXL57 03 60 40 100 Laboratory 02- Hour Practical 01- Hour Instruction 8 17XXL58 40 100 2 Laboratory 03 60 02- Hour Practical Theory:22hours 800 24 480 320 26 TOTAL Practical: 06 hours Electives **Open Elective Professional Elective** Offered by the Department of **Courses under Courses under Course Title Course Title** Code 17XX55X Code 17XX56Y 17XX551 17XX561 17XX552 17XX562 17XX553 17XX563 17XX554 17XX564

\*\*\*\* Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

• The candidate has pre – requisite knowledge.

• The candidate has not studied during I and II year of the programme.

• The syllabus content of open elective is similar to that of Departmental core courses or professional electives.

• A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

3. Open Elective: Electives from other technical and/ or emerging subject areas.

Under Choice Based Credit System (CBCS)

(w.e.f. academic year 2017 – 18)

# Annexure -1 (page -6)

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS) B.E./B.Tech VI SEMESTER **Teaching Hours /Week** Examination Teaching Department Duration in **SEE Marks** Credits Practical/ Drawing **CIE Marks** SI. Course Theory hours Total Marks **Course Title** Course No Code Management and Entrepreneurship **Excluding CSE, ISE and EV Programs.** (The course must be related to Core Course 17XX61 40 100 1 04 03 60 4 Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement). Core Course 100 17XX62 04 03 40 4 2 60 \_\_\_ 100 17XX63 Core Course 40 3 04 03 60 4 --17XX64 Core Course 04 60 40 100 4 \_\_\_ 03 4 Professional 5 17XX65X 03 03 60 40 100 3 \_\_\_ Elective 17XX66Y 03 6 **Open Elective** 03 60 40 100 3 --01- Hour Instruction 7 17XXL67 Laboratory 03 60 40 100 2 02- Hour Practical 01- Hour Instruction 8 17XXL68 03 60 40 100 2 Laboratory 02- Hour Practical **Theory:22hours** 480 320 800 24 26 TOTAL **Practical: 06 hours** Electives **Open Elective Professional Elective** Offered by the Department of **Courses under Courses under Course Title Course Title** Code 17XX66Y Code 17XX65X 17XX661 17XX651 17XX652 17XX662 17XX653 17XX663 17XX654 17XX664

\*\*\* Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

- The candidate has pre requisite knowledge.
- The candidate has not studied during I and II year of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

**1.** Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

3. Open Elective: Electives from other technical and/ or emerging subject areas.

Under Choice Based Credit System (CBCS)

(w.e.f. academic year 2017 – 18)

Annexure -1 (page -7)

	V	ISVESVAI	RAYA TECHNO Scheme of Teach Choice Bas	ing and Exa	amination	2017-2018	BELA	AGA	VI		
			B.E./B.Tech								
VII S	EMESTER										
				t	Teach	ing Hours /Week		Exami	ination	1	
SI. No	Course Code	Course	Course Title	<b>Teaching</b> <b>Department</b>					CIE Marks	Total Marks	Credits
1	17XX71	Core Course			04		03	60	40	100	4
2	17XX72	Core Course			04		03	60	40	100	4
3	17XX73	Core Course			04		03	60	40	100	4
4	17XX74 X	Professional Elective							40	100	3
5	17XX75Y	Professional Elective			03		03	60	40	100	3
6	17XXL76	Laboratory			02- Hour	Instruction Practical	03	60	40	100	2
7	17XXL77	Laboratory				Instruction Practical	03	60	40	100	2
8	17XXP78	Core Course	Project Phase – I and Project seminar			03			100	100	2
				TOTAL		:18 hours al and Project: 09	21	420	380	800	24
				Electives	5						
		Professional E	lective			Profession	nal Electiv	ve			
	ses under 17XX74X		Course Title	Courses Code 17	s under 7XX75Y		Cours	se Title			
17	/XX741			17XX7	51						
17	XX742			17XX7	52						
17	/XX743			17XX7	53						
17	/XX744			17XX7	54						
1. Co	re subiect: Thi	is is the course, wh	ich is to be compulsorily stud	lied by a stud	dent as a c	ore requirement to co	mplete the	e require	ment of a	program	me

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

3. Project Phase – I and Project seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and seminar presentation skill.

Under Choice Based Credit System (CBCS)

(w.e.f. academic year 2017 - 18)

Annexure -1 (page -8)

			B.E./B.Tech								
VIIIS	SEMESTER										
				t	Teachin	g Hours /Week		Exami	nation		-
SI. No	Course Code	Course	Course Title	Teaching Department Theory Practical/ Drawing Duration in		Duration in hours	SEE Marks	CIE Marks	Total Marks	Cradite	
1	17XX81	Core Course			04		03	60	40	100	4
2	17XX82	Core Course			04		03	60	40	100	4
3	17XX83X	Professional Elective			03		03	60	40	100	3
4	17XX84	Core Course	Internship/ Professional Practice		Working h of Interns	ours of the place	03	50	50	100	2
5	17XXP85	Core Course	Project work Phase -II			06	03	100	100	200	6
6	17XXS86	Core Course	Technical Seminar			04			100	100	1
				TOTAL	Theory:11 Project ar hours	1 hours nd Seminar: 10	15	390	310	700	20
			Prof	essional E	ectives						
	ses under 17XX83X				Course Title	e					
17	XX831										
17	XX832										
17	XX833										
17	XX834										

2. Professional Elective: Electives relevant to chosen specialization/ branch.
 3. Internship/ Professional Practice: To be completed between the V and VI semester vacation and/or VI and VII semester vacation period.



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590 018, Karnataka Phone: 0831 -2498100/2405468 Fax;2405467 E – Mail:registrar@vtu.ac.in, Web: www.vtu.ac.in



# REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (BE/B.Tech) UNDER OUTCOME BASED EDUCATION (OBE)

AND

CHOICE BASED CREDIT SYSTEM (CBCS)

Effective from the academic year 2018 - 19

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# **Definitions of Keywords**

The following are the definitions/descriptions that have been followed for the different terms used in the Regulations of BE/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 BE/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:**Referstousually 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:** Refersto a unit by which the Course work is measured. It determines the number ofhours of instructions required per week. One credit is equivalent to one hour of lecture or twohours of laboratory/practical Courses/ tutorials/ fieldwork per weeketc.
- 7) Audit Courses: Meansthe 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, Counselor etc.,) in each semester for the Institution to maintain proper record.
- **10) Course Evaluation:** MeansContinuous 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 examinationsconducted 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 beconsidered as first attempt.
- 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 Examination.

16)

L	<b>^</b>	Table 1:	Credit Values		
e t	Theory/Lectures (L) (hours/week/Semester)	Tutorials (T) (hours/week/Semester)	Credits (L:T:P)	Total Credits	
t	4	0	0	4:0:0	4
e	3	0	0	3:0:0	3
r	2	2	0	2:1:0	3
~	2	0	2	2:0:1	3
G	2	2	2	2:1:1	4
r	0	0	6	0:0:3	3
a					

**d d 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: 180B6.0]. The rubric 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.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale							
Letter Grade	S	А	В	С	D	Е	F
Grade Point	10	09	08	07	06	04	00

- **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 grade point (GP) and number of credits for a Course i.e., Credt 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:18 OB6.2]
- **22) Cumulative Grade Point Average (CGPA):**Is a measure of overall cumulative performance of a student over all semesters. [Refer:18 OB6.2]
- 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.



18OB1.0	Title, Duration and Credits of the Programme of Study
18OB1.1	The Programme of study shall be called the degree of Bachelor of Engineering /Bachelor of Technology, abbreviated as BE / B.Tech. ■
18OB1.2	<ul> <li>(a) The Programme to which students are admitted to First semester of BE / B.TechProgramme shall be of four academic years duration divided into eight semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester.</li> <li>(b) The Programme to which students are admitted to III semester of BE / B.TechProgramme under lateral entry shall be of three academic years duration divided into six semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester.</li> <li>(c) The Programme (conducted during evening) to which students are admitted to III semester of BE / B.TechProgramme under lateral entry shall be of three academic years duration divided into six semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester.</li> <li>(c) The Programme (conducted during evening) to which students are admitted to III semester of BE / B.TechProgramme under lateral entry shall be of three academic years 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). ■</li> </ul>
18OB1.3	The calendar of events in respect of the programme of study shall be notified by the University in advance. ■
180B1.4	<ul> <li>Maximum Duration for Programme Completion: <ul> <li>(a)(i) Students admitted to First year BE/ 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.</li> <li>(ii) Students admitted II Year BE/B.Tech under lateral entry scheme shall complete the Programmewithin a period of six academic years from the date of first admission, failing which he/she has to discontinue the Programme.</li> <li>(b)(i) A student who has not obtained the eligibility to III semester even after three academic years from the date of admission to I semester shall discontinue the Programme or get readmitted to I semester of first year BE/B.Tech with a new University Seat Number but retaining the same year of admission.</li> <li>(ii) If a student does not get eligibility to III semester even after two academic years from the date of readmission to I semester of first year BE/B.Tech with a new University Seat Number but retaining the same year of admission.</li> <li>(ii) If a student does not get eligibility to III semester [as per 180B1.4 (b) (i)], he/she shall discontinue the Programme or seek fresh admission to I semester of first year BE/B.Tech as the leeway (scope) of satisfying 180B1.4 (a) (i) is not possible.</li> <li>(c)(i)A student (under lateral entry scheme) who has not obtained the eligibility for V semester even after two academic years from the date of admission to III semester of II year BE/B.Tech with a new University Seat Number but retaining the same year of admission.</li> </ul> </li> <li>(ii) If a student (under lateral entry scheme) does not get eligibility to V semester even after two academic year from the date of readmission to III semester fas per 180B1.4 (c) (i)] shall discontinue the Programme or seek fresh admission to III semester [as per 180B1.4 (c) (ii)] shall discontinue the Programme or seek fresh admission to III semester [as per 180B1.4 (c) (ii)] shall discontinue the Programme or seek fresh a</li></ul>
18OB1.5	<ul> <li>Prescribed Number of Credits for the Programme [to be read along with 18OB8.14 and 18OB11.2]</li> <li>(a) The number of credits to be completed by students admitted to I semester of BE/B.Tech Programme shall be 175.</li> <li>(b) The number of credits to be completed by students admitted to III semester of BE/B.Tech Programme under lateral entry scheme shall be 135. ■</li> </ul>
	DL D. reen riogramme under lateral entry selleme shall be 155. ■

18OB1.6	Definition of Credits:
100210	1 hour Lecture (L) per week per semester $=1$ Credit
	2 hour Tutorial (T) per week per semester $=1$ Credit
	2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit. ■
18OB2.0	EligibilityforAdmissionto BE/B.Tech Programmes(As per the Government orders issued from time to time)
18OB2.1	<ul> <li>(a)Day Engineering College (Eligibility: Candidates who have Passed in Second PUC/Twelfth standard)</li> <li>(i) Passed in Second PUC/12<sup>th</sup> 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.</li> <li>40 % for SC, ST, Category – 1, 2A, 2B, 3A and 3B category candidates.</li> <li>(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 BE/B.Tech Degree Programme from Visvesvaraya Technological University, Belagavi.</li> </ul>
	<ul> <li>(b) Day Engineering College (Eligibility: Candidates who have Passed 3 year Diploma)</li> <li>(i) A candidate who has passed any 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 BE/B.TechProgrammes, and 40 % of marks in qualified examination in case of SC, ST and Backward Classes of Karnataka candidates.</li> <li>(ii)Those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</li> </ul>
	<ul> <li>(c) Evening Engineering College (Eligibility: Candidates who have Passed 3 year Diploma):</li> <li>(i) A candidate who has passed any 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 BE/B.TechProgrammes, 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 1<sup>st</sup> September of the year of admission, in a registered firm/Company/Industry/Educational and/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.</li> </ul>
	<ul> <li>Professional experience refers to the experience earned as an employee on regular basis in</li> <li>Government, Government Undertaking, Public Sector Undertaking, Corporation or</li> <li>Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or</li> <li>Government, Government recognized Institutions as technical staff.</li> </ul>

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18OB2.1 (continued) 18 OB 2.2	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 genuinenessof 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. ■
10 OB 2.2	from the University/ Association of Indian Universities is mandatory for admission to BE/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.
18 OB 3.0	Courses
18 OB 3.1	<ul> <li>There shall be the following types of Courses:</li> <li>a) Humanities, Social Sciences and Management (HSMC): These are mandatoryfor all disciplines.</li> <li>b) Basic Sciences (BSC): Physics, Chemistry and Mathematics. These are mandatory for all disciplines.</li> <li>c) Engineering Sciences (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines.</li> <li>d) Professional 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.</li> <li>e) Professional ElectiveCourses (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.</li> <li>f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/ or from emerging fields.</li> <li>g) Project Work (PROJ): Mini project and Main Project. Carried out at the Institution or elsewhere without interfering with the regular classwork.</li> <li>h) Seminar: Deliverable at the Institution under the supervision of a Faculty.</li> <li>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 Examination.</li> <li>j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade or credit, for students admitted to BE/B. Tech programme. A pass in each mandatory Course is required to qualify for award the award of degree.</li> </ul>

18 OB 3.2	The minimum number of students registered to any Elective Courseoffered by the Departments shall be not less than ten.
	However, the above condition shall not be applicable to programmes having a class strength less than 10. $\blacksquare$
18 OB 3.3	A student shall exercise his option in respect of Elective Course/s and register 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
19 OB 2 4	from the date of commencement of the semester as per the calendar of the University. ■ Course Registration:
18 OB 3.4	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 for the Institution to maintain proper record. ■
18OB4.0	Internship/Professional Practice
18 OB 4.1	<ul> <li>Internship / Professional Practice</li> <li>The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.</li> <li>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 Examination.</li> <li>2) The Department/college shall nominate staff member/s to facilitate, Guide and supervise students under internship.</li> <li>3) The students shall report the progress of the internship to the Guide in regularintervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship.</li> <li>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.</li> <li>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.</li> <li>6) The internal Guide shall be the internal examiner for the SEE. [To be read along with 18 OB 8.2 (d)]</li> <li>7) The external Guide for Internship shall be an examiner for SEE. Examination in 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 18 OB 8.9 (f)]</li> <li>8) In case the external Guide expresses his inability to conduct Examination, the Chief</li> </ul>
	Superintendent of the institution shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide. The same shall be informed in writing to the concerned Chairperson, Board of Examiners (BOE).
	9) 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. ■
18 OB 5.0	Technical Seminar and Project
18 OB 5.1	<ul><li>Technical Seminar: Technical Seminaris one of the head of passing.</li><li>(i) Each candidate shall deliver Technical seminar as per the Scheme of Teaching and Examination on the topic chosen from the relevant fields.</li></ul>

18OB5.1	(ii) The Head of the Department shall make an arrangement for conducting seminars through											
(continued)												
18OB5.2	<ul> <li>Project: Project (Mini and Main) is one of the head of passing.</li> <li>Mini Project Work and Main ProjectWork shall preferably be batch wise, the strength of each batch shall not exceed a maximum of four students.</li> </ul>											
180B5.3		amination in Mi					l be condu	ucted batch	-wise.			
18OB 6.0		mputation of S	-		5							
80B 6.1	<ul> <li>(i) The University adopts absolute grading system wherein the marks are converted to grades, an every semester results shall be declared with Semester Grade Point Average (SGPA) an Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester except for the first semester.</li> <li>(ii) The grading system with the letter grades and the assigned range of marks under absolut grading system are as given below:</li> </ul>											
		Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail			
		Letter Grade	S	А	В	С	D	Е	F			
		Grade Points	10	9	8	7	6	4	00			
		Percentage of Marks Scoredin	≥ 90	<90 ≥80	< 80 ≥70	< 70 ≥60	< 60 $\ge 45$	< 45 ≥40	< 40			
	a Course (90 -100) (80 - 89) (70 - 79) (60 - 69) (45 - 59) (40 - 44)								(0 - 39)			
18 OB 6.2	<ul> <li>(iii) A student obtaining Grade F in a Course shall be considered failand is required t reappear in the subsequent SEE. Whatever the letter grade secured by the student during hi /her reappearance shall be awarded. The number of attempts taken to clear Course/s shall b indicated in the grade card. ■</li> <li>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:</li> </ul>											
	$SGPA = \frac{\sum[Course \ Credits \times Grade \ Points] \text{ for all the Courses in that Semester}}{\sum[Course \ Credits] \text{ for all the Courses in that Semester}}$											
		$\sum [Course$	e Credits >		-			ding				
	CG	GPA =	$CGPA = \underbrace{ those with F grades until that Semester}_{\sum [Course Credits] for all Courses excluding}_{those with F grades until that semester}$									

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	(a) SGPA a	nd CGPA Calcu	ulations: A	n Illustr	ative Exa	mple for	r one acad	emic yea	r
Semester (Odd:I,E ven.II)	Course Number	Credits	Grade	Grade Points	Credit	Points	SG	SPA, CGP	A
I I I I I	XX101 XX102 XX103 XX104 XX104 XX105 XX106 Total	5:0:0 = 5 3:2:0 = 5 3:0:0 = 3 0:1:1 = 2 4:1:0 = 5 5:0:0 = 5 25 (18*)	B Absent(F) A F D E Tota	9 0 6 4	$5 \times 8$ $5 \times 0 =$ $3 \times 9 =$ $2 \times 0 =$ $5 \times 6 =$ $5 \times 4 =$ 117	= 27 = 00 = 30 = 20	SGPA =	$\frac{117}{25} = 4$	4.68
	Total credits	of the semester GPA of the two	excluding th	ne credit	s of the co	urses un		e. Conside	ered fo
II II II II II	XX107 XX108 XX109 XX110 XX111 XX111 XX112	3:1:1 = 5 $4:0:0 = 4$ $3:0:0 = 3$ $4:1:0 = 5$ $2:1:1 = 4$ $2:0:0 = 2$	C B D E A F	7 8 6 4 9 0	$5 \times 7$ $4 \times 8$ $3 \times 6$ $5 \times 4$ $4 \times 9$ $2 \times 0$	= 32 = 18 = 20 = 36	SGPA = CGPA	20	6.28
II	XX113 Total	2.0.0 = 2 0:2:0 = 2 25 (23*) of the semester of	В	8 Fotal	2 × 8 157	= 16	$=\frac{(117 - 18)}{18}$ = 274/4	1 = 6.6	
		es letter grades			arear reap	p eta ante e			
Ι	XX102	ulated as indicat 3:2:0 = 5	D	6	5×6		$SGPA (I) = (117 \cdot 10^{-1})$		-
			1	6 7 6	$5 \times 6$ $2 \times 7$ $2 \times$ $= 1$	= 14 6	SGPA (I) = (117 + 117) SGPA (I) = (157 + 115) = 169/2	+ 30 + 1 / I Semest + 12)/2	4) 25 ter) 5
I I II <i>CGPA</i>	XX102 XX104 XX112 A at the end ecutive ser	3:2:0 = 5 0:1:1 = 2 2:0:0 = 2 of the acade nesters unde	D C D emic year	7 6 after p	$2 \times 7$ $2 \times$ $= 11$ $assing$ $(6.44)$	= 14 6 2 <i>all th</i> e	= (117 + 117) $SGPA (I)$ $= (157 + 169)/2$	+ 30 + 1 // <i>I Semess</i> + 12)/23 25 = 6.7 of the t	4) 225 ter) 5 76
I I II <i>CGPA</i>	XX102 XX104 XX112 A at the end ecutive ser	3:2:0 = 5 $0:1:1 = 2$ $2:0:0 = 2$ $0 f the acade of the a$	D C D emic year r conside	7 6 after p ration	$2 \times 7$ $2 \times$ $= 1$ $passing$ $= (6.44)$	= 14 6 2 all the × 25 - 5	= (117 - <i>SGPA</i> ( <i>I</i> . = (157 - = 169/2 <i>Courses</i> - 6.76 × 2 0	+ 30 + 1 // I Semess + 12)/2! 25 = 6.7 of the t 25)	(4) (25 (ter) (5) (6)
I I II <i>CGPA</i>	XX102 XX104 XX112 A at the end ecutive ser = (b)	3:2:0 = 5 0:1:1 = 2 2:0:0 = 2 of the acade nesters unde	D C D emic year r conside	7 6 after p ration	$2 \times 7$ $2 \times$ $= 1$ $passing$ $= (6.44)$	= 14 6 2 all the × 25 - 5	= (117 - <i>SGPA</i> ( <i>I</i> . = (157 - = 169/2 <i>Courses</i> - 6.76 × 2 0	+ 30 + 1 // I Semess + 12)/2! 25 = 6.7 of the t 25)	4) 225 ter) 5 76
I I II <i>CGPA</i> <i>cons</i> Seme Credi SGP	XX102 XX104 XX112 A at the end ecutive ser = (b) ester ts of the seme A	$3:2:0 = 5$ $0:1:1 = 2$ $2:0:0 = 2$ $l of the acade$ $nesters unde$ $6.60 \blacksquare$ $CGPA Calcula$ $I$ $ster 20$ $7.00$	D C D emic year r consider ation of the II 20 8.50	7 6 after p ration Program 24 9.20	$2 \times 7$ $2 \times = 11$ $assing$ $(6.44)$ $=$	$= 14$ $6$ $2$ $all the$ $\times 25 - 5$ $10$ $10$ $V$ $25$ $8.18$	= (117 + 117) + (117	+ 30 + 1 // I Semess + 12)/2 25 = 6.7 of the t 25) Dele VII 20 8.68	(4) (25 ter) 5 (6 wo <b>VII</b> 18 9.4(
I I II <i>CGPA</i> <i>cons</i> Seme Credi SGP	XX102 $XX104$ $XX112$ $A at the endecutive ser=(b)esterts of the semeAA A C = C + C + C + C + C + C + C + C + C + $	$3:2:0 = 5$ $0:1:1 = 2$ $2:0:0 = 2$ $l of the acade$ $nesters unde$ $6.60 \blacksquare$ $CGPA Calculation I ster 20$	D C D emic year r consider ation of the II 20 8.50	7 6 after p ration Program 24 9.20	$2 \times 7$ $2 \times = 11$ $assing$ $(6.44)$ $=$	$= 14$ $6$ $2$ $all the$ $\times 25 - 5$ $10$ $10$ $V$ $25$ $8.18$	= (117 + 117) + (117	+ 30 + 1 // I Semess + 12)/2 25 = 6.7 of the t 25) Dele VII 20 8.68	(4) (25 ter) 5 (6 wo <b>VII</b> 18 9.4(

18OB 7.0	Conversions of CGPA into Percentage of marks and Class Equivalence						
18OB 7.1	Conversion Formula for the conversion of CGPA into percentage is given below.						
	Percentage of marks secured, $P = [CGPA Earned - 0.75] \times 10$						
	Illustration for aCGPA of 8.20:						
	P = [CGPA Earned 8.20 - 0.75]× 10 = 74.5 % ■						
18OB 7.2	Class Equivalence:						
	Subsequent to the conversion of final CGPA, after successful completion of the Programme, inter-						
	percentage of marks (P), a graduating student is reckoned to have passed in						
	(i) First Class with Distinction (FCD) if $P \ge 70\%$						
	(ii) First Class (FC) if $P \ge 60\%$ but <70% and						
	(iii) Second Class (SC) if $P < 60\%$ .						
18OB8.0	Continuous Internal Evaluation, Semester End Evaluation and minimum standards						
18OB8.1	Continuous Internal Evaluation Marks:						
	(a) Except for Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannad						
	for Administration), Technical seminar and Project work phase -1, the CIE marks for all cred						
	Courses, shall be 40.						
	(b) Minimum CIE marks for all theory Courses shall be 40 % of the marks prescribed for						
	Continuous Internal Evaluation i.e., 16 marks.						
	(c) Minimum CIE marks for Practical/ Mini-project / Internship/Technical Seminar/Project work						
	– Phase 2 shall be 50 % of the maximum marks i.e., 20 marks.						
	(d) The CIE marks for Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannad						
	(Kannada for Administration), Technical seminar and Project work phase -1shall be 100.						
	(e) Minimum CIE marks for Vyavaharika Kannada (Kannada for communication)/Aadalitha						
	Kannada (Kannada for Administration)shall be 40 % of the marks prescribed for Continuou						
	Internal Evaluation i.e., 40 marks.						
	(f) Minimum CIE marks for Project work – Phase 1 and Technical seminar shall be 50 % of th						
	maximum marks i.e., 50 marks.						
	(g) Minimum CIE marks for Additional Mathematics I and II, and the courses (Engineerin						
	Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering)t						
	be completed by BS.c graduates under lateral entry shall be 40 % of the marks prescribed for						
	Continuous Internal Evaluation i.e., 16 marks.■						
18 OB 8.2	<b>Continuous Internal Evaluation Procedure:</b> [To be read along with 18 OB 8.1and 8.3]						
10 02 012	(a) Theory Courses:						
	(i) CIE Marks in each theory Course [including "Technical English I and II", "Constitution of						
	India, Professional Ethics and Human Rights", "Environmental Studies", "Additional						
	Mathematics I and II", and the courses (Engineering Graphics and Elements of Civil Engineerin						
	and Mechanics of the First Year Engineering) to be completed by B.Sc graduates under latera						
	entry] shall be the sum of marks prescribed for tests and assignments. Marks prescribed for test						
	shall be 30 and that for assignments 10.						
	(ii) The CIE marks awarded for tests in the theory Course/sshall be based on three tests generall						
	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 test						
	proportionately reduced to a maximum of 30 marks.						
	(iii) The remaining 10 marks shall be awarded based on the evaluation of assignments/un						
	tests/written quizzes that support to cover both lower and higher order thinking skills as pe						
	Bloom's Revised Taxonomy and Course/programme outcomes.						
	(iv) Final marks awarded shall be the sum of 18OB 8.2 (a) (ii) and (iii) for a maximum of 4						
	marks.						
	11141 K3.						

18 00 8 2	(x) The condidates shall write the tests assignments/unit tests /written guizzes in Plue Pooles
18 OB 8.2	(v)The candidates shall write the tests, assignments/unit-tests /written quizzes in Blue Books
(continued)	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) Drawing/Field work Courses:
	(i) The CIE marks awarded for I year Engineering Graphics Course shall be based on
	(a) Class work for 24 marks (sketching and Computer Aided Engineering Drawing).
	(b)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).
	(ii) 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.
	(iii) 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 theratio 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
	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 (Kannada for communication)/Aadalitha Kannada (Kannada for
	Administration)
	(i) CIE Marks in Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada
	(Kannada for Administration) shall be the sum of marks prescribed for tests and assignments.
	Marks prescribed for tests shall be 75 and that for assignments 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/unit
	tests/written quizzes that support to cover both lower and higher order thinking skills as per
	Bloom's Revised Taxonomy and Course/programme outcomes.
	(iv) Final marks awarded shall be the sum of 18OB 8.2 (h) (ii) and (iii) for a maximum of 100
	marks.
	$(\mathbf{v})$ The candidates shall write the tests, assignments/unit-tests /written quizzes in Blue Books

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18 OB 8.2	after the announcement of University results and shall be made available for verification
(continued)	at the direction of the Registrar (Evaluation). ■
18 OB 8.3	<ul> <li>(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.</li> <li>(b) A committee constituted by the Head of the Department of Humanities and Social Science shall award the CIE marks for the Course Vyavaharika Kannada (Kannada forcommunication)/ Aadalitha Kannada (Kannada for Administration). The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson. ■</li> </ul>
18 OB 8.4	<ul> <li>(i) Students failing to secure the minimum percentage of CIE marks of any Course/sshall 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.</li> <li>(ii) Improvement in CIE marks shall not be allowed during the current semester.</li> <li>(iii)Students who have satisfied the attendance requirement but not the CIE requirements are 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.</li> <li>(iv) The Course/s when repeated are considered as attempts.</li> </ul>
18OB8.5	CIE marks of those students, who come under 18OB8.4, shall be sent separately to the Registrar (Evaluation). ■
18 OB 8.6	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. 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 shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal. ■
18 OB 8.7	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.
18 OB 8.8	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. ■
18 OB 8.9	<ul> <li>Semester End Examination and Passing standards</li> <li>(a) For all credit Coursesincluding "Additional Mathematics I and II", and the courses (Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering) to be completed by BS.c graduates under lateral entry)the SEE marks shall be 60.</li> <li>(b) University examination for all Courses under SEE are conducted for a maximum of 100 Marks.</li> <li>(c) The University examination in all programmes of study shall be conducted at the end of each semester for all the eight semesters. The examinations shall not be considered as overlapping if at all a student appears for examinations conducted in the morning and afternoon session. Further, the examinations shall not also be considered as overlapping if the same student appears for the next days examinations.</li> <li>(d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Human Rights, and Environmental Studies shall be objective</li> </ul>

18 OB 8.9 (continued)	<ul> <li>(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 maximum marks prescribed for the Course including the CIE marks secured by the students (i.e., SEE + CIE).</li> <li>(f) For a pass in Practical/ Mini-project / Internship/Technical Seminar/Project work, students shall secure a minimum of 40 % of the maximum marks prescribed in the University examination.</li> <li>(g) Students who satisfy the conditions 18OB 8.9 (e) and (f), and obtain any grade from S to E shall be considered as passed.</li> <li>(h) A student shall be declared fail if the candidate</li> <li>(h.a) Fails to satisfy the conditions 18OB 8.9 (g).</li> <li>(h.b) Absents himself / herself to the University examination.</li> <li>(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.</li> <li>(i) If a student secures F grade in any of the Course/s, he/she shall reappear in that Course/s during the subsequent SEE. The CIE marks awarded to the student at first attempt in the</li> </ul>
18 OB 8.10	Students who pass a Course of a semester as per 18OB 8.9 (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 an academic year shall be allowed to appear for Course/s to make up the deficiency in CGPA. ■
18 OB 8.11	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 examination of a semester. The rejection is permitted only once during the entire Programme of study. ■
18 OB 8.12	<ul> <li>(a) The student who desires to reject the results of a semester shall reject performance in all the Courses of the semester, irrespective of whether the student has passed or failed in any Course. However, the rejection of performance of VIII semester project shall not be permitted. A student, who desires to reject the total performance of a semester including CIE marks, has to take readmission for that semester.</li> <li>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.</li> </ul>
	(b) Readmission to any semester in such cases shall not be considered as fresh admission and therefore the student will continue to have the same University Seat Number, which was allotted earlier. The Course duration (as per 18OB1.4) will be counted with reference to old USN.
	The student, who rejects only the results of University examination of a semester, shall be permitted to re-appear for University examinations of all the Courses of that semester in the subsequent examinations. However, the CIE marks obtained by the student in the rejected semester shall be retained. Applications for rejection and approval to reappear for University examination 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. (c) If the rejection of results of University examination is of odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of results of University examination is of even semester, then the student shall not be allowed to
18 OB 8.13	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. ■

18 OB 8.14	(a) A student shall be declared to have completed the programme of BE / B.Tech degree and is
10 02 011	eligible for the award of degree, provided the student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examination and has earned the prescribed number of credits as per the provision 18 OB1.5.[To be read along with 18 OB 11.1 and 11.2]
	(b)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 for the award of degree through AICTEActivity Point Programme. Students transferred from other Universities 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.
	Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.
	In case a student fails to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. The student shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.
18 OB 9.0	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, basedon 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 are to be submitted along with the recommendations.
18 OB 9.2	<ul> <li>(a) The basis for the calculation of attendance shall be the period prescribed by the University by its calendar of events.</li> <li>(b) For Course/s having lecture and tutorial hours, attendance shall be with respect to 85 % of attendance in lecture hours and 85 % of attendance in tutorial hours. If the attendance requirement is not satisfied in any one of them, the candidate shall be considered as not satisfied the attendance condition. Condonation of 10 % shall be applied separately to lecture and tutorial hour to make up the deficiency in attendance. Faculties shall also maintain the attendance of students of lecture and tutorial hours separately in the same register or in separate registers.</li> <li>(c) In case of late admission, approved by competent authority (DTE/VTU), to I semester, III semester (lateral entry scheme) of day college and III semester (lateral entry scheme) of Engineering Programme conducted during evening the attendance shall be reckoned from the</li> </ul>
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) as mentioned in 18OB9.1/18OB 9.2 (b) shall not be eligible to appear for the SEE 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.

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18OB 10.0	Vertical Progression (Promotion/ Eligibility to higher semesters)
18OB 10.1	There shall be no restriction for promotion from an odd semester to the next even semester
	provided the student has fulfilled the attendance requirement. $\blacksquare$
18 OB 10.2	A student shall be declared failif the candidate
	(i) Fails to satisfy the conditions 18OB 8.9 (g).
	(ii) Absents himself / herself to the University examination.
	(iii) 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.
	(iv) Has not satisfied the CIE requirements of any credit Course/s.
	(v) Has not registered for the SEE even after satisfying the attendance and CIE requirements. ■
18 OB 10.3	(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 II Year.
	(a.1) Students having not more than four F grades in the four semesters of I and II year shall be aligible to move to III year.
	eligible to move to III year. (a.2)Student who have earned all the prescribed credits of I year, andhaving not more than for
	F grades in the four semesters of II and III year shall be eligible to move to IV year.
	(b) For the award of degree, a CGPA $\geq$ 5.00at the end of Programme shall be mandatory. [to b
	read with 18OB10.4 (1)]
	(B) Vertical Progression in case of Diploma students admitted to Second year (lateralentr
	(a) Students having not more than four F grades (excluding the Fail or pass status of Addition
	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 status of Addition
	Mathematics I and II, if any) in the four semesters of II and III year shall be eligible to move
	IV year.
	(b) For the award of degree, a CGPA $\geq$ 5.00at the end of Programme shall be mandatory. [to be a constructed of the second seco
	read with $18OB10.4$ (1)].
	(c) The mandatory non – credit Courses Additional Mathematics I and II prescribed at III and I
	semesters respectively, to lateral entry Diploma holders admitted to III semester of BE/B.Tec
	programmes, shall attend the classes during the respective semesters to complete CIE at
	attendance requirements and to appear for the University examinations. In case, any student fai
	to satisfy the Course requirements, he/she shall be deemed to have secured F grade. In such a cas
	the student have to fulfil the requirements during subsequent semester/s to appear for SEE.
	(d) Completion of Additional Mathematics I and II, shall be mandatory for the award of degre
	(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 Design, and 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 Yea
	(a.1) Students having not more than four F grades (excluding fail status of Engineering Graphi
	and Design, and Civil Engineering and Mechanics of First Year Engineering Programme, if an
	in the four semesters of II and III year shall be eligible to move to IV year.
	(b) For the award of degree, a CGPA $\geq$ 5.00at the end of Programme shall be mandatory. [to be
	read with 18OB10.4 (1)].
	(c)Lateral entrant students from B.Sc Stream, shall clear the non-credit Courses Engineerin
	Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering
	Programme for the award of degree.

18 OB 10.4	<ul> <li>(1) Noncompliance of CGPA ≥ 5.00 at the end of the programme</li> <li>(i) 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.</li> <li>(ii) In cases of 18OB10.4 (1) (i), students are permitted to appear again for SEE in courses/s of any semester/s by rejecting the performance of the course/s [other than Internship, Technical seminar, Project (Mini and Main), and Laboratories] for any number of times, subject to the provision of 18OB1.4, to make up the CGPA equal to or greater than 5.00 for the award of the Degree.</li> <li>(iii) SEE result of the previous attempt course/s when rejected shall be irretrievable and the students should obtain written permission from the Registrar (Evaluation) to reappear in the subsequent SEE.</li> </ul>
	<ul> <li>(2) Noncompliance of Mini-project</li> <li>(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 examination after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.</li> </ul>
	(3) Noncompliance of Internship ) All the students admitted to III year of BE/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 examination after satisfy the internship requirements.■
18 OB 11.0	Temporary Discontinuation/Break in the Programme
18 OB 11.1	<ul> <li>(a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the Programme during any semester intentionally, he/she may be permitted to continue the Programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining Course work subject to the provision 18 OB 1.4. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admitthe student for the award of degree. Such candidates shall not be eligible for the award of rank.</li> <li>(b) Candidates who take admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, including the case of 18OB11.1 (a), 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 and approval of Dean, Faculty of Engineering, 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. However, based on the individual cases, it shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates under 18OB11.1 (a and b) and 18OB13.1(b) and (c) shall be decided by the University along with the additional Course/s to be complete.</li> </ul>

18 OB 11.2	(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 affiliated college, shall be eligible fo 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 not studied earlier and make up the credits earned equa to or greater than the required for the award of degree. ■				
18 OB 12.0	Award of Prizes, Medals and Ranks				
18 OB 12.1	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. ■				
18 OB 12.2	(1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester is considered.				
	(2) 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.				
	<ul> <li>(ii) Has passed all the Courses of III to VIII semester in first attempt only in case of Candidates admitted under lateral entry scheme.</li> <li>(iii) Has completed all the prescribed mandatory noncredit Courses.</li> <li>(b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc.</li> </ul>				
	<ul> <li>(c) Has completed all the semesters without any break/discontinuity.</li> <li>(d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.</li> <li>(e) Has not been transferred from autonomous institution affiliated to VTU or from any other University.</li> </ul>				
	(3) 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.				
	(4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination. <b>Illustration:</b>				
	<ul> <li>(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.</li> <li>(b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of rank to be awarded for Biomedical Engineering will be 09.</li> </ul>				
	(5) In case of fractional number of ranks, it is rounded to higher integer only when the first decima place is greater than or equal to 5. $\blacksquare$				
18 OB 12.3	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 timesa student has obtained higher SGPA. If it is not resolved even at this stage, the number of timesa student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank. ■				

18 OB 13.0	Transfers of Students				
18 OB 13.1	<ul> <li>Transfer of students from one college to another college within the Karnataka state shall b permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of th University.</li> <li>(a) Transfer of students from one non - autonomous to another non – autonomous college affiliated to VTU is permitted with the approval of the Registrar, VTU subject to the provision 18OB10.3.</li> <li>The students seeking transfer shall have to</li> <li>(i) Obtain No Objection certificate for admission from the University and from both the college</li> </ul>				
	<ul> <li>before the commencement of term as notified by VTU.</li> <li>(ii) Complete the Programme subject to the provision 18OB1.4.</li> <li>(b) Transfer of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the approval of the Registrar, VTU provided the candidates have passed in all the Courses of the previous semesters.</li> </ul>				
	<ul><li>The students seeking transfer shall have to</li><li>(i) Obtain No Objection certificate for admission from the University and from both the college before commencement of term as notified by VTU.</li></ul>				
	(ii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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, Class, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.				
	<ul> <li>(iii) Complete the Programme subject to the provision 18OB1.4.</li> <li>(c) In the case of students 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 and all the Courses of I to VI semesters for admission to V semester.</li> </ul>				
	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.				
	<ul> <li>(ii)Produce No Objection certificate for admission from both the colleges before the commencement of term as notified by VTU.</li> <li>(iii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion, Class, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</li> </ul>				
	<ul> <li>(iv) Earn the credits intimated by the University.</li> <li>(v) Complete the Programme subject to the provision 18OB1.4. ■</li> </ul>				
18 OB 13.2	Transfer of students within the College from one branch to another branch at the start of II semester shall be permitted with the approval of the Registrar, VTU subject to the provision made by the Government of Karnataka and AICTE in this behalf. ■				
18 OB 13.3	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). ■				

18 OB 14.0	Applicability and Power to Modify
18 OB 14.1	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned. ■
18 OB 14.2	<ul> <li>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li> <li>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. ■</li> </ul>



# Visvesvaraya Technological University, Belagavi



REGULATIONS GOVERNING THE DEGREE OF MASTER OF TECHNOLOGY (M.Tech.) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME (Full Time and Part Time) Effective from academic year 2016 -17

# Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Master of Technology (M.Tech.)

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2016 -17

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# Visvesvaraya Technological University, Belagavi

# Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2016 -17

# **Definitions of Keywords**

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

- Programme: Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ seminars/ Internship/ assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of M.Tech Degree Programme, like Power Electronics, Structures, Machine Design, 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 semester may be scheduled from August and even semester from February of the year.
- 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/ 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 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, Counselor 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 20 % and 80 % 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 weightage for the different components being fixed at the University level.

- **12)** Semester end examinations (SEE): Refers to examination conducted at the University level 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.
- 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 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 Examination (Annexure -1).
- 16) Letter Grade: It is an index of the performance of students in a said Course. Grades are denoted by letters S, A, B, C, D, E and F.

Table 1: Credit Values						
Theory/Lectures (L)	Tutorials (T)	Laboratory/Practical (P)	Credits	Total		
(hours/week/Semester)	(hours/week/Semester)	(hours/week/Semester)	(L:T:P)	Credits		
4	0	0	4:0:0	4		
3	0	0	3:0:0	3		
2	2	0	2:1:0	3		
2	0	2	2:0:1	3		
2	2	2	2:1:1	4		
0	0	6	0:0:3	3		
NOTE: Activities like, practical training, study tour and participation in Guest lectures not						
to carry Credits.						

**17) Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 16OMT6.0]. The rubric 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.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale							
Letter Grade	S	А	В	С	D	Е	F
Grade Point	10	09	08	07	06	04	00

- **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 grade point (GP) and number of credits for a Course i.e., Credt points (CrP) = GP × Credits for the Course.

- 21) Semester Grade Point Average (SGPA): Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer:16OMT6.0]
- **22) Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 16OMT6.0]
- **23) Transcript or Grade Card or Certificate:** Refers to a certificate showing the grades earned by a student. A grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the programme details (Course code, title, numberof credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) University: Visvesvaraya Technological University (VTU), Belagavi.



### Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2016 -17

	Effective from academic year 2016 -17
16OMT1.0	Title, Duration and Credits of the Programme of Study
16OMT1.1	The Programme shall be called Master of Technology (Subject of Specialization), abbreviated as M.Tech. (Subject of Specialization).
16 OMT1.2	There shall be two categories of Programme: 1) Full Time Programme (FT), and 2) Part Time Programme (PT)
16OMT1.3	<b>Full Time Programme:</b> The Programme shall extend over a period of four semesters and each semester shall have 16 weeks duration.
16OMT1.4	Part Time Programme:         (a) The Programme shall be of 6 semesters.         (b) Each semester shall be 16 weeks duration.         (c) First, second, third and fourth semesters shall comprise course work and fifth and Sixth semesters shall be same as that of III and IV Semesters of the Full time Programme.         (d) The candidate shall register for a maximum of three courses per semester.         (e) The candidates shall register for Laboratory course and Seminar in first andsecond semesters along with the regular three courses.
16OM 1.5	<ul> <li>Maximum Duration for Programme Completion: <ul> <li>(a) A Full Time candidate shall be allowed a maximum duration of 4 years from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme.</li> <li>(b) A Part Time candidate shall be allowed a maximum of 6 years duration from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme or register once again as a fresh candidate to I semester of the programme or register once again as a fresh candidate to I semester of the programme.</li> </ul> </li> </ul>
16OMT1.6	Prescribed Number of Credits for the Programme:The number of credits to be completed for the award of degree shall be 85.
16OMT1.7	The Calendar of events in respect of the Programme shall be notified by the University in advance.
16OMT2.0	Eligibility for Admission(As per the Government orders issued from time to time)
16OMT2.1	<ul> <li>Admission to I year/I semester Master of Technology Programme shall be open to all the candidates who have passed B.E./ B. Tech. Examinations of VTU or any other recognized University/ Institution. The decision of the Equivalence committee shall be final in establishing the eligibility of candidates for a particular Programme.</li> <li>For the foreign degrees, Equivalence certificate from the Association of Indian Universities is a must.</li> <li>The candidates who have completed their degree through the distance mode education from any University (National or International) are not eligible for admission to M.Tech. Programs under any quota.</li> </ul>

16OMT2.2	AMIE in respective branches shall be equivalent to B.E./ B. Tech. Programs of VTU for admission to M.Tech.
16 OMT2.3	Admission to M.Tech. Programme shall be open to the candidates (as per 16OMT 2.1 and 2.2) who have passed the prescribed qualifying examination with not less than 50% of the marks in the aggregate of all the years of the degree examination. However, in the case of candidates belonging to SC/ST and Category I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Rounding off of percentage secured in qualifying examination is not permissible.
16OMT2.4	For admissions under GATE/ PGCET qualification and Roaster system of
	Government of Karnataka:
	The candidates should be GATE qualified or should have appeared for the Entrance Examination conducted by an authority recognized by Government of Karnataka (PGCET)/VTU/any other University on approval by Government of Karnataka.
	For admissions under Management Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka
	PGCET/VTU/any other University on approval by Government of Karnataka.
	Further, there shall be an Admissions Committee for PG Programme in each college for each brench of PC studies consisting of the Principal of the College on the
	for each branch of PG studies consisting of the Principal of the College as the Chairman, Head of the concerned Department, one senior faculty of the concerned
	Department as members. The Admissions Committee shall conduct the interview and
	select the candidates for admissions.
	For admissions under Sponsored Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka PGCET/VTU/any other University on approval by Government of Karnataka.
16OMT2.5	The candidates, who are qualified in the GATE Examination for the appropriate branch
	of engineering, shall be given priority. They are exempted from taking Entrance
	Examination.
	In case a GATE qualified Candidate appears for entrance examination and become
	qualified to claim a seat under entrance examination quota, he/she will be considered
	in the order of merit along with other candidates appeared for the entrance
	examination.
16OMT2.6	If sufficient number of GATE qualified candidates are not available, the remaining
	vacant seats shall be filled from amongst the candidates appeared for Entrance Examination in the order of merit.
1(0)//T2 7	
16OMT2.7	The intake under various categories (regular, sponsored candidates and SC/ST) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.

16OMT2.8	Subject to the provisions of 16OMT2.1 and 16OMT2.2, members of the Teaching/Research Staff working in any Engineering College recognized by AICTE either in the State of Karnataka or outside and who have put in a minimum of 03 years of teaching experience on full-time basis in Engineering Colleges, Polytechnic institutions / any other institutions imparting Engineering education shall be eligible for admission to PG Programs under sponsored quota, if they are sponsored by the respective Institutions / DTE.
16OMT2.9	Subject to the provisions of 16OMT 2.1 and 16OMT 2.2, members working in the State Government/ Central Government/ Quasi Government Organizations/ Public Sector Industries / Reputed Private Industries, who have put in a minimum of 03years of working experience and sponsored by the concerned Organizations, shall also be eligible to seek admissions to PG Programs against sponsored quota. Preference for admission under 16OMT2.8 and 2.9 shall be given to candidates sponsored by organizations of State and Central Governments.
16OMT2.10	Further that employment of Part time students shall be in an establishment situated within the 100 km from the place of the institution to which the candidate is seeking admission.
16OMT2.11	The Engineering graduates other than the Karnataka candidates shall obtain Eligibility Certificate from VTU to seek admission to P.G. Programme in any of the colleges (Autonomous or Non - Autonomous) affiliated to VTU.
16OMT2.12	Admission to vacant seats: Seats remaining vacant (unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/ PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. An Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts, shall be in charge of admissions.
16MT3.0	Courses
16OMT3.1	<ul> <li>The curriculum of the Programme shall be any combination of following type of courses:</li> <li>i) One Course on Mathematics supportive to the concerned programme in the first semester.</li> <li>ii) Professional Core Courses (PC) - relevant to the chosen specialization/ branch [May be split into Hard (no choice) and Soft (with choice), if required]. The core course is to be compulsorily studied by a student and is mandatory to complete the requirements of a programme in a said discipline of study.</li> <li>iii) Professional Electives Courses (PE) - relevant to the chosen specialization/ branch: these are the courses, which 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 / nurturing student skills.</li> </ul>

16OMT3.1	iv) Open Electives Courses (OE), from other technical and/ or emerging
(continued)	specialization areas.
	v) Project Work, Seminar.
	vi) Audit Courses (AC):
	(a) The Audit course can be any credit course offered by the program to which the
	Candidate is admitted (other than the courses considered for completing the prescribed
	program credits) or other programs offered in the institution, where the student is
	studying.
	(b) The students who are interested in audit courses can register for one audit course at
	a time during II and IV semesters. Students who have registered to audit the courses,
	considered on par with students registered to the same course for credit, haveto satisfy
	attendance and CIE requirements. However, they need not have to appear for SEE.
	(c) Registration for any audit course, in writing, shall be completed at the beginning of
	II and IV semesters. The Institution should intimate the Registrar (Evaluation) about
	the registration at the beginning of the semester and obtain a formal approval for inclusion of the audit course/s in the Grade cards/ Transcripts issued to the students.
	vii) Internship: Preferably at an industry/R and D organization/IT company/
	Government organization of significant repute for a specified period mentioned
	in Scheme of Teaching and Examination.
16OMT4.0	Internship
16OMT4.1	Internship: The student shall undergo Internship for 16 weeks as per the Scheme
	of Teaching and Examination.
	1. The internship can be carried out in any industry/R&D
	Organization/Research Institute/Institute of repute.
	2. (a) The Department/college shall nominate a faculty to facilitate, guide and
	supervise students under internship.
	(b) The Internal Guide has to visit work place at least once during the
	<ul><li>student's internship.</li><li>3. The students shall report the progress of the internship to the internal guide</li></ul>
	in regular intervals and seek his/her advise.
	<ul><li>4. The Internship shall be completed during the period specified in Scheme of</li></ul>
	Teaching and Examination.
	5. After completion of Internship, students shall submit a report to the Head of
	the Department with the approval of both internal and external guides.
	6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50
	marks for Viva – Voce conducted during SEE. [To be read along with 16OMT
	8.8 and 8.9]
	7. The internal guide shall award the CIE marks for seminar and internship
	report after evaluation. He/she will also be the internal examiner for Viva -
	Voce conducted during SEE.
	8. The external guide from the industry has to be an examiner for the viva voce
	on Internship. Viva-Voce on internship shall be conducted at the college and
	the date of Viva-Voce shall be fixed in consultation with the external Guide. The
	Examiners shall jointly award the Viva - Voce marks.

160MT/ 1(aa	0. In area the outernal Chide expresses his inshility to conduct vive years the
16OMT4.1(co	9. In case the external Guide expresses his inability to conduct viva voce, the Chief Superintendent is permitted to make alternate arrangements with the
ntinued)	permission of the concerned BOE Chairperson.
	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 internship and for the conduct of Viva-Voce on internship.
16OMT4.2	<b>Failing to undergo Internship:</b> Internship is one of the head of passing. Completion
1001114.2	of internship is mandatory. If any student fails to undergo/complete the internship,
	he/she shall be considered as failed in that Course and shall not be permitted to
	appear for SEE in that Course. However, student shall appear for SEE after
	satisfying the conditions prescribed for Internship. The reappearance shall be
	considered as an attempt.
16OMT5.0	Seminar and Project
16OMT5.1	Seminar: Seminar is one of the head of passing.
	i) Each candidate shall deliver seminar as per the Scheme of Teaching and
	Examination on the topics chosen from the relevant fields for about 30 minutes.
	ii) The Head of the Department shall make arrangements for conducting seminars
	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 three faculty from the
	Department and the senior most acting as the
	Chairman/Chairperson. [To be read along with 16OMT8.8]
16OMT5.2	<b>Project Work:</b> Project is one of the head of passing.
	Project work shall preferably be on individual basis.
	The candidate shall submit a soft copy (CD) of the dissertation work to the
	University. The CD should contain the entire Dissertation in monolithic form as a
	PDF file (not separate chapters).
	The Guide, after checking the report for completeness shall upload the Dissertation
	along with name, University Seat Number, address, mobile number of the candidate,
	etc., as prescribed in form available on online Dissertation evaluation portal. The
	guide shall submit a panel of four approved University Examiners for
	evaluation of dissertation.
16OMT5.3	Plagiarism Check
	Once the Guide uploads the dissertation, the same shall be linked for plagiarism
	check. The allowable plagiarism index is less than or equal to 25%.
	If the check indicates a plagiarism index greater than 25% :
	• for the first time, the candidate has to resubmit the dissertation, to the
	Registrar (Evaluation), Regional Center/Head Office, VTU along with the
	<ul> <li>penal fees of Rs. 2000/- (Rupees Two thousand only) in person.</li> <li>for the second time, the candidate has to resubmit the dissertation along with</li> </ul>
	the penal fees of Rs. 4000/- (Rupees four thousand only) in person.
	<ul> <li>If the dissertation is rejected again during second resubmission with reference</li> </ul>
	to plagiarism index, the candidate shall redo the project and submit after a
	semester's time subject to provisions of 160MT1.5.
16OMT5.4	The dissertation shall be sent through email for evaluation to two examiners - one
	internal examiner (guide/co-guide) and one external examiner (first) appointed by
	the University. The evaluation of the dissertation shall be made independently by
	each examiner.

16OMT5.5	Examiners shall evaluate the dissertation normally within a period of not more than
	two weeks from the date of receipt of dissertation through email.
16OMT5.6	The examiners shall independently submit the marks through the specified link.
16OMT5.7	Average of the marks awarded by the two Examiners shall be the final evaluation
	marks for the Dissertation.
160MT5.8	<ul> <li>marks for the Dissertation.</li> <li>(a) Viva-voce examination of the candidate shall be conducted as per 160MT5.10, if the dissertation work and the reports are accepted by the external examiner (first).</li> <li>(b) If the external examiner (first) finds that the dissertation work and the report are not up to the expected standard and the minimum passing marks cannot be awarded, the dissertation shall not be accepted for SEE. The external examiner (first) can recommend for modifications/suggestions of dissertation or totally reject the dissertation. The examiner shall offersuggestions for rejection of the dissertation incorporating the modifications/suggestions [as per 160MT5.8(b)] of the external examiner (first) and satisfying the provision 160MT5.3(b)] of the external examiner (first) and satisfying the provision 160MT5.8(b)] of the external examiner (first) for evaluation. If the dissertation and the report are accepted by the external examiner (first), viva-voce examination of the candidate shall be conducted as per 160MT5.10.</li> <li>(d) In case of rejection of Dissertation by the external examiner (first), the same will be sent to a Second Examiner (external) approved by the University. The decision of the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 160MT5.10.</li> <li>(e) In case of rejection of Dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation and the report, the candidate shall have to carry out the dissertating from the submission of Dissertation in soft copy.</li> <li>(e) In case of rejection of the Second Examiner (external) is final. If the dissertation is for the casifier of the second Examiner (external), viva-voce examination of the candidate shall be conducted as per 160MT5.10.</li> <li>(f) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 160MT5.8 (b)], the same will be sent to a Second Examiner (external) is fina</li></ul>
	the Programme.
16OMT5.10	Viva-voce examination of the candidate shall be conducted by the external examiner and internal examiner/guide. Internal examiner as per the direction of the University shall have to arrive at a mutually convenient date for the conduct of viva-voce examination of the concerned candidate with an intimation to the Registrar (Evaluation). In case one of the examiners expresses his/her inability to attend the viva-voce, the Registrar (Evaluation) shall appoint a substitute examiner in his/her place.
16OMT5.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.

16OMT5.12	The marks av	•					amination s	shall be
16OMT5.13	<ul> <li>sent jointly to the University immediately after the examination.</li> <li>Examination fee as fixed from time to time by the University for evaluation of dissertation report and conduct of viva voce shall be remitted through the Head of the Institution as per the instructions of Registrar (Evaluation) from time to time.</li> </ul>							
16OMT5.14	The candidat have to subm						he stipulate	ed time
16OMT6.0	Computation	n of SGPA a	and CGP	A				
16OMT6.1	average ( be calcul (ii) The gradi	s, and every s (SGPA) and ated for ever	semester Cumulati ry semest rith the le	results will we Grade P er, except f tter grades	be declare oint Averagor the first and the ass	d with set ge (CGPA semester.	mester grad A). The CG	le point PA will
	Level	Outstanding	Excellen t	Very Good	Good	Above Average	Average	Fail
	Letter Grade	S	А	В	С	D	E	F
	Grade Points	10	9	8	7	6	4	00
	Percentage of Marks	$\geq 90$	<90 ≥80	< 80 ≥70	< 70 ≥60	< 60 ≥ 55	< 55 ≥50	< 50
	Scored in a Course	(90 -100)	(80 -	(70 - 79)	(60 - 69)	(55 -	(50-54)	(0 - 49)
	(iii) A student obtaining Grade F in a Course shall be considered failed and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his /her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts.							student
16OMT6.2	Computation The following Average (SG: i) The SGPA points secure number of cro SGPA $\sum$ Where $C_i$ is the by the studen	g procedures PA) and Cur is the ratio o d by a stude edits of all th $(C_i \times G_i)$ $\Sigma C_i$ ne number of	shall be nulative ( f sum of t ent in all the Course f credits o	used to con Grade Point the product the Course s undergon	mpute the S Average ( of the num s taken by e by a stude	Gemester ( CGPA) ro ber of cre him/her ent, i.e.,	espectively dits with the and the sur	: ne grade m ofthe

16OMT6.2					ii) 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 programme, i.e.,					
(continued)	undergone	by a stud	ent over all the	e semesters of	a programme, 1.e.,					
	$CGPA \qquad \frac{\times}{\sum C_i}$									
	Where $S_i$ is the SGPA of the <i>i</i> <sup>th</sup> semester and $C_i$ is the total number of credits in that									
	semester.									
	The SGPA	and CGP	A shall be rou	nded off to 2 d	lecimal places and reported in the					
	transcripts.									
	-	n for Cor	nputation of S	SGPA and CO	GPA					
	Computati	ion of SG	<b>PA</b>							
	Illustratio									
	Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)					
	Course 1	4	В	08	$4 \times 08 = 32$					
	Course 2	4	D	06	$4 \times 06 = 24$					
	Course 3	4	C	07	$4 \times 07 = 28$					
	Course 4	3	S	10	$3 \times 10 = 30$					
	Course 5	3	E	04	$3 \times 04 = 12$					
	Course 6	3	D	06	$3 \times 06 = 18$					
	Course 7	2	A	09	$2 \times 09 = 18$					
	Course 8	2 25	D	06	$2 \times 06 = 12$					
	Total				174					
	Thus, SGP	A = 1/4/2	5 = 6.96							
	Illustratio			I	Curlis Drive - (Curdit V Curde)					
	Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)					
	Course 1	4	В	08	$4 \times 08 = 32$					
	Course 2	4	D	06	$4 \times 06 = 24$					
	Course 3	4	С	07	$4 \times 07 = 28$					
	Course 4	3	S	10	$3 \times 10 = 30$					
	Course 5	3	F	00	$3 \times 00 = 00$					
	Course 6	3	D	06	$3 \times 06 = 18$					
	Course 7	2	A	09	$2 \times 09 = 18$					
	Course 8 Total	25	D	06	$2 \times 06 = 12$ 162					
	Thus, SGP				102					
	11103, 501									
	If a Student secures letter grade C during reappearance then the SGPA is Calculated as shown below. Illustration No. 2(a)									
	Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)					
	Course 5	3	С	07	$7 \times 03 = 21$					
		-	-		+ Credit Points of subsequent attempt					
	=162 + 21 =									
	Total credit	s of the se	mester $= 25$							
	Thus, SGP									
1										

60MT6.2							
continued)	Illustratio	n No.3					
	Course	Credit	Grade letter	Grade point	Credit Poin	t = (Credit x Grad	le)
	Course 1	4	В	08		$4 \ge 08 = 3$	2
	Course 2	4	D	06		$4 \times 06 = 3$ $4 \times 06 = 2$	
	Course 3	4	C	07		$4 \times 07 = 2$	
	Course 4	se 4 3 S 10 3 x		3 x 10 = 3			
	Course 5	3	А	09		$3 \ge 04 = 1$	8
	Course 6	3	D	06		$3 \ge 06 = 1$	8
	Course 7	2	A	09		$2 \ge 0.000 = 1$	
	Course 8	2	D	D 06		$2 \ge 0.000 = 1$	2
	Total	25				189	
	Thus, SGPA	A= 189/25=	7.56				
	CGPA (fro	m illustra	itiions 2 and 3)	$=\frac{25 \times 7.32 + 2}{50}$	$\frac{5 \times 7.56}{2} = 7.$	44	
	Semester		I		II	III	IV
	Credits of	the semes	ter 24		24	24	24
	SGPA		7.08		.08	7.92	9.24
	Thus CGP	$A = \frac{(24 \times 10^{\circ})}{10^{\circ}}$	7.08 + 24 × 6.0	8 + 24 × 7.92 + 96	- 24 × 9.24)	= 7.58	
60MT6.3	Transcript Format: Based on the secured letter grades, grade points, SGPA and CGPA,						
.001110.3	I ranscrip	ot Forma	<b>t:</b> Based on th	e secured lette	r grades, gra	ade points, SG	PA and CGP.
.0010110.5	-					-	
001110.3	the transci	ript for ea				ide points, SG	
	the transcr in all seme	ript for ea esters sha	ich semester a	nd a consolida	ted transcrip	ot indicating th	
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	the transcr in all seme Conversio Percentage	ript for ea esters sha ons of Gu on Formut e Of Mar	ach semester an all be issued. rades into Per la For The Con ks Secured, P	nd a consolida rcentage and l aversion Of C	ted transcrip Declaration GPA Into Pe	ot indicating the of Class ercentage Is G	ne performan
	the transcr in all seme Conversio Percentage Illustration	ript for ea esters sha ons of Gu n Formu e Of Mar n For A C	ich semester an all be issued. rades into Per la For The Con ks Secured, P CGPA Of 8.20:	nd a consolida centage and l nversion Of Co = [CGPA Earr	ted transcrip Declaration GPA Into Pe	ot indicating the of Class ercentage Is G	ne performan
	the transcr in all seme Conversio Percentage Illustration	ript for ea esters sha ons of Gu n Formu e Of Mar n For A C	ach semester an all be issued. rades into Per la For The Con ks Secured, P	nd a consolida centage and l nversion Of Co = [CGPA Earr	ted transcrip Declaration GPA Into Pe	ot indicating the of Class ercentage Is G	ne performan
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60MT7.0	the transcription of transcription o	ript for ea esters sha ons of Gi n Formul e Of Mar n For A C A Earned conversion	the hard semester and the semester and the issued. Frades into Period and the contract of the	and a consolidation of a consolidation of a consolidation of a constraint of	ted transcrip Declaration GPA Into Pe ned - 0.75] <sub>&gt;</sub>	ot indicating the of Class ercentage Is G	ne performan
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16OMT8.3	The CIE marks in a theory course, for 10 marks, shall be based on two tests covering the entire syllabus. An additional test may be conducted for the needy students to provide an opportunity to improve their CIE Marks before the end of the semester. The CIE marks shall be the average of the marks scored in at least two of the above tests. [To be read along with 16OMT8.8]
16OMT8.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 16OMT8.2 (b) shall be preserved by the Principal / Head of the Department for at least six months after the announcement of University results and made available for verification at the directions of the Registrar (Evaluation).
16OMT8.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.
16OMT8.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.
16OMT8.7	The CIE marks shall be sent to the university by the Principals well in advance before the commencement of Semester End Examinations. No corrections of the CIE marks shall be entertained after the submission of marks list to the University.
16OMT8.8	Candidates obtaining less than 50% of the CIE marks in any course (Theory/Laboratory/Seminar/Internship/Project) shall not be eligible to appear for the University examination in that course/s. In such cases, the Head of the Department shall arrange for the improvement of CIE marks in the course/ Laboratory whenoffered in the subsequent semester subject to the provision of 16OMT1.5.
16OMT8.9	<b>Semester End Evaluation:</b> There shall be a University examination at the end of each semester.
16OMT8.10	There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
16OMT8.11	If the difference between the marks awarded by the two Examiners is not more than 15 per cent of the maximum marks, the marks awarded to the candidate shall be the average of two evaluations.
16OMT8.12	If the difference between the marks awarded by the two Examiners is more than 15 per cent of the maximum marks, the answer booklet shall be evaluated by a third Examiner appointed by the university. The average of the marks of nearest two valuations shall be considered as the marks secured by the candidate. In case, if one of the three marks falls exactly midway between the other two, then the highest two marks shall be taken for averaging.
16OMT9.0	Eligibility for Passing and Award of Degree
16OMT9.1	A student who obtains any grade S to E shall be considered as passed and if a student secure F grade in any of the head of passing he/she has to reappear in that head for the SEE.
16OMT9.2	For a pass in a theory course, the student shall secure minimum of 40% of the maximum marks prescribed in the Semester End Examination and 50% of marks inCIE and 50% in the aggregate of CIE and SEE marks. The Minimum Passing Grade in
16OMT9.3	For a pass in Internship/Practical/Project/Dissertation/Viva-voce examination, astudent shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/Practical/Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
16OMT9.4	For a pass, a candidate shall obtain a minimum of 50% of maximum marks in Seminar.

160MT9.5	IV semester Full time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The IV semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 16OMT11.2] VI semester Part time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 16OMT11.2]
16OMT9.6	A candidate may at his/her desire reject his/her latest semester results of University examination in respect to all courses of that semester. However, in the IV semester the rejection shall not include the Project work. Rejection shall be permitted only once during the entire Programme. The CIE marks of the rejected semester shall remain the same. Rejection of results of the University examination including CIE marks is not
16OMT9.7	If the rejection of the University examination results of the semester happens to be of an odd semester, the candidate can take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate cannot take admission to the next odd semester.
16OMT9.8	Application for rejection shall be submitted to the Registrar (Evaluation) through the Principal of the college, within thirty days from the date of announcement of results.
16OMT9.9	A candidate, who opts for rejection of results of a semester shall be eligible for the award of class and distinction, but shall not be eligible for the award of rank.
16OMT9.10	<b>Eligibility for Award of Degree:</b> A student shall be declared to have completed the degree of Master of Technology, provided the student has undergone the stipulated course work as per the regulations and has earned the prescribed Credits, as per the Scheme of Teaching and Examination, of the programme.
16OMT10.0	Attendance Requirement
16OMT10.1	<ul> <li>Registration and Enrolment: <ul> <li>i) Except for the first semester, registration for a semester will be done during a specified week before the semester end examination of the previous semester.</li> <li>ii) The registration sheet should have the Candidate details, course name and code, number of credits and category (core/elective/audit) for each course of that semester.</li> <li>iii) The Faculty Adviser, assigned by the Head of the Department, will counsel the students in planning their courses of study and provide guidance, motivation, emotional support, and enable the mentees to reach the desired professional and career goals.</li> </ul> </li> </ul>
16OMT10.2	Courses of each semester shall be treated as a separate unit for calculation of the attendance.
16OMT10.3	The candidate has to put in a minimum attendance of 85% in each course with a provision to condone 10% of the attendance by the Vice-Chancellor on the specific recommendation 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 necessary documents in support are to be submitted along with recommendations to condone the shortage.
16OMT10.4	In case of late admission, approved by competent authority (DTE/VTU), to I semester of the programme the attendance shall be reckoned from the date of admission to the programme.

<ul> <li>course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.</li> <li><b>16OMT13.0</b> Award of Prizes, Medals and Ranks</li> <li>For the award of Prizes and Medals, the conditions stipulated by the Donor shall be</li> </ul>		
fall short of attendance.16OMT10.7The list of the candidates falling short of attendance shall be sent to the University at least one week prior to the commencement of the examination.16OMT11.0Promotion and Eligibility16OMT11.1Promotion: There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.16OMT11.2The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.16OMT12.0Temporary Discontinuation/Break in the Program16OMT12.1(a) If a candidate, for any reason, temporarily discontinues the Programme or take abreak from programme during any semester, he/she may be permitted to continue in the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining course work subject to the provision 16OMT1.5. Also the Candidates may have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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 Sudies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional course/s shall not be considered for the	16OMT10.5	as mentioned in 16OMT10.3 shall not be eligible to appear for the SEE of that semester and shall not be permitted to take admission to next higher semester. The candidate shall
<ul> <li>16OMT10.7 The list of the candidates falling short of attendance shall be sent to the University at least one week prior to the commencement of the examination.</li> <li>16OMT11.0 Promotion and Eligibility</li> <li>16OMT11.1 Promotion: There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.</li> <li>16OMT11.2 The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.</li> <li>16OMT12.0 Temporary Discontinuation/Break in the Program</li> <li>16OMT12.1 (a) If a candidate, for any reason, temporarily discontinues the Programme or take abreak from programme during any semester, he/she may be permitted to continue in the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining course work subject to the provision 160MT1.5. Also the Candidates may have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.</li> <li>16OMT12.1 (b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional course/s shall not be econsidered for the eligibility criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit</li></ul>	16OMT10.6	Principals of the concerned colleges shall notify regularly, the list of candidates who
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16OMT13.2	(1) For award of rank in a Specialization of Master of Technology, the CGPA secured by
	<ul><li>the student from I to IV semester is considered.</li><li>(2) A student shall be eligible for a rank at the time of award of degree of Master of</li></ul>
	Technology, provided the student
	a. Is not a repeater in any semester
	b. Has not rejected the results of any semester.
	c. Has passed I to IV semester in all the courses in first attempt only
	(3) The total number of ranks awarded shall be 10% of total number of students appeared
	in IV semester subject to a maximum of 10 ranks in a Specialization.
	(4) For award of ranks in a Specialization, a minimum of 10 students should have
	appeared in the IV semester examination. Illustration:
	(a) If 150 students appeared for the IV semester in VLSI Design and Embedded
	Systems Branch, the number of ranks to be declared in VLSI Design and
	Embedded Systems will be 10.
	(b) If 84 students appeared for the IV semester in Nano Technology, the number of
	ranks to be declared for Nano Technology will be 08.
	(c) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.
	(5) Students under Part time Programme are not considered for Rank declaration.
16OMT13.3	Ranks are awarded based on the merit of the students as determined 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.
16OMT14.0	times a student has obtained higher grades like S, A, B etc., shall be taken into account
160MT14.0 160MT14.1	times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.
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16OMT14.1	<ul> <li>times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.</li> <li>Applicability and Power to Modify</li> <li>The regulations governing the Degree of Master of Technology of Visvesvaraya Technological University shall be binding on all concerned.</li> </ul>
16OMT14.1	<ul> <li>times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.</li> <li>Applicability and Power to Modify</li> <li>The regulations governing the Degree of Master of Technology of Visvesvaraya Technological University shall be binding on all concerned.</li> <li>i) Notwithstanding anything contained in the foregoing, the University shall have the</li> </ul>





REGULATIONS GOVERNING THE DEGREE OF MASTER OF TECHNOLOGY (M.Tech.) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME (Full Time and Part Time) Effective from academic year 2017 -18

**SEPTEMBER 2017** 

### Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2017 -18

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### Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2017 -18

#### **Definitions of Keywords**

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

- Programme: Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ seminars/ Internship/ assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of M.Tech Degree Programme, like Power Electronics, Structures, Machine Design, 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 semester may be scheduled from August and even semester from February of the year.
- 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/ 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 weeketc.
- 7) Audit Courses: Means 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, Counselor 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 20 % and 80 % 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 weightage for the different components being fixed at the University level.

- **12)** Semester end examinations (SEE): Refers to examination conducted at the University level 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.
- 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 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 Examination (Annexure -1).
- 16) Letter Grade: It is an index of the performance of students in a said Course. Grades are denoted by letters S, A, B, C, D, E and F.

Table 1: Credit Values								
Theory/Lectures (L)	Tutorials (T)	Laboratory/Practical (P)	Credits	Total				
(hours/week/Semester)	(hours/week/Semester)	(hours/week/Semester)	(L:T:P)	Credits				
4	0	0	4:0:0	4				
3	0	0	3:0:0	3				
2	2	0	2:1:0	3				
2	0	2	2:0:1	3				
2	2	2	2:1:1	4				
0	0	6	0:0:3	3				
<b>NOTE:</b> Activities like	, practical training, stud	dy tour and participation in	Guest lect	ures not				

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

- 17) Grading: Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 17OMT6.0]. The rubric 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.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale							
Letter Grade	S	А	В	С	D	Е	F
Grade Point	10	09	08	07	06	04	00

- **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 grade point (GP) and number of credits for a Course i.e., Credt points (CrP) = GP × Credits for the Course.

- 21) Semester Grade Point Average (SGPA): Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer:17OMT6.0]
- **22) Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 17OMT6.0]
- **23) Transcript or Grade Card or Certificate:** Refers to a certificate showing the grades earned by a student. A grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the programme details (Course code, title, numberof credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) University: Visvesvaraya Technological University (VTU), Belagavi.



### Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Master of Technology (M.Tech.) Under Choice Based Credit System (CBCS) Scheme (Full Time and Part Time) Effective from academic year 2016 -17

	Effective from academic year 2016 -17
17OMT1.0	Title, Duration and Credits of the Programme of Study
170MT1.1	The Programme shall be called Master of Technology (Subject of Specialization), abbreviated as M.Tech. (Subject of Specialization).
170MT1.2	There shall be two categories of Programme:
	<ol> <li>Full Time Programme (FT), and</li> <li>Part Time Programme (PT)</li> </ol>
170MT1.3	<b>Full Time Programme:</b> The Programme shall extend over a period of four semesters and each semester shall have 16 weeks duration.
170MT1.4	Part Time Programme:
	(a) The Programme shall be of 6 semesters.
	(b) Each semester shall be 16 weeks duration.
	<ul><li>(c) First, second, third and fourth semesters shall comprise course work and fifth and Sixth semesters shall be same as that of III and IV Semesters of the Full time Programme.</li></ul>
	(d) The candidate shall register for a maximum of three courses per semester.
	(e) The candidates shall register for Laboratory course and Seminar in first and second semesters along with the regular three courses.
170MT 1.5	Maximum Duration for Programme Completion:
	<ul> <li>(a) A Full Time candidate shall be allowed a maximum duration of 4 years from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme.</li> <li>(b) A Part Time candidate shall be allowed a maximum of 6 years duration from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme or register of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme.</li> </ul>
170MT1.6	Prescribed Number of Credits for the Programme:
	The number of credits to be completed for the award of degree shall be 85.
170MT1.7	The Calendar of events in respect of the Programme shall be notified by the University in advance.
17OMT2.0	Eligibility for Admission(As per the Government orders issued from time to time)
17OMT2.1	<ul> <li>Admission to I year/I semester Master of Technology Programme shall be open to all the candidates who have passed B.E./ B. Tech. Examinations of VTU or any other recognized University/ Institution. The decision of the Equivalence committee shall be final in establishing the eligibility of candidates for a particular Programme.</li> <li>For the foreign degrees, Equivalence certificate from the Association of Indian Universities is a must.</li> <li>The candidates who have completed their degree through the distance mode education from any University (National or International) are not eligible for admission to M.Tech. Programs under any quota.</li> </ul>

170MT2.2	AMIE in respective branches shall be equivalent to B.E./ B. Tech. Programs of VTU for admission to M.Tech.
16 OMT2.3	Admission to M.Tech. Programme shall be open to the candidates (as per 17OMT 2.1 and 2.2) who have passed the prescribed qualifying examination with not less than 50% of the marks in the aggregate of all the years of the degree examination. However, in the case of candidates belonging to SC/ST and Category I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Rounding off of percentage secured in qualifying examination is not permissible.
170MT2.4	For admissions under GATE/ PGCET qualification and Roaster system of
	Government of Karnataka:
	The candidates should be GATE qualified or should have appeared for the Entrance Examination conducted by an authority recognized by Government of Karnataka (PGCET)/VTU/any other University on approval by Government of Karnataka.
	For admissions under Management Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka
	PGCET/VTU/any other University on approval by Government of Karnataka.
	Further, there shall be an Admissions Committee for PG Programme in each college for each brench of PC studies consisting of the Dringing of the College on the
	for each branch of PG studies consisting of the Principal of the College as the Chairman, Head of the concerned Department, one senior faculty of the concerned
	Department as members. The Admissions Committee shall conduct the interview and
	select the candidates for admissions.
	For admissions under Sponsored Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka PGCET/VTU/any other University on approval by Government of Karnataka.
170MT2.5	The candidates, who are qualified in the GATE Examination for the appropriate branch
	of engineering, shall be given priority. They are exempted from taking Entrance
	Examination.
	In case a GATE qualified Candidate appears for entrance examination and become
	qualified to claim a seat under entrance examination quota, he/she will be considered
	in the order of merit along with other candidates appeared for the entrance
	examination.
17OMT2.6	If sufficient number of GATE qualified candidates are not available, the remaining
	vacant seats shall be filled from amongst the candidates appeared for Entrance Examination in the order of merit.
170MT2.7	The intake under various categories (regular, sponsored candidates and SC/ST) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.

17OMT2.8	Subject to the provisions of 17OMT2.1 and 17OMT2.2, members of the Teaching/Research Staff working in any Engineering College recognized by AICTE either in the State of Karnataka or outside and who have put in a minimum of 03 years of teaching experience on full-time basis in Engineering Colleges, Polytechnic institutions / any other institutions imparting Engineering education shall be eligible for admission to PG Programs under sponsored quota, if they are sponsored by the respective Institutions / DTE.
17OMT2.9	Subject to the provisions of 17OMT 2.1 and 17OMT 2.2, members working in the State Government/ Central Government/ Quasi Government Organizations/ Public Sector Industries / Reputed Private Industries, who have put in a minimum of 03years of working experience and sponsored by the concerned Organizations, shall also be eligible to seek admissions to PG Programs against sponsored quota. Preference for admission under 17OMT2.8 and 2.9 shall be given to candidates sponsored by organizations of State and Central Governments.
17OMT2.10	Further that employment of Part time students shall be in an establishment situated within the 100 km from the place of the institution to which the candidate is seeking admission.
17OMT2.11	The Engineering graduates other than the Karnataka candidates shall obtain Eligibility Certificate from VTU to seek admission to P.G. Programme in any of the colleges (Autonomous or Non - Autonomous) affiliated to VTU.
17OMT2.12	Admission to vacant seats: Seats remaining vacant (unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/ PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. An Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts, shall be in charge of admissions.
16MT3.0	Courses
17OMT3.1	<ul> <li>The curriculum of the Programme shall be any combination of following type of courses:</li> <li>i) One Course on Mathematics supportive to the concerned programme in the first semester.</li> <li>ii) Professional Core Courses (PC) - relevant to the chosen specialization/ branch [May be split into Hard (no choice) and Soft (with choice), if required]. The core course is to be compulsorily studied by a student and is mandatory to complete the requirements of a programme in a said discipline of study.</li> <li>iii) Professional Electives Courses (PE) - relevant to the chosen specialization/ branch: these are the courses, which 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 / nurturing student skills.</li> </ul>

170MT3.1	iv) Open Electives Courses (OE), from other technical and/ or emerging
(continued)	specialization areas.
	v) Project Work, Seminar.
	vi) Audit Courses (AC):
	(a) The Audit course can be any credit course offered by the program to which the
	Candidate is admitted (other than the courses considered for completing the
	prescribed program credits) or other programs offered in the institution, where the
	student is studying.
	(b) The students who are interested in audit courses can register for one audit course at
	a time during II and IV semesters. Students who have registered to audit the
	courses, considered on par with students registered to the same course for credit,
	have to satisfy attendance and CIE requirements. However, they need not have to
	appear for SEE.
	(c)Registration for any audit course, in writing, shall be completed at the beginning of
	II and IV semesters. The Institution should intimate the Registrar (Evaluation) about
	the registration at the beginning of the semester and obtain a formal approval for
	inclusion of the audit course/s in the Grade cards/ Transcripts issued to the students.
	vii)Internship: Preferably at an industry/R and D organization/IT company/
	Government organization of significant repute for a specified period mentioned in
	Scheme of Teaching and Examination.
17OMT4.0	Internship
170MT4.1	Internship: The student shall undergo Internship for 16 weeks as per the Scheme
	of Teaching and Examination.
	of Teaching and Examination. 1. The internship can be carried out in any industry/R&D
	of Teaching and Examination. 1. The internship can be carried out in any industry/R&D Organization/Research Institute/Institute of repute.
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide</li> </ul>
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	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of</li> </ul>
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	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 170MT</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 170MT 8.8 and 8.9]</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 17OMT 8.8 and 8.9]</li> <li>7. The internal guide shall award the CIE marks for seminar and internship</li> </ul>
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	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 170MT 8.8 and 8.9]</li> <li>7. The internal guide shall award the CIE marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.</li> <li>8. The external guide from the industry has to be an examiner for the viva voce</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 170MT 8.8 and 8.9]</li> <li>7. The internal guide shall award the CIE marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.</li> <li>8. The external guide from the industry has to be an examiner for the viva voce on Internship. Viva-Voce on internship shall be conducted at the college and</li> </ul>
	<ul> <li>of Teaching and Examination.</li> <li>1. The internship can be carried out in any industry/R&amp;D Organization/Research Institute/Institute of repute.</li> <li>2. (a) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.</li> <li>(b) The Internal Guide has to visit work place at least once during the student's internship.</li> <li>3. The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.</li> <li>4. The Internship shall be completed during the period specified in Scheme of Teaching and Examination.</li> <li>5. After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.</li> <li>6. There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 170MT 8.8 and 8.9]</li> <li>7. The internal guide shall award the CIE marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.</li> <li>8. The external guide from the industry has to be an examiner for the viva voce</li> </ul>

170MT4.1(co	9. In case the external Guide expresses his inability to conduct viva voce, the
ntinued)	Chief Superintendent is permitted to make alternate arrangements with the
ntinueu)	permission of the concerned BOE Chairperson.
	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 internship and for the conduct of Viva-Voce on internship.
170MT4.2	Failing to undergo Internship: Internship is one of the head of passing. Completion
	of internship is mandatory. If any student fails to undergo/complete the internship,
	he/she shall be considered as failed in that Course and shall not be permitted to
	appear for SEE in that Course. However, student shall appear for SEE after satisfying the conditions prescribed for Internship. The reappearance shall be
	considered as an attempt.
17OMT5.0	Seminar and Project
170MT5.1	Seminar: Seminar is one of the head of passing.
	i) Each candidate shall deliver seminar as per the Scheme of Teaching and
	Examination on the topics chosen from the relevant fields for about 30 minutes.
	ii) The Head of the Department shall make arrangements for conducting seminars
	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 three faculty from the
	Department and the senior most acting as the
	Chairman/Chairperson. [To be read along with 17OMT8.8]
170MT5.2	Project Work: Project is one of the head of passing.
	Project work shall preferably be on individual basis.
	The candidate shall submit a soft copy (CD) of the dissertation work to the
	University. The CD should contain the entire Dissertation in monolithic form as a
	PDF file (not separate chapters).
	The Guide, after checking the report for completeness shall upload the Dissertation
	along with name, University Seat Number, address, mobile number of the candidate,
	etc., as prescribed in form available on online Dissertation evaluation portal. The
	guide shall submit a panel of four approved University Examiners for evaluation of dissertation.
170MT5.3	Plagiarism Check
1/0/113.5	Once the Guide uploads the dissertation, the same shall be linked for plagiarism
	check. The allowable plagiarism index is less than or equal to 25%.
	If the check indicates a plagiarism index greater than 25% :
	• for the first time, the candidate has to resubmit the dissertation, to the
	Registrar (Evaluation), Regional Center/Head Office, VTU along with the penal fees of Rs. 2000/- (Rupees Two thousand only) in person.
	<ul> <li>for the second time, the candidate has to resubmit the dissertation along with</li> </ul>
	the penal fees of Rs. 4000/- (Rupees four thousand only) in person.
	• If the dissertation is rejected again during second resubmission with
	reference to plagiarism index, the candidate shall redo the project and
	submit after a semester's time subject to provisions of 17OMT1.5.
170MT5.4	The dissertation shall be sent through email for evaluation to two examiners - one
1/01113.4	internal examiner (guide/co-guide) and one external examiner (first) appointed by
	the University. The evaluation of the dissertation shall be made independently by
	each examiner.

170MT5.5	Examiners shall evaluate the dissertation normally within a period of not more than
	two weeks from the date of receipt of dissertation through email.
17OMT5.6	The examiners shall independently submit the marks through the specified link.
170MT5.7	Average of the marks awarded by the two Examiners shall be the final evaluation
	marks for the Dissertation.
170MT5.8	<ul> <li>(a) Viva-voce examination of the candidate shall be conducted as per 17OMT5.10, if the dissertation work and the reports are accepted by the external examiner (first).</li> <li>(b) If the external examiner (first) finds that the dissertation work and the report are not up to the expected standard and the minimum passing marks cannot be awarded, the dissertation shall not be accepted for SEE. The external examiner (first) can recommend for modifications/suggestions of dissertation or totally reject the dissertation. The examiner shall offersuggestions for improvement of the dissertation for resubmission or list the reasons for rejection of the dissertation incorporating the modifications/suggestions [as per 170MT5.8(b)] of the external examiner (first) and satisfying the provision 170MT5.8(b)] of the external examiner (first) or evaluation. If the dissertation and the report are accepted by the external examiner (first), Viva-voce examination of the candidate shall be conducted as per 170MT5.10.</li> <li>(d) In case of rejection of Dissertation by the external examiner (first), the same will be sent to a Second Examiner (external) approved by the University. The decision of the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 170MT5.10. If the dissertation and the report are accepted by the Second Examiner (external), Viva-voce examiner (external) rejects the dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation subject to provisions of 170MT5.8 (b)], the same will be sent to a Second Examiner (caternal) is final. If the dissertation subject to provisions of 170MT5.8 (b)], the same will be sent to a Second Examiner (external) examiner (first) [as per 170MT5.8 (b)], the same will be sent to a Second Examiner (first) (as per 170MT5.8 (b)], the same will be sent to a Second Examiner (first) as per 170MT5.8 (b)], the same will be sent to a Second Examiner (first) (as per 170MT5.8 (b)], the s</li></ul>
	another topic of dissertation under the same Guide or new Guide if necessary. In such an event, the report shall be submitted within four years in case of full time student and six years in case of part time student respectively from the date of admission to the Programme.
1503 555 40	
17OMT5.10	Viva-voce examination of the candidate shall be conducted by the external examiner and internal examiner/ guide.
	Internal examiner as per the direction of the University shall have to arrive at a mutually convenient date for the conduct of viva-voce examination of the concerned candidate with intimation to the Registrar (Evaluation). In case one of the examiners expresses his/her inability to attend the viva-voce, the Registrar (Evaluation) shall appoint a substitute examiner in his/her place.
17OMT5.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.

170MT5.12		The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.							
170MT5.13	Examination fee as fixed from time to time by the University for evaluation of dissertation report and conduct of viva voce shall be remitted through the Head of the Institution as per the instructions of Registrar (Evaluation) from time to time.								
17OMT5.14		The candidates who fail to submit the dissertation work within the stipulated time have to submit the same at the time of next ensuing examination.							
17OMT6.0	Computation	n of SGPA a	nd CGP.	A					
17OMT6.1	to grades average be calcul (ii) The gradi	<ul> <li>(i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester, except for the first semester.</li> <li>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</li> </ul>							
	Level	Outstanding	Excellen t	Very Good	Good	Above Average	Average	Fail	
	Letter Grade	S	А	В	С	D	Е	F	
	Grade Points	10	9	8	7	6	4	00	
	Percentage of Marks	≥ 90	<90	< 80	< 70	< 60	<45	<42	
	Scored in a Course	(90 -100)	(80 -	(70 - 79)	(60 - 69)	(45 -	(42 - 44)	(0 - 41)	
	(iii) A student obtaining Grade F in a Course shall be considered failed and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his /her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts.								
17OMT6.2									

170MT6.2	ii) The CG	PA is als	o calculated ir	the same ma	nner taking into account all the Courses				
(continued)					a programme, i.e.,				
(commuted)	Ū.	•		semesters or	a programme, ne.,				
	$CGPA = \frac{\times}{\sum C_i}$								
	Where $S_i$ is the SGPA of the <i>i</i> <sup>th</sup> semester and $C_i$ is the total number of credits in the								
	Where <b>S</b> <sub>i</sub> is	the SGI	PA of the <i>i</i> <sup>ca</sup>	semester and	$G_i$ is the total number of credits in that				
	semester.								
	The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the								
	transcripts.								
	-	ı for Cor	nputation of S	SGPA and CO	<b>TPA</b>				
	Computation of SGPA								
	Illustration								
	Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)				
	Course 1	4	В	08	4 <b>×</b> 08 = 32				
	Course 2	4	D	06	4 × 06 = 24				
	Course 3	4	C	07	$4 \times 07 = 28$				
	Course 4	3	S	10	$3 \times 10 = 30$				
	Course 5	3	E	04	$3 \times 04 = 12$				
	Course 6	3	D	06	$3 \times 06 = 18$				
	Course 7	2	A	09	$2 \times 09 = 18$				
	Course 8 Total	$\frac{2}{25}$	D	06	$2 \times 06 = 12$ 174				
					1/4				
	Thus, SGP	A = 1/4/2	5 = 0.90						
		N. 0							
	Illustration Course	n No.2 Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)				
	course	Crean	Grade Retter	Grade point					
	Course 1	4	В	08	$4 \times 08 = 32$				
	Course 2	4	D	06	$4 \times 06 = 24$				
	Course 3	4	C	07	$4 \times 07 = 28$				
	Course 4	3	S	10	$3 \times 10 = 30$				
	Course 5	3	F	00	$3 \times 00 = 00$ $3 \times 06 = 18$				
	Course 6 Course 7	2	D	06	$3 \times 00 = 18$ $2 \times 09 = 18$				
	Course 7 Course 8	2	A D	09	$2 \times 09 = 18$ $2 \times 06 = 12$				
	Total	25			162				
	Thus, SGP								
	If a Student below. Illustration		etter grade C du	aring reappeara	nce then the SGPA is Calculated as shown				
	Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)				
	Course 5	3	С	07	7× 03 = 21				
			Credit Points of	of first Attempt)	+ Credit Points of subsequent attempt				
	=162 + 21 =								
			mester $= 25$						
	Thus, SGP	A = 183/25	5=7.32						

(continued)	Illustration No.3										
	Course	Credit	Grade letter	Grade point	Credit Po	int = (Credit x Grade	e)				
	Course 1	4	В	08		$4 \ge 08 = 32$	)				
	Course 2	4	D	06	$4 \times 06 = 32$ $4 \times 06 = 24$						
	Course 3	4	C	07	$4 \times 07 = 28$						
	Course 4	3	S	10	$3 \times 10 = 30$						
	Course 5	3	А	09	3 x 04 = 18						
	Course 6	3	D	06	3 x 06 = 18						
	Course 7	2	А	09	2 x 09 = 18						
	Course 8	2	D	06	2 x 06 = 12						
	Total	25				189					
	Thus, SGPA	A= 189/25=	7.56								
	CGPA (fro	m illustra	tiions 2 and 3)	$=\frac{25 \times 7.32 + 2}{50}$	5 × 7.56	7.44					
	Semester		I		II	III	IV				
	Credits of	the semest	ter 24		24	24	24				
	SGPA		7.08		6.08 7.92 9						
	$Thus CGPA = \frac{(24 \times 7.08 + 24 \times 6.08 + 24 \times 7.92 + 24 \times 9.24)}{96} = 7.58$										
17OMT6.3	Transcrip	ot Forma	t: Based on the	e secured lette	r grades, g	Transcript Format: Based on the secured letter grades, grade points, SGPA and CGPA,					
1/01/11/02	the transcript for each semester and a consolidated transcript indicating the performance										
	the transcr	ript for ea	ch semester a		ted transcr	-					
		-	ch semester an Ill be issued.		ted transcr	-					
170MT7.0	in all seme	esters sha	ll be issued.	nd a consolida		ipt indicating the					
170MT7.0	in all seme	esters sha	ll be issued. <b>ades into Per</b>	nd a consolida	Declaratio	ipt indicating the	e performanc				
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17OMT8.3	The CIE marks in a theory course, for 10 marks, shall be based on two tests covering the entire syllabus. An additional test may be conducted for the needy students to provide an opportunity to improve their CIE Marks before the end of the semester. The CIE marks shall be the average of the marks scored in at least two of the above tests. [To be read along with 17OMT8.8]
17OMT8.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 17OMT8.2 (b) shall be preserved by the Principal / Head of the Department for at least six months after the announcement of University results and made available for verification at the directions of the Registrar (Evaluation).
17OMT8.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.
17OMT8.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.
17OMT8.7	The CIE marks shall be sent to the university by the Principals well in advance before the commencement of Semester End Examinations. No corrections of the CIE marks shall be entertained after the submission of marks list to the University.
17OMT8.8	Candidates obtaining less than 50% of the CIE marks in any course (Theory/Laboratory/Seminar/Internship/Project) shall not be eligible to appear for the University examination in that course/s. In such cases, the Head of the Department shall arrange for the improvement of CIE marks in the course/ Laboratory whenoffered in the subsequent semester subject to the provision of 17OMT1.5.
17OMT8.9	<b>Semester End Evaluation:</b> There shall be a University examination at the end of each semester.
17OMT8.10	There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
17OMT8.11	If the difference between the marks awarded by the two Examiners is not more than 15 per cent of the maximum marks, the marks awarded to the candidate shall be the average of two evaluations.
17OMT8.12	If the difference between the marks awarded by the two Examiners is more than 15 per cent of the maximum marks, the answer booklet shall be evaluated by a third Examiner appointed by the university. The average of the marks of nearest two valuations shall be considered as the marks secured by the candidate. In case, if one of the three marks falls exactly midway between the other two, then the highest two marks shall be taken for averaging.
17OMT9.0	Eligibility for Passing and Award of Degree
17OMT9.1	<ol> <li>A student who obtains any grade S to E shall be considered as passed and if a student secure F grade in any of the head of passing he/she has to reappear in that head for the SEE.</li> <li>A student will be declared successful at the Semester-end or Programme-end only on obtaining each CGPA greater than or equal to 5.00, with none of the Courses registered in a Semester or for the Degree Award remaining with F Grade.</li> <li>In case, the CGPA fall below 5.00, the student shall be permitted to appear again for SEE for required number of courses (other than seminar and Practical) and times, subject to the provision of 17OMT1.5, to make up CGPA greater than or equal to 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from The Registrar (Evaluation) to reappear in the subsequent SEE.</li> </ol>

170MT9.2	For a pass in a theory course, the student shall secure minimum of 40% of the maximum
	marks prescribed in the Semester End Examination and 50% of marks inCIE and 42% in the aggregate of CIE and SEE marks. The Minimum Passing Grade in
17OMT9.3	For a pass in Internship/Practical/Project/Dissertation/Viva-voce examination, astudent shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/Practical/Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
17OMT9.4	For a pass, a candidate shall obtain a minimum of 50% of maximum marks in Seminar.
17OMT9.5	IV semester Full time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The IV semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 17OMT11.2] VI semester Part time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 17OMT11.2]
17OMT9.6	A candidate may at his/her desire reject his/her latest semester results of University examination in respect to all courses of that semester. However, in the IV semester the rejection shall not include the Project work. Rejection shall be permitted only once during the entire Programme. The CIE marks of the rejected semester shall remain the same.
170MT9.7	Rejection of results of the University examination including CIE marks is not
1/0//19.7	If the rejection of the University examination results of the semester happens to be of an odd semester, the candidate can take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate cannot take admission to the next odd semester.
17OMT9.8	Application for rejection shall be submitted to the Registrar (Evaluation) through the Principal of the college, within thirty days from the date of announcement of results.
17OMT9.9	A candidate, who opts for rejection of results of a semester shall be eligible for the award of class and distinction, but shall not be eligible for the award of rank.
17OMT9.10	<b>Eligibility for Award of Degree:</b> A student shall be declared to have completed the degree of Master of Technology, provided the student has undergone the stipulated course work as per the regulations and has earned the prescribed Credits, as per the Scheme of Teaching and Examination, of the programme.
17OMT10.0	Attendance Requirement
17OMT10.1	<ul> <li>Registration and Enrolment: <ol> <li>Except for the first semester, registration for a semester will be done during a specified week before the semester end examination of the previous semester.</li> <li>The registration sheet should have the Candidate details, course name and code, number of credits and category (core/elective/audit) for each course of that semester.</li> <li>The Faculty Adviser, assigned by the Head of the Department, will counsel the students in planning their courses of study and provide guidance, motivation, emotional support, and enable the mentees to reach the desired professional and</li> </ol> </li> </ul>
170MT10.2	career goals. Courses of each semester shall be treated as a separate unit for calculation of the
	attendance.
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170MT10.3	The candidate has to put in a minimum attendance of 85% in each course with a provision
	to condone 10% of the attendance by the Vice-Chancellor on the specific
	recommendation 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 necessary documents in support are to be submitted along with
	recommendations to condone the shortage.
17OMT10.4	In case of late admission, approved by competent authority (DTE/VTU), to I semester
	of the programme the attendance shall be reckoned from the date of admission to the programme.
170MT10.5	A candidate, who does not satisfy the attendance requirement (in one or more Courses)
1/01/1110.5	as mentioned in 17OMT10.3 shall not be eligible to appear for the SEE 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.
170MT10.6	Principals of the concerned colleges shall notify regularly, the list of candidates who
	fall short of attendance.
17OMT10.7	The list of the candidates falling short of attendance shall be sent to the University at
1203 5714 0	least one week prior to the commencement of the examination.
17OMT11.0	Promotion and Eligibility
170MT11.1	Promotion:
	There shall be no restriction for promotion from an odd semester to the next even
1203/0211 0	semester, provided the student has fulfilled the attendance requirement.
170MT11.2	(a) Candidates, under full time programme, with a maximum of two backlog courses
1	of tiret your chall be aligible for taking admission to second your (111 semester)
	of first year shall be eligible for taking admission to second year (III semester). (b) i. Candidates, under part time Programme, with one backlog subject of an academic
	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li></ul>
	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li><li>ii. For admission to V semester, Candidates under part time Programme must have</li></ul>
	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li><li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li></ul>
	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li><li>ii. For admission to V semester, Candidates under part time Programme must have</li></ul>
	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li><li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li></ul>
170MT11.3	<ul><li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li><li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li></ul>
170MT11.3	<ul> <li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li> <li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li> <li>(c) Each credit course shall be treated as a head of passing.</li> </ul>
	<ul> <li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li> <li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li> <li>(c) Each credit course shall be treated as a head of passing.</li> </ul> The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.
170MT12.0	<ul> <li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li> <li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li> <li>(c) Each credit course shall be treated as a head of passing.</li> </ul> The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree. <b>Temporary Discontinuation/Break in the Program</b>
	<ul> <li>(b) i. Candidates, under part time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li> <li>ii. For admission to V semester, Candidates under part time Programme must have completed all the courses of I and II semesters.</li> <li>(c) Each credit course shall be treated as a head of passing.</li> </ul> The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree. <b>Temporary Discontinuation/Break in the Program</b> (a) If a candidate, for any reason, temporarily discontinues the Programme or take abreak
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17OMT12.1 (continued)	(b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.
170MT13.0	Award of Prizes, Medals and Ranks
170MT13.1	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.
170MT13.2	<ol> <li>(1) For award of rank in a Specialization of Master of Technology, the CGPA secured by the student from I to IV semester is considered.</li> <li>(2) A student shall be eligible for a rank at the time of award of degree of Master of Technology, provided the student         <ul> <li>a. Is not a repeater in any semester</li> <li>b. Has not rejected the results of any semester.</li> <li>c. Has passed I to IV semester in all the courses in first attempt only</li> <li>(3) The total number of ranks awarded shall be 10% of total number of students appeared in IV semester subject to a maximum of 10 ranks in a Specialization.</li> <li>(4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the IV semester examination.</li> </ul> </li> <li>Illustration:         <ul> <li>(a) If 150 students appeared for the IV semester in VLSI Design and Embedded Systems Branch, the number of ranks to be declared in VLSI Design and Embedded Systems will be 10.</li> <li>(b) If 84 students appeared for the IV semester in Nano Technology, the number of ranks to be declared for Nano Technology will be 08.</li> <li>(c) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.</li> <li>(5) Students under Part time Programme are not considered for Rank declaration.</li> </ul> </li> </ol>
170MT13.3	Ranks are awarded based on the merit of the students as determined 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.
17OMT14.0	Applicability and Power to Modify
170MT14.1	The regulations governing the Degree of Master of Technology of Visvesvaraya Technological University shall be binding on all concerned.
170MT14.2	<ul><li>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li><li>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.</li></ul>



### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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REGULATIONS GOVERNING THE DEGREE OF MASTER OF TECHNOLOGY (M.Tech.) UNDER OUTCOME BASED EDUCATION (OBE) AND CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME (Full-time and Part-time) Effective from academic year 2018 -19

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2018 -19

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Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time)

### Effective from academic year 2018 -19

### **Definitions of Keywords**

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

- Programme: Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ seminars/ Internship/ assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of M.Tech Degree Programme, like Power Electronics, Structures, Machine Design, 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 semester may be scheduled from August and even semester from February of the year.
- 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/ 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 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, Counselor 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 weightage for the different components being fixed at the University level.
- **12)** Semester end examinations (SEE): Refers to examination conducted at the University level 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.

### Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2018 -19

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

Table 1: Credit Values							
Theory/Lectures (L)	Laboratory/Practical (P)	Credits	Total				
(hours/week/Semester)	(hours/week/Semester)	(hours/week/Semester)	(L:T:P)	Credits			
4	0	0	4:0:0	4			
3	0	0	3:0:0	3			
2	2	0	2:1:0	3			
2	0	2	2:0:1	3			
2	2	2	2:1:1	4			
0	0	6	0:0:3	3			
NOTE: Activities like, practical training, study tour and participation in Guest lectures not to							
carry Credits.							

**17**) **Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 18OMT6.0]. The rubric 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.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale							
Letter Grade	S	А	В	С	D	Е	F
Grade Point	10	09	08	07	06	04	00

- **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 grade point (GP) and number of credits for a Course i.e., Credt points (CrP) = GP × Credits for the Course.
- 21) Semester Grade Point Average (SGPA): Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer:180MT6.0]

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2018 -19

- 22) Cumulative Grade Point Average (CGPA): Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 18OMT6.0]
- **23) Grade Card:** Refers to a certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester. 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 Master of Technology (M.Tech.)

Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

(Full-time and Part-time)

Effective from academic year 2018 -19

Clause	Particulars
180MT1.0	Title, Duration and Credits of the Programme of Study
180MT1.1	The Programme shall be called Master of Technology (Subject of Specialization),
	abbreviated as M.Tech. (Subject of Specialization).
180MT1.2	There shall be two categories of Programme:
	1) Full-time Programme (FT), and
	2) Part-Time Programme (PT)
180MT1.3	Full-time Programme: The Programme shall extend over a period of four semesters and
	each semester shall have 16 weeks duration.
180MT1.4	Part -Time Programme:
	(a) The Programme shall be of 6 semesters.
	(b) Each semester shall be 16 weeks duration.
	(c) First, second, third and fourth semesters shall comprise course work and fifth and
	Sixth semesters shall be same as that of III and IV Semesters of the Full-time
	Programme.
	<ul><li>(d) The candidate shall register for a maximum of three courses per semester.</li><li>(e) The candidates shall register for Laboratory course and Seminar in first and second</li></ul>
	semesters along with the regular three courses.
180MT 1.5	Maximum Duration for Programme Completion:
1001011 1.5	(a) A Full-time candidate shall be allowed a maximum duration of 4 years from the first
	semester of admission to become eligible for the award of Master's Degree, failing
	which he/she may discontinue the programme or register once again as a fresh
	candidate to I semester of the programme.
	(b) A Part -Time candidate shall be allowed a maximum of 6 years duration from the first
	semester of admission to become eligible for the award of Master's Degree, failing
	which he/she may discontinue the programme or register once again as a fresh
	candidate to I semester of the programme.
180MT1.6	Prescribed Number of Credits for the Programme:
	The number of credits to be completed for the award of degree shall be 88.
180MT1.7	The Calendar of events in respect of the Programme shall be notified by the University
	in advance.
18OMT2.0	Eligibility for Admission(As per the Government orders issued from time to time)
180MT2.1	Admission to I year/I semester Master of Technology Programme shall be open to all the
	candidates who have passed B.E./ B. Tech. Examinations of VTU or any other recognized
	University/ Institution. The decision of the Equivalence committee shall be the final in
	establishing the eligibility of candidates for a particular Programme.
	For the foreign degrees, Equivalence certificate from the Association of Indian
	Universities shall be a must.
	The candidates who have completed their degree through the distance mode education
	from any University (National or International) are not eligible for admission to M.Tech.
	Programs under any quota.

Regulations Governing the Degree of Master of Technology (M.Tech.)

Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

(Full-time and Part-time)

#### Effective from academic year 2018 -19

	Effective from academic year 2018 -19
180MT2.2	AMIE in respective branches shall be equivalent to B.E./ B. Tech. Programs of VTU for
	admission to M.Tech.
18 OMT2.3	Admission to M.Tech. Programme shall be open to the candidates (as per 180MT 2.1 and
	2.2) who have passed the prescribed qualifying examination with not less than 50 % of
	the marks in the aggregate of all the years of the degree examination. However, in the case
	of candidates belonging to SC/ST and Category I, the aggregate percentage of marksin the
	qualifying examinations shall not be less than 45%. Rounding off of percentage secured
	in qualifying examination is not permissible.
180MT2.4	
10010112.4	For admissions under GATE/ PGCET qualification and Roaster system of Government of Karnataka:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka
	(PGCET)/VTU/any other University on approval by Government of Karnataka.
	For admissions under Management Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka
	PGCET/VTU/any other University on approval by Government of Karnataka.
	Further, there shall be an Admissions Committee for PG Programme in each college for
	each branch of PG studies consisting of the Principal of the College as the Chairman,
	Head of the concerned Department, one senior faculty of the concerned Department as
	members. The Admissions Committee shall conduct the interview and select the
	candidates for admissions.
	For admissions under Sponsored Quota:
	The candidates should be GATE qualified or should have appeared for the Entrance
	Examination conducted by an authority recognized by Government of Karnataka
	PGCET/VTU/any other University on approval by Government of Karnataka.
180MT2.5	The candidates, who are qualified in the GATE Examination for the appropriate branch
10010112.5	of engineering, shall be given priority. They are exempted from taking Entrance
	Examination.
	In case a GATE qualified Candidate appears for entrance examination and become
	qualified to claim a seat under entrance examination quota, he/she will be considered in
	the order of merit along with other candidates appeared for the entrance examination.
180MT2.6	If sufficient number of GATE qualified candidates are not available, the remaining vacant
	seats shall be filled from amongst the candidates appeared for Entrance Examination in
	the order of merit.
180MT2.7	The intake under various categories (regular, sponsored candidates and SC/ST) shall be
	as sanctioned by the AICTE, State Government and VTU, from time to time.
18OMT2.8	Subject to the provisions of 18OMT2.1 and 18OMT2.2, members of the
	Teaching/Research Staff working in any Engineering College recognized by AICTE
	either in the State of Karnataka or outside and who have put in a minimum of 03 years
	of teaching experience on full-time basis in Engineering Colleges, Polytechnic
	institutions / any other institutions imparting Engineering education shall be eligible for
	admission to PG Programs under sponsored quota, if they are sponsored by the respective
	Institutions / DTE.

Regulations Governing the Degree of Master of Technology (M.Tech.)

#### Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

#### (Full-time and Part-time)

Effective from academic year 2018 -19
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	Effective from academic year 2018 -19						
180MT2.9	Subject to the provisions of 18OMT 2.1 and 18OMT 2.2, members working in the State						
	Government/ Central Government/ Quasi Government Organizations/ Public Sector						
	Industries / Reputed Private Industries, who have put in a minimum of 03 years of						
	working experience and sponsored by the concerned Organizations, shall also be eligible						
	to seek admissions to PG Programs against sponsored quota.						
	Preference for admission under 18OMT2.8 and 2.9 shall be given to candidates sponsored						
	by organizations of State and Central Governments.						
180MT2.10	Further that employment of Part-time students shall be in an establishment situated within the 40 km from the place of the institution to which the candidate is seeking admission.						
	the 40 km from the place of the institution to which the candidate is seeking admission.						
180MT2.11	Engineering graduates other than the Karnataka candidates shall obtain Eligibility						
	Certificate from VTU to seek admission to P.G. Programme in any of the colleges						
	(Autonomous or Non - Autonomous) affiliated to VTU.						
180MT2.12	Admission to vacant seats:						
	Seats remaining vacant (unfilled), after the completion of PG admission process by						
	Karnataka Examination Authority, shall be filled by the Institution by inviting						
	applications through Press notification. The seats shall be filled by Candidates preferably						
	who have valid GATE/ PGCET score. In the absence of such Candidates, admission shall						
	be based on merit in the entrance test conducted at the Institution level. An Admissions						
	Committee, consisting of the Principal of the College, Head of the concerned Department						
	and the subject experts, shall be in charge of admissions.						
180MT3.0	Courses						
180MT3.1	The curriculum of the Programme shall be any combination of following type of courses:						
	i) One Course on Mathematics supportive to the concerned programme in the first semester.						
	ii) Professional Core Courses (PCC) - relevant to the chosen specialization/ branch [May						
	be split into Hard (no choice) and Soft (with choice), if required]. The core course is						
	to be compulsorily studied by a student and is mandatory to complete the						
	requirements of a programme in a said discipline of study.						
	iii) Professional Electives Courses (PEC) - relevant to the chosen specialization/ branch:						
	these are the courses, which 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 / nurturing student skills.						
	iv) Open Electives Courses (OEC), from other technical and/ or emerging specialization						
	areas.						
	v) Project Work, Seminar.						
	vi) Audit Courses (AC):						
	(a) The Audit course can be any credit course offered by the program to which the						
	Candidate is admitted (other than the courses considered for completing the						
	prescribed program credits) or other programs offered in the institution, where the						
	student is studying.						

Regulations Governing the Degree of Master of Technology (M.Tech.)

#### Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

#### (Full-time and Part-time)

#### Effective from academic year 2018 -19

	Effective from academic year 2018 -19								
180MT3.1	(b) The students who are interested in audit courses can register for one audit course at								
(continued)	a time during II and IV semesters. Students who have registered to audit the courses,								
	considered on par with students registered to the same course for credit, have to								
	satisfy attendance and CIE requirements. However, they need not have to appear for								
	Set.								
	(c)Registration for any audit course, in writing, shall be completed at the beginning of II								
	and IV semesters. The Institution should intimate the Registrar (Evaluation) about the								
	registration at the beginning of the semester and obtain a formal approval for inclusion								
	of the audit course/s in the Grade card issued to the students.								
	ii) Internship: Preferably at an industry/R and D organization/IT company/ Government								
	organization of significant repute for a specified period mentioned in Scheme of								
	Teaching and Examination.								
18OMT4.0	Internship								
180MT4.1	Internship: The student shall undergo Internship as per the Scheme of Teaching and								
	Examination.								
	1. The internship shall be carried out in any industry/R&D Organization/Research								
	Institute/Institute of national and international repute/recognized national and								
	international Professional Bodies, Societies or Organizations.								
	2. The Department/college shall nominate a faculty to facilitate, guide and supervise								
	students under internship.								
	3. The students shall report the progress of the internship to the internal guide in								
	regular intervals and seek his/her advise.								
	4. The Internship shall be completed during the period specified in Scheme of								
	Teaching and Examination.								
	5. After completion of Internship, students shall submit a report to the Head of the								
	Department with the approval of both internal and external guides.								
	6. There will be 40 marks for CIE (Seminar: 20, Internship report: 20) and 60 marks								
	for Viva – Voce conducted during SEE. [To be read along with 18OMT8.8 and								
	8.9]								
	7. The internal guide shall award the CIE marks for seminar and internship report								
	after evaluation. He/she will also be the internal examiner for Viva - Voce								
	conducted during SEE.								
	8. The external guide from the industry shall be an examiner for the Internship viva-								
	voce examination. Viva-Voce on internship shall be conducted at the college and								
	the date of Viva-Voce shall be fixed in consultation with the external Guide. The								
	Examiners shall jointly award the Viva - Voce marks.								
	9. (i) In case the external Guide is not available or expresses his inability to conduct								
	viva voce, the Chief Superintendent shall be permitted to make alternate								
	arrangement. The examiner, in the order of preference, shall be an industry person								
	or a faculty of another institution chosen from the list of University examiners.								
	The same shall be intimated to the concerned BOE Chairperson.								
	(ii) In case the external Guide accepts to conduct viva-voce examination from								
	his/her workplace, it shall be arranged via Video/web conferencing/Webinar. The								
	external Examiner shall send the mutually agreed signed marks (evaluated for SEE								
	marks) list, soon after the examination, via email/any electronic media.								
	10. The students shall be permitted to carry out the internship anywhere in India or								
	abroad. The University shall not provide any kind of Financial Assistance to any								
	student for internship.								

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180MT4.2	<b>Failing to undergo Internship:</b> Internship is one of the head of passing. Completion of internship is mandatory. If any student fails to undergo/complete the internship, he/she shall be considered as fail in that Course and shall not be permitted to appear for SEE in that Course. However, such students shall appear for SEE after satisfying the conditions prescribed for Internship. The reappearance shall be considered as an attempt.
18OMT5.0	Seminar and Project
180MT5.1	<ul> <li>Seminar: Seminar is one of the head of passing.</li> <li>i) Each candidate shall deliver seminar as per the Scheme of Teaching and Examination on the topics chosen from the relevant fields for about 30 minutes.</li> <li>ii) The Head of the Department shall make arrangements for conducting seminars 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 three faculty from the Department and the senior most acting as the Chairman/Chairperson. [To be read along with 18OMT8.8]</li> </ul>
180MT5.2	<ul> <li>Project Work: Project is one of the head of passing.</li> <li>Project work shall preferably be on individual basis.</li> <li>The candidate shall submit a soft copy (CD) of the dissertation work to the University. The CD should contain the entire Dissertation in monolithic form as a PDF file (not separate chapters).</li> </ul>
	The Guide, after checking the report for completeness shall upload the Dissertation along with name, University Seat Number, address, mobile number of the candidate, etc., as prescribed in the form available on online Dissertation evaluation portal. The guide shall submit a panel of four approved University Examiners for evaluation of dissertation.
180MT5.3	<ul> <li>Plagiarism Check</li> <li>Once the Guide uploads the dissertation, the same shall be linked for plagiarism check. The allowable plagiarism index is less than or equal to 25%.</li> <li>If the check indicates a plagiarism index greater than 25% : <ul> <li>for the first time, the candidate has to resubmit the dissertation, to the Registrar (Evaluation), Regional Center/Head Office, VTU along with the penal fees of Rs. 2000/- (Rupees Two thousand only) in person.</li> <li>for the second time, the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (Rupees four thousand only) in person.</li> <li>If the dissertation is rejected again during second resubmission with reference to plagiarism index, the candidate shall redo the project and submit after a semester's time subject to provisions of 18OMT1.5.</li> </ul> </li> </ul>
180MT5.4	The dissertation shall be sent through email for evaluation to two examiners - one internal examiner (guide/co-guide) and one external examiner (first) appointed by the University. The evaluation of the dissertation shall be made independently by each examiner.
180MT5.5	Examiners shall evaluate the dissertation normally within a period of not more than two weeks from the date of receipt of dissertation through email.
180MT5.6	The examiners shall independently submit the marks through the specified link.
180MT5.7	Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.

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18OMT5.8	(a) Viva-voce examination of the candidate shall be conducted as per 18OMT5.10, if the dissertation work and the reports are accepted by the external examiner (first).
	(b) If the external examiner (first) finds that the dissertation work and the report are not up to the expected standard and the minimum passing marks cannot be awarded, the dissertation shall not be accepted for SEE.
	The external examiner (first) can recommend for modifications/suggestions of dissertation or totally reject the dissertation. The examiner shall offer suggestions for improvement of the dissertation for resubmission or list the reasons for rejection of the dissertation.
	(c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 18OMT5.8 (b)] of the external examiner (first) and satisfying the provision 18OMT5.3shall be sent again to the external examiner (first) for evaluation. If the dissertation and the report are accepted by the external examiner (first), Viva-voce examination of the candidate shall be conducted as per 18OMT5.10.
	(d) In case of rejection of Dissertation by the external examiner (first), the same will be sent to a Second Examiner (external) approved by the University. The decision of the Second Examiner (external) is final. If the dissertation and the report are accepted by the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 180MT5.10. If the Second Examiner (external) rejects the dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation subject to provisions of 180MT1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.
	(e) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 18OMT5.8 (b)], the same will be sent to a Second Examiner (external) [not necessarily the same examiner considered under 18OMT5.8 (d)] approved by the University. The decision of the Second Examiner (external) is final. If the dissertation and the report are accepted by the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 18OMT5.10. If the Second Examiner (external) rejects the dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation subject to provisions of 18OMT1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.
180MT5.9	The candidate, whose Dissertation is rejected, can rework on the same topic or choose another topic of dissertation under the same Guide or new Guide if necessary. In such an event, the report shall be submitted within four years in case of full-time student and six years in case of part-time student respectively from the date of admission to the Programme.
180MT5.10	Viva-voce examination of the candidate shall be conducted by the external examiner and internal examiner/guide. Internal examiner as per the direction of the University shall have to arrive at a mutually convenient date for the conduct of viva-voce examination of the concerned candidate with an intimation to the Registrar (Evaluation). In case one of the examiners expresses his/her inability to attend the viva-voce, the Registrar (Evaluation) shall appoint a substitute examiner in his/her place.
180MT5.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching and examination.
180MT5.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.

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#### Effective from academic year 2018 -19 180MT5.13 Examination fee as fixed from time to time by the University for evaluation of dissertation report and conduct of viva voce shall be remitted through the Head of the Institution as per the instructions of Registrar (Evaluation) from time to time. 180MT5.14 The candidates who fail to submit the dissertation work within the stipulated time have to submit the same at the time of next ensuing examination. **Computation of SGPA and CGPA** 180MT6.0 180MT6.1 (i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) 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 are as given below: Level Outstanding Excellent Very Good Good Above Average Fail Average С D F Letter Grade S А В Е 00 Grade Points 10 9 8 7 4 6 <90 < 70 Percentage of $\geq 90$ < 80 < 60 < 55 < 50 $\geq 80$ ≥70 ≥60 ≥50 Marks Scored $\geq 55$ in a Course (90 - 100)(80 - 89) (70 - 79) (60 - 69)(55 - 59) (50-54)(0 - 49)(iii) A student obtaining Grade F in a Course shall be considered fail and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his /her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts. 180MT6.2 Grade Point Averages: SGPA and CGPA: The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both being important academic performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. Both the equations together facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Thus, $SGPA = \frac{\sum [Course \ Credits \times Grade \ Points] \ for \ all \ the \ Courses \ in \ that \ Semester}{\sum [Course \ Credits \ ] \ for \ all \ the \ Courses \ in \ that \ Semester}$ $\Sigma$ [Course Credits × Grade Points] for all Courses excluding those with F and transitional grades until that Semester CGPA = - $\sum$ [Course Credits] for all Courses excluding those with F grades until that semester

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180MT6.2	Effective from academic year 2010 -17									
continued)	(a) SGPA and CGPA Calculations: An Illustrative Example for one academic year								emic year	
	Semester (Odd :I, Even: II)	Course Number		Credits	Grade		Grade Points	Credit Points	i	SGPA, CGPA
	I I I I	XX101 XX102 XX103 XX104	3:2 3:0 0:1	:0 = 5 :0 = 5 :0 = 3 :1 = 2	B Absent A F	t(F)	8 0 9 0	$5 \times 8 = 40  5 \times 0 = 00  3 \times 9 = 27  2 \times 0 = 00$	- SGP	$PA = \frac{117}{25}$
		XX105 XX106 Total	5:0 25	0 = 5 0 = 5 (18*)		otal	6 4	$5 \times 6 = 30$ $5 \times 4 = 20$ 117	= 4	. 68
			GPA of 3:1					ne courses under ider consideration $5 \times 7 = 35$ $4 \times 8 = 32$	n.	e. Considered for $PA = \frac{157}{25}$
	II II II	XX109 XX110 XX111	3:0 4:1 2:1	:0 = 3 :0 = 5 :1 = 4	D E A		6 4 9	$3 \times 6 = 18$ $5 \times 4 = 20$ $4 \times 9 = 36$	= 6	. <b>28</b> PA
	II         XX112 $2:0:0 = 2$ II         XX113 $0:2:0 = 2$ Total         25 (23*)				В	Total 157		=	$=\frac{(117+157)}{18+23}$ $= 274/41 = 6.68$	
	(23*): 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. If the Student secures letter grades as detailed below after reappearance to SEE, then the SGPA and CGPA shall be calculated as indicated below.									
	I I	XX102 XX104			D C		6 7	$5 \times 6 = 30$ $2 \times 7 = 14$	= = 1	PA (I Semester)  17 + 30 + 14  25  61/25 = 6.44
	II XX112 2:0:0 = 2				D		6	2 × 6 = 12	SGP = (1 = 1	PA (II Semester) 157 + 12)/25 69/25 = <b>6.76</b>
	CGPA at the end of the academic year after passing all the Courses of the twoconsecutive semesters under consideration $= \frac{(6.44 \times 25 + 6.76 \times 25)}{50} = 6.60 \blacksquare$									
	(b) CGPA Calculation of the Programme: An Illustrative Example									
	Semes					II		III		IV
	Credits of the semester SGPA			rer 24 7.00			24         20           8.50         9.20			20 6.86
		CGPA =	<u>(</u> 24 >	< 7.00 + 2	24 × 8.50	) + 20 88	) × 9.2	20 + 20 × 6.86	) = 7	7.88 ∎
					13					

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180MT6.3	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. ■
180MT7.0	Conversions of Grades into Percentage and Class Equivalence
	Conversion formula for the conversion of CGPA into percentage is given below:
	Percentage of marks secured, $P = [CGPA Earned - 0.75] \times 10$
	Illustration For A CGPA Of 8.20:
	$P = [CGPA Earned 8.2 - 0.75] \times 10 = 74.5 \%$
180MT7.1	Class Equivalence:
	After the conversion of final CGPA into percentage of marks (P), a graduating student
	is reckoned to have passed in
	(i) First Class with Distinction (FCD) if $P \ge 70\%$
	(ii) First Class (FC) if $P \ge 60\%$ but <70% and
	(iii) Second Class (SC) if $P < 60\%$ .
18OMT8.0	Continuous Internal Evaluation and Semester End Evaluation
180MT8.1	For each theory and practical paper, the CIE marks shall be 40.
100111011	For seminar and Project Phase –I, the CIE marks shall be 100.
	[To be read along with 18OMT8.8]
180MT8.2	CIE Marks shall be based on
	a) Tests (for 20 Marks) and
	b) Assignments, Quizzes, Simulations, Experimentations, Mini project, oral
	examinations, field work etc., (for 20 Marks) conducted in respective courses.
180MT8.3	The CIE marks in a theory course, for 20 marks, shall be based on two tests covering
	the entire syllabus. An additional test may be conducted for the needy students to provide
	an opportunity to improve their CIE Marks before the end of the semester. The CIE
	marks shall be the average of the marks scored in at least two of the above tests. [To be read along with 18OMT8.8]
18OMT8.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other
	documents relating to award of CIE marks under 18OMT8.2 (b) shall be preserved by the Principal / Head of the Department for at least six months from the date of
	announcement of University results and made available for verification at the directions
	of the Registrar (Evaluation).
180MT8.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher,
	Head of the Department and the Principal.
18OMT8.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall
	be incorporated before submitting to the University.
18OMT8.7	The CIE marks shall be sent to the university by the Principals well in advance before
	the commencement of Semester End Examinations. No corrections of the CIE marks
	shall be entertained after the submission of marks list to the University.
18OMT8.8	Candidates obtaining less than 50% of the CIE marks in any course
	(Theory/Laboratory/Seminar/Internship/Project) shall not be eligible to appear for the
	University examination in that course/s. In such cases, the Head of the Department shall arrange for the improvement of CIE marks in the course/ Laboratory when offered in the
	subsequent semester subject to the provision of 18OMT1.5.

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18OMT8.9	Semester End Evaluation: There shall be a University examination at the end of each
	semester.
18OMT8.10	There shall be double valuation of theory papers. The theory Answer booklets shall be
	valued independently by two examiners appointed by the University.
18OMT8.11	If the difference between the marks awarded by the two Examiners is not more than 15
	per cent of the maximum marks, the marks awarded to the candidate shall be the average
	of two evaluations.
180MT8.12	If the difference between the marks awarded by the two Examiners is more than 15 per
	cent of the maximum marks, the answer booklet shall be evaluated by a third Examiner
	appointed by the university. The average of the marks of nearest two valuations shall be
	considered as the marks secured by the candidate. In case, if one of the three marks falls
	exactly midway between the other two, then the highest two marks shall be taken for
180MT9.0	averaging.
180MT9.0 180MT9.1	<ul><li>Eligibility for Passing and Award of Degree</li><li>(1) A student who obtains any grade S to E shall be considered as passed and if a student</li></ul>
1801119.1	secures F grade in any of the head of passing he/she has to reappear in that head for the SEE.
	(2) A student shall be declared successful at the end of the Programme for the award of
	Degree only on obtaining CGPA $\geq$ 5.00, with none of the Courses remaining with F Grade.
	(3) In case, the CGPA fall below 5.00, the student shall be permitted to appear again
	for SEE for required number of courses (other than seminar and Practical) and times,
	subject to the provision of 18OMT1.5, to make up CGPA $\geq$ 5.0. The student should
	reject the SEE results of the previous attempt and obtain written permission from The
	Registrar (Evaluation) to reappear in the subsequent SEE.
18OMT9.2	For a pass in a theory course, the student shall secure minimum of 40% of the maximum
	marks prescribed in the Semester End Examination and 50% of marks in CIE and 50 %
	in the aggregate of CIE and SEE marks. The Minimum Passing Grade in a course is E.
18OMT9.3	For a pass in Internship/Practical/Project/Dissertation/Viva-voce examination, a student shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/Practical/Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
180MT9.4	For a pass, a candidate shall obtain a minimum of 50% of maximum marks in Seminar.
180MT9.5	IV semester Full-time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The IV semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 18OMT11.2]
	VI semester Part-time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 18OMT11.2]
18OMT9.6	A candidate may at his/her desire reject his/her latest semester results of University examination in respect to all courses of that semester. However, in the IV semester the rejection shall not include the Project work. Rejection shall be permitted only once during the entire Programme. The CIE marks of the rejected semester shall remain the same. Rejection of results of the University examination including CIE marks is not permitted.
	rejection of results of the Oniversity examination including CIE marks is not permitted.

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18OMT9.7	If the rejection of the University examination results of the semester happens to be of an odd semester, the candidate can take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate cannot take admission to the next odd semester.
18OMT9.8	Application for rejection shall be submitted to the Registrar (Evaluation) through the Principal of the college, within thirty days from the date of announcement of results.
18OMT9.9	A candidate, who opts for rejection of results of a semester shall be eligible for the award of class and distinction, but shall not be eligible for the award of rank.
180MT9.10 180MT10.0	<ul><li>Eligibility for Award of Degree:</li><li>A student shall be declared to have completed the degree of Master of Technology, provided the student has undergone the stipulated course work as per the regulations and has earned the prescribed Credits, as per the Scheme of Teaching and Examination, of the programme.</li><li>Attendance Requirement</li></ul>
18OMT10.1	<ul> <li>Registration and Enrolment: <ul> <li>i) Except for the first semester, registration for a semester will be done during a specified week before the semester end examination of the previous semester.</li> <li>ii) The registration sheet should have the Candidate details, course name and code, number of credits and category (core/elective/audit) for each course of that semester.</li> <li>iii) The Faculty Adviser, assigned by the Head of the Department, will counsel the students in planning their courses of study and provide guidance, motivation, emotional support, and enable the mentees to reach the desired professional and career goals.</li> </ul> </li> </ul>
180MT10.2	Courses of each semester shall be treated as a separate unit for calculation of the
	attendance.
18OMT10.3	The candidate has to put in a minimum attendance of 85% in each course with a provision to condone 10% of the attendance by the Vice-Chancellor on the specific recommendation 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 necessary documents in support are to be submitted along with recommendations to condone the shortage.
18OMT10.4	In case of late admission, approved by competent authority (DTE/VTU), to I semester of the programme the attendance shall be reckoned from the date of admission to the programme.
180MT10.5	A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 18OMT10.3 shall not be eligible to appear for the SEE 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.
18OMT10.6	Principals of the concerned colleges shall notify regularly, the list of candidates who fall short of attendance.
180MT10.7	The list of the candidates falling short of attendance shall be sent to the University at
10.03 5711.1.0	least one week prior to the commencement of the examination.
18OMT11.0	Promotion and Eligibility
180MT11.1	<b>Promotion:</b> There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.

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180MT11.2 180MT11.3	<ul> <li>(a) Candidates, under full-time programme, with a maximum of two backlog courses of first year shall be eligible for taking admission to second year (III semester).</li> <li>(b) i. Candidates, under part-time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.</li> <li>ii. For admission to V semester, Candidates under part-time Programme must have completed all the courses of I and II semesters.</li> <li>(c) Each credit course shall be treated as a head of passing.</li> <li>The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.</li> </ul>
180MT12.0	Temporary Discontinuation/Break in the Program
18OMT12.1	(a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from programme during any semester, he/she may be permitted to continue in the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining course work subject to the provision 18OMT1.5. Also the Candidates may have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Facultyof Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional course/s shall not be considered for the eligibilitycriterion prescribed for promotion. However, based on the individual cases, it is 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.
18OMT12.1 (continued)	(b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional course/s, if any, as per the decision of concerned Board of Studiesand approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.
18OMT13.0	Award of Prizes, Medals and Ranks
180MT13.1	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.
180MT13.2	<ul> <li>(1) For award of rank in a Specialization of Master of Technology, the CGPA secured by the student on completion of the programme is considered.</li> <li>(2) A student shall be eligible for a rank at the time of award of degree of Master of Technology, provided the student <ul> <li>a. Is not a repeater in any semester</li> <li>b. Has not rejected the results of any semester.</li> <li>c. Has passed I to IV semester in all the courses in first attempt only</li> </ul> </li> <li>(3) The total number of ranks awarded shall be 10% of total number of students appeared in IV semester subject to a maximum of 10 ranks in a Specialization.</li> <li>(4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the IV semester examination.</li> </ul> <b>Illustration:</b> <ul> <li>(a) If 150 students appeared for the IV semester in VLSI Design and Embedded Systems Branch, the number of ranks to be declared in VLSI Design and Embedded Systems will be 10.</li> </ul>

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180MT13.2	(b) If 84 students appeared for the IV semester in Nano Technology, the number of
(continued)	ranks to be declared for Nano Technology will be 08.
	(c) In case of fractional number of ranks, it is rounded to higher integer only when
	the first decimal place value is greater than or equal to 5.
	(5) Students under Part-time Programme are not considered for Rank declaration.
180MT13.3	Ranks are awarded based on the merit of the students as determined 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.
18OMT14.0	Applicability and Power to Modify
180MT14.1	The regulations governing the Degree of Master of Technology of Visvesvaraya
	Technological University shall be binding on all concerned.
180MT14.2	<ul><li>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li><li>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.</li></ul>



## Visvesvaraya Technological University



(State University Government of Karnataka Established as per VTU Act 1994) "Jnana Sangama", Belagavi - 590 018, Karnataka State

	Dr. A S. REGIST	ıde <sub>B.E.,</sub>	M.Tec	h., Ph.D.	
-					

Ref: VTU/BGM/Aca-OS-Cirs/2021-22/ 104

		1990 C	2498100 2405467	
Date :	-	6	APR	2021

#### NOTIFICATION

Sub: Regulations Governing the Degree of Master of Technology effective from the academic year 2020-21- reg...

Ref: 1. Joint Board of Studies approval 23-07-2020 2. Executive Council Resolution. No. 2.2.2. dt: 30-07-2020

Pursuant to the aforesaid Executive Council Resolution, the "Regulations

Governing the Degree of Master of Technology effective from the academic year 2020-21 are hereby notified.

These Regulations are uniformly applicable to Affiliated, Autonomous and Constituent Colleges under VTU

However, the evaluation pattern of Autonomous Colleges will be as per VTU guidelines issued from time to time.

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

Encl: as above

To,

# REGISTRAR

The of Principals of All Engineering (Affiliated/ Autonomous/ Constituent) 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 Director, Computer Network Centre, VTU, Belagavi- to upload on VTU website
- 5. PS to Registrar, VTU, Belagavi

6. All the concerned Special Officers and Case-workers of Academic Section, VTU, Belagavi

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590 018, Karnataka Phone: 0831 -2498100/2405468 Fax; 0831-2405467 E – Mail: registrar@vtu.ac.in, Web: www.vtu.ac.in



#### REGULATIONS GOVERNING THE DEGREE OF MASTER OF TECHNOLOGY (M.Tech.) Under Outcome Based Education (OBE) AND Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 -21

#### 2020

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21 (Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

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SATUNA. REGISTRAR Visvesvaraya Technological University BELAGAVI

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21 (Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

#### **Definitions of Keywords**

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

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

(2) Branch: Means Specialization or discipline of M.Tech Degree Programme, like Power Electronics, Structures, Machine Design, 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 semester may be scheduled from August and even semester from February of the year.

(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/ 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 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, Counselor 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 weightage for the different components being fixed at the University level.

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REGISTRAR Visves araya Technological University BELAGAVI.

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Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21 (Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

**(12)** Semester end examinations (SEE):Refers to examination conducted at the University level 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.

**(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 1s prescribed in terms of total number of credits to be earned by the students.

**(15) Credit Representation:** Refers to 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 Examination.

(16) Letter Grade: It is an index of the performance of students in a said Course. Grades are denoted

Table 1: Credit Values							
Theory/Lectures (L) (hours/week/Semester)	Tutorials (T) (hours/week/Semester)	Laboratory/Practical (P) (hours/week/Semester)	Credits (L:T:P)	Total Credits			
4	0	0	4:0:0	4			
3	0	0	3:0:0	3			
2	2	0	2:1:0	3			
2	0	2	2:0:1	3			
2	2	2	2:1:1	4			
0	0	6	0:0:3	3			

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

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 plus SEE). Grading is done by Absolute Grading [Refer: 200MT6.0]. The rubric 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.

Letter Grade	and corres	sponding	Grade Po	ints on a	typical 10	0 – Point :	scale
Letter Grade	S	A	В	С	D	E	F
Grade Point	10	09	08	07	06	04	00

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Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21 (Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

**(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 grade point (GP) and number of credits for a Course i.e.,

Credt points (CrP) =  $GP \times Credits$  for the Course.

**(21)** Semester Grade Point Average (SGPA): Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer: 200MT6.0]

**(22) Cumulative Grade Point Average (CGPA)**: Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 200MT6.0]

**(23) Grade Card:** Refers to a certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester. 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.

GISTRAR a Technological University Visvesvar BELAGAVI.

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

Clause	Particulars
200MT1.0	Title, Duration and Credits of the Programme of Study
200MT1.1	The Programme shall be called Master of Technology (Subject of Specialization), abbreviated as M.Tech. (Subject of Specialization).
200MT1.2	There shall be two categories of Programme: (i)Full-time Programme (FT), and (ii) Part-Time Programme (PT).
200MT1.3	<b>Full-time Programme</b> : The Programme shall extend over a period of four semesters and each semester shall have 16 weeks duration.
200MT1.4	<ul> <li>Part -Time Programme:</li> <li>(a) The Programme shall be of 6 semesters.</li> <li>(b) Each semester shall be 16 weeks duration.</li> <li>(c) First, second, third and fourth semesters shall comprise course work and fifth and Sixth semesters shall be same as that of III and IV Semesters of the Full-time Programme.</li> <li>(d) The candidate shall register for a maximum of three courses per semester.</li> <li>(e) The candidates shall register for Laboratory course and Seminar in first and</li> </ul>
200MT1.5	A Faculty/ Employee working on Full Time basis in an Institution/ Organization and pursuing/ pursued any Course conducted in the timing of Regular/ First Shift for the same duration as that of Regular Shift shall be considered as ineligible for the purpose of employment/ higher studies.
200MT1.6	Maximum Duration for Programme Completion:
200MT1.7	<ul> <li>(a) A Full-time candidate shall be allowed a maximum duration of 4 years from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme.</li> <li>(b) A Part -Time candidate shall be allowed a maximum of 6 years duration from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of become eligible for the award of Master's Degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester of the programme.</li> <li>Prescribed Number of Credits for the Programme:</li> </ul>
	The number of credits to be completed for the award of degree shall be 88.
200MT1.8	<ul> <li>Definition of Credits:</li> <li>01 hour Lecture (L) per week per semester =1 Credit</li> <li>02 hours Tutorial (T) per week per semester =1 Credit</li> <li>02 hours Practical/Laboratory/Drawing (P) per week per semester =1 Credit.</li> <li>Note:</li> <li>(i) Four credit Courses are designed for 50 hours Teaching – Learning process.</li> <li>(ii) Three credit Courses are designed for 40 hours Teaching – Learning process.</li> </ul>
200MT1.9	The Calendar of events in respect of the Programme shall be notified by the University in advance.
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	Visvesvaraya Technological University BELAGAVI.
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Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time)

Effective from academic year 2020 - 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

200MT2.0

200MT2.1

1 Admission to I year/I semester Master of Technology Programme shall be open to all the candidates who have passed B.E./ B. Tech. Examinations of VTU or any other recognized University/ Institution. The decision of the Equivalence

particular Programme. For the foreign degrees, Equivalence certificate from the Association of Indian Universities shall be a must.

committee shall be the final in establishing the eligibility of candidates for a

Eligibility forAdmission (As per the Government orders issued from time to time)

The candidates who have completed their degree through the distance mode education from any University (National or International) are not eligible for admission to M.Tech. Programs under any quota.

200MT2.2 AMIE in respective branches shall be equivalent to B.E./ B. Tech. Programs of VTU for admission to M.Tech.

(Certificate/ qualification awarded by professional bodies/ institution in the field of Technical Education will be treated as equivalent to B.E. / B.Tech. programmes of VTU for admission to M.Tech. programmes subjects to the notification / approval from Government of and AICTE)

200MT2.3 Admission to M.Tech. Programme shall be open to the candidates (as per 200MT 2.1 and 2.2) who have passed the prescribed qualifying examination with not less than50% of the marks in the aggregate of all the years of the degree examination. However, in the case of candidates belonging to SC/ST and Category I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Rounding off of percentage secured in qualifying examination is not permissible. (Reservation is applicable only for Karnataka Candidates).

200MT2.4

For admissions under GATE/ PGCET qualification and Roaster system of Government of Karnataka:

The candidates should be GATE qualified or should have appeared for the Entrance Examination conducted by an authority recognized by Government of Karnataka (PGCET)/VTU.

#### For admissions under Management Quota:

The candidates should be GATE qualified or should have appeared for the Entrance Examination conducted by an authority recognized by Government of Karnataka PGCET/VTU.

Further, there shall be an Admissions Committee for PG Programme in each college for each branch of PG studies consisting of the Principal of the College as the Chairman, Head of the concerned Department, one senior faculty of the concerned Department as members. The Admissions Committee shall conduct the interview and select the candidates for admissions.

#### For admissions under Sponsored Quota:

The candidates should be GATE qualified or should have appeared for the Entrance Examination conducted by an authority recognized by Government of Karnataka PGCET/VTU/any other University on approval by Government of Karnataka.

#### 200MT2.5

The candidates, who are qualified in the GATE Examination for the appropriate branch of engineering, shall be given priority. They are exempted from taking Entrance Examination.

In case a GATE qualified Candidate appears for entrance examination and become qualified to claim a seat under entrance examination quota, he/she will be considered in the order of merit along with other candidates appeared for the entrance examination.

REGISTRAR Visvesvaraya Technological University BELAGAVI.

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

- **200MT2.6** If sufficient number of GATE qualified candidates are not available, the remaining vacant seats shall be filled from amongst the candidates appeared for Entrance Examination in the order of merit.
- **200MT2.7** The intake under various categories (regular, sponsored candidates and SC/ST) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.
- **200MT2.8** Subject to the provisions of 200MT2.1 and 200MT2.2, members of the Teaching/Research Staff working in any Engineering College recognized by AICTE either in the State of Karnataka or outside and who have put in a minimum of 03 years of teaching experience on full-time basis in Engineering Colleges, Polytechnic institutions / any other institutions imparting Engineering education shall be eligible for admission to PG Programs under sponsored quota, if they are sponsored by the respective Institutions / DTE.
- **200MT2.9** Subject to the provisions of 200MT 2.1 and 200MT 2.2, members working in the State Government/ Central Government/ Quasi Government Organizations/ Public Sector Industries / Reputed Private Industries, who have put in a minimum of 03 years of working experience and sponsored by the concerned Organizations, shall also be eligible to seek admissions to PG Programs against sponsored quota. Preference for admission under 200MT2.8 and 2.9 shall be given to candidates sponsored by organizations of State and Central Governments.
- **200MT2.10** Further that employment of Part-time students shall be in an establishment situated within the 40km from the place of the institution to which the candidate is seeking admission.
- **200MT2.11** Engineering graduates other than the Karnataka candidates shall obtain Eligibility Certificate from VTU to seek admission to P.G. Programme in any of the colleges (Autonomous or Non - Autonomous) affiliated to VTU.

#### 200MT2.12 Admission to vacant seats:

Seats remaining vacant (unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/ PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. An Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts, shall be in charge of admissions.

200MT3.0 Courses

EGISTRAR Visvesvaraya Technological University BELAGAVI.

Regulations Governing the Degree of Master of Technology (M.Tech.)

Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

#### (Full-time and Part-time)

Effective from academic year 2020 - 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

200MT3.1

**3.1** The curriculum of the Programme shall be any combination of following type of courses:

(i)One Course on Mathematics supportive to the concerned programme in the first semester.

(ii)Professional Core Courses (PCC) - relevant to the chosen specialization/ branch [May be split into Hard (no choice) and Soft (with choice), if required]. The core course is to be compulsorily studied by a student and is mandatory to complete the requirements of a programme in a said discipline of study.

(iii)Professional Electives Courses (PEC) - relevant to the chosen specialization/ branch: these are the courses, which 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 / nurturing student skills.

(iv)Open Electives Courses (OEC), from other technical and/ or emerging specialization areas.

(v) Project Work, Seminar.

(vi)Audit Courses (AC):

(a) The Audit course can be any credit course offered by the program to which the Candidate is admitted (other than the courses considered for completing the prescribed program credits) or other programs offered in the institution, where Audit course/s are non-credit courses opted by students for self – enrichment. Though, the CIE and SEE are not required, the attendance to be compulsorily satisfied, for the audit course/s to find a place in the grade card without the mention of letter grade and credit.

(vii)Internship: Preferably at an industry/R and D organization/IT company/ Government organization of significant repute for a specified period mentioned in Scheme of Teaching and Examination.

**200MT3.2** A candidate shall exercise his /her option in respect of the electives and register for the same before the beginning of the concerned semester. The candidate may be permitted to opt for change of elective subject within 10 days from the date of commencement of the semester as per the calendar of the University.

**200MT3.3** Students shall be allowed to choose the elective/s, depending on their career plans, and there shall not be any restriction to the minimum number of students to be registered for an elective course.

200MT4.0 Internship

e. GISTRAR Visvesvaraya Technological University BELAGAVI

Regulations Governing the Degree of Master of Technology (M.Tech.)

Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme

(Full-time and Part-time)

#### Effective from academic year 2020 - 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

200MT4.1

Internship: The student shall undergo Internship as per the Scheme of Teaching and Examination.

(1)The internship shall be carried out in any industry/R&D Organization/Research Institute/Institute of national and international repute/recognized national and international Professional Bodies, Societies or Organizations.

(2) The Department/college shall nominate a faculty to facilitate, guide and supervise students under internship.

(3) The students shall report the progress of the internship to the internal guide in regular intervals and seek his/her advise.

(4) The Internship shall be completed during the period specified in Scheme of Teaching and Examination.

**(5)**After completion of Internship, students shall submit a report to the Head of the Department with the approval of both internal and external guides.

**(6)**There will be 40 marks for CIE (Seminar: 20, Internship report: 20) and 60 marks for Viva – Voce conducted during SEE. [To be read along with 200MT8.8 and 8.9]

(7) The internal guide shall award the CIE marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.

(8) The external guide from the industry shall be an examiner for the Internship viva-voce examination. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide. The Examiners shall jointly award the Viva - Voce marks.

(9) (i)In case the external Guide is not available or expresses his inability to conduct viva voce, the Chief Superintendent shall be permitted to make alternate arrangement. The examiner, in the order of preference, shall be an industry person or a faculty of another institution chosen from the list of University examiners. The same shall be intimated to the concerned BOE Chairperson.

(ii)In case the external Guide accepts to conduct viva-voce examination from his/her workplace, it shall be arranged via Video/web conferencing/Webinar. The external Examiner shall send the mutually agreed signed marks (evaluated for SEE marks) list, soon after the examination, via email/any electronic media.

(10) The students shall be permitted to carry out the internship anywhere in India or abroad. The University shall not provide any kind of Financial Assistance to any student for internship.

200MT4.2

**Failing to undergo Internship:** Internship is one of the head of passing. Completion of internship is mandatory. If any student fails to undergo/complete the internship, he/she shall be considered as fail in that Course and shall not be permitted to appear for SEE in that Course. However, such students shall appear for SEE after satisfying the conditions prescribed for Internship. The reappearance shall be considered as an attempt.

200MT5.0

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Seminar and Project

1. EGISTRAR Visvesvaraya Technological University BELAGAVI.

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 – 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

#### **200MT5.1** Seminar: Seminar is one of the head of passing.

(i)Each candidate shall deliver seminar as per the Scheme of Teaching and Examination on the topics chosen from the relevant fields for about 30 minutes. (ii)The Head of the Department shall make arrangements for conducting seminars 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 three faculty from the Department and the senior most acting as the Chairman/Chairperson. [To be read along with 200MT8.8]

#### **200MT5.2 Project Work:** Project is one of the head of passing.

Project work shall preferably be on individual basis.

The candidate shall submit a soft copy (CD) of the dissertation work to the University. The CD should contain the entire Dissertation in monolithic form as a PDF file (not separate chapters).

The Guide, after checking the report for completeness shall upload the Dissertation along with name, University Seat Number, address, mobile number of the candidate, etc., as prescribed in the form available on online Dissertation evaluation portal. The guide shall submit a panel of four approved University Examiners for evaluation of dissertation.

#### 200MT5.3 Plagiarism Check

Once the Guide uploads the dissertation, the same shall be linked for plagiarism check. The allowable plagiarism index is less than or equal to 25%.

If the check indicates a plagiarism index greater than 25% :

(i) for the first time, the candidate has to resubmit the dissertation, to the Registrar (Evaluation), Regional Center/Head Office, VTU along with the penal fees of Rs. 2000/- (Rupees Two thousand only) in person.

(ii) for the second time, the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (Rupees four thousand only) in person.

(iii)If the dissertation is rejected again during second resubmission with reference to plagiarism index, the candidate shall redo the project and submit after a semester's time subject to provisions of 200MT1.6.

- **200MT5.4** The dissertation shall be sent through email for evaluation to two examiners one internal examiner (guide/co-guide) and one external examiner (first) appointed by the University. The evaluation of the dissertation shall be made independently by each examiner.
- **200MT5.5** Examiners shall evaluate the dissertation normally within a period of not more than two weeks from the date of receipt of dissertation through email.

**200MT5.6** The examiners shall independently submit the marks through the specified link.

**200MT5.7** Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.

0 EGISTRAR Visvesvaraya Technological University BELAGAVI

Regulations Governing the Degree of Master of Technology (M.Tech.) Under Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time) Effective from academic year 2020 - 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

200MT5.8

(a) Viva-voce examination of the candidate shall be conducted as per 200MT5.10, if the dissertation work and the reports are accepted by the external examiner (first).

(b) If the external examiner (first) finds that the dissertation work and the report are not up to the expected standard and the minimum passing marks cannot be awarded, the dissertation shall not be accepted for SEE.

The external examiner (first) can recommend for modifications/suggestions of dissertation or totally reject the dissertation. The examiner shall offer suggestions for improvement of the dissertation for resubmission or list the reasons for rejection of the dissertation.

200MT5.8 (continued) (c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 200MT5.8 (b)] of the external examiner (first) and satisfying the provision 200MT5.3shall be sent again to the external examiner (first) for evaluation. If the dissertation and the report are accepted by the external examiner (first), Vivavoce examination of the candidate shall be conducted as per 200MT5.10.

(d) In case of rejection of Dissertation by the external examiner (first), the same will be sent to a Second Examiner (external) approved by the University. The decision of the Second Examiner (external) is final. If the dissertation and the report are accepted by the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 200MT5.10. If the Second Examiner (external) rejects the dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation subject to provisions of 200MT1.6. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.

(e) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 200MT5.8 (b)], the same will be sent to a Second Examiner (external) [not necessarily the same examiner considered under 200MT5.8 (d)] approved by the University. The decision of the Second Examiner (external) is final. If the dissertation and the report are accepted by the Second Examiner (external), Viva-voce examination of the candidate shall be conducted as per 200MT5.10. If the Second Examiner (external) rejects the dissertation and the report, the candidate shall have to carry out the dissertation work once again and submit the dissertation subject to provisions of 200MT1.6. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.

200MT5.9

The candidate, whose Dissertation is rejected, can rework on the same topic or choose another topic of dissertation under the same Guide or new Guide if necessary. In such an event, the report shall be submitted within four years in case of full-time student and six years in case of part-time student respectively from the date of admission to the Programme.

200MT5.10 Viva-voce examination of the candidate shall be conducted by the external examiner and internal examiner/ guide.

> Internal examiner as per the direction of the University shall have to arrive at a mutually convenient date for the conduct of viva-voce examination of the concerned candidate with an intimation to the Registrar (Evaluation). In case one of the examiners expresses his/her inability to attend the viva-voce, the Registrar (Evaluation) shall appoint a substitute examiner in his/her place.

200MT5.11

The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching and examination.

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(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

- **200MT5.12** The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.
- **200MT5.13** Examination fee as fixed from time to time by the University for evaluation of dissertation report and conduct of viva voce shall be remitted through the Head of the Institution as per the instructions of Registrar (Evaluation) from time to time.

**200MT5.14** The candidates who fail to submit the dissertation work within the stipulated time have to submit the same at the time of next ensuing examination.

200MT6.0 Computation of SGPA and CGPA

**200MT6.1** (i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) 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 are as given below:

Level	Outstanding	Excellen t	Very Good	Good	Above Average	Average	Fail
Letter Grade	S	А	В	C	D	E	F
Grade Points	10	9	8	7	6	4	00
Percentage of Marks	≥ 90	<90 ≥80	< 80 ≥70	< 70 ≥60	< 60 ≥ 55	< 55 ≥50	< 50
Scored in a Course	(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(55 - 59)	(50- 54)	(0 - 49)

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

#### 200MT6.2

Grade Point Averages:

**SGPA and CGPA**:The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both being important academic performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. Both the equations together facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Thus,

 $SGPA = \frac{\sum [Course \ Credits \ \times \ Grade \ Points] \ for \ all \ t \square e \ Courses \ in \ t \square at \ Semester}{\sum [Course \ Credits \ ] \ for \ all \ t \square e \ Courses \ in \ t \square at \ Semester}$ 

 $CGPA = \frac{\sum [Course \ Credits \ \times \ Grade \ Points] \ for \ all \ Courses \ excluding}{\sum [Course \ wit \square \ F \ and \ transitional \ grades \ until \ t \square \ at \ Semester} \frac{\sum [Course \ Credits] \ for \ all \ Courses \ excluding}{\sum [Course \ wit \square \ F \ grades \ until \ t \square \ at \ semester}$ 

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(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

20OMT6.2 (continued)

Semester (Odd :1, Even: II)	Course Number	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA	
I	XX101	5:0:0 = 5	В	8	$5 \times 8 = 40$		
Ι	XX102	3:2:0 = 5	Absent(F)	0	$5 \times 0$	44.7	
1	XX103	3:0:0 = 3	A	9	3×9	$SGPA = \frac{117}{25}$ = <b>4.68</b>	
1	XX104	0:1:1 = 2	F	0	$2 \times 0$		
1	XX105	4:1:0 = 5	D	6	5×6		
1	XX106	5:0:0 = 5	E	4	5 × 4		
18*): 7 or the (	Total Fotal credits calculation of	25 (18*) of the semester of of CGPA of the tr	Total excluding the c wo consecutive	redits c semes	of the courses u	nder F grade. Considered ideration.	
II	XX107	3:1:1 = 5	C	7	$5 \times 7$	$SGPA = \frac{157}{25}$	
Π	XX108	4:0:0 = 4	В	8	$4 \times 8$	$SGPA = \frac{1}{25}$	
II	XX109	3:0:0 = 3	D	6	3 × 6	= 6.28	
II	XX110	4:1:0 = 5	E	4	5 × 4		
11	XX111	2:1:1 = 4	A	9	4×9	CGPA	
		2:0:0 = 2	F	0	2 × 0		
	XXII/		1	V	270		
II	XX112		B	8	2 × 8	$-\frac{18+23}{18+23}$	
II II 23*): T or the	XX113 Total Fotal credits calculation of	0:2:0 = 2 $25 (23*)$ of the semester of CGPA of the t	excluding the c wo consecutive	e semes	ters under cons	ideration.	
II II for the S CGPA	XX113 Total Fotal credits calculation of tudent secur shall be calc	0:2:0 = 2 25 (23*) of the semester of CGPA of the t res letter grades a culated as indicat	T excluding the c wo consecutive as detailed below ed below.	otal redits c semes w after	157 of the courses u ters under cons reappearance t	= 274/41 = 6.68 nder F grade. Considered ideration. o SEE, then the SGPA ar	
II II 23*): 7 for the S	XX113 Total Fotal credits calculation of tudent secur	0:2:0 = 2 $25 (23*)$ of the semester of CGPA of the t es letter grades a	T excluding the c wo consecutive as detailed belo	otal redits c semes	157 of the courses u ters under cons	= 274/41 = 6.68 nder F grade. Considered ideration.	
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II II 23*): 1 for the S CGPA = I I II	XX113 Total Total credits calculation of tudent secur shall be calc XX102 XX104 XX104	0:2:0 = 2 $25 (23*)$ of the semester of CGPA of the t resoluted as indicat 3:2:0 = 5 $0:1:1 = 2$ $2:0:0 = 2$	T excluding the c wo consecutive is detailed below ed below. D C D	otal redits c semes w after 6 7 6	157 of the courses u ters under cons reappearance t $5 \times 6$ $= 30$ $2 \times 7$ $= 14$ $2 \times 6$ $= 12$	= 274/41 = 6.68 nder F grade. Considered ideration. o SEE, then the SGPA an $\frac{SGPA (I Semester)}{25} = 161/25 = 6.44$ $\frac{SGPA (II Semester)}{25} = 169/25 = 6.76$	
II II 23*): 1 for the S CGPA I II II CGPA	XX113 Total Total credits calculation of tudent secur shall be calc XX102 XX104 XX104 XX112 at the end	0:2:0 = 2 $25 (23*)$ of the semester of CGPA of the t resoluted as indicat 3:2:0 = 5 $0:1:1 = 2$ $2:0:0 = 2$ $d of the acade$	T excluding the c wo consecutive is detailed below ed below. D C D emic year af	otal redits conserved semes w after 6 7 6 ter po	157 of the courses u ters under const reappearance t $5 \times 6$ $= 30$ $2 \times 7$ $= 14$ $2 \times 6$ $= 12$ $assing all the (6.44 \times 25 + 1)$	= 274/41 = 6.68 ider F grade. Considered ideration. o SEE, then the SGPA and SGPA (I Semester) = $\frac{117 + 30 + 14}{25}$ = $161/25 = 6.44$ SGPA (II Semester) = $(157 + 12)/25$ = $169/25 = 6.76$ c Courses of the two $6.76 \times 25$	
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Effective from academic year 2020 - 21

(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

**200MT6.3 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.

#### 200MT7.0 Conversions of Grades into Percentage and ClassEquivalence

Conversion formula for the conversion of CGPA into percentage is given below: Percentage of marks secured, P = [CGPA Earned - 0.75] × 10 Illustration For A CGPA Of 8.20:

P = [CGPA Earned 8.2 - 0.75] × 10 = 74.5 %

200MT7.1 Class Equivalence:

After the conversion of final CGPA into percentage of marks (P), a graduating student is reckoned to have passed in (i) First Class with Distinction (FCD) if  $P \ge 70\%$ (ii) First Class (FC) if  $P \ge 60\%$  but <70% and (iii) Second Class (SC) if P < 60%.

200MT8.0 Continuous Internal Evaluation and Semester End Evaluation

- 200MT8.1 Continuous Internal Evaluation
  - For each theory and practical paper, the CIE marks shall be 40. For seminar and Project Phase –I, the CIE marks shall be 100. [To be read along with 200MT8.8]

## 200MT8.2 CIE Marks shall be based on (a) Tests (for 20 Marks) and (b) Assignments, Quizzes, Simulations, Experimentations, Mini project, oral examinations, field work etc., (for 20 Marks) conducted in respective courses.

- **200MT8.3** The CIE marks in a theory course, for 20 marks, shall be based on three tests covering the entire syllabus. An additional test may be conducted for the needy students to provide an opportunity to improve their CIE Marks before the end of the semester. The CIE marks shall be the average of the marks scored in three tests. [To be read along with 180MT8.8]
- **200MT8.4** The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 200MT8.2 (b) shall be preserved by the Principal / Head of the Department for at least six months from the date of announcement of University results and made available for verification at the directions of the Registrar (Evaluation).
- **200MT8.5** Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.
- **200MT8.6** The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.
- **200MT8.7** The CIE marks shall be sent to the university by the Principals well in advance before the commencement of Semester End Examinations. No corrections of the CIE marks shall be entertained after the submission of marks list to the University.
- **200MT8.8** Candidates obtaining less than 50% of the CIE marks in any course (Theory/Laboratory/Seminar/Internship/Project) shall not be eligible to appear for the University examination in that course/s. In such cases, the Head of the Department shall arrange for the improvement of CIE marks in the course/Laboratory when offered in the subsequent semester subject to the provision of 200MT1.6.

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- **200MT8.9** Semester End Evaluation: There shall be a University examination at the end of each semester.
- **200MT8.10** There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
- **200MT8.11** If the difference between the marks awarded by the two Examiners is not more than 15 per cent of the maximum marks, the marks awarded to the candidate shall be the average of two evaluations.
- **200MT8.12** If the difference between the marks awarded by the two Examiners is more than 15 per cent of the maximum marks, the answer booklet shall be evaluated by a third Examiner appointed by the university. The average of the marks of nearest two valuations shall be considered as the marks secured by the candidate. In case, if one of the three marks falls exactly midway between the other two, then the highest two marks shall be taken for averaging.

#### 200MT9.0 Eligibility for Passing and Award of Degree

200MT9.1

(1) A student who obtains any grade S to E shall be considered as passed and if a student secures F grade in any of the head of passing he/she has to reappear in that head for the SEE.

(2) A student shall be declared successful at the end of the Programme for the award of Degree only on obtaining CGPA  $\geq$  5.00, with none of the Courses remaining with F Grade.

(3) In case, the CGPA fall below 5.00, the student shall be permitted to appear again for SEE for required number of courses (other than seminar and Practical) and times, subject to the provision of 200MT1.6, to make up CGPA  $\geq$ 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from The Registrar (Evaluation) to reappear in the subsequent SEE.

- **200MT9.2** For a pass in a theory course, the student shall secure minimum of 40% of the maximum marks prescribed in the Semester End Examination and 50% of marks in CIE and 50% in the aggregate of CIE and SEE marks. The Minimum Passing Grade in a course is E.
- **200MT9.3** For a pass in Internship/Practical/Project/Dissertation/Viva-voce examination, a student shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/Practical/Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.

**200MT9.4** IV semester Full-time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The IV semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree. [To be read along with 200MT11.2]

VI semester Part-time candidates having backlog courses are permitted to upload the dissertation report and to appear for SEE. The VI semester grade card shall be released only when the candidate completes all the backlog courses and become eligible for the award of degree.[To be read along with 200MT11.2]

200MT9.5

A candidate may at his/her desire reject his/her latest semester results of University examination in respect to all courses of that semester. However, in the IV semester the rejection shall not include the Project work. Rejection shall be permitted only once during the entire Programme. The CIE marks of the rejected semester shall remain the same.

Rejection of results of the University examination including CIE marks is not permitted.

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(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

- **200MT9.6** If the rejection of the University examination results of the semester happens to be of an odd semester, the candidate can take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate cannot take admission to the next odd semester.
- **200MT9.7** Application for rejection shall be submitted to the Registrar (Evaluation) through the Principal of the college, within thirty days from the date of announcement of results.
- **200MT9.8** A candidate, who opts for rejection of results of a semester shall be eligible for the award of class and distinction, but shall not be eligible for the award of rank.

#### 200MT9.9 Eligibility for Award of Degree:

A student shall be declared to have completed the degree of Master of Technology, provided the student has undergone the stipulated course work as per the regulations and has earned the prescribed Credits, as per the Scheme of Teaching and Examination, of the programme.

#### 200MT10.0 Attendance Requirement

#### 200MT10.1 Registration and Enrolment:

(i)Except for the first semester, registration for a semester will be done during a specified week before the semester end examination of the previous semester.

(ii) The registration sheet should have the Candidate details, course name and code, number of credits and category (core/elective/audit) for each course of that semester.

(iii) The Faculty Adviser, assigned by the Head of the Department, will counsel the students in planning their courses of study and provide guidance, motivation, emotional support, and enable the mentees to reach the desired professional and career goals.

- **200MT10.2** Courses of each semester shall be treated as a separate unit for calculation of the attendance.
- **200MT10.3** The candidate has to put in a minimum attendance of 85 % in each course with a provision to condone 10 % of the attendance by the Vice-Chancellor on the specific recommendation of the Principal of the college where the candidate is studying, based on medical grounds, participation in NSS/NCC/Red Cross /Republic Day and Independence Day parades/University/ State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The necessary documents in support are to be submitted along with recommendations to condone the shortage.
- **200MT10.4** In case of late admission, approved by competent authority (DTE/VTU), to I semester of the programme the attendance shall be reckoned from the date of admission to the programme.
- **200MT10.5** A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 200MT10.3 shall not be eligible to appear for the SEE 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.
- **200MT10.6** Principals of the concerned colleges shall notify regularly, the list of candidates who fall short of attendance.
- **200MT10.7** The list of the candidates falling short of attendance shall be sent to the University at least one week prior to the commencement of the examination.
- 200MT11.0 Promotion and Eligibility(Vertical Progression)

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(Approved vide Executive Council Resolution Number. 2.2.2. dated 30-07-2020)

#### 200MT11.1 Promotion:

There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.

200MT11.2 (a) Candidates, under full-time programme, with a maximum of two backlog courses of first year shall be eligible for taking admission to second year (III semester).
 (b)(i)Candidates, under part-time Programme, with one backlog subject of an academic year shall be eligible for taking admission to next odd semester from even semester.

(ii)For admission to V semester, Candidates under part-time Programme must have completed all the courses of I and II semesters.

**200MT11.3** The Mandatory non – credit courses, if any, shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.

#### 200MT12.0 Provision to move to Integrated Ph.D. programme

**200MT12.1** (a)The candidates pursuing M.Tech. Degree at the University and who have successfully completed the prescribed common coursework of the first three semesters of study with a minimum CGPA of 7.75 out of 10 or 70 % aggregate marks and published research papers in 'SCOPUS/SCI/WoS Indexed Journals /UGC-CARE Approved Journals' or obtained/filed patents shall be eligible for upgradation to the I.Ph.D. Programme, subject to approval by the Admissions Committee.

(b) Integrated Ph.D. programme is a fulltime programme.

#### 200MT13.0 Temporary Discontinuation/Break in the Program

**200MT13.1** (a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from programme during any semester, he/she may be permitted to continue in the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining course work subject to the provision 200MT1.6. Also the Candidates may have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.

**(b)** Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, 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 criterion prescribed for promotion. However, based on the individual cases, it is 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.

200MT14.0 Award of Prizes, Medals and Ranks

EGISTRAR Visvesyaraya Technological University BELAGAVI.

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	isvesvaraya Technological University, Belagavi Regulations Governing the Degree of Master of Technology (M. Tech.)
Una	der Outcome based Education (OBE) and Choice Based Credit System (CBCS) Scheme (Full-time and Part-time)
(Ap	Effective from academic year 2020 – 21 proved vide Executive Council Resolution Number, 2.2.2. dated 30-07-2020)
200MT14.1	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.
200MT14.2	<ul> <li>(1) For award of rank in a Specialization of Master of Technology, the CGPA secured by the student on completion of the programme is considered.</li> <li>(2) A student shall be eligible for a rank at the time of award of degree of Master of Technology, provided the student</li> <li>(a) Is not a repeater in any semester</li> <li>(b) Has not rejected the results of any semester.</li> <li>(c) Has passed 1 to IV semester in all the courses in first attempt only</li> <li>(3) The total number of ranks awarded shall be 10% of total number of students appeared in IV semester subject to a maximum of 10 ranks in a Specialization.</li> <li>(4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the IV semester examination.</li> <li>IIIustration:</li> <li>(a) If 150 students appeared for the IV semester in VLSI Design and Embedded Systems Branch, the number of ranks to be declared in VLSI Design and Embedded Systems will be 10.</li> <li>(b) If 84 students appeared for the IV semester in Nano Technology, the number of ranks to be declared for Nano Technology will be 08.</li> <li>(c) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.</li> <li>(c) Students under Part-time Programme are not considered for Rank declaration.</li> </ul>
200MT15.0	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. Applicability and Power to Modify
200MT15.1	The regulations governing the Degree of Master of Technology of Visvesvaraya Technological University shall be binding on all concerned.
200MT15.2	<ul> <li>(i)Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li> <li>(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.</li> </ul>
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	PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068