

2.2 : Matters Concerning Board of Studies

Item No.2.2.1 of the Agenda of the
114th meeting of the Executive Council
to be held on 2nd August 2014

CONSIDERATION OF REVISION OF SCHEME & SYLLABUS OF B.E./B.ARCH. PROGRAMMES (2014-15)

The Scheme & Syllabus of UG Programmes were revised during the year 2010-11. As has been the policy of VTU to revamp the Scheme and Syllabus for every 4 years for UG Programme and two years for PG Program, the University has taken up this exercise in revising the Scheme & Syllabus from the academic year 2014-15.

In this connection, the Chairman, BOS of the concerned Boards of Studies have prepared and submitted the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes to be made effective from 2014-15. However, the same has already been uploaded in the University website for convenient of the students and teaching staff in view of urgency.

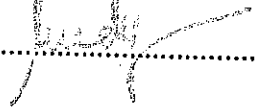
Hence, the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

Resolution No.2.2.1

The Executive Council resolved to accept the recommendation of the Academic Senate which recommended to approve the revision of Scheme & Syllabus of B.E. / B.Arch. Programmes from the academic year 2014-15.

Minutes of the 114th Executive Council Meeting held on 2-8-2014 A6

Item No.2.2.3	Consideration of the Regulations Governing the PG Programmes (M.Tech., M.Arch., MBA and MCA) under CBCS at VTU
	<p>The Choice Based Credit System (CBCS) has been introduced in the curriculum of PG courses of VTU since the academic year 2016-17. In this context, new Regulations needed to be framed for the PG programmes of VTU, in place of existing Regulations.</p> <p>The subject of finalisation of Regulations governing different PG programmes under CBCS was discussed in the Joint Board of Studies (JBOS) meeting held on 19-8-2016 and the JBOS has recommended to accept in principle the Common Regulations for all PG programmes, as placed. However, JBOS authorised the Special Invitee Dr. M. S. Shivakumar and Dr.Keshavamurthy, to take note of the observations made during the meeting and recast the CBCS regulations for M.Tech., MCA and MBA programmes of VTU, in line with the structure of already framed B.E./B.Tech. Regulations under CBCS, so that maximum uniformity is maintained across all the PG course regulations.</p> <p>Now, the draft Regulations governing the (i) Master of Technology (ii) Master of Architecture (iii) Master of Business Administration and (iv) Master of Computer Applications as finalised, are placed before the Executive Council for approval as per the provisions of Section 20(n) of VTU Act 1994. If approved the same will be implemented w.e.f 2017-18.</p> <p>The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.</p>
	<p>Resolution No.2.2.3</p> <p><i>The Executive Council resolved to accept the changes as suggested by the Academic Senate for the draft Regulations Governing the PG Programmes (M.Tech.,M.Arch. MBA, and MCA) under CBCS of VTU. However, the Executive Council resolved to refer these Regulations to the Joint Boards of Studies, as some more modifications were felt necessary, and finalise on the similar lines of Regulations governing CBCS UG Programmes.</i></p>

Executive Council Meeting held on 28-06-2017..... 

Published by:
and
Copyright

} Registrar
Visvesvaraya Technological University
"Jnana Sangama", Belgaum - 590 018
Karnataka, INDIA.

Year of Publication : 2014

Price : Rs. 30 /-

Regulations Governing

THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

- OB 1 TITLE AND DURATION OF THE COURSE**
- OB 1.1** The course shall be called the degree course in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
- OB 1.2** The course 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.
- OB 1.3** The calendar of events in respect of the course shall be fixed by the University from time to time.
- OB 1.4** The examination in all the subjects shall be conducted at the end of each semester for all the eight semesters.
- OB 2 ELIGIBILITY FOR ADMISSION**
(The Government orders issued from time to time in this regard shall prevail.)
- OB 2.1** Admission to I year/ I semester Bachelor Degree in Engineering/ Technology shall be open for the candidates who have passed the second year Pre-University or XII standard or equivalent examination recognized by the University.
- OB 2.2** In addition to OB 2.1, the candidate shall have secured not less than forty five percent (45%) marks in the aggregate with Physics and Mathematics as compulsory subjects, along with one of the following subjects, namely, Chemistry, Bio-Technology, Computer Science, Biology and Electronics.
- Provided that, the minimum marks for the purpose of eligibility shall be forty percent (40%) in optional subjects in case of candidates belonging to SC/ST and OBC candidates from Karnataka.
- Provided that, the candidate shall have studied and passed English as one of the subjects.

OB 2.3 (a) Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the candidates who are holders of a diploma or equivalent qualification as recognized by University who have secured not less than forty five percentage (45%) marks in the final year examination (fifth and sixth semesters) in the appropriate branch of engineering.

Provided that, in case of SC/ST and OBC candidates from Karnataka, the minimum marks for eligibility shall be forty percent (40%).

Provided further that, all the candidates seeking lateral entry shall also clear prescribed bridge courses as specified by the University.

OB 2.3 (b) Admission to Evening Course shall be open to a candidate

- i) who on the first day of the term notified by the University for the year of admission has not less than one-year professional experience in the branch of engineering / technology, in which the candidate holds a diploma, after passing diploma course.

Explanation: Professional experience means employment on regular basis

- a. in Government, Government undertaking, Public Sector undertaking, Corporations or
- b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or
- c. in 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 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.

OB 2.4 Those candidates who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka, or Engineering Diploma Examinations of the Board of Technical Education of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree course from Visvesvaraya Technological University, Belgaum, or from the Principal of concerned Engineering College of Karnataka State.

OB 3 ATTENDANCE REQUIREMENT

OB 3.1 Each semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each subject 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 candidate is studying, showing some reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops and paper presentation, etc.

OB 3.2 The basis for the calculation of the attendance shall be the period prescribed by the University by its calendar of events. For the first semester students, the same is reckoned from the date of admission to the course as per CET allotment.

OB 3.3 The students shall be informed about their attendance position periodically by the colleges so that the students shall be cautioned to make 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.

OB 3.4 A Candidate having shortage of attendance in one or more subjects shall have to repeat the whole semester and such candidates 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.

OB 3.5 **Temporary Discontinuation of course:**
A student, who wishes to temporarily discontinue the course and continue 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 candidate shall complete the course as per OB 6.2.

OB 4 **INTERNAL ASSESSMENT MARKS**

OB 4.1 There shall be a maximum of 25 Internal Assessment Marks in each theory or practical papers. For seminars, the Internal Assessment marks shall be 50.

OB 4.2 The Internal Assessment marks in a theory subject shall be based on two tests generally conducted at the end of 8 and 12 weeks of each semester. An additional test may be conducted for 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 OB 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 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.

OB 4.3 Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.

OB 4.4 If a candidate remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as A for the subject against the University Seat Number (USN) of the candidate in the marks sheet submitted to the University by the Principal of the College.

OB 4.5 In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test.

OB 4.6 i) The IA marks for I year Computer Aided Engineering / Drawing:
a) 15 marks for class work (sketching and Computer Aided Engineering drawing).
b) 10 marks for test in the same pattern as that of the main examination (better of the two tests)
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.

OB 4.7 The IA marks in the case of Project and seminar in the final year shall be based on the evaluation at the end of 8th semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of who shall be the project / seminar guide.

OB 4.8 The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory / Practical / 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 sheets shall bear the signature of the concerned Teacher/Teachers, Head of the Department and Principal.

OB 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.

OB4.10 (a) A candidate failing to secure a minimum of 50% of the IA marks (12/25) in Practical, 50% of marks in project work, shall not be eligible for the practical / project in the University examination.

OB4.10 (b) For seminars, the minimum requirement of IA marks shall be 40% of the maximum.

OB 4.11 Such candidates as mentioned in OB 4.10, shall repeat the laboratory work/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.

- OB 4.12** For theory subjects, there shall not be any minimum requirements of IA marks.
- OB 4.13** Improvement of IA marks shall not be allowed
- a. In theory subjects and
 - b. in Laboratory / Workshop / Seminar where the candidate has already secured the minimum required marks.
- OB 4.14** IA marks of those candidates to whom OB 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
- OB 4.15** IA marks shall reach the University before the commencement of examination. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.
- OB 5** **ELIGIBILITY FOR PASSING**
- OB 5.1 (a)** For a pass in a theory subject/drawing, the candidate 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.
- OB 5.1 (b)** For a pass in a Practical/Project/Viva-voce examination, a candidate shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Project/Viva-voce.
- OB 5.1 (c)** For a pass in Seminar, a candidate shall secure a minimum of 40% of the maximum marks prescribed.
- OB 5.2** The candidates who do not satisfy the condition OB 5.1 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 candidate/s at first attempt in the concerned theory subject will be carried forward. In case of Practicals/Projects/Seminar revised marks will be taken as per regulations OB 4.10 (a & b) and OB 4.11.

- OB 5.3** The candidate who passes a subject of a semester as per OB 5.1 is not allowed to appear for the same again, unless he/she opts for rejection of results as per OB 5.4, 5.5, 5.6, 5.7 & 5.8.
- OB 5.4** A candidate may at his desire reject his total performance of a semester (including IA marks) or he may reject the result of his performance in University examination of a semester only.
- Provided that the rejection is permitted only once during the entire course of study.
- OB 5.5** The candidate who desires to reject the performance as per OB 5.4 shall reject performance in all the subjects of the semester, irrespective of whether the candidate has passed or failed in any subject. However, the rejection of performance of 8th semester project results shall not be permitted.
- OB 5.6** A candidate 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 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 will not be considered as fresh admission i.e., the candidate will continue to have the same University Seat Number, which was allotted earlier.
- OB 5.7** The candidate, 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 candidate 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 an odd semester, the candidate shall be allowed to take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate shall not be allowed to take admission to the next odd semester.

OB 5.8 Such candidates 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 are not eligible for the award of ranks.

OB 5.9 A candidate shall be declared to have completed the course of B.E./B.Tech. degree, provided the candidate has undergone the stipulated course work in all eight semesters as per the regulations.

OB 6 **MAXIMUM DURATION FOR COURSE COMPLETION:**

OB 6.1 A candidate who has not obtained the eligibility for third semester after a period of three academic years from the date of first admission shall discontinue the course. However, the candidate 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 candidate shall start with six hundred (6XX) series in the same branch. (Amended and approved in 52nd E.C. Res. No. 2.4)

OB 6.2 The candidate 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.

Provided that the candidates admitted under lateral entry scheme shall complete the course within a period of six academic years from the date of first admission, failing which he / she has to discontinue the course.

(Amended and approved in 74th E.C. Res. No. 6.1 dated 12-8-2008)

OB 7 **PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS**

OB 7.1 There shall not be any restriction for promotion from odd semester to the next even semester, provided the candidate has fulfilled the attendance requirement.

OB 7.2 A candidate is eligible for promotion from even semester to the next odd semester (i.e. to the next academic year) if the candidate 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 the still lower semester examinations. A theory or practical shall be treated as a head of passing.

Illustrations

- a. A candidate seeking eligibility to 3rd semester should not have failed in more than 4 heads of passing of first and second semesters taken together.
- b. A candidate seeking eligibility to 5th semester should have passed in all the subjects of 1st and 2nd semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together.
- c. A candidate seeking eligibility to 7th semester should have passed in all the subjects up to 4th semester and should not have failed in more than 4 heads of passing of 5th and 6th semesters taken together.

OB 8 **ELECTIVES**

OB 8.1 A candidate shall take one elective in 6th semester from 'Group A', two electives in 7th semester (one each from groups 'B' and 'C') and two electives in 8th semester (one each from groups 'D' and 'E'). There shall be a minimum of three electives are to be listed in every group.

OB 8.2 The minimum number of students to be registered for an Elective to be offered shall be not less than ten.

OB 8.3 A candidate shall exercise his option in respect of electives and register for the same at the beginning of concerned semester. The candidate may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University.

OB 9 SEMINAR AND PROJECT

OB 9.1 Seminar topic shall be selected from the emerging technical areas only.

OB 9.2 Project work at 8th semester shall be completed batch wise, each batch consisting of a maximum of four candidates.

OB 9.3 Viva-Voce examination in project work shall be conducted batch-wise.

OB 10 AWARD OF CLASS AT SEMESTER LEVEL

OB 10.1 For the award of First Class with Distinction in a semester, the candidate shall have secured not less than 70% marks in aggregate in the first attempt and shall have passed in all subjects in one or more attempts.

OB 10.2 For the award of First Class in a semester examination, the candidate shall have secured not less than 60% but less than 70% marks in aggregate in first attempt and shall have passed in all subjects in one or more attempts.

OB 10.3 A candidate who secures in a semester less than 60% of marks in aggregate in first attempt and passes in all the subjects in one or more attempts, shall be declared to have passed the semester examination in only Second Class.

OB 11 AWARD OF CLASS AT DEGREE LEVEL

OB 11.1 The Bachelor Degree in Engineering/Technology shall be awarded to the candidates who have passed all the stipulated examinations from 1st to 8th semesters. However, declaration of the class of the degree shall be based on the performance of the candidate in first attempt from 5th to 8th semester examinations taken together.

OB 11.2 A candidate who has passed in all subjects of 1st to 8th semester securing not less than 70% marks in the first attempt of 5th to 8th semesters taken together shall be declared to be eligible for the award of the B.E. / B.Tech. degree in first class with distinction.

OB 11.3 A candidate who has passed in all subjects of 1st to 8th semester securing not less than 60% but less than 70% of marks in aggregate in the first attempt in 5th to 8th semester examinations taken together shall be declared to be eligible for the award of the B.E./ B.Tech. degree in First Class.

OB 11.4 A candidate who has passed in all subjects of 1st to 8th semester securing less than 60% in aggregate in the first attempt in 5th to 8th semesters shall be declared to be eligible for the award of the B.E. / B.Tech. degree in Second Class.

OB 11.5 The marks secured by the candidate in a semester examination after rejecting the results shall also be taken as first attempt marks and shall be considered for the award of class of the Semester/ Degree but not for award of rank.

OB 12 AWARD OF PRIZES, MEDALS & RANKS

OB 12.1 For the award of Prizes and Medals, the conditions stipulated by the Donor may be considered subject to the provisions of the statutes framed by the University for such awards.

OB 12.2 For award of ranks in a branch, a minimum of 10 candidates should have appeared in the 8th semester examination. The total number of ranks awarded shall be 10% of total number of candidates appeared in 8th semester or 10 whichever is less in that branch.

OB 12.3 For award of rank in a branch of Engineering / Technology, the aggregate marks secured by the candidate from 5th semester to 8th semester shall be considered. A candidate shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the candidate

- a. Has passed 1st to 8th semester in all the subjects in first attempt only
- b. Has not repeated/rejected any of the lower semesters.

OB 13 TRANSFER OF STUDENTS

OB 13.1 Transfer of students from one College to another College within Karnataka State is 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 OB 7.2.

In the case of candidates from Universities other than VTU they should have passed in all the subjects of 1st and 2nd semesters for admission to 3rd semester and all the subjects of 1st to 4th semesters for admission to 5th semester and all the subjects of 1st to 6th semesters for admission to 7th semester.

The candidates seeking admission from Universities other than VTU shall have to

- a) apply for establishment of equivalence with prescribed fees as notified by VTU and
- b) obtain No Objection for admission from the University before commencement of term as notified by VTU

OB 13.2 Transfer of students within the College from one branch to another branch at 3rd semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka/ AICTE in this behalf.

OB 13.3 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 within the College (change of branch).

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
SCHEME OF TEACHING AND EXAMINATION**

I SEMESTER B.E./B.Tech.

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/Week)	Examination Marks	
						Th./Pr.	I.A. Total
1	14MAT11	Engineering Maths-I	Maths	Basic Sc.	4 (T)	100	25 125
2	14PHY12	Engineering Physics	Physics	Basic Sc.	4 (T)	100	25 125
3	14CIV13	Elements of Civil Engg. & Engineering Mechanics	Civil Engg.	Civil Engg.	4 (T)	100	25 125
4	14EME14	Elements of Mechanical Engg.	Mech. Engg.	Mech. Engg.	4 (T)	100	25 125
5	14ELE15	Basic Electrical Engg.	E & E	E & E	4 (T)	100	25 125
6	14WSSL16	Workshop Practice	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3 (L)	50	25 75
7	14PHYL17	Engg. Physics Lab	Physics	Basic Sc.	3 (L)	50	25 75
8	14CIP18	*Constitution of India & Professional Ethics	Any Department		2 (T)	50	25 75
9		Language (Kan.)	Humanities		2 (T)	---	---
				Total	30	**600	**175
						PHYSICS GROUP	775

II SEMESTER B.E./B.Tech.

PHYSICS GROUP

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks		
						Th./Pr.	I.A.	Total
1	14MAT21	Engineering Maths-II	Maths	Basic Sc.	4 (T)	100	25	125
2	14PHY22	Engineering Physics	Physics	Basic Sc.	4 (T)	100	25	125
3	14CIV23	Elements of Civil Engg. & Engineering Mechanics	Civil Engg.	Civil Engg.	4 (T)	100	25	125
4	14EME24	Elements of Mechanical Engg.	Mech. Engg.	Mech. Engg.	4 (T)	100	25	125
5	14ELE25	Basic Electrical Engg.	E & E	E & E	4 (T)	100	25	125
6	14WSL26	Workshop Practice	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	3 (L)	50	25	75
7	14PHYL27	Engg. Physics Lab	Physics	Basic Sc.	3 (L)	50	25	75
8	14CIP28	*Constitution of India & Professional Ethics	Any Department	Civil	2 (T)	50	25	75
9		Language (Kan.)	Humanities		2 (T)	---	---	---
Total					30	**600	**175	775

16

I SEMESTER B.E./B.Tech.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks		
						Th./Pr.	I.A.	Total
1	14MAT11	Engineering Maths-I	Maths	Basic Sc.	4 (T)	100	25	125
2	14CHE12	Engineering Chemistry	Chemistry	Basic Sc.	4 (T)	100	25	125
3	14PCD13	Programming in C & Data Structures	Any Engineering Department	CSE	4 (T)	100	25	125
4	14CED14	Computer Aided Engineering Drawing	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2T + 4L)	100	25	125
5	14ELN15	Basic Electronics	E & C/ E & E / TC / IT	E & C	4 (T)	100	25	125
6	14CPL16	Computer Programming Lab	Any Engineering Department	CSE	3 (L)	50	25	75
7	14CHEL17	Engg. Chemistry Lab	Chemistry	Basic Sc.	3 (L)	50	25	75
8	14CIV18	*Environmental Studies	Civil / Environmental	Civil	2 (T)	50	25	75
9		Language (Eng.)	Humanities		2 (T)	---	---	---
Total					32	**600	**175	775

17

II SEMESTER B.E./B.Tech.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks		
						Th./Pr.	L.A.	Total
1	14MAT21	Engineering Maths-II	Maths	Basic Sc.	4 (T)	100	25	125
2	14CHE22	Engineering Chemistry	Chemistry	Basic Sc.	4 (T)	100	25	125
3	14PCD23	Programming in C & Data Structures	Any Engineering Department	CSE	4 (T)	100	25	125
4	14CED24	Computer Aided Engineering Drawing	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2T + 4L)	100	25	125
5	14ELN25	Basic Electronics	E & C/ E & E / TC / IT	E & C	4 (T)	100	25	125
6	14CPL26	Computer Programming Lab	Any Engineering Department	CSE	3 (L)	50	25	75
7	14CHEL27	Engg. Chemistry Lab	Chemistry	Basic Sc.	3 (3)	50	25	75
8	14CIV28	*Environmental Studies	Civil/ Environmental	Civil	2 (T)	50	25	75
9		Language (Eng.)	Humanities		2 (T)	---	---	---
Total					32	**600	**175	775

* CIP/Env.Engg. : Question Papers will be of Objective Type. Students have to pass the subject compulsorily, however marks will not be considered for awarding class / rank.

**Excluding Environmental Studies/Constitution of India & Professional Ethics

Language (Kan./Eng.) – Audit Course

Item No.3 of the Agenda of the
Extra-ordinary 120th meeting of the
Executive Council to be held on
8-6-2015

**Consideration of Regulations governing Bachelor
of Engineering / Bachelor of Technology as per
CBCS Scheme.**

The Joint Board of Studies Meeting was held on 27-4-2015 in the VTU's Regional Office, Bengaluru. The Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme were finalized and approved.

The approved Regulations are being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

Resolution No.3

The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme.

Proceedings of the Extra-ordinary 120th Executive Council Meeting held on 8-6-2015 KCP

SO/AG

11/5

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.
2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
3. **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.
4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (*core, elective and Foundation Courses*).
5. **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.
6. **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.
8. **Branch:** Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
9. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
10. **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.
12. **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

taken during that semester. It shall be expressed up to two decimal places.

14. 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 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.

15. 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.

16. 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 (hrs/wk /Sem)	Tutorial (hrs/wk/ Sem)	Lab. Work (hrs/wk/Sem)	Credits (Lec:instruction:Lab)	Credits (Total)
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.)**

15OB 1	TITLE AND DURATION OF THE PROGRAMME OF STUDY
15OB 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.
15OB 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.
15OB 1.3	The calendar of events in respect of the program of study shall be fixed by the University from time to time.
15OB 1.4	The examination in all programs of study shall be conducted at the end of each semester for all eight semesters.
15OB 2	ELIGIBILITY FOR ADMISSION (The Government orders issued from time to time in this regard shall prevail).
15OB 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.
15OB 2.2	In addition to 15OB 2.1, the student shall have secured not less than 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 shall be 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 as one of the subjects.
15OB 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the students Diploma Holders <ul style="list-style-type: none"> • Must have passed diploma or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and

	<p>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%).</p> <ul style="list-style-type: none"> • Who have completed their Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka. • 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. <p>B.Sc. Graduates</p> <ul style="list-style-type: none"> • 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. • Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester <ul style="list-style-type: none"> 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).
15OB 2.4	<p>Admission to Evening Programme of study shall be open to a student 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.</p> <p>Explanation: Professional experience means employment on regular basis</p> <ol style="list-style-type: none"> a. in Government, Government undertaking, Public Sector undertaking, Corporations or b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or c. In Government, Government recognized institutions as technical staff. <p>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.</p>
15OB 2.5	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 or from the Principal of concerned Engineering College of Karnataka State.
15OB 3	ATTENDANCE REQUIREMENT
15OB 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.
15OB 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.
15OB 3.3	The students shall be informed about their attendance status periodically by the colleges so that the students shall be cautioned to make 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.
15OB 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.
15OB 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 15OB 6.2.
15OB 4	INTERNAL ASSESSMENT MARKS
15OB 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.

15OB 4.2	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 th and 12 th 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.
15OB 4.3	Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.
15OB 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.
15OB 4.5	In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test.
15OB 4.6	The IA marks for I year Computer Aided Engineering / Drawing: a) 12 marks for class work (sketching and Computer Aided engineering drawing). b) 08 marks for test in the same pattern as that of the main examination (better of the two tests) 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.
15OB 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 th 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.
15OB 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.
15OB 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.

15OB 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.
15OB 4.10 (b)	For seminars, the minimum requirement of IA marks shall be 40% of the maximum.
15OB 4.11	Such students as mentioned in 15OB 4.10 shall repeat the laboratory work/Internship/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.
15OB 4.12	For theory subjects, there shall not be any minimum requirements of IA marks.
15OB 4.13	Improvement of IA marks shall not be allowed a. In theory subjects and b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks.
15OB 4.14	IA marks of those students to whom 15OB 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
15OB 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.
15OB 5	ELIGIBILITY FOR PASSING 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.
15OB 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".
15OB 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".
15OB 5.2	The students who do not satisfy the condition 15OB 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 15OB 4.10 (a & b) and 15OB 4.11.
15OB 5.3	The student who passes a course of a semester as per 15OB 5.1 shall

	not be allowed to appear for the same again, unless he/she opts for rejection of results as per 15OB 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.
15OB 5.5	The student who desires to reject the performance as per 15OB 5.4 shall reject performance in all the courses of the semester, irrespective of whether the student has passed or failed in any subject. However, the rejection of performance of 8 th semester project result shall not be permitted.
15OB 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 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 i.e., the student will continue to have the same University Seat Number, which was allotted earlier. The course duration permitted (as per 15OB 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 the rejection of the University result is of the even semester, the student shall not be allowed to take admission to the next odd semester (as per 15OB 7.2).
15OB 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 are not eligible for the award of ranks.
15OB 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.
15OB 6	MAXIMUM DURATION FOR COURSE COMPLETION
15OB 6.1	A student who has not obtained the eligibility for third semester after a

	<p>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.</p>
15OB 6.2	<p>The student admitted to 1st 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 has to discontinue the course.</p>
15OB 7	PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS
15OB 7.1	<p>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.</p>
15OB 7.2	<p>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 the lower semester examinations. A theory or practical shall be treated as a head of passing.</p> <p>Illustrations</p> <ol style="list-style-type: none"> A student seeking eligibility to 3rd semester should not have failed in more than 4 heads of passing of first and second semesters taken together. A student seeking eligibility to 5th semester should have passed in all the subjects of 1st and 2nd semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together. A student seeking eligibility to 7th semester should have passed in all the subjects up to 4th semester and should not have failed in more than 4 heads of passing of 5th and 6th semesters taken together. <p>The Subjects:</p> <ol style="list-style-type: none"> Constitution of India, Professional Ethics and Human Rights, and Environmental Studies <p>are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.</p>
15OB 8	COURSES

15OB 8.1	<p>There will be Four types of courses</p> <p>(i) Core Courses: This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses will have 4 credits per course.</p> <p>(ii)Foundation Courses: The Foundation Courses are of two kinds: <i>Compulsory Foundation</i> and <i>Elective foundation</i>.</p> <p>“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.</p> <p>“Foundation Electives”: These are value based courses aimed at man making education. These courses will have 3 credits per course.</p> <p>(iii)Elective Courses: 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.</p> <p>(iv)Mandatory Non-Credit Courses: These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.</p>
15OB 8.2	The minimum number of students to be registered for an Elective to be offered shall be not less than ten.
15OB 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 within 15 days from the date of commencement of the semester as per the calendar of the University.
15OB 9	INTERNSHIP
15OB 9.1	<p>Internship: The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7th semester Examination after availing one week vacation and completing during the initial period of 8th semester.</p> <ol style="list-style-type: none"> 1. The college shall nominate a faculty for a group of students to prepare the students for internship. 2. The students shall report the progress of the internship to the guide in regular intervals and may seek his/her advise. 3. The Internship shall be completed between 7th and 8th semesters. 4. After completion of 7th semester Theory and Practical examinations, the students shall have one week vacation. 5. 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.

6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8th 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.

15OB9.2	Report on Internship: 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.																											
15OB9.3	Failing to undergo Internship: Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree.																											
15OB9.4	Non-completion of Internship: In such cases, the student has to redo the internship.																											
15OB 10	SEMINAR AND PROJECT																											
15OB 10.1	Seminar topic shall be selected from the emerging technical areas only.																											
15OB 10.2	Project work at 8 th semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.																											
15OB 10.3	<i>Viva-voce</i> examination in project work shall be conducted batch-wise.																											
15OB 11	COMPUTATION OF SGPA AND CGPA																											
	<p>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.</p> <p>ii. The grading system is with the following letter grades as given below:</p> <p>Grades and Grade Points</p> <table border="1"> <thead> <tr> <th>Level</th> <th>Out-standing</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Poor</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>O</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>00</td> </tr> </tbody> </table> <p>iii. A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination. 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. Number of attempts taken to clear a subject/s shall be shown in the transcripts.</p>	Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail	Letter Grade	O	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	5	4	00
Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail																				
Letter Grade	O	S	A	B	C	D	E	F																				
Grade Points	10	9	8	7	6	5	4	00																				

Grade Points Scale

Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
Letter Grade	O	S	A	B	C	D	E	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):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

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

where C_i is the number of credits of the i^{th} course and G_i 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.

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

where S_i is the SGPA of the i^{th} semester and C_i 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	C	6	4x6 = 24
Course 3	4	B	7	4x7 = 28
Course 4	3	O	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	C	6	2x6 = 12
	25			174

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

Illustration No.2

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	B	7	4x7 = 28
Course 4	3	O	10	3x10= 30
Course 5	3	F	0	3x0 = 00
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	C	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**

Illustration No.3

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	B	7	4x7 =28
Course 4	3	O	10	3x10=30
Course 5	3	S	9	3x9 =27
Course 6	3	C	6	3x6 =18
Course 7	2	S	9	2x9 =18
Course 8	2	C	6	2x6 =12
	25			189

Thus, **SGPA= 189/25=7.56**

$$CGPA = \frac{25 \times 6.96 + 25 \times 7.56}{50} = 7.26$$

CGPA after Final Semester

Sem. - 1	Sem. - 2	Sem. - 3	Sem. - 4	Sem. - 5	Sem. - 6	Sem. - 7	Sem. - 8
Credit : 24 SGPA:7	Credit:24 SGPA:8.5	Credit : 27 SGPA:9.2	Credit : 27 SGPA:6.86	Credit :24 SGPA:8.18	Credit : 24 SGPA:7.73	Credit : 24 SGPA:8.68	Credit : 26 SGPA:9.4

Thus, **CGPA= $\frac{24 \times 7 + 24 \times 8.5 + 27 \times 9.2 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.4}{200} = 8.2$**

Transcript (Format): Based on the above recommendations on Letter grades, grade points, SGPA and CCPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters may be issued.

15OB 12

CONVERSION OF GRADES INTO PERCENTAGE:

Conversion formula for the conversion of GPA into Percentage is [CGPA Earned - 0.75] x 10= Percentage of marks scored.

Illustration: [CGPA Earned 8.2 - 0.75]x 10 = 74.5%

15OB 13

AWARD OF PRIZES, MEDALS & RANKS

15OB 13.1

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

15OB 13.2

For award of ranks in a branch, a minimum of 10 students should have appeared in the 8th semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in 8th semester or 10 students, whichever is less in that branch.

Illustration:

1. If 1028 students appeared for the 8th semester in Electronics and Communication Engineering Branch, the number of ranks to be awarded for Electronics and Communication Engineering will 10.
2. If 90 students appeared for the 8th semester in Biomedical Engineering Branch, the number of ranks to be awarded for Biomedical Engineering will be 09.

15OB
13.3

For award of rank in a branch of Engineering / Technology, the CGPA secured by the student from

- a) 1st to 8th semester for the students admitted to B.E./B.Tech. Program from 1st year, and

	<p>b) 3rd to 8th semester for the students admitted to B.E./B.Tech. Program from 2nd year (Lateral Entry) shall be considered.</p> <p>A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student</p> <p>a. Has passed 1st to 8th (students joining from 1st semester) or 3rd to 8th (in case of lateral entry) semester in all the subjects in first attempt only</p> <p>b. Has not repeated/rejected any of the lower semesters.</p>
15OB 13.4	<p>If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, S, A, B etc shall be taken into account in rank ordering of the students in a program.</p>
15OB 14	TRANSFER OF STUDENTS
15OB14.1	<p>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 15OB 7.2.</p> <p>In the case of students from Universities other than VTU the students should have passed in all the courses of 1st & 2nd semesters for admission to 3rd semester and all the courses of 1st to 4th semesters for admission to 5th semester and all the courses of 1st to 6th semesters for admission to 7th semester.</p> <p>The students seeking admission from Universities other than VTU shall have to</p> <p>a. apply for establishment of equivalence with prescribed fees as notified by the VTU and</p> <p>b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.</p>
15OB14.2	<p>Transfer of students within the College from one branch to another branch at 3rd 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.</p>
15OB14.3	<p>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).</p>

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.

CREDIT BASED CURRICULUM SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	PHYSICS GROUP			Credits
						Examination Marks			
						Th./Pr.	I.A.	Total	
1	14MAT11	Engineering Maths-I	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14PHY12	Engineering Physics	Physics	Basic Sc.	4 (T)	80	20	100	4
3	14CIV13	Elements of Civil Engg. & Engineering Mechanics	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	14EME14	Elements of Mechanical Engg.	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	14ELE15	Basic Electrical Engg.	E & E	E & E	4 (T)	80	20	100	4
6	14WSL16	Workshop Practice	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	14PHYLL17	Engg. Physics Lab	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	14CIP18	*Constitution of India & Professional Ethics and Human Rights (CPH)	Humanities		2 (Tutorial)	80	20	100	1
9		Language (Kan.)	Humanities		1 (T)	-	-	-	-
					29	640	160	800	25

SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

PHYSICS GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	14MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	14CIV13	Elements of Civil Engg. & Engineering Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	14EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	14ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	14WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	14PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	14CIP18	*Constitution of India & Professional Ethics and Human Rights (CPH)	HS	Humanities		2 (Tutorial)	80	20	100	1
9		Language (Kan.)	Mandatory learning	Humanities		1 (T)	-	-	-	--
						29	640	160	800	25

32

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

PHYSICS GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	14MAT21	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14PHY22	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	14CIV23	Elements of Civil Engg. & Engineering Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	14EME24	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	14ELE25	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	14WSL26	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	14PHYL27	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	14CIP28	*Constitution of India & Professional Ethics and Human Rights	HS	Humanities		2 (Tutorial)	80	20	100	1
9		Language (Eng.)	MNC	Humanities		1 (T)	-	-	-	--
						29	640	160	800	25

**CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016**

I SEMESTER B.E./B.TECH.

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	CHEMISTRY GROUP Examination Marks			Credits
							Th./Pr.	I.A.	Total	
							1	14MAT11	Engineering Maths-I	
2	14CHE12	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	14PCD13	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	14CED14	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	14ELN15	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	14CPL16	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	14CHEL17	Engg. Chemistry Lab	BS	Chemistry	Basic Sci.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	14CIV18	*Environmental Studies	HS	Civil / Environmental	Civil	2 (Tutorial)	80	20	100	1
9		Language (Kan.)	MNC	Humanities		1 (T)	-	-	-	--
Total						31	640	160	800	25

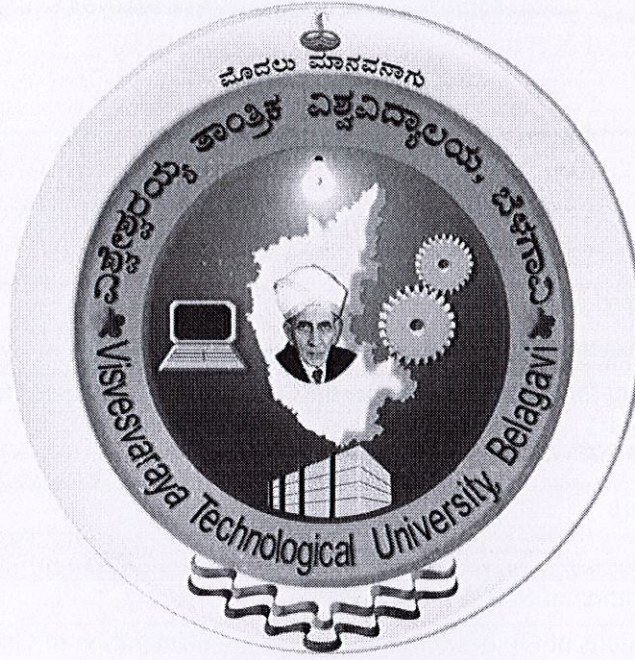
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	14MAT21	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14CHE22	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	14PCD23	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	14CED24	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	14ELN25	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	14CPL26	Computer Program--ming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	14CHEL27	Engg. Chemistry Lab	BS	Chemistry	Basic Sc.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	14CIV28	Environmental Studies	HS	Civil / Environmental	Civil	2 (Tutorial)	80	20	100	1
9		Language (Eng.)	MNC	Humanities		1 (T)	-	-	-	--
Total						31	640	160	800	25

Visvesvaraya Technological University, Belagavi



**REGULATIONS GOVERNING
THE DEGREE OF MASTER OF BUSINESS ADMINISTRATION
AND
MASTER OF BUSINESS ADMINISTRATION-INFRASTRUCTURE MANAGEMENT
(MBA and MBA-IM)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME
Effective from academic year 2016 -17**

Visvesvaraya Technological University, Belagavi

**Regulations Governing the Degree of MBA/MBA - IM
Under Choice Based Credit System (CBCS) Scheme
Effective from academic year 2016 -17**

CONTENTS		
Regulation Clause	Title	Page Number
--	Definitions of Keywords	03
16OMB1.0	Title, Duration and Credits of the Programme of Study	06
16OMB2.0	Eligibility for Admission (As per the Government orders issued from time to time)	06
16OMB3.0	Courses	07
16OMB4.0	Internship	08
16OMB5.0	Project	09
16OMB6.0	Computation of SGPA and CGPA	11
16OMB7.0	Conversions of Grades into Percentage and Declaration of Class	13
16OMB8.0	Continuous Internal Evaluation and Semester End Evaluation	13
16OMB9.0	Eligibility for Passing and Award of Degree	14
16OMB10.0	Attendance Requirement	15
16OMB11.0	Promotion and Eligibility	16
16OMB12.0	Temporary Discontinuation/Break in the Program	16
16OMB13.0	Award of Prizes, Medals and Ranks	16
16OMB14.0	Applicability and Power to Modify	17

Visvesvaraya Technological University, Belagavi

Regulations Governing the Degree of MBA/MBA - IM Under Choice Based Credit System (CBCS) Scheme 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 Master of Business Administration (MBA) Programme:

- 1) **University:** Visvesvaraya Technological University (VTU), Belagavi
- 2) **Programme:** Is an educational programme in Business Administration 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/quiz etc., or a combination of some of these.
- 3) **Branch:** Means specialization or discipline of MBA/MBA–Infrastructure Management Programme.
- 4) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 5), 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.
- 5) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 6) **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/quiz etc., or a combination of some of these.
- 7) **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.
- 8) **Audit Courses:** Means Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 9) **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.
- 10) **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.
- 11) **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.
- 12) **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, oral examination, group discussion, quiz, mini-project, outreach activities and seminar throughout the semester, with weightage for the different components being fixed at the University level.
- 13) **Semester end examinations (SEE):** Refers to examination conducted at the University level covering the entire course syllabus. For this purpose, syllabi to be modularized/unit and SEE questions to be set from each module/unit, with a choice confined to the concerned module/unit only. SEE is also termed as university examination.

- 14) **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.
- 15) **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.
- 16) **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.
- 17) **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.

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

- 18) **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: 16OMB6.0]. 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.
- 19) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

Letter Grade	S	A	B	C	D	E	F
Grade Point	10	09	08	07	06	04	00

- 20) **Passing Standards:** Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 19).
- 21) **Credit Point:** Is the product of Grade Point (GP) and number of credits for a Course i.e.,
Credit points (CrP) = GP × Credits for the Course.
- 22) **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:16OMB6.0]
- 23) **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: 16OMB6.0]

- 24) **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 end examination. The grade certificate 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.
- 25) **University:** Visvesvaraya Technological University (VTU), Belagavi.



Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Choice Based Credit System (CBCS) Scheme
Effective from academic year 2016 -17

16OMB1.0	Title, Duration and Credits of the Programme of Study
16OMB1.1	The Programme shall be called Master of Business Administration (MBA)/Master of Business Administration - Infrastructure Management (MBA – IM).
16OMB1.2	The Programme shall be a full time programme extended over a period of two academic year duration divided into four semesters and each semester is of 16 weeks duration.
16OMB1.3	Maximum Duration for Programme Completion: A candidate shall be allowed a maximum duration of 4 years from the first semester of admission to become eligible for the award of the Degree, failing which he/she may discontinue the program or register once again as a fresh candidate to I semester.
16OMB1.4	Prescribed Number of Credits for the Programme: The number of credits to be completed for the award of degree shall be 100.
16OMB1.5	The Calendar of events in respect of the Programme shall be notified by the University in advance.
16OMB2.0	Eligibility for Admission (As per the Government orders issued from time to time)
16OMB2.1	Admission to MBA Program shall be open to the candidates who have passed recognized Bachelor's Degree of minimum of 3 years duration or equivalent examination and obtained an aggregate minimum of 50% marks taken together in all the subjects including languages in all the years of the Degree Examination and 45% of marks in case of SC, ST and Category-I of Karnataka candidates. (Reservation is applicable only for Karnataka Candidates).
16OMB2.2	For admissions under PGCET qualification and Roaster system of Government of Karnataka: There shall be an Entrance Examination (PGCET) for admission to the MBA programme. A candidate seeking admission to MBA Programme offered in any of the Engineering Colleges affiliated to VTU shall appear for this Examination. For admission under Government quota, ranks obtained in PGCET entrance exam, conducted by Karnataka Examination Authority (KEA), shall be considered. For admissions under Management Quota: The candidates should have appeared for the Entrance Examination conducted by KEA (PGCET)/Karnataka Management Aptitude Test (KMAT) or appeared and qualified under any approved entrance examination conducted by the authority recognized by Government of Karnataka/VTU /any other University of Karnataka state. Further, there shall be an Admissions Committee for the MBA Program consisting of the Principal of the College as the Chairman, Head of the concerned Department and one senior staff member of the concerned Department. The Admissions Committee conducts the interview and selects the candidates for admission.
16OMB2.3	(i) The candidates from Universities other than the Universities of Karnataka shall have to obtain Eligibility Certificate from the VTU to seek admission to MBA program in any of the college affiliated to VTU. (ii) The candidates from foreign countries shall have to obtain Eligibility Certificate from the VTU to seek admission to MBA program in any of the college affiliated to VTU. Further, they have to produce equivalence certificate from the Association of Indian Universities.

16OMB2.4	The intake under various categories (regular, SC/ST and category I) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.
16OMB2.5	<p>Admission to vacant seats:</p> <p>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 PG CET 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.</p>
16OMB3.0	Courses
16OMB3.1	<p>The curriculum of the Programme shall be any combination of following type of courses:</p> <ul style="list-style-type: none"> i) 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. ii) 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. iii) Open Electives Courses (OE) - from other technical and/ or emerging specialization areas. iv) Project Work, Seminar. v) Audit Courses (AC): <ul style="list-style-type: none"> (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). (b) The students interested in audit courses can register for one audit course at a time during II to IV semester. Students who have registered to audit 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 each semester. 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. vi) Professional training/Internship (referred to as Internship): Preferably at an industry/ R and D organization/IT company/ Government organization/Business organization of significant repute for a specified period mentioned in Scheme of Teaching and Examination.
16OMB3.2	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.

16OMB3.3	The minimum number of students to be registered for an Elective to be offered shall not be less than ten. However, the above condition shall not be applicable when the class strength is less than ten.
16OMB4.0	Internship
16OMB4.1	<p>Internship: The student shall undergo Internship as per the Scheme of Teaching and Examination.</p> <ol style="list-style-type: none"> 1. The internship can be carried out in any industry/R&D Organization/Research Institute/Institute of repute Business organization. 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 during the student's 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 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. [To be read along with 16OMB 8.1 and 9.3] 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. 9. In case the external Guide expresses his inability to conduct viva voce, the Chief Superintendent is permitted to make alternate arrangements. 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.
16OMB4.2	<p>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 the prescribed credits shall not be awarded in that Course. The student, however, can submit the project dissertation and appear for viva voce.</p> <p>The student shall be eligible for the internship credits only after satisfying the conditions prescribed for the same during the subsequent academic year. The reappearance shall be considered as an attempt.</p>

16OMB5.0	Project
16OMB5.1	<p>Project work and Dissertation: Each candidate shall carry out the project work independently as per Scheme of Teaching and Examinations under the guidance of one of the faculty members of the Department in the Institution of study. If the project is of inter-disciplinary nature, a co-guide shall be taken from the other concerned department. The topic and title of the dissertation shall be chosen by the candidate in consultation with the guide and co-guide, if any, during the III semester itself. The subject and topic of the dissertation shall be from the major field of studies of the candidate. Modification of only the title but not the field of work may be permitted at the time of final submission of dissertation report during IV semester. If dissertation has to be carried out in any industry/R&D labs/business organizations, outside the campus, permission shall be taken from the Principal to that effect. The Principal, shall submit a list showing the name of the student, University Seat Number, title of the project, name/s of the guide/co-guide at the time of submission of project report to the University.</p>
16OMB5.2	<p>Project is one of the head of passing. 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.</p>
16OMB5.3	<p>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%:</p> <ul style="list-style-type: none"> • 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). • for the second time, the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (Rupees four thousand only). • 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 16OMB1.5.
16OMB5.4	<p>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.</p>
16OMB5.5	<p>Examiners shall evaluate the dissertation normally within a period of not more than twoweeks from the date of receipt of dissertation through email.</p>
16OMB5.6	<p>The examiners shall independently submit the marks through the specified link.</p>

16OMB5.7	Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.
16OMB5.8	<p>(a) Viva-voce examination of the candidate shall be conducted as per 16OMB5.10, if the dissertation work and the reports are accepted by the external examiner (first).</p> <p>(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.</p> <p>(c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 16OMB5.8 (b)] of the external examiner (first) and satisfying the provision 16OMB5.3 shall 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 16OMB5.10.</p> <p>(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 16OMB5.10. 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 16OMB1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.</p> <p>(e) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 16OMB5.8 (b)], the same will be sent to a Second Examiner (external) [not necessarily the same examiner considered under 16OMB5.8 (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 16OMB5.10. 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 16OMB1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.</p>
16OMB5.9	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 from the date of admission to the Programme.
16OMB5.10	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.
16OMB5.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.
16OMB5.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.
16OMB5.13	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.

16OMB5.14	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.																																															
16OMB6.0	Computation of SGPA and CGPA																																															
16OMB6.1	<p>(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.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p> <table border="1" data-bbox="331 521 1377 779"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td><90</td> <td>< 80</td> <td>< 70</td> <td>< 60</td> <td>< 55</td> <td>< 50</td> </tr> <tr> <td>(90 -100)</td> <td>≥80</td> <td>≥70</td> <td>≥60</td> <td>≥ 55</td> <td>≥50</td> <td>(0 - 49)</td> </tr> <tr> <td></td> <td>(90 -100)</td> <td>(80 - 89)</td> <td>(70 - 79)</td> <td>(60 - 69)</td> <td>(55 - 59)</td> <td>(50- 54)</td> <td>(0 - 49)</td> </tr> </tbody> </table> <p>(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.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50	(90 -100)	≥80	≥70	≥60	≥ 55	≥50	(0 - 49)		(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(55 - 59)	(50- 54)	(0 - 49)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																									
Letter Grade	S	A	B	C	D	E	F																																									
Grade Points	10	9	8	7	6	4	00																																									
Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50																																									
	(90 -100)	≥80	≥70	≥60	≥ 55	≥50	(0 - 49)																																									
	(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(55 - 59)	(50- 54)	(0 - 49)																																									
16OMB6.2	<p>Computation of SGPA and CGPA</p> <p>The following procedures shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:</p> <p>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.,</p> $SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$ <p>Where C_i is the number of credits of the i^{th} Course and G_i is the grade point scored by the student in the i^{th} Course.</p> <p>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.,</p> $CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$ <p>Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.</p> <p>The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.</p>																																															

16OMB6.2
(continued)
Illustration for Computation of SGPA and CGPA
Computation of SGPA
Illustration No.1

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	E	04	3 × 04 = 12
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	174

Thus, $SGPA = 174/25 = 6.96$

Illustration No.2

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	F	00	3 × 00 = 00
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	162

Thus, $SGPA = 162/25 = 6.48$

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	C	07	7 × 03 = 21

Total Credit Points = Credit Points of first Attempt) + Credit Points of subsequent attempt
 $= 162 + 21 = 183$

Total credits of the semester = 25

Thus, $SGPA = 183/25 = 7.32$

Illustration No.3

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	A	09	3 × 09 = 27
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	189

Thus, $SGPA = 189/25 = 7.56$

$CGPA$ (from illustrations 2 and 3) = $\frac{25 \times 7.32 + 25 \times 7.56}{50} = 7.44$

16OMB6.2 (continued)	<table border="1"> <thead> <tr> <th>Semester</th> <th>I</th> <th>II</th> <th>III</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Credits of the semester</td> <td>26</td> <td>26</td> <td>25</td> <td>24</td> </tr> <tr> <td>SGPA</td> <td>7.08</td> <td>6.08</td> <td>7.92</td> <td>9.24</td> </tr> </tbody> </table>	Semester	I	II	III	IV	Credits of the semester	26	26	25	24	SGPA	7.08	6.08	7.92	9.24
	Semester	I	II	III	IV											
	Credits of the semester	26	26	25	24											
SGPA	7.08	6.08	7.92	9.24												
$\text{Thus CGPA} = \frac{(26 \times 7.08 + 26 \times 6.08 + 25 \times 7.92 + 24 \times 9.24)}{150} = 7.58$																
16OMB6.3	Transcript Format: Based on the secured letter grades, grade points, SGPA and CGPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters shall be issued.															
16OMB7.0	Conversions of Grades into Percentage and Declaration of Class															
16OMB7.1	Conversions of Grades into Percentage Conversion formula for the conversion of CGPA into percentage is given below percentage of marks secured, $P = [\text{CGPA Earned} - 0.75] \times 10$ Illustration for a CGPA of 8.20: $P = [\text{CGPA Earned } 8.2 - 0.75] \times 10 = 74.5 \%$															
16OMB7.2	Class Declaration: After the conversion of final CGPA into percentage of marks (P), a graduating student is declared to have passed in (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $<70\%$ and (iii) Second Class (SC) if $P < 60\%$.															
16OMB8.0	Continuous Internal Evaluation and Semester End Evaluation															
16OMB8.1	There shall be a maximum of 20 CIE Marks in each theory. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE of each Theory course/ Internship /Project/Dissertation. [To be read along with 16OMB8.8]															
16OMB8.2	CIE Marks shall be based on a) Tests (for 10 Marks) and b) Assignments, Quiz, Simulation, Experimentation, Mini project, oral examination, field work etc., (for 10 Marks) conducted in respective courses.															
16OMB8.3	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.															
16OMB8.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 16OMB8.2 (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).															
16OMB8.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.															
16OMB8.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.															

16OMB8.7	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.
16OMB8.8	Candidates obtaining less than 50% of the CIE marks in any course (Theory/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 when offered in the subsequent semester subject to the provision of 16OMB1.5.
16OMB8.9	Semester End Evaluation: There shall be a University examination at the end of each semester. Setting Theory Question Papers and Evaluation: Question papers in theory courses shall be set by the Examiners appointed by the University.
16OMB8.10	There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
16OMB8.11	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.
16OMB8.12	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
16OMB9.0	Eligibility for Passing and Award of Degree
16OMB9.1	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.
16OMB9.2	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.
16OMB9.3	For a pass in Internship/ Project/Dissertation/Viva-voce examination, a student shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/ Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
16OMB9.4	IV semester students 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 student completes all the backlog courses and become eligible for the award of degree. [To be read along with 16OMB11.2].
16OMB9.5	A candidate may at his/her desire reject his/her latest semester, except the IV semester, results of University examination in respect to all courses of that semester. 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.
16OMB9.6	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.
16OMB9.7	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.

9.

Visvesvaraya Technological University, Belagavi



**REGULATIONS GOVERNING
THE DEGREE OF MASTER OF COMPUTER APPLICATIONS (MCA)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME
Effective from academic year 2017-18**

Visvesvaraya Technological University, Belagavi

**Regulations Governing the Degree of Master of Computer Applications (MCA)
Under Choice Based Credit System (CBCS) Scheme
Effective from academic year 2017 -18**

CONTENTS		
Regulation Clause	Title	Page Number
--	Definitions of Keywords	03
17OMC1.0	Title, Duration and Credits of the Programme of Study	06
17OMC2.0	Eligibility for Admission (As per the Government orders issued from time to time)	06
17OMC3.0	Courses	07
17OMC4.0	Internship	08
17OMC5.0	Seminar	09
17OMC6.0	Project	09
17OMC7.0	Computation of SGPA and CGPA	11
17OMC8.0	Conversions of Grades into Percentage and Declaration of Class	13
17OMC9.0	Continuous Internal Evaluation and Semester End Evaluation	14
17OMC10.0	Eligibility for Passing and Award of Degree	15
17OMC11.0	Attendance Requirement	16
17OMC12.0	Promotion and Eligibility	16
17OMC13.0	Temporary Discontinuation/Break in the Program	17
17OMC14.0	Award of Prizes, Medals and Ranks	17
17OMC15.0	Applicability and Power to Modify	18

Visvesvaraya Technological University, Belagavi

Regulations Governing the Degree of Master of Computer Applications (MCA)

Under Choice Based Credit System (CBCS) Scheme

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 Master of Computer Applications (MCA) Programme:

- 1) **University:** Visvesvaraya Technological University (VTU), Belagavi.
- 2) **Programme:** Is an educational programme in Computer Applications 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/ quiz/self-study etc., or a combination of some of these.
- 3) **Branch:** Means MCA Degree Programme.
- 4) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 5), 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.
- 5) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 6) **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/ quiz/self-study etc., or a combination of some of these.
- 7) **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.
- 8) **Audit Courses:** Means Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 9) **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.
- 10) **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.
- 11) **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.
- 12) **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.
- 13) **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.

- 14) **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.
- 15) **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.
- 16) **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.
- 17) **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.

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

- 18) **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: 17OMC7.0]. 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.
- 19) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

Letter Grade	S	A	B	C	D	E	F
Grade Point	10	09	08	07	06	04	00

- 20) **Passing Standards:** Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 19).
- 21) **Credit Point:** Is the product of grade point (GP) and number of credits for a Course i.e.,
Credit points (CrP) = GP × Credits for the Course.
- 22) **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:17OMC7.0]
- 23) **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: 17OMC7.0]

- 24) **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 end examination. The grade certificate 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.



Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of Master of Computer Applications (MCA)
Under Choice Based Credit System (CBCS) Scheme
Effective from academic year 2017 -18

17OMC1.0	Title, Duration and Credits of the Programme of Study
17OMC1.1	The Programme shall be called Master of Computer Applications, abbreviated as MCA.
17OMC1.2	(i) The program to which students are admitted to I semester of the programme shall be of three academic year duration divided into six semesters and each semester is of 16 weeks duration. (ii) The programme to which students are admitted to III semester of the programme, under lateral entry scheme, shall be of two academic year duration divided into four semesters and each semester is of 16 weeks duration. The four semesters of II and III year of the programme are common to students admitted under (i) and (ii).
17OMC1.3	Maximum Duration for Programme Completion: (a) Candidates admitted to I year of the programme shall be allowed a maximum duration of six years to become eligible for the award of MCA degree, failing which he/she may discontinue the programme or register once again as a fresh candidate to I semester. (b) Candidates admitted to II year of the programme under lateral entry scheme shall complete the course within four academic years from the year of first admission, failing which he /she has to discontinue the programme or register once again as a fresh candidate to III semester.
17OMC1.4	Prescribed Number of Credits for the Programme: The number of credits to be completed for the award of degree shall be 150.
17OMC1.5	The Calendar of events in respect of the Programme shall be notified by the University in advance.
17OMC2.0	Eligibility for Admission(As per the Government orders issued from time to time)
17OMC2.1	Admission to I year /I semester MCA: A candidate who has passed any recognized under graduate examination or equivalent examination with Mathematics or Statistics or Computer Science or Computer Applications or Computer Programming or Business Mathematics or Business Statistics as one of the optional subjects and obtained an aggregate minimum of 50% marks taken together in all the subjects in all the years of the Degree Examination is eligible for admission to MCA courses and 45% of marks in qualifying examination (QE) in case of SC, ST and Category-I of Karnataka candidates. Provided that in respect of candidate who has studied and passed one of the subjects specified above in Pre-University Course with fifty percent of marks in that subject shall also be considered for admission. 45% of marks in case of SC, ST and Category-I of Karnataka candidates. Admission to II year /III semester MCA(Lateral entry): A candidate who has passed recognized Bachelor's Degree of minimum of 3 years duration in BCA, B.Sc (I.T. / Computer Science) with Mathematics at 10 + 2 level or at Graduate Level and obtained an aggregate minimum of 50% marks taken together in all the subjects in all the years of the Degree Examination is eligible for admission to MCA courses (45% of marks in QE in case of SC, ST and Category-I of Karnataka candidates) Reservation is applicable only for Karnataka Candidates.

17OMC2.2	<p>For admissions under PG CET qualification and Roaster system of Government of Karnataka:</p> <p>There shall be an Entrance Examination (PGCET) for admission to the MCA programme. A candidate seeking admission to MCA Programme offered in any of the Engineering Colleges affiliated to VTU shall appear for this Examination. For admission under Government quota, ranks obtained in PGCET entrance exam, conducted by Karnataka Examination Authority (KEA), shall be considered.</p> <p>For admissions under Management Quota:</p> <p>The candidates should have appeared for the Entrance Examination conducted by KEA (PGCET)/Karnataka Management Aptitude Test (KMAT) or appeared and qualified under any approved entrance examination conducted by the authority recognized by Government of Karnataka/VTU /any other University of Karnataka state.</p> <p>Further, there shall be an Admissions Committee for the MCA Program consisting of the Principal of the College as the Chairman, Head of the concerned Department and one senior staff member of the concerned Department. The Admissions Committee conducts the interview and selects the candidates for admission.</p>
17OMC2.3	<p>(i) The candidates from Universities other than the Universities of Karnataka shall have to obtain Eligibility Certificate from the VTU to seek admission to MCA program in any of the college affiliated to VTU.</p> <p>(ii) The candidates from foreign countries shall have to obtain Eligibility Certificate from the VTU to seek admission to MCA program in any of the college affiliated to VTU. Further, they have to produce equivalence certificate from the association of Indian Universities.</p>
17OMC2.4	<p>The intake under various categories (regular, Lateral entry, SC/ST and category I) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.</p>
17OMC2.5	<p>Admission to vacant seats:</p> <p>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 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.</p>
17OMC3.0	<p>Courses</p>
17OMC3.1	<p>The curriculum of the Programme shall be any combination of following type of courses:</p> <p>i) 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.</p> <p>ii) 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.</p>

17OMC3.1 (continued)	<p>iii) Open Electives Courses (OE), from other technical and/ or emerging specialization areas.</p> <p>iv) Project Work, Seminar.</p> <p>v) Audit Courses (AC):</p> <p>(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).</p> <p>(b) The students admitted to I semester and interested in audit courses can register for one audit course at a time during II to VI semester. The students admitted to III semester under lateral entry scheme and interested in audit courses can register for one audit course at a time during IV to VI semester. Students who have registered to audit 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.</p> <p>(c) Registration for any audit course, in writing, shall be completed at the beginning of each semester. 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.</p> <p>vi) Professional training/Internship (referred to as Internship): Preferably at an industry/R and D organization/IT company/ Government organization/Business organization of significant repute for a specified period mentioned in Scheme of Teaching and Examination.</p>
17OMC3.2	<p>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.</p>
17OMC3.3	<p>The minimum number of students to be registered for an Elective to be offered shall not be less than ten.</p> <p>However, the above condition shall not be applicable when the class strength is less</p>
17OMC4.0	<p>Internship</p>
17OMC4.1	<p>Internship: The student shall undergo Internship for the specified period as per the Scheme of Teaching and Examination.</p> <ol style="list-style-type: none"> 1. The internship can be carried out in any industry/R&D Organization/Business 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 during the student's 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.

17OMC4.1 (continued)	<p>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.</p> <p>6. There shall be 100 marks for CIE (Presentation: 50 marks, Report: 50 marks) and shall be evaluated by the internal panel.</p> <p>7. 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.</p>
17OMC4.2	<p>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 the prescribed credits shall not be awarded in that Course. The student, however, can submit the project dissertation and appear for viva voce.</p> <p>The student shall be eligible for the internship credits only after satisfying the conditions prescribed for the same during the subsequent academic year. The reappearance shall be considered as an attempt.</p>
17OMC5.0	Seminar
17OMC5.1	<p>Seminar: Seminar is one of the head of passing.</p> <p>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.</p> <p>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 17OMC10.3]</p>
17OMC6.0	Project
17OMC6.1	<p>Project work and Dissertation:</p> <p>Each candidate shall carry out the project work independently as per Scheme of Teaching and Examinations under the guidance of one of the faculty members of the Department in the Institution of study. If the project is of inter-disciplinary nature, a co-guide shall be taken from the other concerned department.</p> <p>The topic and title of the dissertation shall be chosen by the candidate in consultation with the guide and co-guide, if any, before the commencement of VI semester.</p> <p>The subject and topic of the dissertation shall be from the major field of studies of the candidate. Modification of only the title but not the field of work may be permitted at the time of final submission of dissertation report during sixth semester. If dissertation has to be carried out in any industry/R&D labs, outside the campus, permission shall be taken from the Principal to that effect.</p> <p>The Principal, shall submit to the University a list showing the name of the student, University Seat Number, title of the project, name/s of the guide/co-guide, at the time of submission of project report to the University.</p>
17OMC6.2	<p>Project is one of the head of passing.</p> <p>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).</p> <p>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.</p>

17OMC6.3	<p>Plagiarism Check</p> <p>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%.</p> <p>If the check indicates a plagiarism index greater than 25% :</p> <ul style="list-style-type: none"> • 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). • for the second time, the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (Rupees four thousand only). • 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 17OMC1.3.
17OMC6.4	<p>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.</p>
17OMC6.5	<p>Examiners shall evaluate the dissertation normally within a period of not more than two weeks from the date of receipt of dissertation through email.</p>
17OMC6.6	<p>The examiners shall independently submit the marks through the specified link.</p>
17OMC6.7	<p>Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.</p>
17OMC6.8	<p>(a) Viva-voce examination of the candidate shall be conducted as per 17OMC6.10, if the dissertation work and the reports are accepted by the external examiner (first).</p> <p>(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.</p> <p>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.</p> <p>(c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 17OMC6.8 (b)] of the external examiner (first) and satisfying the provision 17OMC6.3 shall 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 17OMC6.10.</p> <p>(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 17OMC6.10. 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 17OMC1.3. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.</p> <p>(e) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 17OMC6.8 (b)], the same will be sent to a Second Examiner (external) [not necessarily the same examiner considered under 17OMC6.8 (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 17OMC6.10.</p>

17OMC6.8 (continued)	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 17OMC1.3. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.																																							
17OMC6.9	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 subject to provisions of 17OMC1.3.																																							
17OMC6.10	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.																																							
17OMC6.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.																																							
17OMC6.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.																																							
17OMC6.13	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.																																							
17OMC6.14	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.																																							
17OMC7.0	Computation of SGPA and CGPA																																							
17OMC7.1	<p>(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.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p> <table border="1" data-bbox="347 1285 1398 1547"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td><90</td> <td>< 80</td> <td>< 70</td> <td>< 60</td> <td><45</td> <td><42</td> </tr> <tr> <td>(90 -100)</td> <td>(80 - 89)</td> <td>(70 - 79)</td> <td>(60 - 69)</td> <td>(45 - 59)</td> <td>(42 - 44)</td> <td>(0 - 41)</td> </tr> </tbody> </table> <p>(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.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	<45	<42	(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(45 - 59)	(42 - 44)	(0 - 41)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																	
Letter Grade	S	A	B	C	D	E	F																																	
Grade Points	10	9	8	7	6	4	00																																	
Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	<45	<42																																	
	(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(45 - 59)	(42 - 44)	(0 - 41)																																	

17OMC7.2

Computation of SGPA and CGPA

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_i is the number of credits of the i^{th} Course and G_i 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.,

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

Where S_i is the SGPA of the i^{th} 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.

Illustration for Computation of SGPA and CGPA**Illustration No.1**

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	E	04	3 × 04 = 12
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	174

Thus, SGPA = 174/25 = 6.96

Illustration No.2

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	F	00	3 × 00 = 00
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	162

Thus, SGPA = 162/25 = 6.48

17OMC6.8 (continued)	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 17OMC1.3. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.																																								
17OMC6.9	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 subject to provisions of 17OMC1.3.																																								
17OMC6.10	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.																																								
17OMC6.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.																																								
17OMC6.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.																																								
17OMC6.13	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.																																								
17OMC6.14	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.																																								
17OMC7.0	Computation of SGPA and CGPA																																								
17OMC7.1	<p>(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.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p> <table border="1" data-bbox="343 1285 1407 1547"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td>Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td><90</td> <td>< 80</td> <td>< 70</td> <td>< 60</td> <td><45</td> <td><42</td> </tr> <tr> <td></td> <td>(90 -100)</td> <td>(80 - 89)</td> <td>(70 - 79)</td> <td>(60 - 69)</td> <td>(45 - 59)</td> <td>(42 - 44)</td> <td>(0 - 41)</td> </tr> </tbody> </table> <p>(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.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	<45	<42		(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(45 - 59)	(42 - 44)	(0 - 41)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																		
Letter Grade	S	A	B	C	D	E	F																																		
Grade Points	10	9	8	7	6	4	00																																		
Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	<45	<42																																		
	(90 -100)	(80 - 89)	(70 - 79)	(60 - 69)	(45 - 59)	(42 - 44)	(0 - 41)																																		

**17OMC7.2
(continued)**

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	C	07	7 × 03 = 21

Total Credit Points = Credit Points of first Attempt) + Credit Points of subsequent attempt
= 162 + 21 = 183

Total credits of the semester = 25

Thus, SGPA = 183/25 = 7.32

Illustration No.3

Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)
Course 1	4	B	08	4 × 08 = 32
Course 2	4	D	06	4 × 06 = 24
Course 3	4	C	07	4 × 07 = 28
Course 4	3	S	10	3 × 10 = 30
Course 5	3	A	09	3 × 09 = 27
Course 6	3	D	06	3 × 06 = 18
Course 7	2	A	09	2 × 09 = 18
Course 8	2	D	06	2 × 06 = 12
Total	25	--	--	189

Thus, SGPA = 189/25 = 7.56

$$CGPA \text{ (from illustrations 2 and 3)} = \frac{25 \times 7.32 + 25 \times 7.56}{50} = 7.44$$

Semester	I	II	III	IV	V	VI
Credits of the semester	26	26	25	24	25	24
SGPA	7.08	6.08	7.92	9.24	8.75	9.60

$$\text{Thus CGPA} = \frac{(26 \times 7.08 + 26 \times 6.08 + 25 \times 7.92 + 24 \times 9.24 + 25 \times 8.75 + 24 \times 9.60)}{150} = 8.07$$

17OMC7.3

Transcript Format: Based on the secured letter grades, grade points, SGPA and CGPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters shall be issued.

17OMC8.0

Conversions of Grades into Percentage and Declaration of Class

17OMC8.1

Conversions of Grades into Percentage and Declaration of Class

Conversion formula for the conversion of CGPA into percentage is given below
percentage of marks secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$

Illustration for a CGPA of 8.20:

$$P = [CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5 \%$$

17OMC8.2

Class Declaration:

After the conversion of final CGPA into percentage of marks (P), a graduating student is declared to have passed in

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

17OMC9.0	Continuous Internal Evaluation and Semester End Evaluation
17OMC9.1	There shall be a maximum of 20 CIE Marks in each theory and practical paper. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE of each Theory course/ Laboratory/Internship /Project/Dissertation. [To be read along with 17OMC9.8]
17OMC9.2	CIE Marks shall be based on a) Tests (for 10 Marks) and b) Assignments, Quiz, Simulation, Experimentation, Mini project, oral examination, field work etc., (for 10 Marks) conducted in respective courses.
17OMC9.3	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.
17OMC9.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 17OMC9.2 (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).
17OMC9.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.
17OMC9.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.
17OMC9.7	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.
17OMC9.8	Candidates obtaining less than 50% of the CIE marks in any course (Theory/Laboratory/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 academic year subject to the provision of 17OMC1.3.
17OMC9.9	Semester End Evaluation: There shall be a University examination at the end of each semester. Setting Theory Question Papers and Evaluation: Question papers in theory courses shall be set by the Examiners appointed by the University.
17OMC9.10	There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
17OMC9.11	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.
17OMC9.12	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.

17OMC10.0	Eligibility for Passing and Award of Degree
17OMC10.1	<p>(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.</p> <p>(2) A student will be declared successful at the Semester-end or Programme-end only on obtaining 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.</p> <p>(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 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.</p>
17OMC10.2	For a pass in a theory course student shall secure minimum of 40% of the maximum marks prescribed in the Semester End Examination, and 50 % of marks in CIE and 42 % in the aggregate of CIE and SEE marks. The Minimum Passing Grade in a course is E.
17OMC10.3	For a pass in Internship/Practical/ Seminar/Project/Dissertation/Viva-voce examination, a student shall secure a minimum of 50% of the maximum marks prescribed for the SEE in Internship/Seminar/Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
17OMC10.4	VI semester 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.
17OMC10.5	A candidate may at his/her desire reject his/her latest semester, except the VI semester, results of University examination in respect to all courses of that semester. 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.
17OMC10.6	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.
17OMC10.7	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.
17OMC10.8	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.
17OMC10.9	Eligibility for Award of Degree: A student shall be declared to have completed the degree of Master of Computer Applications, 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.
17OMC11.0	Attendance Requirement

17OMC11.1	<p>Registration and Enrolment:</p> <p>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.</p> <p>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.</p> <p>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.</p>
17OMC11.2	Courses of each semester shall be treated as a separate unit for calculation of the attendance.
16OMC11.3	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.
17OMC11.4	In case of late admission, approved by competent authority (Karnataka Examination Authority/VTU), to I/III semester of the programme the attendance shall be reckoned from the date of admission to the programme.
17OMC11.5	A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 17OMC11.3 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 academic year.
17OMC11.6	Principals of the concerned colleges shall notify regularly, the list of candidates who fall short of attendance.
17OMC11.7	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.
17OMC12.0	Promotion and Eligibility
17OMC12.1	<p>Promotion:</p> <p>There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.</p>
17OMC12.2	<p>A candidate shall be eligible for promotion from an even semester to the odd semester (i.e. to the next academic year) if the candidate has not failed in more than four heads of passing of the immediately preceding two semesters put together and has passed in all the courses of all the lower semester examinations. A theory or practical shall be treated as a head of passing.</p> <p>Illustrations:</p> <p>Case: 1 Candidates admitted to I year/I semester of the programme.</p> <p>a. A candidate seeking eligibility to III semester should not have failed in more than 4 heads of passing of first and second semesters taken together.</p> <p>b. A candidate seeking eligibility to V semester should have passed in all the courses of I and II semesters and should not have failed in more than 4 heads of passing of III and IV semesters taken together</p> <p>Case: 2 Candidates admitted to II year/III semester of the programme under lateral entry scheme.</p> <p>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.</p>

17OMC12.3	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.
17OMC13.0	Temporary Discontinuation/Break in the Program
17OMC13.1	<p>(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 17OMC1.3. 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.</p> <p>(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.</p>
17OMC14.0	Award of Prizes, Medals and Ranks
17OMC14.1	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.
17OMC14.2	<p>(1) For award of rank in Master of Computer Applications, the CGPA secured by the student from I to VI semester is considered.</p> <p>(2) A student shall be eligible for a rank at the time of award of degree of Master of Computer Applications, provided the student</p> <ol style="list-style-type: none"> a. Is not a repeater in any semester b. Has not rejected the results of any semester. c. Has passed I to VI semester in all the courses in first attempt only <p>(3) The total number of ranks awarded shall be 10% of total number of students appeared in VI semester subject to a maximum of 10 ranks.</p> <p>Illustration:</p> <ol style="list-style-type: none"> (a) If 150 students appeared for the VI semester, the number of ranks to be declared will be 10. (b) If 84 students appeared for the VI semester, the number of ranks to be declared 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. <p>Ranks are awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.</p>

17OMC15.0	Applicability and Power to Modify
17OMC15.1	The regulations governing the Degree of Master of Computer Applications of Visvesvaraya Technological University shall be binding on all concerned.
17OMC15.2	i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty. ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.

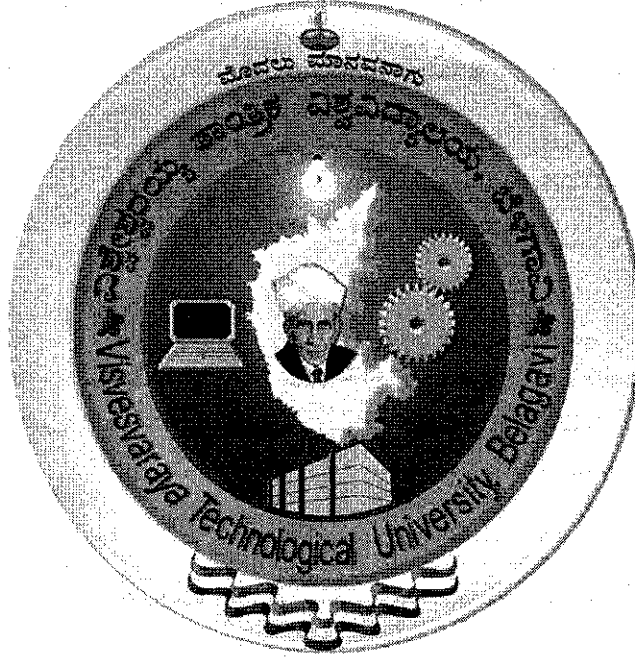


VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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 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**

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 2018 -19

CONTENTS		
Regulation Clause	Title	Page Number
--	Definitions of Keywords	03
18OMT1.0	Title, Duration and Credits of the Programme of Study	06
18OMT2.0	Eligibility for Admission (As per the Government orders issued from time to time)	06
18OMT3.0	Courses	08
18OMT4.0	Internship	09
18OMT5.0	Seminar and Project	10
18OMT6.0	Computation of SGPA and CGPA	12
18OMT7.0	Conversions of Grades into Percentage and Class Equivalence	14
18OMT8.0	Continuous Internal Evaluation and Semester End Evaluation	14
18OMT9.0	Eligibility for Passing and Award of Degree	15
18OMT10.0	Attendance Requirement	16
18OMT11.0	Promotion and Eligibility	16
18OMT12.0	Temporary Discontinuation/Break in the Program	17
18OMT13.0	Award of Prizes, Medals and Ranks	17
18OMT14.0	Applicability and Power to Modify	18

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 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:

- 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.
- 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.

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 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.

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 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	S	A	B	C	D	E	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:18OMT6.0]

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 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.



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 2018 -19

Clause	Particulars
18OMT1.0	Title, Duration and Credits of the Programme of Study
18OMT1.1	The Programme shall be called Master of Technology (Subject of Specialization), abbreviated as M.Tech. (Subject of Specialization).
18OMT1.2	There shall be two categories of Programme: 1) Full-time Programme (FT), and 2) Part-Time Programme (PT)
18OMT1.3	Full-time Programme: The Programme shall extend over a period of four semesters and each semester shall have 16 weeks duration.
18OMT1.4	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 and second semesters along with the regular three courses.
18OMT 1.5	Maximum Duration for Programme Completion: (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.
18OMT1.6	Prescribed Number of Credits for the Programme: The number of credits to be completed for the award of degree shall be 88.
18OMT1.7	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)
18OMT2.1	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.

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 2018 -19

18OMT2.2	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 18OMT 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.
18OMT2.4	<p>For admissions under GATE/ PGCET qualification and Roaster system of Government of Karnataka:</p> <p>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.</p> <p>For admissions under Management Quota:</p> <p>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.</p> <p>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.</p> <p>For admissions under Sponsored Quota:</p> <p>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.</p>
18OMT2.5	<p>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.</p> <p>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.</p>
18OMT2.6	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.
18OMT2.7	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.

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 2018 -19

18OMT2.9	<p>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.</p> <p>Preference for admission under 18OMT2.8 and 2.9 shall be given to candidates sponsored by organizations of State and Central Governments.</p>
18OMT2.10	<p>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.</p>
18OMT2.11	<p>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.</p>
18OMT2.12	<p>Admission to vacant seats:</p> <p>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/ PG CET 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.</p>
18OMT3.0	<p>Courses</p>
18OMT3.1	<p>The curriculum of the Programme shall be any combination of following type of courses:</p> <ol style="list-style-type: none">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):<ol style="list-style-type: none">(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.

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 2018 -19

<p>18OMT3.1 (continued)</p>	<p>(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.</p> <p>(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.</p> <p>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.</p>
<p>18OMT4.0</p>	<p>Internship</p>
<p>18OMT4.1</p>	<p>Internship: The student shall undergo Internship as per the Scheme of Teaching and Examination.</p> <ol style="list-style-type: none"> 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.

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 2018 -19

18OMT4.2	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.
18OMT5.0	Seminar and Project
18OMT5.1	<p>Seminar: Seminar is one of the head of passing.</p> <p>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.</p> <p>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]</p>
18OMT5.2	<p>Project Work: Project is one of the head of passing.</p> <p>Project work shall preferably be on individual basis.</p> <p>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).</p> <p>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.</p>
18OMT5.3	<p>Plagiarism Check</p> <p>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%.</p> <p>If the check indicates a plagiarism index greater than 25% :</p> <ul style="list-style-type: none"> • 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. • 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. • 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.
18OMT5.4	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.
18OMT5.5	Examiners shall evaluate the dissertation normally within a period of not more than two weeks from the date of receipt of dissertation through email.
18OMT5.6	The examiners shall independently submit the marks through the specified link.
18OMT5.7	Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.

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 2018 -19

18OMT5.8	<p>(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).</p> <p>(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.</p> <p>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.</p> <p>(c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 18OMT5.8 (b)] of the external examiner (first) and satisfying the provision 18OMT5.3 shall 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.</p> <p>(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 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.</p> <p>(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.</p>
18OMT5.9	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.
18OMT5.10	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.
18OMT5.11	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.
18OMT5.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.

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 2018 -19

18OMT5.13	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.																																							
18OMT5.14	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.																																							
18OMT6.0	Computation of SGPA and CGPA																																							
18OMT6.1	<p>(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.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td><90</td> <td>< 80</td> <td>< 70</td> <td>< 60</td> <td>< 55</td> <td>< 50</td> </tr> <tr> <td>(90 -100)</td> <td>≥80</td> <td>≥70</td> <td>≥60</td> <td>≥ 55</td> <td>≥50</td> <td>(0 - 49)</td> </tr> </tbody> </table> <p>(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.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50	(90 -100)	≥80	≥70	≥60	≥ 55	≥50	(0 - 49)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																	
Letter Grade	S	A	B	C	D	E	F																																	
Grade Points	10	9	8	7	6	4	00																																	
Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50																																	
	(90 -100)	≥80	≥70	≥60	≥ 55	≥50	(0 - 49)																																	
18OMT6.2	<p>Grade Point Averages:</p> <p>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,</p> $SGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all the Courses in that Semester}}{\sum[\text{Course Credits}] \text{ for all the Courses in that Semester}}$ $CGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all Courses excluding those with F and transitional grades until that Semester}}{\sum[\text{Course Credits}] \text{ for all Courses excluding those with F grades until that semester}}$																																							

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 2018 -19

18OMT6.2
(continued)

(a) SGPA and CGPA Calculations: An Illustrative Example for one academic year						
Semester (Odd: I, Even: II)	Course Number	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
I	XX101	5:0:0 = 5	B	8	5 × 8 = 40	$SGPA = \frac{117}{25}$ = 4.68
I	XX102	3:2:0 = 5	Absent(F)	0	5 × 0 = 00	
I	XX103	3:0:0 = 3	A	9	3 × 9 = 27	
I	XX104	0:1:1 = 2	F	0	2 × 0 = 00	
I	XX105	4:1:0 = 5	D	6	5 × 6 = 30	
I	XX106	5:0:0 = 5	E	4	5 × 4 = 20	
Total		25 (18*)	Total		117	
(18*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.						
II	XX107	3:1:1 = 5	C	7	5 × 7 = 35	$SGPA = \frac{157}{25}$ = 6.28
II	XX108	4:0:0 = 4	B	8	4 × 8 = 32	
II	XX109	3:0:0 = 3	D	6	3 × 6 = 18	
II	XX110	4:1:0 = 5	E	4	5 × 4 = 20	$CGPA = \frac{(117 + 157)}{18 + 23}$ = 274/41 = 6.68
II	XX111	2:1:1 = 4	A	9	4 × 9 = 36	
II	XX112	2:0:0 = 2	F	0	2 × 0 = 00	
II	XX113	0:2:0 = 2	B	8	2 × 8 = 16	
Total		25 (23*)	Total		157	
(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	XX102	3:2:0 = 5	D	6	5 × 6 = 30	$SGPA (I Semester)$ $= \frac{117 + 30 + 14}{25}$ = 161/25 = 6.44
I	XX104	0:1:1 = 2	C	7	2 × 7 = 14	
II	XX112	2:0:0 = 2	D	6	2 × 6 = 12	$SGPA (II Semester)$ $= (157 + 12)/25$ = 169/25 = 6.76
$CGPA \text{ at the end of the academic year after passing all the Courses of the two consecutive semesters under consideration} = \frac{(6.44 \times 25 + 6.76 \times 25)}{50} = 6.60 \blacksquare$						
(b) CGPA Calculation of the Programme: An Illustrative Example						
Semester	I	II	III	IV		
Credits of the semester	24	24	20	20		
SGPA	7.00	8.50	9.20	6.86		
$CGPA = \frac{(24 \times 7.00 + 24 \times 8.50 + 20 \times 9.20 + 20 \times 6.86)}{88} = 7.88 \blacksquare$						

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 2018 -19

18OMT6.3	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. ■
18OMT7.0	Conversions of Grades into Percentage and Class Equivalence Conversion formula for the conversion of CGPA into percentage is given below: Percentage of marks secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ Illustration For A CGPA Of 8.20: $P = [CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5 \%$
18OMT7.1	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 $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $<70\%$ and (iii) Second Class (SC) if $P < 60\%$.
18OMT8.0	Continuous Internal Evaluation and Semester End Evaluation
18OMT8.1	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 18OMT8.8]
18OMT8.2	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.
18OMT8.3	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).
18OMT8.5	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.

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 2018 -19

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.
18OMT8.12	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.
18OMT9.0	Eligibility for Passing and Award of Degree
18OMT9.1	(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 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.
18OMT9.4	For a pass, a candidate shall obtain a minimum of 50% of maximum marks in Seminar.
18OMT9.5	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.

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 2018 -19

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.
18OMT9.10	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.
18OMT10.0	Attendance Requirement
18OMT10.1	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.
18OMT10.2	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.
18OMT10.5	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.
18OMT10.7	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.
18OMT11.0	Promotion and Eligibility
18OMT11.1	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.

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 2018 -19

18OMT11.2	<p>(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).</p> <p>(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.</p> <p>(c) Each credit course shall be treated as a head of passing.</p>
18OMT11.3	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.
18OMT12.0	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, 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.
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 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.
18OMT13.0	Award of Prizes, Medals and Ranks
18OMT13.1	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.
18OMT13.2	<p>(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.</p> <p>(2) A student shall be eligible for a rank at the time of award of degree of Master of Technology, provided the student</p> <ol style="list-style-type: none"> 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 <p>(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.</p> <p>(4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the IV semester examination.</p> <p>Illustration:</p> <p>(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.</p>

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 2018 -19

18OMT13.2 (continued)	<p>(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.</p> <p>(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.</p> <p>(5) Students under Part-time Programme are not considered for Rank declaration.</p>
18OMT13.3	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
18OMT14.1	The regulations governing the Degree of Master of Technology of Visvesvaraya Technological University shall be binding on all concerned.
18OMT14.2	<p>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</p> <p>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.</p>



14

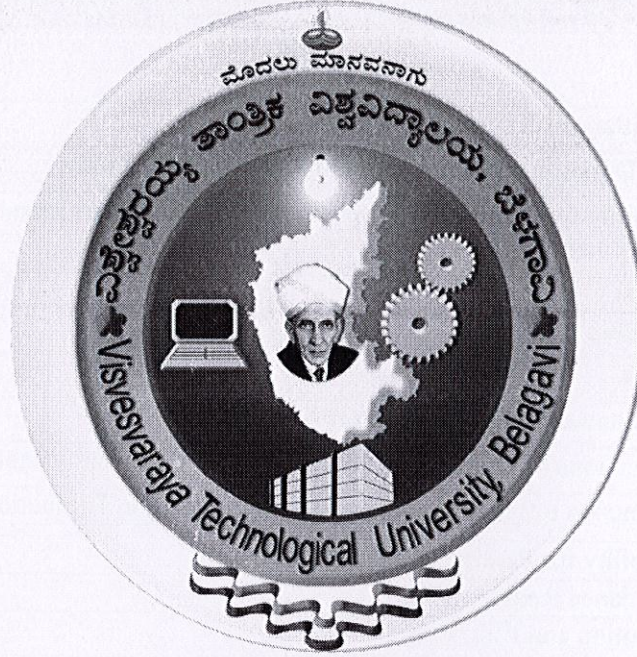
16-17-18-19

Visvesvaraya Technological University, Belagavi

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 MASTER OF BUSINESS ADMINISTRATION (MBA)
UNDER OUTCOME BASED EDUCATION (OBE)
AND
CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME
Effective from academic year 2018 -19**

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

CONTENTS		
Regulation Clause	Title	Page Number
--	Definitions of Keywords	03
18OMB1.0	Title, Duration and Credits of the Programme of Study	06
18OMB2.0	Eligibility for Admission (As per the Government orders issued from time to time)	06
18OMB3.0	Courses	07
18OMB4.0	Internship	08
18OMB5.0	Project	09
18OMB6.0	Computation of SGPA and CGPA	11
18OMB7.0	Conversions of Grades into Percentage and Class equivalence	13
18OMB8.0	Continuous Internal Evaluation and Semester End Evaluation	13
18OMB9.0	Eligibility for Passing and Award of Degree	14
18OMB10.0	Attendance Requirement	15
18OMB11.0	Promotion and Eligibility	15
18OMB12.0	Temporary Discontinuation/Break in the Program	16
18OMB13.0	Award of Prizes, Medals and Ranks	16
18OMB14.0	Applicability and Power to Modify	17

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
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 Master of Business Administration (MBA) Programme:

- 1) **Programme:** Is an educational programme in Business Administration 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/ quiz etc., or a combination of some of these.
- 2) **Branch:** Means specialization or discipline of MBA.
- 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/quiz 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, oral examination, group discussion, quiz, mini-project, outreach activities 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. 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.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

- 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.

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

- 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: 18OMB6.0]. 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	A	B	C	D	E	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 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:18OMB6.0]
- 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: 18OMB6.0]
- 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

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

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.



Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB1.0	Title, Duration and Credits of the Programme of Study
18OMB1.1	The Programme shall be called Master of Business Administration (Subject of Specialization) abbreviated as MBA (Subject of Specialization).
18OMB1.2	The Programme shall be a full time programme extended over a period of two academic year duration divided into four semesters and each semester shall be of 16 weeks duration.
18OMB1.3	Maximum Duration for Programme Completion: A candidate shall be allowed a maximum duration of 4 years from the first semester of admission to become eligible for the award of the Degree, failing which he/she may discontinue the program or register once again as a fresh candidate to I semester.
18OMB1.4	Prescribed Number of Credits for the Programme: The number of credits to be completed for the award of degree shall be 100.
18OMB1.5	The Calendar of events in respect of the Programme shall be notified by the University in advance.
18OMB2.0	Eligibility for Admission (As per the Government orders issued from time to time)
18OMB2.1	Admission to MBA Program shall be open to the candidates who have passed recognized Bachelor's Degree of minimum of 3 years duration or equivalent examination and obtained an aggregate minimum of 50% marks taken together in all the subjects including languages in all the years of the Degree Examination and 45% of marks in case of SC, ST and Category-I of Karnataka candidates. (Reservation is applicable only for Karnataka Candidates).
18OMB2.2	For admissions under PG CET qualification and Roaster system of Government of Karnataka: There shall be an Entrance Examination (PGCET) for admission to the MBA programme. A candidate seeking admission to MBA Programme offered in any of the Engineering Colleges affiliated to VTU shall appear for this Examination. For admission under Government quota, ranks obtained in PGCET entrance examination, conducted by Karnataka Examination Authority (KEA), shall be considered. For admissions under Management Quota: The candidates should have appeared for the Entrance Examination conducted by KEA (PGCET)/ Karnataka Management Aptitude Test (KMAT) or appeared and qualified under any approved entrance examination conducted by the authority recognized by Government of Karnataka/VTU /any other University of Karnataka state. Further, there shall be an Admissions Committee for the MBA Program consisting of the Principal of the College as the Chairman, Head of the concerned Department and one senior staff member of the concerned Department. The Admissions Committee conducts the interview and selects the candidates for admission.
18OMB2.3	(i) The candidates from Universities other than the Universities of Karnataka shall have to obtain Eligibility Certificate from the VTU to seek admission to MBA program in any of the college affiliated to VTU. (ii) The candidates from foreign countries shall have to obtain Eligibility Certificate from the VTU to seek admission to MBA program in any of the college affiliated to VTU. Further, they have to produce equivalence certificate from the Association of Indian Universities.
18OMB2.4	The intake under various categories (regular, SC/ST and category I) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB2.5	<p>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 PG CET 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.</p>
18OMB3.0	Courses
18OMB3.1	<p>The curriculum of the Programme shall be any combination of following type of courses:</p> <ul style="list-style-type: none"> i) 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. ii) 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. iii) Open Electives Courses (OE) - from other technical and/ or emerging specialization areas. iv) Project Work, Seminar. v) Audit Courses (AC): <ul style="list-style-type: none"> (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). (b) The students interested in audit courses can register for one audit course at a time during II to IV semester. <p>Students who have registered to audit 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.</p> (c) Registration for any audit course, in writing, shall be completed at the beginning of each semester. 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. vi) Professional training/Internship (referred to as Internship): Preferably at an industry/ R and D organization/IT company/ Government organization/Business organization of significant repute for a specified period mentioned in Scheme of Teaching and Examination.
18OMB3.2	<p>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.</p>

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB3.3	The minimum number of students to be registered for an Elective to be offered shall not be less than ten. However, the above condition shall not be applicable when the class strength is less than ten.
18OMB4.0	Internship
18OMB4.1	<p>Internship: The student shall undergo Internship/Organization study as per the Scheme of Teaching and Examination.</p> <ol style="list-style-type: none"> 1. The internship shall be carried out in any industry/R&D Organization/Research Institute/Institute of national and international repute Business organization/ 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/ Organization study report: 20) and 60 marks for Viva – Voce conducted during SEE. [To be read along with 18OMB 8.1 and 9.3] 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 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. 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 signed marks list, soon after the examination, via email/any electronic media. 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.
18OMB4.2	<p>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 the prescribed credits shall not be awarded in that Course. The student, however, can submit the project dissertation and appear for viva voce.</p> <p>The student shall be eligible for the internship credits only after satisfying the conditions prescribed for the same during the subsequent academic year. The reappearance shall be considered as an attempt.</p>

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB5.0	Project
18OMB5.1	<p>Project work and Dissertation: Each candidate shall carry out the project work independently as per Scheme of Teaching and Examinations under the guidance of one of the faculty members of the Department in the Institution of study. If the project is of inter-disciplinary nature, a co-guide shall be taken from the other concerned department. The topic and title of the dissertation shall be chosen by the candidate in consultation with the guide and co-guide, if any, during the III semester itself. The subject and topic of the dissertation shall be from the major field of studies of the candidate. Modification of only the title but not the field of work may be permitted at the time of final submission of dissertation report during IV semester. If dissertation has to be carried out in any industry/R&D labs/business organizations, outside the campus, permission shall be taken from the Principal to that effect. The Principal, shall submit a list showing the name of the student, University Seat Number, title of the project, name/s of the guide/co-guide at the time of submission of project report to the University.</p>
18OMB5.2	<p>Project is one of the head of passing. 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.</p>
18OMB5.3	<p>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%:</p> <ul style="list-style-type: none"> • 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). • for the second time, the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (Rupees four thousand only). • 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 18OMB1.5.
18OMB5.4	<p>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.</p>
18OMB5.5	<p>Examiners shall evaluate the dissertation normally within a period of not more than two weeks from the date of receipt of dissertation through email.</p>
18OMB5.6	<p>The examiners shall independently submit the marks through the specified link.</p>

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB5.7	Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.
18OMB5.8	<p>(a) Viva-voce examination of the candidate shall be conducted as per 18OMB5.10, if the dissertation work and the reports are accepted by the external examiner (first).</p> <p>(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.</p> <p>(c) The resubmitted Dissertation incorporating the modifications/suggestions [as per 18OMB5.8 (b)] of the external examiner (first) and satisfying the provision 18OMB5.3 shall 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 18OMB5.10.</p> <p>(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 18OMB5.10. 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 18OMB1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.</p> <p>(e) In case of rejection of Dissertation, with reasons, by the external examiner (first) [as per 18OMB5.8 (b)], the same will be sent to a Second Examiner (external) [not necessarily the same examiner considered under 18OMB5.8 (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 18OMB5.10. 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 18OMB1.5. In such cases of rejection, the candidate shall redo the entire procedure starting from the submission of Dissertation in soft copy.</p>
18OMB5.9	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 from the date of admission to the Programme.
18OMB5.10	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.
18OMB5.11	The relative weights for the evaluation of dissertation and the performance at the viva voce shall be as per the scheme of teaching & examination.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB5.12	The marks awarded by both the Examiners at the viva voce Examination shall be sent jointly to the University immediately after the examination.																																							
18OMB5.13	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.																																							
18OMB5.14	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.																																							
18OMB6.0	Computation of SGPA and CGPA																																							
18OMB6.1	<p>(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.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td><90</td> <td>< 80</td> <td>< 70</td> <td>< 60</td> <td>< 55</td> <td>< 50</td> </tr> <tr> <td>(90 -100)</td> <td>≥80 (80 - 89)</td> <td>≥70 (70 - 79)</td> <td>≥60 (60 - 69)</td> <td>≥ 55 (55 - 59)</td> <td>≥50 (50- 54)</td> <td>(0 - 49)</td> </tr> </tbody> </table> <p>(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.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50	(90 -100)	≥80 (80 - 89)	≥70 (70 - 79)	≥60 (60 - 69)	≥ 55 (55 - 59)	≥50 (50- 54)	(0 - 49)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																	
Letter Grade	S	A	B	C	D	E	F																																	
Grade Points	10	9	8	7	6	4	00																																	
Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 55	< 50																																	
	(90 -100)	≥80 (80 - 89)	≥70 (70 - 79)	≥60 (60 - 69)	≥ 55 (55 - 59)	≥50 (50- 54)	(0 - 49)																																	
18OMB6.2	<p>Computation of SGPA and CGPA</p> <p>The following expressions shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:</p> $SGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all the Courses in that Semester}}{\sum[\text{Course Credits}] \text{ for all the Courses in that Semester}}$ $CGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all Courses excluding those with F grades until that Semester}}{\sum[\text{Course Credits}] \text{ for all Courses excluding those with F grades until that semester}}$																																							

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB6.2
(continued)

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

Semester (Odd :I, Even: II)	Course Number	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
I	XX101	5:0:0 = 5	B	8	5 × 8 = 40	$SGPA = \frac{117}{25}$ $= 4.68$
I	XX102	3:2:0 = 5	Absent(F)	0	5 × 0 = 00	
I	XX103	3:0:0 = 3	A	9	3 × 9 = 27	
I	XX104	0:1:1 = 2	F	0	2 × 0 = 00	
I	XX105	4:1:0 = 5	D	6	5 × 6 = 30	
I	XX106	5:0:0 = 5	E	4	5 × 4 = 20	
Total		25 (18*)	Total		117	

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

II	XX107	3:1:1 = 5	C	7	5 × 7 = 35	$SGPA = \frac{157}{25}$ $= 6.28$
II	XX108	4:0:0 = 4	B	8	4 × 8 = 32	
II	XX109	3:0:0 = 3	D	6	3 × 6 = 18	
II	XX110	4:1:0 = 5	E	4	5 × 4 = 20	
II	XX111	2:1:1 = 4	A	9	4 × 9 = 36	$CGPA$ $= \frac{(117 + 157)}{18 + 23}$ $= 274/41 = 6.68$
II	XX112	2:0:0 = 2	F	0	2 × 0 = 00	
II	XX113	0:2:0 = 2	B	8	2 × 8 = 16	
Total		25 (23*)	Total		157	

(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	XX102	3:2:0 = 5	D	6	5 × 6 = 30	$SGPA (I Semester)$ $= \frac{117 + 30 + 14}{25}$ $= 161/25 = 6.44$
I	XX104	0:1:1 = 2	C	7	2 × 7 = 14	
II	XX112	2:0:0 = 2	D	6	2 × 6 = 12	$SGPA (II Semester)$ $= (157 + 12)/25$ $= 169/25 = 6.76$

CGPA at the end of the academic year after passing all the Courses of the two consecutive 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

Semester	I	II	III	IV
Credits of the semester	24	24	28	24
SGPA	7.00	8.50	9.20	6.86
$CGPA = \frac{(24 \times 7.00 + 24 \times 8.50 + 28 \times 9.20 + 24 \times 6.86)}{100} = 7.94 \blacksquare$				

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB6.3	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. ■
18OMB7.0	Conversions of Grades into Percentage and Class Equivalence
18OMB7.1	Conversions of Grades into Percentage Conversion formula for the conversion of CGPA into percentage is given below: Percentage of marks secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ Illustration for a CGPA of 8.20: $P = [CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5 \%$
18OMB7.2	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 $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $<70\%$ and (iii) Second Class (SC) if $P < 60\%$.
18OMB8.0	Continuous Internal Evaluation and Semester End Evaluation
18OMB8.1	There shall be a maximum of 40 CIE Marks in each theory. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE of each Theory course/ Internship /Project/Dissertation. [To be read along with 18OMB8.8]
18OMB8.2	CIE Marks shall be based on a) Tests (for 25Marks) and b) Assignments, Quiz, Simulation, Experimentation, Mini project, oral examination, field work etc., (for 15 Marks) conducted in respective courses.
18OMB8.3	The CIE marks in a theory course, for 25 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.
18OMB8.4	The candidates shall write the Tests in Blue Book/s. The Blue book/s and other documents relating to award of CIE marks under 18OMB8.2 (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).
18OMB8.5	Every page of the CIE marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.
18OMB8.6	The CIE marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before submitting to the University.
18OMB8.7	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.
18OMB8.8	Candidates obtaining less than 50% of the CIE marks in any course (Theory/ 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 when offered in the subsequent semester subject to the provision of 18OMB1.5.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB8.9	Semester End Evaluation: There shall be a University examination at the end of each semester. Setting Theory Question Papers and Evaluation: Question papers in theory courses shall be set by the Examiners appointed by the University.
18OMB8.10	There shall be double valuation of theory papers. The theory Answer booklets shall be valued independently by two examiners appointed by the University.
18OMB8.11	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.
18OMB8.12	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.
18OMB9.0	Eligibility for Passing and Award of Degree
18OMB9.1	(1) A student who obtains any grade S to E shall be considered as pass 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 ≥ 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 and times, subject to the provision of 18OMB1.5, to make up CGPA ≥ 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.
18OMB9.2	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.
18OMB9.3	For a pass in Internship/ Project/Dissertation/Viva-voce examination, a student shall secure a minimum of 50 % of the maximum marks prescribed for the SEE in Internship/ Project/Dissertation/Viva-voce. The Minimum Passing Grade in a course is E.
18OMB9.4	IV semester students 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 student completes all the backlog courses and become eligible for the award of degree. [To be read along with 18OMB11.2].
18OMB9.5	A candidate may at his/her desire reject his/her latest semester, except the IV semester, results of University examination in respect to all courses of that semester. 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.
18OMB9.6	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.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB9.7	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.
18OMB9.8	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.
18OMB9.9	Eligibility for Award of Degree: A student shall be declared to have completed the degree of MBA, 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.
18OMB10.0	Attendance Requirement
18OMB10.1	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 shall 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.
18OMB10.2	Courses of each semester shall be treated as a separate unit for calculation of the attendance.
18OMB 10.3	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.
18OMB10.4	In case of late admission, approved by competent authority (Karnataka Examination Authority/VTU), to I semester of the programme the attendance shall be reckoned from the date of admission to the programme.
18OMB10.5	A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 18OMB10.3 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.
18OMB10.6	Principals of the concerned colleges shall notify regularly, the list of candidates who fall short of attendance.
18OMB10.7	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.
18OMB11.0	Promotion and Eligibility
18OMB11.1	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.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB11.2	(a) Candidates, with a maximum of four backlog courses of first year shall be eligible for taking admission to second year (III semester). (b) Each credit course shall be treated as a head of passing.
18OMB11.3	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.
18OMB12.0	Temporary Discontinuation/Break in the Program
18OMB12.1	(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 18OMB1.5. 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. (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.
18OMB13.0	Award of Prizes, Medals and Ranks
18OMB13.1	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.
18OMB13.2	(1) For award of rank in a Specialization of MBA, the CGPA secured by the student on completion of the programme is considered. (2) A student shall be eligible for a rank at the time of award of MBA, 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 of the programme subject to a maximum of 10 ranks.
18OMB13.2 (continued)	Illustration: (a) If 150 students appeared for the IV semester, the number of ranks to be declared will be 10. (b) If 84 students appeared for the IV semester, the number of ranks to be declared 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.
18OMB13.3	Ranks are awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.

Visvesvaraya Technological University, Belagavi
Regulations Governing the Degree of MBA/MBA - IM
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
Effective from academic year 2018 -19

18OMB14.0	Applicability and Power to Modify
18OMB14.1	The regulations governing the Degree of MBA of Visvesvaraya Technological University shall be binding on all concerned.
18OMB14.2	i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty. ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.



MBA Program Structure and Credits			
Year	Particulars	Credits	Total Credits
I	I Semester	24	48
	II Semester	24	
II	III Semester	24	52
	Internship (III Semester)	4	
	IV Semester	18	
	Project Work(IV Semester)	6	
Total		100	100

PROGRAMME OUTCOMES STUDENT WILL BE ABLE TO DO (POS)

- PO1.** Acquire Sufficient theoretical knowledge and are enabled to apply them to solve practical problems in business and other organizations / institutions of importance.
- PO2.** Apply Effective communication skills with a high degree of lateral and critical thinking that enhances learn ability, developed for being continuously employable.
- PO3.** Demonstrate leadership qualities, ethically sound, enabled with decision making skills that reflect a high degree of social consciousness
- PO4.** Recognise the need for sustained research orientation to comprehend a growingly complex, economic, legal and ethical environment
- PO5.** Possess self-sustaining entrepreneurship qualities that encourages calculated risk taking.

SCHEME OF TEACHING AND EXAMINATION

I Semester									
Subject Code	Title of the Subject	Course Category	Teaching hours per week			Duration of Exam hours	Marks for		Credits
			Lecture	Practical Component	Total Hours		CIE	SEE	
18MBA11	Management & Organizational Behavior	Core	4	-	4	3	40	60	4
18MBA12	Managerial Economics	Core	4	-	4	3	40	60	4
18MBA13	Accounting for Managers	Core	4	-	4	3	40	60	4
18MBA14	Business Statistics & Analytics	Core	4	-	4	3	40	60	4
18MBA15	Marketing Management	Core	4	-	4	3	40	60	4
18MBA16	Managerial Communications	Core	4	-	4	3	40	60	4
Total						24	240	360	24

Note:

- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper.
- One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

II Semester									
Subject Code	Title of the Subject	Course Category	Teaching hours per week			Duration of Examination Hours	Marks for		Credits
			Lecture	Practical Component	Total		CIE	SEE	
18MBA21	Human Resource Management	Core	4	-	4	3	40	60	4
18MBA22	Financial Management	Core	4	-	4	3	40	60	4
18MBA23	Research Methodology	Core	4	-	4	3	40	60	4
18MBA24	Legal and Business Environment	Core	4	-	4	3	40	60	4
18MBA25	Strategic Management	Core	4	-	4	3	40	60	4
18MBA26	Entrepreneurship Development	Core	4	-	4	3	40	60	4
Total						24	240	360	24

Note:

- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper.
- One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

III Semester (Core Specialization)

Subject Code	Course Category	Teaching hours per week			Duration of Examination hours	Marks for			Credits
		Lecture	Practical Component	Total		CIE	SEE	Total Marks	
Marketing & Finance	Human Resource								
18MBAAM301	18MBAHR301	3	2	5	3	40	60	100	4
Consumer Behavior	Banking and Financial Services								
18MBAAM302	18MBAHR302	3	2	5	3	40	60	100	4
Retail Management	Investment Management								
18MBAAM303	18MBAHR303	3	2	5	3	40	60	100	4
Services Marketing	Direct Taxation								
18MBAAM304	18MBAHR304	3	2	5	3	40	60	100	4
Marketing Research & Analytics	Advanced Financial Management								
18MBAAM305	18MBAHR305	3	2	5	3	40	60	100	4
Business Marketing	Cost Management								
18MBAAM306	18MBAHR306	3	2	5	3	40	60	100	4
Supply Chain Management	Project Appraisal Planning & Control								
18MBAAM307	18MBAHR307	3	2	5	3	40	60	100	4
Industrial Visit	Control Management								
		Core	0	8	8	40	60	100	4
		Total	18	20	38	280	420	700	28

Note:

- 1.Each Course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1 credit). The Time-Table allotment for each course should be (3*2) = 5hours.
- 2.For the practical component, it is mandatory to maintain a practical record.
3. 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
- 4.Organization Study (Four Weeks) will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester.
- 5.One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- 6.Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

Rubrics for Organization Study		Rubrics for Viva voce Examination	
Particulars	Marks	Aspects	Marks
CIE	20	Communication skill	5
Report Evaluation by the Guide- Interaction with the student	20	Understanding the Industry	5
SEE	60	Understanding the Corporate Functions/Company profile	10
Viva-Voce Examination to be conducted by the Guide and an External examiner from the Industry/Institute	60	Mckerny's 7S Framework and Porter's Five Force Model	10
	100	SWOT analysis	10
		Financial statement analysis	10
		Learning experience	5
		Overall presentation	5
		Total	60

III Semester (Dual Specialization)

Subject Code	Course Category	Teaching hours per week			Duration of Examination hours	Marks for			Credits
		Lecture	Practical Component	Total		CIE	SEE	Total Marks	
Marketing & Finance	Finance & HR								
18MBAAM301	18MBAHR301	3	2	5	3	40	60	100	4
Consumer Behavior	Banking and Financial Services								
18MBAAM302	18MBAHR302	3	2	5	3	40	60	100	4
Retail Management	Investment Management								
18MBAAM303	18MBAHR303	3	2	5	3	40	60	100	4
Services Marketing	Direct Taxation								
18MBAAM304	18MBAHR304	3	2	5	3	40	60	100	4
Marketing Research & Analytics	Reward System Compensation & Selection								
18MBAAM305	18MBAHR305	3	2	5	3	40	60	100	4
Business Marketing	HR Analytics								
18MBAAM306	18MBAHR306	3	2	5	3	40	60	100	4
Supply Chain Management	Reward System Compensation & Selection								
18MBAAM307	18MBAHR307	3	2	5	3	40	60	100	4
Industrial Visit	Control Management								
		Core	0	8	8	40	60	100	4
		Total	18	20	38	280	420	700	28

Note:

- 1.Each Course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1 credit). The Time-Table allotment for each course should be (3*2) = 5hours.
- 2.For the practical component, it is mandatory to maintain a practical record.
3. 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
- 4.Organization Study (Four Weeks) will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester.
- 5.One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- 6.Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

Rubrics for Organization Study		Rubrics for Viva voce Examination	
Particulars	Marks	Aspects	Marks
CIE	20	Communication skill	5
Report Evaluation by the Guide- Interaction with the student	20	Understanding the Industry	5
SEE	60	Understanding the Corporate Functions/Company profile	10
Viva-Voce Examination to be conducted by the Guide and an External examiner from the Industry/Institute	60	Mckerny's 7S Framework and Porter's Five Force Model	10
	100	SWOT analysis	10
		Financial statement analysis	10
		Learning experience	5
		Overall presentation	5
		Total	60

IV Semester (Core Specialization)													
Subject Code			Course Category			Teaching hours per week			Duration of Examination hours		Marks for		Credits
						Lecture	Practical Component	Total					
Marketing	Finance	Human Resource	Elective	3	-	3	3	3	40	60	100	3	
18MBAMM401 Sales Management	18MBAFM401 Mergers, Acquisitions & Corporate Restructuring	18MBAHR401 Public Relations											Elective
18MBAMM402 Integrated Marketing Communication	18MBAFM402 Risk Management and Insurance	18MBAHR402 Organizational Leadership	Elective	3	-	3	3	40	60	100	3		
18MBAMM403 Digital and Social Media Marketing	18MBAFM403 Indirect Taxation	18MBAHR403 International Human Resource Management	Elective	3	-	3	3	40	60	100	3		
18MBAMM404 Strategic Brand Management	18MBAFM404 International Financial Management	18MBAHR404 Organization Change and Development	Elective	3	-	3	3	40	60	100	3		
18MBAMM405 Rural Marketing	18MBAFM405 Financial Derivatives	18MBAHR405 Strategic Talent Management	Elective	3	-	3	3	40	60	100	3		
18MBAMM406 International Marketing Management	18MBAFM406 Corporate Valuation	18MBAHR406 Personal Growth & Interpersonal Effectiveness	Elective	3	-	3	3	40	60	100	3		
18MBA PR407 Project Work			Core	0	12	12	-	40	60	100	6		
Industrial Visit			Core	-	-	-	-	-	-	-	-	-	
Total				18	12	30	-	280	420	700	24		

Note:

1. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

2. Project work(Six Weeks) will be carried out after third semester and shall be evaluated during fourth semester.

IV Semester (Dual Specialization)													
Subject Code			Course Category			Teaching hours per week			Duration of Examination hours		Marks for		Credits
						Lecture	Practical Component	Total					
Marketing & Finance	Finance & HR	HR & Marketing	Elective	3	-	3	3	40	60	100	3		
18MBAMM401 Sales Management	18MBAFM401 Mergers, Acquisitions & Corporate Restructuring	18MBAHR401 Public Relations										Elective	3
18MBAMM402 Integrated Marketing Communication	18MBAFM402 Risk Management and Insurance	18MBAHR402 Organizational Leadership	Elective	3	-	3	3	40	60	100	3		
18MBAMM403 Digital and Social Media Marketing	18MBAFM403 Indirect Taxation	18MBAHR403 International Human Resource Management	Elective	3	-	3	3	40	60	100	3		
18MBAMM404 Mergers, Acquisitions & Corporate Restructuring	18MBAHR401 Public Relations	18MBAMM401 Sales Management	Elective	3	-	3	3	40	60	100	3		
18MBAMM402 Risk Management and Insurance	18MBAHR402 Organizational Leadership	18MBAMM402 Integrated Marketing Communication	Elective	3	-	3	3	40	60	100	3		
18MBAMM403 Indirect Taxation	18MBAHR403 International Human Resource Management	18MBAMM403 Digital and Social Media Marketing	Elective	3	-	3	3	40	60	100	3		
18MBA PR407 Project Work			Core	-	12	12	-	40	60	100	6		
Industrial Visit			Core	-	-	-	-	-	-	-	-	-	
Total				18	12	30	-	280	420	700	24		

Note:

1. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

2. Project work(Six Weeks) will be carried out after third semester and shall be evaluated during fourth semester.

I SEMESTER MANAGEMENT AND ORGANIGATIONAL BEHAVIOR

Semester	I	CIE Marks	: 40
Course Code	18MBA11	SEE Marks	: 60
Teaching Hours / week (L:T:P)	4-0-0	Exam Hours	: 03
Credits : 04			

COURSE OBJECTIVES:

1. To make students understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management
2. To make students knowledgeable of historical development, theoretical aspects and practice applications of managerial process
3. To understand the basic concepts and theories underlying individual behavior besides developing better insights into one's own self.
4. To make students aware of individual behavior in groups, dynamics of groups, team building and interpersonal effectiveness besides developing a better awareness of how they can be better facilitators for building effective teams as leaders themselves

PART A - PRINCIPLES OF MANAGEMENT

Unit 1:

Introduction: Management: Introduction, Definition of management, Nature, Purpose and Functions, Levels and types of managers, managerial roles, skills for managers, evolution of management thought, Fayol's fourteen principles of management, Recent trends in management.

Unit 2:

Planning and Organizing:
Planning: Meaning, Nature of Planning, Planning Process, Objectives, MBO, Strategies, level of strategies, policies, methods and programs, Planning Premises, Decision-making, Process of decision-making, Types of decisions, Techniques in decision-making.

Organizing: Organization structure, Formal and informal organizations, Functional, divisional, geographical, customer based and matrix organizations, team based structures, virtual organizations, boundary less organizations. Principles of organizations-chain of command, span of control, delegation, decentralization, and empowerment.

Case Study: Principles of Management, Cengagelearning , William , Manjunath , Sandhya

Unit 3:

Controlling: Meaning, importance of controlling, controlling process, types of control, factors influencing control effectiveness.

RECOMMENDED BOOKS

- Management and Organizational Behaviors, Chuck Williams, James Cambell, Manjunath & Sandhya Cengage Publications, 2018
- Essentials of Management-Koontz, 8/e, McGraw Hill
- Management: Text and Cases-VSP Rao, Excel Books

REFERENCE BOOKS:

- Masters of Management Thought – Mahanand Charati & M M Munshi, Sapna Book House, Bangalore, 2015.
- Principles and practices of Management, KiranNerkar, Vilas Chopde, Dreamtech Press, 2011
- Management Theory & practice – Chandan J. S, Vikas Publishing House.

PART B - ORGANIZATIONAL BEHAVIOUR

Unit 4:

Introduction: Organizational Behaviour: Introduction, definition, fundamental principles of OB, contributing disciplines, challenges and opportunities. Evolution & Organizational Behavior in India.

Case study: Organizational Behavior by Steven L McShane, Mary Ann Von Glinow and Radha R Sharma, TaTa McGraw Hill companies, Fourth Edition, Pg-6.

Unit 5:

Foundations of Individual Behaviour : Individual behaviour: Foundations of individual behaviour. Ability: Intellectual abilities, Physical ability, the role of disabilities.

Personality: Meaning, formation, determinants, traits of personality, big five and MBTI, personality attributes influencing OB.

Perception: Meaning, Process of perception, factors influencing perception, link between perception and individual decision-making.

Attitude: Meaning, Formation, components of attitudes, relation between attitude and behaviour.

Unit 6:

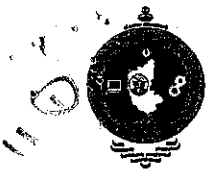
Motivation: Meaning, theories of motivation-needs theory, two factor theory, Theory X and Y, application of motivational theories.

Leadership: Meaning, styles of leadership, leadership theories, trait theory, behavioural theories, managerial grid, situational theories.

Case Study: "Nuts and Bolts", Principles of Management, Cengagelearning , William , Manjunath , Sandhya Page no 531-532.

PRACTICAL COMPONENTS:

- Studying organizational structures of any 10 companies and classifying them into different types of organizations which are



Visvesvaraya Technological University
"Jnana Sangama", Belagavi - 590 018, Karnataka State

Prof. A S. Deshpande B.E. M.Tech., Ph.D.
REGISTRAR

Phone : (0831) 2498100
Fax : (0831) 2405467

Ref VTU/BGM/Aca-OS/Gen-Cirs/2019-20/ 3013

Date : 01 AUG 2019

NOTIFICATION

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

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

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

These Regulations are applicable for the following students:

1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXX18XXXXX)
2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN XXX19XX4XX)

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

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

Encl: as above

BY ORDER

01.08.2019
REGISTRAR

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

Copy to:

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

Definitions of Keywords

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

- 1) **Programme:** Is an educational Programme in a particular stream/ branch of Engineering/branch of specialization leading to award of the Degree. It involves events/activities, comprising of lectures/tutorials/laboratory work/field work, outreach activities/project work/vocational training/viva voce/ seminars/ internship/assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.
- 3) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety). The odd and even semesters shall be as per the University academic calendar.
- 4) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 5) **Course:** Refers to usually referred to as 'papers' and is a component of a Programme. All Courses need not carry the same weight. The Courses should define learning objectives and learning outcomes. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/project work/ vocational training/ viva voce/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.
- 6) **Credit:** Refers to a unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork per week etc.
- 7) **Audit Courses:** Means the Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 8) **Choice Based Credit System (CBCS):** Refers to customizing the Course work, through Core, Elective and soft skill Courses, to provide necessary support for the students to achieve their goals.
- 9) **Course Registration:** Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor etc.) in each semester for the Institution to maintain proper record.
- 10) **Course Evaluation:** Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. CIE and SEE to carry 40 % and 60 % respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.
- 11) **Continuous Internal Evaluation (CIE):** Refers to evaluation of students' achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the semester, with a weightage for the different components being fixed by the University.
- 12) **Semester End Examinations (SEE):** Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as University examination.
- 13) **First Attempt:** Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

- 14) **Credit Based System (CBS):** Refers to quantification of Course work, after a student completes teaching – learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.
- 15) **Credit Representation:** Refers to the Credit Values for different academic activities considered, as per the Table.1 Credits for seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.
- 16) **Letter Grade:**

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 lectures not to carry Credits.

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

- 17) **Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in CIE and SEE. Grading is done by Absolute Grading [Refer: 18 OB 6.0]. The rubrics attached to letter grades are as follows: S – Outstanding, A – Excellent, B – Very Good, C – Good, D – Above Average, E – Average and F – Fail.
- 18) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

Letter Grade	S	A	B	C	D	E	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 GP and number of credits for a Course i.e.,
Credit points (CrP) = GP × Credits for the Course.
- 21) **Semester Grade Point Average (SGPA):** Refers to the measure of academic performance of student/s in a semester. [Refer:18OB6.2]
- 22) **Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. [Refer:18OB6.2]
- 23) **Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester end examination. The grade card will display the Programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) **University:** Visvesvaraya Technological University (VTU), Belagavi.

REGISTRAR
Visvesvaraya Technological University,
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 - 19**

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

REGISTRAR
Visvesvaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>obtained eligibility to fifth semester even after three academic years from the date of readmission to second year shall discontinue the Programme or get readmitted to third semester of second year B.E./B.Tech., subject to the provision of 18OB1.4 (b) (i), with a revised University Seat Number having the same year of admission but serial number of the student starting with SEVEN hundred series (7XX).</p> <p>(iv) A student, who has been readmitted to second year [as per 18OB1.4 (b) (ii) and (iii)], does not get eligibility to fifth semester even after two academic years from the date of readmission to second year, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p> <p>(v) A student who gets admitted to V semester from II year in two or less than two years shall complete the Programme, with or without break, within a period of six academic years from the date of first admission, failing which they have to discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p>
18OB1.5	<p>Prescribed Number of Credits for the Programme [to be read along with 18OB12.2]:</p> <p>(a) The number of credits to be completed by students admitted to first semester of B.E./B.Tech. Programme shall be 175.</p> <p>(b) The number of credits to be completed by students admitted to third semester of B.E./B.Tech. Programme under lateral entry scheme shall be 135.</p> <p>(c) A student shall be eligible to get Undergraduate degree with Honours, if he/she earns additional 20 credits, as per VTU norms issued from time to time regarding the earning of additional credits. [To be read along with Regulations Governing the award of Honours' in B.E./B.Tech. Degree Programmes.]</p>
18OB1.6	<p>(a) Definition of Credits:</p> <p>(a.1) 1 hour Lecture (L) per week per semester = 1 Credit</p> <p>(a.2) 2 hours Tutorial (T) per week per semester = 1 Credit</p> <p>(a.3) 2 hours Practical/Laboratory/Drawing (P) per week per semester = 1 Credit.</p> <p>(a.4) Four credit theory courses shall be designed for 50 hours of Teaching – Learning process.</p> <p>(a.5) Three credit theory courses shall be designed for 40 hours of Teaching – Learning process.</p>
18OB2.0	<p>Eligibility for Admission to B.E./B.Tech. Programmes (As per the Government orders issued from time to time)</p>
18OB2.1	<p>(a) Day Engineering College (Eligibility: Candidates who have Passed Second PUC/ Twelfth standard)</p> <p>(i) Passed Second PUC/12th standard/Equivalent examination with English as one of the Languages and obtained a minimum of 45 % of Marks in aggregate in Physics and Mathematics along with Chemistry/Bio-Technology/Biology/Electronics/Computer. 40 % for SC, ST, Category – I, 2A, 2B, 3A and 3B category candidates of Karnataka only.</p> <p>(ii) Those students, who have passed a qualifying examination other than the PUC 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.</p> <p>(b) Day Engineering College (Eligibility: Candidates who have Passed 3 year Diploma)</p> <p>(i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semester) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case of SC, ST and Backward Classes of Karnataka candidates.</p> <p>(ii) Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</p>

REGISTRAR
Visvesvaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>(c) Evening Engineering College (Eligibility: Candidates who have Passed 3 year Diploma):</p> <p>(i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semesters) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case SC, ST and Backward Classes of Karnataka candidates.</p> <p>In addition to this a candidate after passing the diploma, must have minimum of Two years full-time work experience as on 1st September of the year of admission, in a registered firm/Company/Industry/Educational Institution /Government/Autonomous Organizations in the branch of Engineering/Technology, in which the candidates holds a diploma and in which admission is sought by him/her.</p> <p>Professional experience refers to the experience earned as an employee on regular basis in Government, Government Undertaking, Public Sector Undertaking, Corporation or Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or Government recognized Institutions as technical staff. Provided that the period of apprenticeship undergone shall also be treated as professional experience , if sponsored by the Board of Apprenticeship Training, Southern Region, Chennai or by Government, Government Undertakings and Public Sector Undertakings.</p> <p>Note: In case where genuineness of the employment certificate is questionable, such candidates have to produce supportive documents specifying the registration details of the Industry/Company (e.g., SSI Registration) and or identity cards provided to them together with latest salary certificate and provident fund certificate. However, the employer has to fill up the NOC duly signed by the company authority.</p> <p>(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.</p>
18OB2.2	<p>With regard to the qualification earned from foreign countries, Equivalence certificate from the University/ Association of Indian Universities is mandatory for admission to B.E./B.Tech. Programmes. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University Equivalence Committee shall be the final in establishing the eligibility of the student.</p>
18OB3.0	<p>Courses</p>
18OB3.1	<p>There shall be the following types of Courses:</p> <p>(a) Humanities, Social Sciences and Management Courses (HSMC): These are mandatory for all disciplines.</p> <p>(b) Basic Sciences Courses (BSC): Physics, Chemistry and Mathematics. These are mandatory for all disciplines.</p> <p>(c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines.</p> <p>(d) Professional Core Courses (PCC) – Core: Are the professional Core Courses, relevant to the chosen specialization/ branch. The core Courses are to be compulsorily studied by students and are mandatory to complete them to fulfill the requirements of a Programme.</p> <p>(e) Professional Elective Courses (PEC): Are the professional Electives, relevant to the chosen specialization / branch and can be chosen from the pool of papers. It shall be supportive to the discipline providing extended scope/enabling an exposure to some other discipline /domain and nurturing student proficiency skills.</p> <p>(f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/ or from emerging fields.</p> <p>(g) Project Work (PROJ): Mini project and Main Project. Carried out at the Institution or elsewhere without affecting with the regular classwork.</p>

REGISTRAR
Vijayaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>(h) Seminar: Deliverable at the Institution under the supervision of a Faculty.</p> <p>(i) Internship: Preferably at an industry/R and D organization/IT company/Government organization or elsewhere of significant repute for a specified period as mentioned in Scheme of Teaching and Examinations.</p> <p>(j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade or credit, for students admitted to B.E./B.Tech. Programme. A pass in each mandatory Course is required to qualify for the award of degree.</p>
18OB3.2	<p>The minimum number of students registered to any Elective Course offered by the Departments shall be not less than ten.</p> <p>However, the above condition shall not be applicable to Programmes having class strength of less than 10. In such cases, only one elective course shall be offered.</p>
18OB3.3	<p>A student shall exercise his option in respect of Elective Course/s and registered for the same at the beginning of the concerned semester. The student may be permitted to opt for a change of Elective Course/s within 15 days from the date of commencement of the semester as per the calendar of the University.</p>
18OB3.4	<p>Course Registration:</p> <p>In order to maintain proper academic record of each student at the Institution, every student shall register for the Courses of a semester (Credits) under the supervision of a Faculty Advisor (also called Mentor, Counselor, etc..) in each semester.</p>
18OB4.0	<p>Internship/Professional Practice</p>
18OB4.1	<p>Internship / Professional Practice</p> <p>The Internship shall be completed during the period specified in the Scheme of Teaching and Examinations.</p> <ol style="list-style-type: none"> 1) The internship shall preferably be at an industry/R and D organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching and Examinations. 2) The Department/college shall nominate staff member/s to facilitate, Guide and supervise students under internship. 3) The students shall report progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship. 4) After the completion of Internship, students shall submit a report with completion certificate and attendance certificate to the Head of the Department with the approval of both internal and external Guides. 5) There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of CIE marks shall be 50% of the maximum marks. 6) The internal Guide shall be the internal examiner for the SEE. 7) The external Guide for Internship shall be the external examiner for SEE. Examination for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks. [To be read along with 18OB8.9 (f)] 8) In case the external Guide expresses his inability to conduct the Examination, the Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide. 9) Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the Principal /Chief Superintendent of respective institute shall appoint a senior faculty of the Department to conduct the Examination. 10) The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any kind of financial assistance to any student for carrying out the Internship.
18OB 5.0	<p>Technical Seminar and Project</p>
18OB 5.1	<p>Technical Seminar: Technical Seminar is one of the head of passing.</p> <ol style="list-style-type: none"> (i) Each candidate shall deliver Technical seminar as per the Scheme of Teaching and Examinations on the topic chosen from the relevant field. (ii) The Head of the Department shall make arrangements for the conduct of seminars

REGISTRAR
Sri Sivasubrahmanyam Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

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

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

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

18OB 6.0 **Computation of SGPA and CGPA**

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

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

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

18OB6.2 **Computation of SGPA and CGPA**

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

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

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

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

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

Semester (Odd :I, Even: II)	Course Code	Credits	Grade	Grade Points (GP)	Credit Points (CrP)	SGPA, CGPA
I	XX101	5:0:0 = 5	B	8	5x8=40	$SGPA = \frac{117}{25} = 4.68$
I	XX102	3:2:0 = 5	Absent(F)	0	5x0=00	
I	XX103	3:0:0 = 3	A	9	3x9=27	
I	XX104	0:1:1 = 2	F	0	2x0=00	

REGISTRAR
Swasvarata Technological University,
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

I	XX105	4:1:0 = 5	D	6	5x6=30			
I	XX106	5:0:0 = 5	E	4	5x4=20			
Total		25(18*)		Total	117			
(18*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.								
II	XX107	3:1:1=5	C	7	5x7=35	$SGPA = \frac{201}{32} = 6.28$		
II	XX108	4:0:0=4	B	8	4x8=32			
II	XX109	3:0:0=3	D	6	3x6=18			
II	XX110	4:1:0=5	E	4	5x4=20			
II	XX111	2:1:1=4	A	9	4x9=27			
II	XX112	2:0:0=2	F	0	2x0=00	$CGPA = \frac{(117 + 201)}{18 + 30} = \frac{318}{48} = 6.63$		
II	XX113	0:2:0=2	B	8	2x8=16			
I semester								
I	XX102	3:2:0=5	D	6	5x6=30			
I	XX104	0:1:1=2	C	7	2x7=14			
Total		32 (30*)		Total	201			
(30*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.								
(b) CGPA Calculation of the Programme: An Illustrative Example								
Semester	I	II	III	IV	V	VI	VII	VIII
Credits of the semester	20	20	24	24	25	24	20	18
SGPA	4.68	6.28	9.20	6.86	8.18	7.73	9.18	9.40
$\sum CrP$	117	201	22	165	204	185	184	169
$CGPA = \frac{[117 + 201 + 220 + 165 + 204 + 185 + 184 + 169]}{175} = \frac{[1445]}{175} = 8.26$								
18OB6.3	Grade Card: Based on the secured letter grades, grade points, SGPA and CGPA, a grade card for each semester and a consolidated grade card indicating the performance in all semesters shall be issued.							
18OB7.0	Conversions of CGPA into Percentage of marks and Class Equivalence							
18OB7.1	Formula for the conversion of CGPA into percentage of marks. Percentage of marks secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ Illustration for a CGPA of 8.20: $P = [CGPA \text{ Earned } 8.20 - 0.75] \times 10$ $= 74.5 \%$							
18OB7.2	Class Equivalence: Subsequent to the conversion of final CGPA, after successful completion of the Programme, into percentage of marks (P), a graduating student is reckoned to have passed in (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $< 70\%$ and (iii) Second Class (SC) if $P < 60\%$.							
18OB8.0	Continuous Internal Evaluation, Semester End Evaluation and Minimum CIE and SEE Marks							
18OB8.1	Continuous Internal Evaluation Marks and Minimum CIE Marks: (a) For Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada) the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 40 marks. (b) For Project work Phase -1 and Technical seminar the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 50 marks.							

REGISTRAR
Swaswaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>(c) For Practical/ Mini-project/Internship/Project work– Phase 2 the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 20 marks.</p> <p>(d) For all other theory Courses of the Programme, the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.</p> <p>(f) For Additional Mathematics I and II (to be completed by diploma lateral entry students) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.</p> <p>(g) For Engineering Graphics and Elements of Civil Engineering and Mechanics (of First Year Engineering and to be completed by B.Sc graduates under lateral entry) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be respectively 50 % and 40 % of the maximum marks i.e., 20 and 16 marks.</p>
<p>18OB8.2</p>	<p>Continuous Internal Evaluation Procedure: [To be read along with 18 OB 8.1 and 8.3]</p> <p>(a) Theory Courses:</p> <p>(i) CIE Marks in each theory Course [including ‘Technical English I and II’, ‘Constitution of India, Professional Ethics and Cyber Law’, ‘Environmental Studies’, ‘Additional Mathematics I and II’], shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 30 and that for assignments 10.</p> <p>(ii) The CIE marks awarded for tests in the theory Courses shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a maximum of 50 marks and the final test marks shall be the average of three tests, proportionately reduced to a maximum of 30 marks.</p> <p>(iii) The remaining 10 marks shall be awarded based on the evaluation of assignments/unit tests/written quizzes that support to cover both lower and higher order thinking skills as per Revised Bloom’s Taxonomy.</p> <p>(iv) Final CIE marks awarded shall be the sum of 18OB8.2 (a) (ii) and (iii) for a maximum of 40 marks.</p> <p>(v) The candidates shall write the tests, assignments/unit-tests /written quizzes in Blue Books which shall be preserved by the Principal/ Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).</p> <p>(b) Engineering Graphics/ Drawing/Field work Courses:</p> <p>The CIE marks awarded for I year Engineering Graphics Course shall be based on</p> <p>(i) Classwork for 24 marks (sketching and Computer Aided Engineering Drawing).</p> <p>(ii) Two Tests conducted in the same pattern as that of SEE for 16 marks (The marks secured can be taken as best of the two tests).</p> <p>(iii) Final CIE marks awarded for Engineering Graphics shall be the sum of 18OB8.2 (b) (i) and (ii) for a maximum of 40 marks.</p> <p>(iv) The CIE marks awarded for higher semester Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.</p> <p>(v) The CIE marks awarded for field work (like Surveying Practice) shall be based on the evaluation of the associated field work and one test in the ratio 60:40.</p> <p>(c) Practical Courses:</p> <p>The CIE marks awarded in case of Practical shall be based on the weekly evaluation of laboratory journals/ reports after the conduction of every experiment and one practical test in the ratio 60:40.</p> <p>(d) Internship:</p> <p>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.</p> <p>(e) Technical Seminar:</p> <p>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.</p> <p>(f) Mini – Project:</p>

REGISTRAR
Vijaya Technological University
LAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>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.</p> <p>(g) Main Project Work:</p> <p>(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.</p> <p>(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.</p>
	<p>(h) Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada)</p> <p>(i) CIE Marks in Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada) shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 75 and that for the assignments shall be 25.</p> <p>(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.</p> <p>(iii) The remaining 25 marks shall be awarded based on the evaluation of assignments/oral discussions/ quizzes that supports communication skills.</p> <p>(iv) Final marks awarded shall be the sum of 18OB8.2 (h) (ii) and (iii) for a maximum of 100 marks.</p> <p>(v) Students shall write the tests in Blue Books and complete the exercises/activates/ questions given in the University Kannada textbook. These shall be preserved by the Principal/ Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).</p>
18OB8.3	<p>(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.</p> <p>(b) A committee constituted by the Head of the Department of Humanities and Social Science shall inspect and authenticate the award the CIE marks for the Course Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada). The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson.</p>
18OB8.4	<p>(i) Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any Course/s, shall not be eligible for the SEE conducted by the University and they shall be considered as fail in that Course /those Courses. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Course/s if any.</p> <p>(ii) Students who have satisfied the attendance requirement but not the CIE requirements shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.</p> <p>(iii) Each appearance to SEE to complete a course shall be treated as an attempt.</p>
18OB8.5	<p>CIE marks of those students, who come under 18OB8.4, shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.</p>

REGISTRAR
Vaswaraaya Technological University,
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

18OB8.6	<p>(i) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Technical Seminar / Mini – Project/Project work –phase 1 and 2, shall be displayed on the notice board of the college much before the closure of the semester.</p> <p>(ii) The institution shall enter the CIE marks of each semester in the format of the VTU online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.</p>
18OB8.7	<p>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.</p>
18OB8.8	<p>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.</p>
18OB8.9	<p>Semester End Examination Marks and Passing standards</p> <p>(a) University examination for all Courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately reduced to a maximum of 60 marks to add the same with the CIE marks for the award of letter grade.</p> <p>(b) The University examinations for all the Programmes of study shall be conducted at the end of each semester for all the eight semesters.</p> <p>(c) Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog course/s may face a situation where they may have</p> <p>(i) Two examinations scheduled at the same time of the day, (ii) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and (iii) Examinations on consecutive days.</p> <p>As changing the examination dates is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in second and third cases, the students shall manage the examinations as per their decision.</p> <p>(d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Cyber Law, and Environmental Studies shall be objective type [Multiple Choice Questions (MCQ)].</p> <p>(e) For a pass in a theory Course/Drawing, students shall secure a minimum 35 % of the maximum marks prescribed for the University examination and in total 40 % of the Course maximum marks, i.e., the sum of the CIE and SEE marks prescribed for the Course.</p> <p>(f) For a pass in Practical/ Mini-project / Internship/Technical Seminar/Project work, students shall secure a minimum of 40 % of the Course maximum marks prescribed for the University examination (SEE).</p> <p>(g) Students who satisfy the conditions 18OB8.9 (e) and (f), and obtain any grade from S to E in a Course shall be considered to have passed that Course.</p> <p>(h) A student shall be declared fail if the candidate</p> <p>(h.a) Fails to satisfy the conditions 18OB8.9 (g). (h.b) Absents himself / herself to the University examination. (h.c) Is held guilty of examination malpractice and for any other reasons and declared the performance of any Course/s null and void by a competent authority.</p> <p>(i) If a student secures F grade in any of the Course/s, he/she shall reappear for that Course/s during the subsequent SEE. The CIE marks awarded to the student at first attempt in the concerned Course/s shall be carried forward. Revised CIE marks is considered only in cases under the provision of 18OB8.4 (ii).</p>

REGISTRAR
Belagavi Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

18OB8.10	Students who pass a Course of a semester as per 18OB8.9 (g) shall not be allowed to appear for any individual Course again, unless they opt for rejection of results of entire semester. However, students who have CGPA less than 5.00 at the end of academic Programme, subject to the provision 18OB1.4, shall be allowed to appear for only SEE of Course/s to make up the deficiency in CGPA.
18OB8.11	A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examinations of a semester. The rejection is permitted only once during the entire Programme of study.
18OB8.12	<p>Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned Course grades) in all the Courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of VIII semester project shall not be permitted.</p> <p>(i) Students, who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s. They shall also be governed by 18OB12.1, 12.2 and 1.4.</p> <p>(ii) If the rejection of SEE results excluding CIE marks is of odd semester, students shall be allowed to take admission to the immediate next even semester.</p> <p>(iii) If the rejection of SEE results excluding CIE marks is of even semester, then students shall not be allowed to take admission to the next odd semester as per 18OB10.3. In such cases, students shall take admission to the next odd semester of the prevailing scheme during the subsequent academic year/s, after obtaining the eligibility to move to higher semester. They shall also be governed by 18OB12.1, 12.2 and 1.4.</p> <p>(iv) Readmission to odd/even semester as per 18OB8.12 (i) and (iii) shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Programme (as per 18OB1.4) shall be counted with reference to old University Seat Number.</p> <p>(v) Applications for rejection and approval to reappear for University examinations shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons.</p> <p>(vi) Application for approval of readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons.</p>
18OB8.13	Students who opt for rejection of results of University examination shall be eligible for the award of degree and not for the award of ranks and Honours Degree.
18OB9.0	Attendance Requirement
18OB9.1	Each semester shall be considered as a unit for calculation of the attendance and the Candidates have to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University/State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The supporting documents for condoning the shortage of attendance shall be submitted along with the recommendations.
18OB9.2	<p>(a) The basis for the calculation of attendance shall be the period prescribed by the University by its calendar of events and as notified by the Registrar (Evaluation) from time to time.</p> <p>(b) In case of late admissions, approved by competent authority (DTE/VTU), to I semester/ III semester (lateral entry scheme) of day college/III semester (lateral entry scheme) of Engineering Programme conducted during evening, the attendance shall be reckoned from the date of admission to the Programme.</p>

REGISTRAR
Shreevaraha Technological University,
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

18OB9.3	The Course Instructor/ Mentor/College shall inform the students as well as their parents /guardians about the attendance status periodically. Students who are facing the shortage of attendance shall be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance.
18OB9.4	A candidate, who does not satisfy the attendance requirement (in one or more Courses and including the Courses Additional Mathematics I and II) as mentioned in 18OB 9.1 shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.
18OB10.0	Vertical Progression (Promotion/ Eligibility to higher semesters)
18OB10.1	There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
18OB10.2	Along with the reasons specified at 18OB8.9 (h), a student shall be declared fail if he/she (i) Has not satisfied the CIE requirements of any Course/s. (ii) Has not registered for the SEE even after satisfying the attendance and CIE requirements.
18OB10.3	<p>(A) Vertical Progression in case of students admitted to First year:</p> <p>(a) Students having not more than four F grades in the two semesters of first year of the Programme shall be eligible to move to second year.</p> <p>(a.1) Students having not more than four F grades in the four semesters of I and II year shall be eligible to move to III year.</p> <p>(a.2) Students who have earned all the prescribed credits of I year, and having not more than four F grades in the four semesters of II and III year shall be eligible to move to IV year.</p> <p>(B) Vertical Progression in case of Diploma students admitted to Second year (lateral entry):</p> <p>(a) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II) in the two semesters of II year of the Programme shall be eligible to move to III Year.</p> <p>(a.1) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II, if any) in the four semesters of II and III year shall be eligible to move to IV year.</p> <p>(b) The mandatory non – credit Courses Additional Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of B.E./B.Tech. Programmes shall attend the classes during the respective semesters to satisfy attendance and CIE requirements and to appear for the University examinations.</p> <p>(b.1) In case, any student fails to satisfy the attendance requirement of the Courses Additional Mathematics I and II, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.</p> <p>(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the Courses Additional Mathematics I and II shall be permitted to register 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.</p> <p>(c) Completion of Additional Mathematics I and II shall be mandatory for the award of degree.</p> <p>(C) Vertical Progression in case of B.Sc students admitted to Second year (lateral entry):</p> <p>(a) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme) in the two semesters of II year of the Programme shall be eligible to move to III Year.</p> <p>(a.1) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme, if any) in the four semesters of II and III year shall be eligible to move to IV year.</p>

REGISTRAR
Belagavi Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 - 19**

18OB11.2	<p>(1) Noncompliance of CGPA ≥ 5.00 at the end of the Programme</p> <p>(a) Students who have completed all the courses of the Programme but not having a CGPA ≥ 5.00 at the end of the Programme, shall not be eligible for the award of the degree.</p> <p>(b) In the cases of 18OB11.2 (1) (a), students shall be permitted to appear again for SEE in course/s [other than Internship, Technical seminar, Project (Mini and Main), and Laboratories] of any Semester/s without the rejection of CIE marks for any number of times, subject to the provision of maximum duration of the Programme to make up the CGPA equal to or greater than 5.00 for the award of the Degree.</p> <p>(c) In case, the students earn improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is ≥ 5.00, the students shall become eligible for the award of the degree. If CGPA < 5.00, the students shall follow the procedure laid in 18OB11.2(1) (b).</p> <p>(d) In case, the students earn improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in the other reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is ≥ 5.00, the students shall become eligible for the award of the degree. If CGPA < 5.00, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(e) In case, the students earn improved grade/s in some courses and fail in the other reappeared course/s, the CGPA shall be calculated by considering the improved grade/s and the previously earned pass grade/s of the reappeared course/s in which the students have failed. If it is ≥ 5.00, the students shall become eligible for the award of the degree. If CGPA < 5.00, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(f) In case, the students fail (i.e., earns F grade) in all the reappeared course/s, pass grade/s of the course/s earned by the students before reappearance shall be retained. In such cases, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(g) Students shall obtain written permission from the Registrar (Evaluation) to reappear in SEE to make up the CGPA equal to or greater than 5.00.</p> <p>(2) Noncompliance of Mini-project</p> <p>(a) The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.</p> <p>(3) Noncompliance of Internship</p> <p>(a) All the students of B.E./B.Tech. shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credits shall be included with the credits of VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail in that Course and shall have to complete the same during subsequent University examinations after satisfy the internship requirements.</p>
18OB12.0	Temporary Discontinuation/Break in the Programme/Change in Scheme of Study
18OB12.1	<p>(a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the Programme during any semester intentionally, he/she shall be permitted to continue the Programme by registering to the same semester of the prevailing scheme. The candidate from that semester shall attend and complete all the remaining Course works of all the semesters, adhering to the regulations of the prevailing scheme and subject to the provision 18OB1.4. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank / Honours degree.</p>

REGISTRAR
Swamyaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 - 19**

	<p>(b) Candidates who take admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the Programme adhering to the regulations of the prevailing scheme, and shall complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Courses shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank/Honours Degree.</p> <p>(c) The credits to be earned by the candidates under 18OB12.1 (a) and (b) and 18OB14.1(b) and (c) shall be decided by the University along with the additional Course/s to be completed.</p>
18OB12.2	<p>(i) The candidates who have temporarily discontinued the Programme of study or changed the scheme of study from one to another because of various reasons, or transferred from autonomous/other University to non-autonomous VTU constituent/affiliated college, shall be eligible for the award of degree provided the credits earned is equal to or greater than the credits decided by the University in the individual cases.</p> <p>(ii) In case, the credits earned is less than the credits decided by the University in the individual cases, after the completion of all the semesters of the Programme under the prevailing scheme, the candidate shall register for a Course or courses not studied earlier and make up the credits earned equal to or greater than the required for the award of degree.</p> <p>(iii) If the earned Programme credits are greater than the prescribed, the CGPA shall be proportionately reduced to the prescribed Programme credits.</p>
18OB13.0	Award of Prizes, Medals and Ranks
18OB13.1	For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such awards.
18OB13.2	<p>1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester shall be considered.</p> <p>(2) The additional credits earned for the award of Honours degree shall not have any bearing for the Rank declaration.</p> <p>(3) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided that the student,</p> <p>(a) (i) Has passed all the Courses of I to VIII semester in first attempt only in case of Candidates admitted to I year.</p> <p>(ii) Has passed all the Courses (including Additional Mathematics I and II in case Diploma students/ Engineering Graphics and Elements of Civil Engineering and Mechanics in case of B.Sc graduates under lateral entry) of III to VIII semester in first attempt only in case of Candidates admitted under lateral entry scheme.</p> <p>(b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc.</p> <p>(c) Has completed all the Courses/semesters of the same Scheme of Teaching and Examinations without any break/discontinuity.</p> <p>(d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.</p> <p>(e) Has not been transferred from any autonomous institution affiliated to VTU or from any other University.</p> <p>(4) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 ranks in a Specialization.</p> <p>(5) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination.</p> <p>Illustration:</p> <p>(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.</p>

REGISTRAR
Sri Jayarajya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

	<p>(b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 09.</p> <p>(6) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place is greater than or equal to 5.</p>
18OB13.3	Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.
18OB14.0	Transfer of students
18OB14.1	<p>(a) (i) Transfer of students from one VTU affiliated non – autonomous college to another VTU non – autonomous affiliated college shall be permitted only at the beginning of third, fifth and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges with the approval of the Registrar, VTU subject to the provision 18OB10.3.</p> <p>(ii) The students seeking transfer as per 18OB14.1 (a) (i) shall have to obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU.</p> <p>(iii) Complete the Programme subject to the provision 18OB1.4.</p> <p>(b) Transfer of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the following conditions.</p> <p>(i) Transfer shall only be at the beginning of III and V semester B.E./B.Tech. Programme.</p> <p>(ii) No transfer shall be permitted to VII semester B.E./B.Tech. Programme.</p> <p>(iii) Students who are seeking transfer must have passed in all the Courses of the previous semesters.</p> <p>(iv) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU.</p> <p>(v) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the Eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</p> <p>(vi) Earn the credits decided by the University as per 18OB12.2.</p> <p>(vii) Complete the Programme subject to the provision 18OB1.4.</p> <p>(c) In the case of students seeking transfer from Universities other than VTU, the students must have passed in all the Courses of I and II semesters for admission to III semester and all the Courses of I to IV semesters for admission to V semester. No transfer shall be permitted to VII semester B.E./B.Tech. Programme of VTU from any other Universities. The students seeking admission from other Universities to VTU shall have to</p> <p>(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.</p> <p>(ii) Produce No Objection certificate for admission from both the colleges before the commencement of term as notified by VTU.</p> <p>(iii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</p> <p>(iv) Earn the credits as decided by the University as per 18OB12.2.</p> <p>(v) Complete the Programme subject to the provision 18OB1.4.</p>
18OB14.2	Transfer of students within the College from one branch to another branch at the start of III semester shall be permitted with the approval of the Registrar, VTU subject to the provisions made by the appropriate authorities.

REGISTRAR
Vasvaraya Technological University
BELAGAVI - 590 018.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
Effective from the Academic Year 2018 – 19**

18OB14.3	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).
18OB15.0	Applicability and Power to Modify
18OB15.1	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.
18OB15.2	i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty. ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.




REGISTRAR
Visvesvaraya Technological University,
BELAGAVI - 590 018.