

10 YEARS OF UNIVERSITY RECOGNITION
20 YEARS OF ACADEMIC EXCELLENCE



REVA
UNIVERSITY

Bengaluru, India



CBCS REGULATIONS

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**REVA University Regulations for Choice Based Credit
System (CBCS) and Continuous Assessment Grading
Pattern (CAGP) for Four Year Graduate Degree
Programs, 2016**

REVA University Regulations for Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) for Four Year Graduate Degree Programs, 2016

(framed as per the provisions under Section 35 (ii), Section 7 (x) and Section 8 (xvi) & (xxi) of the REVA University Act, 2012)

1. Title and Commencement:

1.1. These Regulations shall be called the “REVA University Regulations for Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) for Engineering Graduate Degree Programs, 2016”.

1.2. These Regulations shall come into force from the date of assent of the Chancellor.

2. The Programs:

The following programs and all Engineering Graduate Degree programs to be instituted and introduced in REVA University in coming years shall follow these regulations.

B Tech in:

Civil Engineering

Computer Science and Engineering

Electrical and Electronics Engineering

Electronics and Communication Engineering

Mechanical Engineering

B Sc (Honors) in Computer Science (with specialization in Cloud and Big Data)

3. Definitions:

Course: Every course offered will have three components associated with the teaching-learning process of the course, namely:

(i) L= Lecture (ii) T= Tutorial (iii) P=Practice; where:

L stands for **Lecture** session consisting of classroom instruction.

T stands for **Tutorial** session consisting participatory discussion / self study/ desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture classes.

P stands for **Practice** session and it consists of Hands on Experience / Laboratory Experiments / Field Studies / Case Studies that equip students to acquire the much required skill component.

4. Courses of study and Credits

4.1. The study of various subjects in B Tech degree program are grouped under various courses. Each of these course carries credits which are based on the number of hours of teaching and learning.

4.1.1. In terms of credits, every **one hour session of L amounts to 1 credit per Semester**

and a minimum of **two hour session of T or P amounts to 1 credit per Semester or a three hour session of T / P amounts to 2 credits** over a period of one Semester of 16 weeks for teaching-learning process.

4.1.2. The total duration of a semester is 20 weeks inclusive of semester-end examination.

4.1.3. A course shall have either or all the four components. That means a course may have only lecture component, or only practical component or combination of any two or all the three components.

4.2. The total credits earned by a student at the end of the semester upon successfully completing the course are L + T + P. **The credit pattern of the course is indicated as L:T:P.**

If a course is of 4 credits then the different credit distribution patterns in L: T: P format could be:

4 : 0 : 0 : 0, 1 : 2 : 1 : 0, 1 : 1 : 2 : 0, 1 : 0 : 2 : 1, 1 : 2 : 0 : 1,
2 : 1 : 1 : 0, 2 : 2 : 0 : 0, 2 : 0 : 1 : 1, 3 : 1 : 0 : 0, 3 : 0 : 1 : 0,
0 : 2 : 2 : 0, 0 : 3 : 0 : 1, 0 : 0 : 3 : 1, 0 : 1 : 3 : 0, 0 : 2 : 1 : 1,

4.2.1. The concerned BoS will choose the convenient Credit Pattern for every course based on the requirement. However, generally, a course shall be of FOUR Credits and occasionally may be of TWO Credits.

4.2.2. Different Courses of Study are labeled and defined as follows:

a. Core Course:

A course which should compulsorily be studied by a candidate as a core-requirement is termed as a Core course. The CORE courses of Study are of THREE types, viz – (i) Foundation Course, (ii) Hard Core Course, and (iii) Soft Core Course.

b. Foundation Course (FC):

The foundation Course is a core course which should be completed successfully as a part of graduate degree program irrespective of the branch of study.

c. Hard Core Course (HC):

The **Hard Core Course** is a Core Course in the main branch of study and related branch(es) of study, if any that the candidates have to complete compulsorily.

d. Soft Core Course (SC):

A Core course may be a **Soft Core** if there is a choice or an option for the candidate to choose a course from a pool of courses from the main branch of study or from a sister/related branch of study which supports the main branch of study.

e. Open Elective Course:

An elective course chosen generally from other discipline / subject, with an intention to seek exposure to the basics of subjects other than the main discipline the student is studying is called an **Open Elective Course**.

f. Project Work / Dissertation:

Project work / Dissertation denoted as “D” is a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A project work carrying **FOUR or SIX** credits is called **Minor Project** work. A project work of **EIGHT, TEN, TWELVE or SIXTEEN** credits is called **Major Project** work / **Dissertation**. **A Minor Project work may be a hard core or a Soft Core as decided by the BoS / concerned. But the Major Project shall be Hard Core.**

5. Eligibility for Admission:

5.1. The eligibility criteria for admission to B Tech Program of 4 years (8 Semesters) is given below:

Sl. No.	Program	Duration	Eligibility
1	Bachelor of Technology (B Tech)	4 Years (8Semesters)	Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry Biotechnology / Biology / Technical Vocational subject Obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together.
2	Bachelor of Technology (B Tech)	Lateral entry to second year	<p>(A) Passed Diploma examination from an AICTE approved Institution with at least 45% marks (40% in case of candidates belonging to SC/ST category) in appropriate branch of Engineering / Technology.</p> <p>(B) Passed B. Sc Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to SC/ST category) and passed XII standard with mathematics as a subject.</p> <p>(C) Provided that in case of students belonging to B. Sc. Stream, shall clear the subjects of Engineering Graphics / Engineering Drawing and Engineering Mechanics of the first year Engineering program along with the second year subjects.</p> <p>(D) Provided further that, the students belonging to B. Sc. Stream shall be considered only after filling the seats in this category with students belonging to the Diploma stream.</p> <p>(E) Provided further that students, who have passed Diploma in Engineering & Technology from an AICTE approved Institution or B. Sc Degree from a recognized University as defined by UGC, shall also be</p>

			eligible for admission to the first year Engineering Degree courses subject to vacancies in the first year class in case the vacancies at lateral entry are exhausted. However the admissions shall be based strictly on the eligibility criteria as mentioned in A, B, D, and E above.
3	Bachelor of Technology (B Tech)	Lateral entry to fourth year (final year)	(F) Any candidate with genuine reason from any University / Institution in the country upon credit transfer could be considered for lateral admission to the respective semester in the concerned branch of study, provided he/she fulfils the university requirements.
4	B Sc (Honors) in Computer Science (with specialization in Cloud and Big Data)	4 Years (8Semesters)	Pass in PUC /10+2 examination with Physics, Mathematics as compulsory subject along with at least one of the Chemistry,/ Bio-Technology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained minimum 45% marks (40% in case of candidates belonging to SC / ST category) in the above subjects taken together of any board recognised by the respective State Government / Central Government / Union Territories or any other qualification recognised as equivalent there to.

5.2 Provided further that the eligibility criteria are subject to revision by the Government Salutatory Bodies, such as AICTE, UGC from time to time.

6. Scheme, Duration and Medium of Instructions:

6.1. B Tech degree program is of 8 semesters - 4 years duration. A candidate can avail a maximum of 16 semesters - 8 years as per double duration norm, in one stretch to complete B Tech degree, including blank semesters, if any. Whenever a candidate opts for blank semester, he/she has to study the prevailing courses offered by the School when he/she resumes his/her studies.

6.2. The medium of instruction shall be English.

7. Credits and Credit Distribution

7.1. A candidate has to earn 192 credits for successful completion of B Tech degree / B Sc (Honors) in Computer Science degree with the distribution of credits for different courses as given in Table-1 below:

Course Type	Credits
	For B Tech Degree (8 Semesters)
Foundation Core Course	A minimum of 08
Hard Core Course	A minimum of 136, but not exceeding 156
Soft Core Course	A minimum of 24 but not exceeding 44
Open Elective	A minimum of 04

7.2. Every course including project work, practical work, field work, self study elective should be entitled as **Foundation Course (FC), Hard Core (HC) or Soft Core (SC) or Open Elective (OE) or Core Course (CC)** by the BoS concerned. However, following shall be the **Foundation Courses** with credits mentioned against them, common to all branches of study.

Sl. No.	Course Title	Number of Credits
1	English for Technical Communication	4
2	Environmental Studies	2
3	Indian Constitution and Professional Ethics	2

7.3. A candidate can enrol for a maximum of 32 credits and a minimum of 20 credits per Semester. However he / she may not successfully earn a maximum of 32 credits per semester. This maximum of 32 credits does not include the credits of courses carried forward by a candidate.

7.4. **Only such full time candidates who register for a minimum prescribed number of credits in each semester from I semester to VIII semester and complete successfully 192 credits in 8 successive semesters shall be considered for declaration of Ranks, Medals, Prizes and are eligible to apply for Student Fellowship, Scholarship, Free ships, and such other rewards / advantages which could be applicable for all full time students and for hostel facilities.**

8. Add- on Proficiency Certification:

To acquire **Add on Proficiency Certification** a candidate can opt to complete a minimum of 4 extra credits either in the same discipline /subject or in different discipline / subject in excess to 192 credits for the B Tech degree / B Sc in (Honors) Computer Science degree programs.

9. Add on Proficiency Diploma:

9.1. To acquire **Add on Proficiency Diploma**, a candidate can opt to complete a minimum of 18 extra credits either in the same discipline /subject or in different discipline / subject in excess to 192 prescribed credits for the B Tech degree / B Sc (Honors) in Computer Science degree programs.

9.2. The **Add on Proficiency Certification / Diploma** so issued to the candidate contains the courses studied and grades earned.

10. Continuous Assessment, Earning of Credits and Award of Grades.

10.1. The assessment and evaluation process happen in a continuous mode. However, for reporting purpose, **a semester is divided into 3 components as C1, C2, and C3.** The performance of a candidate in a course will be assessed for a maximum of 100 marks as explained below.

(i) Component C1:

The first Component (C1), of assessment is for 20 marks. This will be based on test, assignment / seminar. During the first half of the semester (i.e. by 8th week), the first 50% of the syllabus (Unit 1&2) will be completed. This shall be consolidated during the 8th week of the semester. A review test based on C1 will be conducted and completed in the 8th week. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed in the end of the 8th week. The academic sessions will continue for C2 immediately after completion of process of C1.

The finer split - up for the award of marks in C1 is as follows:

Assignment / Seminar	5 marks for Unit 1&2
Review Test	15 marks for Unit 1&2
Total	20 marks

(ii) Component C2:

The second component (C2), of assessment is for 20 marks. This will be based on test, assignment /seminar. The continuous assessment and scores of second half of the semester (9th to 16th week) will be consolidated during 16th week of the semester. During the second half of the semester the remaining units in the course will be completed. A review test based on C2 will be conducted and completed during 16th week of the semester. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed during 16th week.

The 17th week will be for revision of syllabus and preparation for the semester - end examination.

The finer split - up for the award of marks in C2 is as follows:

Assignment / Seminar	5 marks for Unit 3 & 4
Review Test	15 marks for Unit 3 & 4
Total	20 marks

(iii) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) will be proposed by the teacher(s) concerned before the commencement of the semester and will be discussed and decided in the respective School Board. The students should be informed about the modalities well in advance. The evaluated courses / assignments during Component-I (C1) and Component-II (C2) of assessment are immediately brought to the notice of the students individually and obtain acknowledgement of students in the register maintained by the concerned teacher for this purpose. All such records relating to assignments, tests etc, shall be maintained in the respective Schools for a period of one academic year excluding the year of study.

(iv) Component C3:

The end semester examination of 3 hours duration for each course shall be conducted during the 18th & 19th week and the examination covers entire 4 units of syllabus. **This forms the third / final component of assessment (C3) and the maximum marks for the final component will be 60.**

- (v) Valuation will be undertaken concurrently and results are announced latest by the end of 20th week. This practice will be followed both in odd semester and even semester.

10.2. Setting question paper and evaluation of answer scripts.

- i. Questions papers (for C3) in **three** sets shall be set by the internal examiners and one set shall be set by the external examiner for each course. The internal examiners shall be those who taught the concerned course.
- ii. The Chairman of BoE shall get the question papers set by internal and external examiners.
- iii. The Board of Examiners shall scrutinize and approve the question papers and scheme of valuation. It is the responsibility of the BoE to see that all questions contained in the question paper are within the prescribed syllabus of the concerned course.
- iv. There shall be single valuation for all theory papers by internal examiners. However, there shall be moderation by the external examiner who has the subject background. In case no external examiner with subject background is available, a senior faculty member within the discipline shall be appointed as moderator.
- v. The C3 examination for Practical work / Field work / Project work/Internship will be conducted jointly by internal and external examiners as detailed below: However, the BoE on its discretion can also permit two internal examiners.
- vi. If a course is fully of (L=0):T:(P=0) type or a course is partly P type i.e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

10.3. Evaluation of Practical's and Minor Project / Major Project / Dissertation

10.3.1. A practical examination shall be assessed on the basis of:

- a) Knowledge of relevant processes;
- b) Skills and operations involved;
- c) Results / products including calculation and reporting.

10.3.2. In case a course is fully of P type (L=0:T=0:P=4), the performance of a candidate shall be assessed for a maximum of 100 marks as explained below:

- a) Continuous assessment (C1 and C2) = 40 marks
- b) Semester end (C3) practical examination = 60 marks

The 40 marks for continuous assessment shall further be allocated as under:

i	Conduction of regular practical throughout the semester	20 marks
ii	Maintenance of lab records	10 marks
iii	Performance of mid-term test	10 marks
	Total	40 marks

The 60 marks meant for Semester End (C3) Examination, shall be allocated as under:

i	Conduction of semester end practical examination	40 marks
ii	Write up about the experiment / practical conducted	10 marks
iii	Viva Voce	10 marks
	Total	60 marks

10.3.3. The C3 examination for Practical work will be conducted jointly by internal and external examiners. However, if external examiner does not turn up, then both the examiners will be internal examiners.

10.3.4. In case a course is partly P type i.e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

10.3.5. The duration for semester-end practical examination shall be decided by the concerned School Board.

10.4. Evaluation of Minor Project / Major Project / Dissertation:

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his/her progress in the form of seminars in addition to the regular discussion with the supervisor. At the end of the semester, the candidate has to submit final report of the project / dissertation, as the case may be, for final evaluation. The components of evaluation are as follows:

Component – I	(C1)	Periodic Progress and Progress Reports (25%)
Component – II	(C2)	Results of Work and Draft Report (25%)
Component– III	(C3)	Final Evaluation and Viva-Voce (50%). Evaluation of the report is for 30% and the Viva-Voce examination is for 20%.

10.5 The details of continuous assessment are summarized in the following table:

Component	Period	Syllabus	Weightage	Activity
C1	1st Week to 8th Week			Instructional process and Continuous Assessment
	8 th Week	First 50% (two units)	20%	C1 Test and Consolidation of C1
C2	9 th Week to 16 th			Instructional process

	Week			and Continuous Assessment
C2	16 th Week	Second 50% remaining two units	20%	C2 Test and Consolidation of C2
C3	17 th Week			Revision and preparation for semester-end exam
C3	18 th Week to 19 th Week	Entire syllabus	60%	Conduct of Semester - end Exams (C3)
C3 Practical Examination	19 th Week	Entire Syllabus	60%	
C3	20 th Week			Evaluation and Tabulation
	End of 20 th Week			Notification of Final Grades

Note: 1. *Examination and Evaluation shall take place concurrently and Final Grades shall be announced latest by 5 days after completion of the examination.*

2. *Practical examination wherever applicable shall be conducted after C2 and before C3 examination. The calendar of practical examination shall be decided by the respective School Boards and communicated well in advance to the Registrar (Evaluation) who will notify the same immediately.*

10.5. Finally awarding the grades should be completed latest by 20th week of the semester.

11. Provision for Appeal

If a candidate is not satisfied with the evaluation of C1 and C2 components, he/she can approach the grievance cell with the written submission together with all facts, the assignments, test papers etc, which were evaluated. He/she can do so before the commencement of semester-end examination. The grievance cell is empowered to revise the marks if the case is genuine and is also empowered to levy penalty as prescribed by the university on the candidate if his/her submission is found to be baseless and unduly motivated. This cell may recommend taking disciplinary/corrective action on an evaluator if he/she is found guilty. The decision taken by the grievance cell is final.

For every program there will be one grievance cell. The composition of the grievance cell is as follows:-

- The Registrar (Evaluation) - Ex-officio Chairman / Convener
- One Senior Faculty Member (other than those concerned with the evaluation of the course concerned) drawn from the school / department/discipline and/or from the sister schools / departments/sister disciplines – Member.
- One Senior Faculty Members / Subject Experts drawn from outside the University school / department – Member.

12. Eligibility to Appear for C3 (Semester - end) Examination and requirements to pass a course / semester.

12.1. Only those students who fulfil a minimum of 75% attendance in aggregate of all the courses including practical courses / field visits etc, as part of the course(s), as provided in the succeeding sections, shall be eligible to appear for C3 examination.

12.2 Requirements to Pass a Course

A candidate's performance from all 3 components will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (20 + 20 + 60; i .e, C1 + C2 + C3) and have to secure a minimum of 40% to declare pass in the course. However, a candidate has to secure a minimum of 25% (15 marks) in C3 which is compulsory.

12.3. Requirements to Pass the Semester:

To pass the semester, a candidate has to secure minimum of 40% marks in each subject / course of the study prescribed in that semester.

13. Provision to Carry Forward the Failed Subjects / Courses:

13.1. The student who has failed in a maximum of 4 courses in odd and even semesters together shall move to next semester of immediate succeeding year of study. And he / she shall appear for C3 examination of failed courses of previous odd / even semesters concurrently with odd / even semester end examinations (C3) of current year of study. However, he / she shall have to clear all courses of both odd and even semesters of preceding year to register for next succeeding semester.

Examples:-

- a. Student "A" has failed in 1 Course in First Semester and 3 Courses in Second Semester. He / she is eligible to seek admission for Third Semester and appear for C3 examination of 1 failed Course of First Semester concurrently with Third Semester C3 examination. Likewise, he / she is eligible to appear for C3 examination of 3 failed Courses of Second Semester concurrently with Fourth Semester C3 examination. However, he / she has to clear all the failed Courses of First and Second Semesters before seeking admission to Fifth Semester.
- b. Student "B" has failed in 2 Courses in Third Semester and 2 Courses in Fourth Semester and has passed in all Courses of First and Second Semesters. He / she is eligible to seek admission to Fifth Semester and appear for C3 examination of 2 failed Courses of Third Semester concurrently with Fifth Semester C3 examination. Likewise he / she is eligible to appear for C3 examination of 2 failed Courses of Fourth Semester concurrently with Sixth Semester C3 examination. However, he / she is not eligible to seek admission to Seventh Semester unless he / she passes in all the failed courses of Third and Fourth Semesters.
- c. Student "C" has failed in 4 Courses in Fifth Semester but has cleared all the courses in Sixth Semester. He / She has also passed all the courses of First to Fourth Semesters. Student "C" is eligible to seek admission for Seventh

Semester and appear for C3 examination of 4 failed Courses of Fifth Semester concurrently with Seventh Semester C3 examination. However, he / she has to pass all the failed courses of Fifth Semester along with Seventh and Eighth Semesters courses to earn B Tech Degree.

- d. Student “D” passed in 1 to 4 semesters, but failed in 3 courses of 5th Semester and in 1 course of 6th Semester. He / She has also passed all the courses of First to Fourth Semesters. Student “D” is also eligible to seek admission for 7th Semester and appear for C3 examination of 3 failed courses of 5th Semester concurrently with 7th Semester C3 examination and one failed course of 6th Semester concurrently with 8th Semester C3 examination. However, he / she has to pass all the 3 failed courses of Fifth Semester and 1 course Sixth Semester along with Seventh and Eighth Semester courses to earn B Tech Degree.

13.1. Re-Registration and Re-Admission:

- a) In case a candidate’s class attendance in aggregate of all courses in a semester is less than 75% or as stipulated by the University, such a candidate is considered as dropped the semester and is not allowed to appear for end semester examination (C3) and he / she shall have to seek re-admission to that semester during subsequent semester / year within a stipulated period.
- b) In such case where in a candidate drops all the courses in a semester due to personal reasons, it is considered that the candidate has dropped the semester and he / she shall seek re-admission to such dropped semester.

14. Attendance Requirement:

- 14.1. All students must attend every lecture, tutorial and practical classes.
- 14.2. In case a student is on approved leave of absence (e g:- representing the university in sports, games or athletics, placement activities, NCC, NSS activities and such others) and / or any other such contingencies like medical emergencies, the attendance requirement shall be minimum of 75% of the classes taught.
- 14.3. Any student with less than 75% of attendance in aggregate of all the courses including practical courses / field visits etc, during a semester shall not be permitted to appear to the end semester (C3) examination and such student shall seek re-admission as provided in above.
- 14.4. Teachers offering the courses will place the above details in the School Board meeting during the last week of the semester, before the commencement of C3, and subsequently a notification pertaining to the above will be brought out by the Director of the School before the commencement of C3 examination. A copy of this notification shall also be sent to the office of the Registrar & Registrar (Evaluation).

15. Absence during Mid Semester Test:

In case a student has been absent from a mid semester (C1 and C2) examination due to the illness or other contingencies he / she may give a request along with necessary supporting documents and certification from the concerned class teacher / authorized personnel to the concerned Head of the School, for special test. The Head of the School may consider such request depending on the merit of the case and after consultation with course instructor and class teacher, and arrange to conduct a special test for such candidate(s) well in advance before the C3 examination of that respective semester. Under no circumstances C1 & C2 test shall be held after C3 examination.

16. Grade Card and Grade Point

16.1.1. Provisional Grade Card: The tentative / provisional grade card will be issued by the Registrar (Evaluation) at the end of every semester indicating the courses completed successfully. The provisional grade card provides **Semester Grade Point Average (SGPA)**.

16.2. Final Grade Card: Upon successful completion of B Tech Degree / B Sc Honors in Computer Science with specialization in (Cloud and Bio Data) degree as the case may be a Final Grade card consisting of grades of all courses successfully completed by the candidate will be issued by the Registrar (Evaluation).

16.3. The Grade and the Grade Point: The Grade and the Grade Point earned by the candidate in the subject will be as given below.

Marks P	Grade G	Grade Point (GP=V x G)	Letter Grade
90 > 100	10	v*10	O
80 > 90	9	v*9	A+
70 > 80	8	v*8	A
60 > 70	7	v*7	B+
55 > 60	6	v*6	B
50 > 55	5.5	V*5.5	C
40 > 50	5	v*5	P
0-40	0	v*0	F
ABSENT			AB

O - Outstanding; A-Excellent; B-Very Good; C-Good; D-Fair; E-Satisfactory; F - Fail

Here, P is the percentage of marks ($P = [(C1+C2)+M]$) secured by a candidate in a course which is **rounded to nearest integer**. V is the credit value of course. G is the grade and GP is the grade point.

16.3.1. Computation of SGPA and CGPA

The Following procedure to compute the Semester Grade Point Average (SGPA)

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student in a given semester, i.e. :
SGPA (Si) = $\sum(C_i \times G_i) / \sum C_i$ 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.

Illustration for Computation of SGPA and CGPA

Illustration No. 1

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit x Grade)
Course 1	4	A+	9	4X9=36
Course 2	4	A	8	4X8=32
Course 3	3	B+	7	3X7=21
Course 4	3	O	10	3X10=30
Course 5	3	P	5	3X5=15
Course 6	3	B	6	3X6=18
Course 7	2	O	10	2X10=20
Course 8	2	A	8	2X8=16
	24			188

Thus, **SGPA = $188 \div 24 = 7.83$**

Illustration No. 2

Course	Credit	Grade letter	Grade Point	Credit Point (Credit x Grade point)
Course 1	4	A	8	4X8=32
Course 2	4	B+	7	4X7=28
Course 3	3	A+	9	3X9=27
Course 4	3	B+	7	3X7=21
Course 5	3	B	6	3X6=18
Course 6	3	P	5	3X5=15
Course 7	2	B+	7	2X7=21
Course 8	2	O	10	2X10=20
	24			175

Thus, **SGPA = $175 \div 24 = 7.29$**

Illustration No.3

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit x Grade point)
Course 1	4	O	10	4 x 10 = 40
Course 2	4	A+	9	4 x 9 = 36
Course 3	3	B+	7	3 x 7 = 21
Course 4	3	B	6	3 x 6 = 18
Course 5	3	A+	9	3 x 9 = 27
Course 6	3	B+	7	3 x 7 = 21
Course 7	2	A+	9	2 x 9 = 18
Course 8	2	A+	9	2 x 9 = 18
	24			199

Thus, **SGPA = $199 \div 24 = 8.29$**

16.4. Cumulative Grade Point Average (CGPA):

16.4.1. Overall Cumulative Grade Point Average (CGPA) of a candidate after successful

completion of the required number of credits (192) for B. Tech degree in Engineering & Technology is calculated taking into account all the courses undergone by a student over all the semesters of a program, i. e : $CGPA = \frac{\sum(C_i \times S_i)}{\sum C_i}$

Where S_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 points and reported in the transcripts.

Illustration:

CGPA after Final Semester

Semester (ith)	No. of Credits (Ci)	SGPA (Si)	Credits x SGPA (Ci X Si)
1	24	6.83	24 x 6.83 = 163.92
2	24	7.29	24 x 7.29 = 174.96
3	24	8.11	24 x 8.11 = 192.64
4	26	7.40	26 x 7.40 = 192.4
5	26	8.29	26 x 8.29 = 215.54
6	24	8.58	24 x 8.58 = 205.92
7	24	9.12	24 x 9.12 = 218.88
8	24	9.25	24 x 9.25 = 222
Cumulative	196		1588.26

Thus, $CGPA = \frac{24 \times 6.83 + 24 \times 7.29 + 24 \times 8.11 + 26 \times 7.40 + 26 \times 8.29 + 24 \times 8.58 + 24 \times 9.12 + 24 \times 9.25}{196} = 8.10$

16.4.2. CONVERSION OF GRADES INTO PERCENTAGE:

Conversion formula for the conversion of CGPA into Percentage is:

Percentage of marks scored = CGPA Earned x 10

Illustration : CGPA Earned 8.10 x 10=81.0

16.5. Classification of Results

The final grade point (FGP) to be awarded to the student is based on CGPA secured by the candidate and is given as follows.

CGPA	Grade (Numerical Index)	Letter Grade	Performance	FGP
	G			Qualitative Index
9 >= CGPA 10	10	O	Outstanding	Distinction
8 >= CGPA < 9	9	A+	Excellent	
7 >= CGPA < 8	8	A	Very Good	First Class
6 >= CGPA < 7	7	B+	Good	
5.5 >= CGPA < 6	6	B	Above average	Second Class
> 5 CGPA < 5.5	5.5	C	Average	
> 4 CGPA < 5	5	P	Pass	Satisfactory

Overall percentage=10*CGPA

17. Challenge Valuation:

- a. A student who desires to apply for challenge valuation shall obtain a photo copy of the answer script by paying the prescribed fee within 10 days after the announcement of the results. He / She can challenge the grade awarded to him/her by surrendering the grade card and by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 10 days after the announcement of the results. This challenge valuation is only for C3 component.
- b. **The answer scripts for which challenge valuation is sought for shall be evaluated by the external examiner who has not involved in the first evaluation. The higher of two marks from first valuation and challenge valuation shall be the final.**

18. With regard to any specific case of ambiguity and unsolved problem, the decision of the Vice-Chancellor shall be final.

**REVA University Regulations for Choice Based Credit System
(CBCS) and Continuous Assessment Grading Pattern (CAGP)
for Three Year Degree Programs, 2016**

REVA University Regulations for Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) for Three Year Degree Programs, 2016

(framed as per the provisions under Section 35 (ii), Section 7 (x) and Section 8 (xvi) & (xxi) of the REVA University Act, 2012)

1. Title and Commencement:

1.1. These Regulations shall be called the “**REVA University Regulations for Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) for Three Year Degree Programs, 2016**”.

1.2. These Regulations shall come into force from the date of assent of the Chancellor.

2. The Programs:

The following three year Degree Programs and all such three year Degree Programs to be instituted and introduced in REVA University in coming years shall follow these regulations.

- (1) BBA (Bachelor of Business Management)
- (2) BBA (Honors)
- (3) B Com (Bachelor of Commerce)
- (4) B Com (Honors)
- (5) BCA (Bachelor of Computer Applications)

3. Definitions:

Course: Every course offered will have four components associated with the teaching-learning process of the course, namely:

(ii)L= Lecture (ii) T= Tutorial (iii) P=Practice, (iv) D=Dissertation / Project; where:

L stands for **Lecture** session consisting of classroom instruction.

T stands for **Tutorial** session consisting participatory discussion / self study/ desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture classes.

P stands for **Practice** session and it consists of Hands on Experience / Laboratory Experiments / Field Studies / Case Studies that equip students to acquire the much required skill component.

D stands for Dissertation / Project to be carried out as a part of the course work.

4. Courses of Study and Credits

4.3. The studies of various subjects in Three Year degree program are grouped under various courses. Each of these course carries credits which are based on the number of hours of teaching and learning.

In terms of credits, every **one hour session of L amounts to 1 credit per Semester** and a minimum of **two hour session of T or P amounts to 1 credit per Semester or a three hour session of T / P / D amounts to 2 credits** over a period of one Semester of 16 weeks for teaching-learning process.

4.3.1. The total duration of a semester is 20 weeks inclusive of semester-end examination.

4.3.2. A course shall have either or all the four components. That means a course may have only lecture component, or only practical component or combination of any two or all the three components.

4.4. The total credits earned by a student at the end of the semester upon successfully completing the course are $L + T + P + D$. **The credit pattern of the course is indicated as L: T: P:D.**

If a course is of 4 credits then the different credit distribution patterns in L: T: P:J format could be:

4 : 0 : 0 : 0, 1 : 2 : 1 : 0, 1 : 1 : 2 : 0, 1 : 0 : 2 : 1, 1 : 2 : 0 : 1,
2 : 1 : 1 : 0, 2 : 2 : 0 : 0, 2 : 0 : 1 : 1, 3 : 1 : 0 : 0, 3 : 0 : 1 : 0,
0 : 2 : 2 : 0, 0 : 3 : 0 : 1, 0 : 0 : 3 : 1, 0 : 1 : 3 : 0, 0 : 2 : 1 : 1,

4.4.1. The concerned BoS will choose the convenient Credit Pattern for every course based on the requirement. However, generally, a course shall be of FOUR Credits and occasionally may be of TWO Credits.

4.4.2. Different **Courses of Study** are labeled and defined as follows:

4.1. Core Course:

A course which should compulsorily be studied by a candidate as a core-requirement is termed as a Core course. The CORE courses of Study are of THREE types, viz – (i) Foundation Course, (ii) Hard Core Course, and (iii) Soft Core Course.

4.2. Foundation Course (FC):

The foundation Courses are core courses including language study which are mandatory in nature prescribed by the University and should be completed successfully as a part of graduate degree program irrespective of the branch of study.

4.3. Hard Core Course (HC):

The **Hard Core Course** is a Core Course in the main branch of study and related branch (es) of study, if any that the candidates have to complete compulsorily.

4.4. Soft Core Course (SC):

A Core course may be a **Soft Core** if there is a choice or an option for the candidate to choose a course from a pool of courses from the main branch of study or from a sister/related branch of study which supports the main branch of study.

4.5. Open Elective Course:

An elective course chosen generally from other discipline / subject, with an intention to seek exposure to the basics of subjects other than the main discipline the student is studying is called an **Open Elective Course**.

4.6. Project Work / Dissertation:

Project work is a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A project work carrying **FOUR or SIX** credits is called **Minor Project work / Dissertation**. A project work of **EIGHT, TEN, TWELVE or SIXTEEN** credits is called **Major Project work / Dissertation**. **A Minor Project work may be a hard core or a Soft Core as decided by the BoS / concerned. But the Major Project shall be Hard Core.**

5. Eligibility for Admission:

The eligibility criteria for admission to various Three Years (SIX Semesters) Degree programs shall be as prescribed by the University from time to time.

6. Scheme, Duration and Medium of Instructions:

6.1. The Three Year Degree program is of 6 semesters (3 years) duration. A candidate can avail a maximum of 12 semesters (6 years) as per double duration norm, in one stretch to complete the Three Year Degree, including blank semesters, if any. Whenever a candidate opts for blank semester, he/she has to study the prevailing courses offered by the School when he/she resumes his/her studies.

6.2. The medium of instruction shall be English.

7. Credits and Credit Distribution

7.1. A candidate has to earn 144 credits for successful completion of Three Year degree (150 credits for successful completion of Three Year - B Com (Hons) / BBA (Hons) - degree with the distribution of credits for different courses as given below in Table-1 and Table-2 respectively:

Table-1: Credit Distribution for 3 Year Degree Programs

Course Type	Credits
	For Three Year Degree (6 Semesters)
Hard Core Courses	A minimum of 76 But not exceeding 100
Soft Core Courses	Minimum of 14 Maximum 24
Foundation Courses	Minimum of 12 Maximum 16
Core Courses (language)	Minimum 14 Maximum 24
Open Elective Course	A minimum of 04
Total	144 Credits

Table-2: Credit Distribution for Three Years –B Com (Hons) / BBA (Hons) / Degree Programs

Course Type	Credits
	For Three Year Degree (6 Semesters)
Hard Core Courses	A minimum of 80 But not exceeding 100
Soft Core Courses	Minimum of 20 Maximum 26
Foundation Courses	Minimum of 12 Maximum 16
Core Courses (language)	Minimum 14 Maximum 24
Open Elective Course	A minimum of 04
Total	150 credits

7.2. The concerned BoS based on the credits distribution pattern given above shall prescribe the credits to various types of courses and shall assign title to every course including project work, practical work, field work, self study elective, as **Foundation Course (FC), Hard Core (HC) or Soft Core (SC) or Open Elective (OE)**.

7.3. A candidate can enrol for a maximum of 30 credits and a minimum of 20 credits per Semester. However he / she may not successfully earn a maximum of 30 credits per semester. This maximum of 30 credits does not include the credits of courses carried forward by a candidate.

7.4. **Only such full time candidates who register for a minimum prescribed number of credits in each semester from I semester to VI semester and complete successfully 144 credits (150 credits in case of Honors Degree program) in 6 successive semesters shall be considered for declaration of Ranks, Medals, Prizes and are eligible to apply for Student Fellowship, Scholarship, Free ships, and such other rewards / advantages which could be applicable for all full time students and for hostel facilities.**

8. **Add- on Proficiency Certification:**

To acquire **Add on Proficiency Certification** a candidate can opt to complete a minimum of 4 extra credits either in the same discipline /subject or in different discipline / subject in excess to 144 credits for the Three Year Graduate Degree (**150 credits in case of Honors Degree**) program.

9. **Add on Proficiency Diploma:**

9.1. To acquire **Add on Proficiency Diploma**, a candidate can opt to complete a minimum of 18 extra credits either in the same discipline /subject or in different discipline / subject in excess to 144 credits for the Three Year Graduate Degree (**150 credits in case of Honors Degree**) program.

9.2. The **Add on Proficiency Certification / Diploma** so issued to the candidate contains the

courses studied and grades earned.

10. **Continuous Assessment, Earning of Credits and Award of Grades.**

10.1. The assessment and evaluation process happen in a continuous mode. However, for reporting purpose, **a semester is divided into 3 components as C1, C2, and C3.** The performance of a candidate in a course will be assessed for a maximum of 100 marks as explained below.

(i) Component C1: The first Component (C1), of assessment is for 25 marks.

This will be based on test, assignment / seminar. During the first half of the semester (i.e. by 8th week), the first 50% of the syllabus (Unit 1&2) will be completed. This shall be consolidated during the first three days of 8th week of the semester. A review test based on C1 will be conducted and completed in the beginning of the 9th week. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed in the beginning of the 9th week. The academic sessions will continue for C2 immediately after completion of process of C1.

The finer split - up for the award of marks in C1 is as follows:

Assignment	5 marks for Unit 1&2
Seminar	5 marks for Unit 1&2
Test (Mid-Term)	15 marks for Unit 1&2
Total	25 marks

(ii) Component C2: The second component (C2), of assessment is for 25 marks

This will be based on test, assignment / seminar. The continuous assessment and scores of second half of the semester (9th to 16th week) will be consolidated during 16th week of the semester. During the second half of the semester the remaining units in the course will be completed. A review test based on C2 will be conducted and completed during 16th week of the semester. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed during 16th week.

The 17th week will be for revision of syllabus and preparation for the semester - end examination.

The finer split - up for the award of marks in C2 is as follows:

Assignment	5 marks for Unit 3&4
Seminar	5 marks for Unit 3&4
Test (Mid-Term)	15 marks for Unit 3&4

Total 25 marks

(iv) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) will be proposed by the teacher(s) concerned before the commencement of the semester and will be discussed and decided in the respective School Board. The students should be informed about the modalities well in advance. The evaluated courses / assignments during Component-I (C1) and Component-II (C2) of assessment are immediately brought to the notice of the students individually and obtain acknowledgement of students in the register maintained by the concerned teacher for this purpose. All such records relating to assignments, tests etc, shall be maintained in the respective Schools for a period of one academic year excluding the year of study.

(iv) **Component C3:** The end semester examination of 3 hours duration covering the curriculum of all the four units for each course shall be conducted during the 18th & 19th week and the examination covers entire 4 units of syllabus. **This forms the third / final component of assessment (C3) and the maximum marks for the final component will be 50.**

(v) Valuation will be undertaken concurrently and results are announced latest by the end of 20th week. This practice will be followed both in odd semester and even semester.

10.2. Setting question papers and evaluation of answer scripts.

- vii. Questions papers (for C3) in **three sets shall be set by the internal examiners and one set shall be set by the external examiner** for each course. The internal examiners shall be those who taught the concerned course.
- viii. The Chairman of BoE shall get the question papers set by internal and external examiners.
- ix. The Board of Examiners shall scrutinize and approve the question papers and scheme of evaluation. It is the responsibility of the BoE to see that all questions contained in the question paper are within the prescribed syllabus of the concerned course.
- x. There shall be single valuation for all theory papers by internal examiners. However, there shall be moderation by the external examiner who has the subject background. In case no external examiner with subject background is available, a senior faculty member within the discipline shall be appointed as moderator.
- xi. The C3 examination for Practical work / Field work / Project work/Internship will be conducted jointly by internal and external examiners as detailed below: However, the BoE on its discretion can also permit two internal examiners.
- xii. If a course is fully of (L=0):T:(P=0) type or a course is partly P type i.e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

10.3. Evaluation of Practical's and Minor Project / Major Project / Dissertation

10.3.1. A practical examination shall be assessed on the basis of:

- a) Knowledge of relevant processes;
- b) Skills and operations involved;
- c) Results / products including calculation and reporting.

10.3.2. In case a course is fully of P type (L=0:T=0:P=4), the performance of a candidate shall be assessed for a maximum of 100 marks as explained below:

- a) Continuous assessment (C1 and C2) = 50 marks
- b) Semester end (C3) practical examination = 50 marks

The 50 marks meant for continuous assessment shall further be allocated as under:

i	Conduction of regular practical throughout the semester	20 marks
ii	Maintenance of lab records	10 marks
iii	Performance of mid-term test	20 marks
	Total	50 marks

The 50 marks meant for Semester End (C3) Examination, shall be allocated as under:

i	Conduction of semester end practical examination	30 marks
ii	Write up about the experiment / practical conducted	10 marks
iii	Viva Voce	10 marks
	Total	50 arks

10.3.3. The C3 examination for Practical work will be conducted jointly by internal and external examiners. However, if external examiner does not turn up, then both the examiners will be internal examiners.

10.3.4. In case a course is partly P type i. e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

10.3.5. The duration for semester-end practical examination shall be decided by the concerned School Board.

10.4. Evaluation of Minor Project / Major Project / Dissertation:

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his/her progress in the form of seminars in addition to the regular discussion with the supervisor. At the end of the semester, the candidate has to submit final report of the project / dissertation, as the case may be, for final evaluation. The components of evaluation are as follows:

Component – I	(C1)	Periodic Progress and Progress Reports (25%)
Component – II	(C2)	Results of Work and Draft Report (25%)
Component– III	(C3)	Final Evaluation and Viva-Voce (50%). Evaluation of the report is for 30% and the Viva-Voce examination is for 20%.

10.5. The details of continuous assessment are summarized in the following table:

Component	Period	Syllabus	Weightage	Activity
C1	1st Week to 8th Week			Instructional process and Continuous Assessment
	8 th Week	First 50% (two units)	20%	C1 Test and Consolidation of C1
C2	9 th Week to 16 th Week			Instructional process and Continuous Assessment
C2	16 th Week	Second 50% remaining two units	20%	C2 Test and Consolidation of C2
C3	17th Week			Revision and preparation for semester-end exam
C3	18 th Week to 19 th Week	Entire syllabus	60%	Conduct of Semester - end Exams (C3)
C3 Practical Examination	19 th Week	Entire Syllabus	60%	
C3	20 th Week			Evaluation and Tabulation
	End of 20 th Week			Notification of Final Grades

ote: 1. *Examination and Evaluation shall take place concurrently and Final Grades shall be announced latest by 5 days after completion of the examination.*

11. Practical examination wherever applicable shall be conducted after C2 and before C3 examination. The calendar of practical examination shall be decided by the respective School Boards and communicated well in advance to the Registrar (Evaluation) who will notify the same immediately.

10.6. Finally awarding the grades should be completed latest by 20th week of the semester.

11. Eligibility to Appear C3 (Semester - end) Examination

Only those students who fulfil a minimum of 75% attendance in aggregate of all the courses including practical courses / field visits etc, as part of the course(s) shall be eligible to appear for C3 examination.

12. Requirements to Pass the Semester and to Carry Forward the Failed Subjects / Courses:

12.1. Requirements to Pass a Course

A candidate's performance from all 3 components will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (25 + 25 + 50; i.e, C1 + C2 + C3) and have to secure a minimum of 40% to declare pass in the course. However, a candidate has to secure a minimum of 25% (12 marks) in C3 which is compulsory.

12.2. Requirement to pass the semester:

To pass the semester, a candidate has to secure minimum of 40% marks in each subject / course of study prescribed in that semester.

12.3. Provision to Carry Forward the Failed Subjects / Courses:

A student who has failed in a given number of courses in odd and even semesters shall move to next semester of immediate succeeding year and final year of the study. However, he / she shall have to clear all courses of all semesters within the double duration, i. e., within six years of admission of the first semester failing which the student has to re-register to the entire program.

13. Provision for Appeal

If a candidate is not satisfied with the evaluation of C1 and C2 components, he/she can approach the grievance cell with the written submission together with all facts, the assignments, test papers etc, which were evaluated. He/she can do so before the commencement of semester-end examination. The grievance cell is empowered to revise the marks if the case is genuine and is also empowered to levy penalty as prescribed by the university on the candidate if his/her submission is found to be baseless and unduly motivated. This cell may recommend taking disciplinary/corrective action on an evaluator if he/she is found guilty. The decision taken by the grievance cell is final.

For every program there will be one grievance cell. The composition of the grievance cell is as follows:-

- The Registrar (Evaluation) - Ex-officio Chairman / Convener
- One Senior Faculty Member (other than those concerned with the evaluation of the course concerned) drawn from the school / department/discipline and/or from the sister schools / departments/sister disciplines – Member.
- One Senior Faculty Members / Subject Experts drawn from outside the University

14. Re-Registration and Re-Admission:

- a) In case a candidate's class attendance in aggregate of all courses in a semester is less than 75% or as stipulated by the University, such a candidate is considered as dropped the semester and is not allowed to appear for end semester examination (C3) and he / she shall have to seek re-admission to that semester during subsequent semester / year within a stipulated period.
- b) In such a case where in a candidate drops all the courses in semester due to personal reasons, it is considered that the candidate has dropped the semester and he / she shall seek re-admission to such dropped semester.

15. Attendance Requirement:

- 15.1. All students must attend every lecture, tutorial and practical classes.
- 15.2. In case a student is on approved leave of absence (e g:- representing the university in sports, games or athletics, placement activities, NCC, NSS activities and such others) and / or any other such contingencies like medical emergencies, the attendance requirement shall be minimum of 75% of the classes taught.
- 15.3. Any student with less than 75% of attendance in aggregate of all the courses including practical courses / field visits etc, during a semester shall not be permitted to appear to the end semester (C3) examination and such student shall seek re-admission as provided above.
- 15.4. Teachers offering the courses will place the above details in the School Board meeting during the last week of the semester, before the commencement of C3, and subsequently a notification pertaining to the above will be brought out by the Director of the School before the commencement of C3 examination. A copy of this notification shall also be sent to the office of the Registrar & Registrar (Evaluation).

16. Grade Card and Grade Point:

- 16.1. **Provisional Grade Card:** The tentative / provisional Grade Card will be issued by the Registrar (Evaluation) at the end of every semester indicating the courses completed successfully. The provisional grade card provides **Semester Grade Point Average (SGPA)**.

16.2. Final Grade Card: Upon successful completion of B Com / B Com (Honors) / BBA / BBA (Honors) / BCA Degree as the case may be a Final Grade card consisting of grades of all courses successfully completed by the candidate will be issued by the Registrar (Evaluation).

16.3. The Grade and the Grade Point: The Grade and the Grade Point earned by the candidate in the subject will be as given below:

Marks P	Grade G	Grade Point (GP=V x G)	Letter Grade
90 > 100	10	v*10	O
80 > 90	9	v*9	A+
70 > 80	8	v*8	A
60 > 70	7	v*7	B+
55 > 60	6	v*6	B
50 > 55	5.5	V*5.5	C
40 > 50	5	v*5	P
0-40	0	v*0	F
ABSENT			AB

O - Outstanding; A-Excellent; B-Very Good; C-Good; D-Fair; E-Satisfactory; F - Fail

Here, P is the percentage of marks ($P = [(C1+C2)+M]$) secured by a candidate in a course which is **rounded to nearest integer**. V is the credit value of the course. G is the grade and GP is the grade point.

16.3.1. Computation of SGPA and CGPA

The Following procedure to compute the Semester Grade Point Average (SGPA)

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student in a given semester, i.e : $SGPA (Si) = \frac{\sum(Ci \times Gi)}{\sum Ci}$

where Ci is the number of credits of the ith course and Gi is the grade point scored by the student in the ith course.

Illustration for Computation of SGPA and CGPA

Illustration No. 1

Course	Credit	Grade Point	Grade letter	Credit Point (Credit x Grade point)
Course 1	4	8	A	4X8=32
Course 2	4	7	B+	4X7=28
Course 3	3	9	A+	3X9=27
Course 4	3	7	B+	3X7=21
Course 5	3	6	B	3X6=18
Course 6	3	5	P	3X5=15
Course 7	2	7	B+	2X7=14

Course 8	2	8	A	2X8=16
	24			171

Thus, $SGPA = 171 \div 24 = 7.13$

Illustration No. 2

Course	Grade Point	Grade letter	Credit	Credit Point (Credit x Grade)
Course 1	9	A+	4	4X9=36
Course 2	8	A	4	4X8=32
Course 3	7	B+	3	3X7=21
Course 4	10	O	3	3X10=30
Course 5	5	C	3	3X5=15
Course 6	6	B	3	3X6=18
Course 7	10	O	2	2X10=20
Course 8	8	A	2	2X8=16
			24	188

Thus, $SGPA = 188 \div 24 = 7.83$

Illustration No.3

Course	Credit	Grade Point	Grade Letter	Credit Point (Credit x Grade point)
Course 1	4	10	O	4 x 10 = 40
Course 2	4	9	A+	4 x 9 = 36
Course 3	3	7	B+	3 x 7 = 21
Course 4	3	8	A	3 x 8 = 24
Course 5	3	9	A+	3 x 9 = 27
Course 6	3	9	A+	3 x 9 = 27
Course 7	4	10	O	4 x 10 = 40
	24			215

Thus, $SGPA = 215 \div 24 = 8.99$

16.3.2. Cumulative Grade Point Average (CGPA):

Overall Cumulative Grade Point Average (CGPA) of a candidate after successful completion of the required number of credits (144) for B. Com, BBA and BCA (150 for B Com (Honors) & BBA (Honors) degree is calculated taking into account all the courses undergone by a student over all the semesters of a program i. e.,

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

Where S_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 points and reported in the transcripts.

Illustration:

CGPA after Final Semester

Semester (ith)	No. of Credits (Ci)	SGPA (Si)	Credits x SGPA (Ci X Si)
1	24	6.83	24 x 6.83 = 163.92
2	24	7.13	24 x 7.13 = 171.12
3	24	7.83	24 x 7.83 = 187.92
4	24	8.99	24 x 8.99= 215.76
5	24	8.68	24 x 8.68 = 208.32
6	24	9.20	24 x 9.20 = 220.80
Cumulative	144		1167.84

Thus, $CGPA = \frac{24 \times 6.83 + 24 \times 7.13 + 24 \times 7.83 + 24 \times 8.99 + 24 \times 8.68 + 24 \times 9.20}{144} = 8.11$

CONVERSION OF GRADES INTO PERCENTAGE:

Conversion formula for the conversion of CGPA into Percentage is:

Percentage of marks scored = CGPA Earned x 10

Illustration: CGPA Earned 8.11 x 10 = 81.10

16.4. Classification of Results

The final grade point (FGP) to be awarded to the student is based on CGPA secured by the candidate and is given as follows.

CGPA	Grade (Numerical Index)	Letter Grade	Performance	FGP
	G			Qualitative Index
9 >= CGPA 10	10	O	Outstanding	Distinction
8 >= CGPA < 9	9	A+	Excellent	
7 >= CGPA < 8	8	A	Very Good	First Class
6 >= CGPA < 7	7	B+	Good	
5.5 >= CGPA < 6	6	B	Above average	Second Class
> 5 CGPA < 5.5	5.5	C	Average	
> 4 CGPA < 5	5	P	Pass	Satisfactory
CGPA < 4	-	F	Fail	-

Overall percentage=10*CGPA

17. Challenge Valuation

- a. A student who desires to apply for challenge valuation shall obtain a photo copy of the answer script by paying the prescribed fee within 10 days after the announcement of the results. He / She can challenge the grade awarded to him/her by surrendering the grade card and by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 10 days after the announcement of the results. This challenge valuation is only for C3 component.
- b. The answer scripts for which challenge valuation is sought for shall be evaluated by the external examiner who has not involved in the first evaluation. The higher of two marks from first valuation and challenge valuation shall be the final.**

18. With regard to any specific case of ambiguity and unsolved problem, the decision of the Vice-Chancellor shall be final.

**REVA UNIVERSITY REGULATIONS FOR CHOICE BASED
CREDIT SYSTEM (CBCS) AND CONTINUOUS
ASSESSMENT GRADING PATTERN (CAGP) FOR POST
GRADUATE DEGREE PROGRAMS, 2016**

**REVA UNIVERSITY REGULATIONS FOR CHOICE BASED CREDIT SYSTEM (CBCS)
AND CONTINUOUS ASSESSMENT GRADING PATTERN (CAGP) FOR POST
GRADUATE DEGREE PROGRAMS, 2016**

1. Title and Commencement:

These Regulations shall be called the “**REVA University Regulations for Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) for Post Graduate Degree Programs, 2016**”.

These Regulations shall come into force retrospectively from the academic year 2015-16.

2. The Programs :

The following programs and all P G programs to be instituted and introduced in REVA University in coming years shall follow these regulations.

(1) M.Tech :

Advanced Embedded Systems,
Advanced Information Technology,
Advanced Power Electronics
Advanced Software Engineering and Project Management
Computer Aided Structural Engineering,
Computer Science and Engineering
Computer Network Engineering
Data Engineering and Cloud Computing
Digital Communication and Networking
Distributed and Mobile computing
Information Security
Machine Design and Dynamics
Signal Processing
Transportation and Engineering Management
VLSI and Embedded Systems
Wireless Communication & Networking

(2) M.Sc:

Applied Mathematics,
Bio-Chemistry,
Bio-Technology, and
Chemistry.

(3) MS in Computer Science

(4) MA in English

(5) M.Com: (Commerce)

(6) MBA

- (7) MBA (Business Administration),
- (8) MBA (Banking and Finance),
- (9) MBA (Actuarial Management)
- (10) **MBA (Post BE/B Tech): Techno-Administration and Engineering Management**

3. Definitions:

Course: Every course offered will have three components associated with the teaching-learning process of the course, namely:

- (i) L= Lecture (ii) T= Tutorial (iii) P= Practice, where:

L stands for **Lecture** session consisting of classroom instruction.

T stands for **Tutorial** session consisting participatory discussion / self study/ desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture classes.

P stands for **Practice** session and it consists of Hands on Experience / Laboratory Experiments / Field Studies / Case Studies that equip students to acquire the much required skill component.

In terms of credits, every **one hour session of L amounts to 1 credit per Semester**, a minimum of **two hour session of T or P amounts to 1 credit per Semester**, and a minimum of **three hour session of T or P amounts to 2 credits per Semester** over a period of one Semester of 16 weeks for teaching-learning process.

The total duration of a semester is 20 weeks inclusive of semester-end examination.

A course shall have either or all the three components. That means a course may have only lecture component, or only practical component or combination of any two or all the three components.

The total credits earned by a student at the end of the semester upon successfully completing the course are L + T + P. **The credit pattern of the course is indicated as L: T: P.**

If a course is of 4 credits then the different credit distribution patterns in L: T: P format could be:

4 : 0 : 0, 1 : 2 : 1, 1 : 1 : 2, 1 : 0 : 3, 1 : 3 : 0,
2 : 1 : 1, 2 : 2 : 0, 2 : 0 : 2, 3 : 1 : 0, 3 : 0 : 1,
0 : 2 : 2, 0 : 4 : 0, 0 : 0 : 4, 0 : 1 : 3, 0 : 3 : 1,

*The concerned BoS will choose the convenient Credit Pattern for every course based on the requirement. However, generally, a course shall be of **FOUR Credits** and occasionally may be of **TWO Credits**.*

Different **Courses of Study** are labelled and defined as follows:

Core Course:

A course which should compulsorily be studied by a candidate as a core-requirement is termed as a Core course. The CORE courses of Study are of TWO types, viz – (i) Hard Core Course, and (ii) Soft Core Course.

(i) **Hard Core Course:**

The **Hard Core Course** is a Core Course in the main discipline / subject of study that the candidates have to study compulsorily.

(ii) **Soft Core Course:**

A Core course may be a **Soft Core** if there is a choice or an option for the candidate to choose a course from a pool of courses from the main discipline / subject of study or from a sister/related discipline / subject which supports the main discipline / subject.

Elective Course:

Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline / subject of study or which provides an extended scope or which enables an exposure to some other discipline / subject/domain or nurtures the candidate's proficiency/ skill is called an Elective Course. Elective courses may be offered by the main discipline / subject of study or by sister / related discipline / subject of study. A Soft Core course may also be considered as an elective.

Open Elective Course:

An elective course chosen generally from other discipline / subject, with an intention to seek exposure is called an **Open Elective Course**.

Self Study Elective Course:

An elective course designed to acquire a special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher is called a **Self Study Elective**.

Project work/Dissertation:

Project work/Dissertation work is a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A project work up to **FOUR or SIX** credits is called **Minor Project** work. A project work of **EIGHT, TEN or TWELVE** credits is called **Major Project work / Dissertation**. **A Project/Dissertation work may be a hard core or a soft core as decided by the BoS concerned.**

4. Eligibility for Admission:

4.1 Candidates possessing a degree of any University, equivalent thereto and complying with the eligibility criteria fixed and notified by the University from time to time are eligible for

admission to Post-graduate degree programs mentioned under section 2 above of these Regulations.

5. Scheme , Medium of Instructions and Credits to be Earned:

5.1 A **Post-graduate / Masters Degree** program is of **4 Semesters - two years duration**. A candidate can avail a **maximum of 8 successive semesters** (including blank semesters, if any) – **4 years (in one stretch) to complete Masters degree**. A candidate opting for **Blank Semester(s)** should have to study the prevailing courses offered by the department when he / she continues his / her studies.

5.2 The medium of instruction shall be English.

5.3 **Credits to be earned to pass Master’s degree program:** A candidate has to earn a minimum of 96 credits, for successful completion of a Master’s Degree with a distribution of credits for different courses as given in the following table.

Course Type	Credits
Hard Core	A minimum of 54, but not exceeding 68
Soft Core	A minimum of 24 but not exceeding 38
Open Elective	A minimum of 04

Every course including project work, practical work, field work, self study elective should be entitled as **Hard Core or Soft Core or Open Elective** by the BoS concerned.

5.4 A candidate can enrol for a **minimum of 20 credits and a maximum of 32 credits per semester**.

5.5 **Only such candidates who register for a minimum of 20 credits per semester in the first two semesters and complete successfully 96 credits in 4 successive semesters shall be considered for declaration of ranks, medals and are eligible to apply for student fellowship, scholarship, free ships and hostel facilities.**

5.6 Add on Proficiency Diploma:

In excess to the minimum of 96 credits for masters degree in the concerned discipline / Subject of study, a candidate can opt to complete a minimum of 18 extra credits to acquire **add on proficiency diploma** in a particular discipline / subject in his / her subject of study or in other subjects / discipline along with the masters’ degree.

5.7 Add on Proficiency Certification:

To acquire **add on proficiency certification** a candidate can opt to **earn a minimum of 4 extra credits** either in the same discipline or in different discipline(s) / subject(s) in addition to a minimum of 96 prescribed credits for the Masters degree program.

6. Continuous Assessment, Earning of Credits and Award of Grades.

6.1. The assessment and evaluation process happen in a continuous mode. However, for reporting purpose, **a semester is divided into 3 components as C1, C2, and C3**. The performance of a candidate in a course will be assessed for a maximum of 100 marks as explained below.

(i) Component C1:

The first Component (C1), of assessment is for 25 marks. This will be based on test, assignment / seminar. During the first half of the semester (i.e. by 8th week), the first 50% of the syllabus (Unit 1&2) will be completed. This shall be consolidated during the 8th week of the semester. A review test based on C1 will be conducted and completed in the 8th week. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed in the 8th week. The academic sessions will continue for C2 immediately after completion of process of C1.

The finer split - up for the award of marks in C1 is as follows:

Assignment	5 marks for Unit 1&2
Seminar	5 marks for Unit 1&2
Review Test	15 marks for Unit 1&2
Total	25 marks

(ii) Component C2:

The second component (C2), of assessment is for 25 marks. This will be based on test, assignment /seminar. The continuous assessment and scores of second half of the semester (9th to 16th week) will be consolidated during 16th week of the semester. During the second half of the semester the remaining units in the course will be completed. A review test based on C2 will be conducted and completed during 16th week of the semester. In case of courses where test cannot be conducted, the form of assessment will be decided by the concerned school and such formalities of assessment will be completed during 16th week.

The 17th week will be for revision of syllabus and preparation for the semester - end examination.

The finer split - up for the award of marks in C2 is as follows:

Assignment	5 marks for Unit 3 & 4
Seminar	5 marks for Unit 3 & 4
Review Test	15 marks for Unit 3 & 4
Total	25 marks

(iii) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) will be proposed by the teacher(s) concerned before the commencement of the semester and will be discussed and decided in the respective School Board. The students should be informed about the modalities well in advance. The evaluated courses / assignments during Component-I (C1) and Component-II (C2) of assessment are immediately brought to the notice of the students individually and obtain acknowledgement of students in the register maintained by the concerned teacher for this purpose. **All such records relating to assignments, tests etc, shall be maintained in the respective Schools for a period of one academic year excluding the year of study.**

(iv) Component C3:

The end semester examination of 3 hours duration for each course shall be conducted during the 18th & 19th week and the examination covers entire 4 units of the syllabus. **This forms the third / final component of assessment (C3) and the maximum marks for the final component will be 50.**

Valuation will be undertaken concurrently and results are announced latest by the end of 20th week. This practice will be followed both in odd semester and even semester.

6.2. Setting question paper and evaluation of answer scripts.

- i. Questions papers (for C3) in **three** sets shall be set by the internal examiners and one set shall be set by the external examiner for each course. The internal examiners shall be those who taught the concerned course.
- ii. The Chairman of BoE shall get the question papers set by internal and external examiners.
- iii. The Board of Examiners shall scrutinize and approve the question papers and scheme of valuation. It is the responsibility of the BoE to see that all questions contained in the question paper are within the prescribed syllabus of the concerned course.
- iv. There shall be double valuation for all theory papers, one by internal examiner and one by external examiner who has adequate knowledge in the subject.
- v. The C3 examination for Practical work / Field work / Project work/Internship

will be conducted jointly by internal and external examiners as detailed below:

However, the BoE on its discretion can also permit two internal examiners.

- vi. If a course is fully of (L=0):T:(P=0) type or a course is partly P type i. e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

6.3. Evaluation of Practical's and Minor Project / Major Project / Dissertation

6.3.1. A practical examination shall be assessed on the basis of:

- a) Knowledge of relevant processes;
- b) Skills and operations involved;
- c) Results / products including calculation and reporting.

6.3.2. In case a course is fully of P type (L=0:T=0:P=4), the performance of a candidate shall be assessed for a maximum of 100 marks as explained below:

- a) Continuous assessment (C1 and C2) = 50 marks
- b) Semester end (C3) practical examination = 50 marks

The 40 marks meant for continuous assessment shall further be allocated as under:

- i. Conduction of regular practical throughout the semester = 25 marks
 - ii. Maintenance of lab records = 10 marks
 - iii. Performance of mid-term test = 15 marks
- Total = 50 marks

The 50 marks meant for Semester End (C3) Examination, shall be allocated as under:

- i. Conduction of semester end practical examination = 30 marks
 - ii. Write up about the experiment / practical conducted = 10 marks
 - iii. Viva Voce = 10 marks
- Total = 50 marks

6.3.3 The C3 examination for Practical work will be conducted jointly by internal and external examiners. However, if external examiner does not turn up, then both the examiners will be internal examiners.

6.3.4. In case a course is partly P type i.e, (L=3): (T=0) (P=1), then the examination for C3 component will be as decided by the BoS concerned.

6.3.5. The duration for semester-end practical examination shall be decided by the concerned School Board.

6.4. Evaluation of Minor Project / Major Project / Dissertation:

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his/her progress in the form of seminars in addition to the regular discussion with the supervisor. At the end of the semester, the candidate has to submit final report of the project / dissertation, as the case may be, for final evaluation. The components of evaluation are as follows:

Component – I	(C1)	Periodic Progress and Progress Reports (25%)
Component – II	(C2)	Results of Work and Draft Report (25%)
Component– III	(C3)	Final Evaluation and Viva-Voce (50%). Evaluation of the report is for 30% and the Viva-Voce examination is for 20%.

6.5. The schedule of continuous assessment and examinations are summarized in the following Table.

Component	Period	Syllabus	Weightage	Activity
C1	1st Week to 8th Week			Instructional process and Continuous Assessment
	8 th Week	First 50% (two units)	20%	C1 Test and Consolidation of C1
C2	9 th Week to 16 th Week			Instructional process and Continuous Assessment
C2	16 th Week	Second 50% remaining two units	20%	C2 Test and Consolidation of C2
C3	17th Week			Revision and preparation for semester–end exam
C3	18 th Week to 19th Week	Entire syllabus	60%	Conduct of Semester - end Exams (C3)
C3 Practical Examination	19 th Week	Entire Syllabus	60%	
C3	20 th Week			Evaluation and Tabulation
	End of 20 th Week			Notification of Final Grades

6.6. Finally, **awarding the Grades should be completed latest by 22 week of the Semester.**

6.7. A candidate's performance from all THREE components (i.e. C1, C2, C3) will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (25 + 25 + 50).

6.7.1. If X is the marks scored by the candidate out of 50 in C3 in theory examination, if Y is the marks scored by the candidate out of 50 in C3 in Practical examination, and if Z is the marks scored by the candidate out of 50 in C3 for a course of (L=0):T:(P=0) type that is entirely Tutorial based course, then the final marks M in C3 is decided as per the following table.

L.T. P Distribution	Final Marks in C3
L:T:P	$\frac{[(L+T)*X]+[(T+P)*Y]}{L+2T+P}$
L:(T=0):P	$\frac{(L*X)+(P*Y)}{L+P}$
L:T:(P=0)	X
L:(T=0):(P=0)	X
(L=0):T :P	Y
(L=0): (T=0):P	Y
(L=0): T:(P=0)	Z

7. Provision for Appeal

If a candidate is not satisfied with the evaluation of C1 and C2 components, he/she can approach the grievance cell with the written submission together with all facts, the assignments, test papers etc, which were evaluated. He/she can do so before the commencement of semester-end examination. The grievance cell is empowered to revise the marks if the case is genuine and is also empowered to levy penalty as prescribed by the university on the candidate if his/her submission is found to be baseless and unduly motivated. This cell may recommend taking disciplinary/corrective action on an evaluator if he/she is found guilty. The decision taken by the grievance cell is final.

For every program there will be one grievance cell. The composition of the grievance cell is as follows:-

- The Registrar (Evaluation) - Ex-officio Chairman / Convener
- One Senior Faculty Member (other than those concerned with the evaluation of the course concerned) drawn from the school / department/discipline and/or from the sister schools / departments/sister disciplines – Member.

- One Senior Faculty Members / Subject Experts drawn from outside the University school / department – Member.

8. Eligibility to Appear C3 (Semester - end) Examination

Only those students who fulfil a minimum of 75% attendance in aggregate of all the courses including practical courses / field visits etc, as part of the course(s) shall be eligible to appear for C3 examination.

9. Requirements to Pass the Semester and to Carry Forward the Failed Subjects / Courses:

9.1. To pass the semester a candidate has to secure minimum of 40% marks in each subject / course of study prescribed in that semester.

9.2. Requirements to Pass a Course

A candidate's performance from all 3 components will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (25 + 25 + 50; i .e, C1 + C2 + C3) and have to secure a minimum of 40% to declare pass in the course. However, a candidate has to secure a minimum of 30% (15 marks) in C3 which is compulsory.

9.3. Provision to Carry Forward the Failed Subjects / Courses:

A student who has failed in a given number of courses in odd and even semesters of first year shall move to second year of the study. However, he / she shall have to clear all courses of all semesters within the double duration, i. e., within **FOUR** years of admission of the first semester failing which the student has to re-register to the entire program.

9.3. Re-Registration and Re-Admission:

a) In case a candidate's class attendance in aggregate of all courses in a semester is less than 75% or as stipulated by the University, such a candidate is considered as dropped the semester and is not allowed to appear for end semester examination (C3) and he / she shall have to seek re-admission to that semester during subsequent semester / year within a stipulated period.

b) In such a case where in a candidate drops all the courses in semester due to personal reasons, it is considered that the candidate has dropped the semester and he / she shall seek re-admission to such dropped semester.

10. Attendance Requirement:

10.1 All students must attend every lecture, tutorial and practical classes.

10.2 In case a student is on approved leave of absence (e g:- representing the university in sports, games or athletics, placement activities, NCC, NSS activities and such others) and / or any other such contingencies like medical emergencies, the attendance requirement shall be minimum of 75% of the classes taught.

10.3 Any student with less than 75% of attendance in aggregate of all the courses including practical courses / field visits etc, during a semester shall not be permitted to appear to the end semester (C3) examination and such student shall seek re-admission as provided above.

10.4 Teachers offering the courses will place the above details in the School Board meeting during the last week of the semester, before the commencement of C3, and subsequently a notification pertaining to the above will be brought out by the Director of the School before the commencement of C3 examination. A copy of this notification shall also be sent to the office of the Registrar & Registrar (Evaluation).

10.5 Absence during Mid Semester Test:

In case a student has been absent from a mid semester (C1 and C2) examination due to the illness or other contingencies he / she may give a request along with necessary supporting documents and certification from the concerned class teacher / authorized personnel to the concerned Head of the School, for special test. The Head of the School may consider such request depending on the merit of the case and after consultation with course instructor and class teacher, and arrange to conduct a special test for such candidate(s) well in advance before the C3 examination of that respective semester. Under no circumstances C1 & C2 test shall be held after C3 examination. Absence during mid semester test

11 Grade Card and Grade Point:

11.1 Provisional Grade Card: The tentative / provisional Grade Card will be issued by the Registrar (Evaluation) at the end of every semester indicating the courses completed successfully. The provisional grade card provides **Semester Grade Point Average** (SGPA).

11.2 Final Grade Card: Upon successful completion of Master's Degree a Final Grade card consisting of grades of all courses successfully completed by the candidate will be issued by the Registrar (Evaluation).

11.3 The Grade and the Grade Point: The Grade and the Grade Point earned by the candidate in the subject will be as given below:

Marks P	Grade G	Grade Point (GP=V x G)	Letter Grade
90 > 100	10	v*10	O
80 > 90	9	v*9	A+
70 > 80	8	v*8	A
60 > 70	7	v*7	B+
55 > 60	6	v*6	B
50 > 55	5.5	V*5.5	C
40 > 50	5	v*5	P
0-40	0	v*0	F
ABSENT			AB

O - Outstanding; A-Excellent; B-Very Good; C-Good; D-Fair; E-Satisfactory; F - Fail

Here, P is the percentage of marks ($P = [(C_1 + C_2) + M]$) secured by a candidate in a course which is **rounded to nearest integer**. V is the credit value of the course. G is the grade and GP is the grade point.

11.3.1 Computation of SGPA and CGPA

The Following procedure to compute the Semester Grade Point Average (SGPA)

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

Illustration for Computation of SGPA and CGPA

Illustration No. 1

Course	Grade Point	Grade letter	Credit	Credit Point (Credit x Grade)
Course 1	9	A+	4	4X9=36
Course 2	8	A	4	4X8=32
Course 3	7	B+	3	3X7=21
Course 4	10	O	3	3X10=30
Course 5	5	C	3	3X5=15

Course 6	6	B	3	3X6=18
Course 7	10	O	2	2X10=20
Course 8	8	A	2	2X8=16
			24	188

Thus, $SGPA = 188 \div 24 = 7.83$

Illustration No.2

Course	Credit	Grade Point	Grade Letter	Credit Point (Credit x Grade point)
Course 1	4	10	O	4 x 10 = 40
Course 2	4	9	A+	4 x 9 = 36
Course 3	3	7	B+	3 x 7 = 21
Course 4	3	8	A	3 x 8 = 24
Course 5	3	9	A+	3 x 9 = 27
Course 6	3	9	A+	3 x 9 = 27
Course 7	4	10	O	4 x 10 = 40
	24			215

Thus, $SGPA = 215 \div 24 = 8.99$

11.3.2 Cumulative Grade Point Average (CGPA):

Overall Cumulative Grade Point Average (CGPA) of a candidate after successful completion of the required number of credits (96) for Master's degree is calculated taking into account all the courses undergone by a student over all the semesters of a program i. e.,

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

Where S_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 points and reported in the transcripts.

Illustration:

CGPA after Final Semester

Semester (ith)	No. of Credits (C _i)	SGPA (S _i)	Credits x SGPA (C _i X S _i)
1	24	7.83	24 x 7.83 = 187.92
2	24	8.99	24 x 8.99 = 215.76
3	24	8.68	24 x 8.68 = 208.32
4	24	9.20	24 x 9.20 = 220.80
Cumulative	96		832.80

Thus, $CGPA = \frac{24 \times 7.83 + 24 \times 8.99 + 24 \times 8.68 + 24 \times 9.20}{96} = 8.67$

96

11.4 CONVERSION OF GRADES INTO PERCENTAGE:

Conversion formula for the conversion of CGPA into Percentage is:

Percentage of marks scored = CGPA Earned x 10

Illustration: CGPA Earned 8.67 x 10 = 86.7

12 Classification of Results

The final grade point (FGP) to be awarded to the student is based on CGPA secured by the candidate and is given as follows.

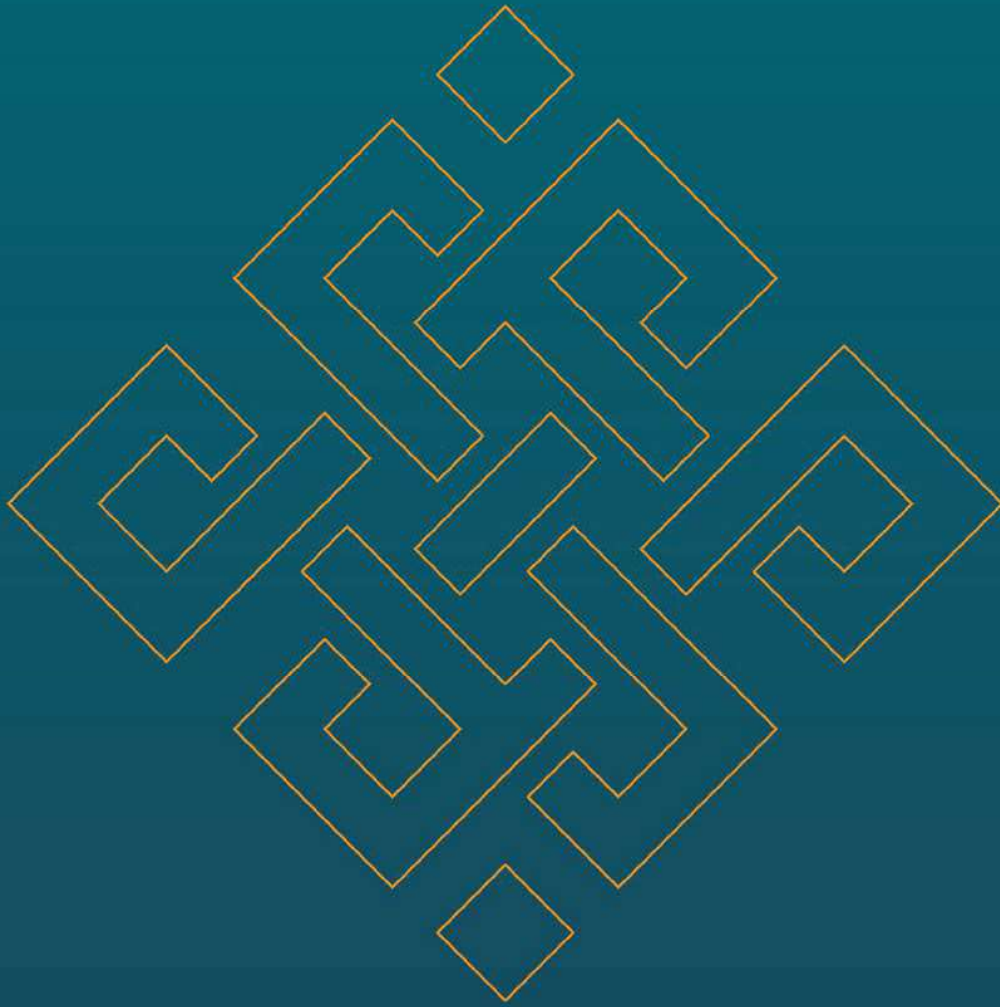
CGPA	Grade (Numerical Index)	Letter Grade	Performance	FGP
	G			Qualitative Index
9 >= CGPA 10	10	O	Outstanding	Distinction
8 >= CGPA < 9	9	A+	Excellent	
7 >= CGPA < 8	8	A	Very Good	First Class
6 >= CGPA < 7	7	B+	Good	
5.5 >= CGPA < 6	6	B	Above average	Second Class
> 5 CGPA < 5.5	5.5	C	Average	
> 4 CGPA < 5	5	P	Pass	Satisfactory
CGPA < 4	-	F	Fail	-

Overall percentage=10*CGPA

13 Challenge Valuation

- a. A student who desires to apply for challenge valuation shall obtain a photo copy of the answer script by paying the prescribed fee within 10 days after the announcement of the results. He / She can challenge the grade awarded to him/her by surrendering the grade card and by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 10 days after the announcement of the results. This challenge valuation is only for C3 component.
- b. The answer scripts for which challenge valuation is sought for shall be evaluated by the external examiner who has not involved in the first evaluation. The higher of two marks from first valuation and challenge valuation shall be the final.**

- 14 With regard to any specific case of ambiguity and unsolved problem, the decision of the Vice-Chancellor shall be final.



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