RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

DIRECTION NO. 16 OF 2018
(Issued under Provision of Section 12(8) of the Maharashtra Public Universities Act, 2016)

DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF BACHELOR OF COMMERCE (COMPUTER APPLICATION) (BCCA) (CREDIT BASE SEMESTER PATTERN) FACULTY OF COMMERCE & MANAGEMENT

WHEREAS the Maharashtra Public Universities Act, 2016 is made applicable to the Universality w.e.f. 1st March 2017 (hereinafter referred to as the Act);

AND

Whereas, Section 12(8) of the act empowered the Vice-Chancellor to issue Direction for regulating the matter for which Statute / Ordinance / Regulations is not made or to amend the existing Statute / Ordinance / Regulations;

AND

Whereas, provision of section 12(8) provide that the Direction issued by the Vice-Chancellor shall automatically lapsed after 180 days.

AND

Whereas, Direction No. 24 of 2017 was issued by the Vice-Chancellor on 29.8.2017, which could not have been converted into the statute / Ordinance / Regulations within Six months.

AND

Whereas, Direction No. 24 of 2017 issued by the Vice-Chancellor on 29.8.2017 is required to be renewed for regulating the matter involved in the said direction.

AND

Whereas, the Faculty of Commerce at its meeting held on 14.3.2016 have decided to update and upgrade the existing syllabus for the award of the degree of Bachelor of Commerce (Computer Application) (BCCA) commensurate with the curricula existing in the various Universities in India and with a view to include the latest trends in the commerce stream as well as to design it to suit to the needs of the industries and corporate houses as provided under Section 38(a) of the Act.

AND

Whereas, the Coordinator of the Faculty of Commerce concurred with the recommendations of the Special Task Committee in Computer Application in the Faculty of Commerce & Management on 5.4.2016.

AND

Whereas, the Special Task Committee in Computer Application in its meetings held on 5.4.2016 updated the existing syllabus and recommended some modifications in the scheme of examination for under graduate courses.

AND

Whereas, the Coordinator, Faculty of Commerce has consented to the changes in the syllabus and the scheme of examination for the award of Bachelor of Commerce (Computer Application) (BCCA) Degree.

AND

Whereas, the **Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** approved the recommendations so made by the Special Task Committee in the Faculty of Commerce duly concurred by the Coordinator, Faculty of Commerce as required under Section 38 (a) of the Act .

AND

Whereas, as per the Advice of the Vice Chancellor, Coordinator, Faculty of Commerce & Coordinator, Special Task Committee (Computer Application) in the meeting held on 24.2.2016 constituted sub-committee for syllabus restructuring of BCCA with Semester pattern.
The Sub-committee submitted the Semester Draft Syllabus of BCCA in meeting held on 5.4.2016.

AND

Whereas, the University has issued Direction to 15 of 2017 and 24 of 2017 dealing with the composition of the four faculties created by the Act, where under the existing different faculties of the University have been merged into the four new faculties created by the Act, by which the erstwhile independent faculty of "Law" has been merged in the new faculty of "Humanities" under the Act;

AND

Whereas, the University has issued Direction No. 13 of 2017 prescribing "conditions for conduct of undergraduate and post graduate examinations based on credit based/choice based credit system, in all faculties, Direction, 2017 on 06/06/2017, prescribing certain conditions relating to maximum and minimum passing marks in the theory /practical subjects prescribed in the semester of a course, the maximum theory and practical subjects in a semester, rules of exemption and ATKT, and also the coding pattern for the subjects in each semester of the course, necessitating appropriate changes in the existing Directions governing the undergraduate and post graduation courses in all the faculties of the University;

AND

WHEREAS it is expedient to provide an Ordinance for the purpose of prescribing examinations leading to the degree of Bachelor of Commerce (Computer Application) (BCCA) in the Faculty of Commerce and phasic repeal of Ordinance No. 21 of 1994 governing the existing course of Bachelor of Commerce (Computer Application) (BCCA) but the Ordinance making is a consuming process and there is an exigency necessitating exercise of powers by the Vice-Chancellor under section 12(8) of the Act;

Now, therefore, **I, Dr. Siddharthvinayaka P. Kane, Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** in exercise of the powers conferred upon me under provision of section 12(8) of the Maharashtra Public Universities Act, 2016, do hereby issue following Directions to renew Direction No. 16 of 2018.
   1. **This Direction shall be called " _____", Direction, 2018.**
   2. **This Direction shall come into force with effect from the date of its issuance.**

THIS DIRECTION SHALL BE CALLED "**DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF BACHELOR OF COMMERCE (COMPUTER APPLICATION) (BCCA) (CREDIT BASE SEMESTER PATTERN) FACULTY OF COMMERCE** & MANAGEMENT".

1. There shall be SIX examinations leading to the degree of Bachelor of Commerce (Computer Application) (BCCA) namely:

Part-I
(1) The Bachelor of Commerce (Computer Application) (BCCA) Semester-I Examination,
(2) The Bachelor of Commerce (Computer Application) (BCCA) Semester-II Examination,

Part-II
(3) The Bachelor of Commerce (Computer Application) (BCCA) Semester-III Examination,
(4) The Bachelor of Commerce (Computer Application) (BCCA) Semester-IV Examination,

Part-III
(5) The Bachelor of Commerce (Computer Application) (BCCA) Semester-V Examination,
(6) The Bachelor of Commerce (Computer Application) (BCCA) Semester-VI Examination,

2. The duration of the Degree Course under this shall be of three academic years. The BCCA Semester - I Examination at the end of the first Semester and BCCA Semester - II Examination at the end of the Second Semester in First Year and the BCCA Semester - III Examination at the end of the Semester - III and BCCA Semester - IV Examination at the end of Semester - IV in Second Year and the BCCA Semester - V Examination at the end of the Semester - V and BCCA Semester - VI Examination at the end of Semester - VI in Third Year.

3. The Examinations Specified in above paragraph (i.e., Paragraph – 2) shall be held twice a year (Winter + Summer) at such places and on such dates as may be fixed by the University.

4. The details of the procedure for admission as well as eligibility for examination of:
(A)   An applicant of the **BCCA Semester – I** Examination shall have :
Passed the 12th Standard Examination of the Maharashtra State Board of Secondary and Higher Secondary Education, with English at Higher or Lower level and any Modern Indian Language at higher or lower level with any combination of optional subjects.

<div align="center">**OR**</div>

12th Standard Examination of Maharashtra State Board of Secondary and Higher Secondary Education in Vocational Stream with one language only; OR any other examination recognized as equivalent thereto; in such subjects and with such standards of attainments as may be prescribed Minimum Competition vocational course (MCVC).

<div align="center">**OR**</div>

Any other Equivalent Examination of any State in (10+2) pattern with any combination of subjects.

Name of Examination	Candidate should have Passed in following Examinations	Candidate should have Completed the term and filled Examination Form
BCCA Semester - I	The Qualifying Examination mentioned in Paragraph – 4 (A)	-----
BCCA Semester - II	---	BCCA Semester – I
BCCA Semester - III	Passed 50% (5 passing heads) of Semester – I and Semester – II taken together.	BCCA Semester – II
BCCA Semester - IV	---	BCCA Semester – III
BCCA Semester - V	Passed BCCA Part – I (Semester – I & Semester – II) and Passed 50% (5 passing heads) of Semester – III and Semester – IV taken together.	BCCA Semester – IV
BCCA Semester - VI	----	BCCA Semester – V

5.   Without prejudice to the other provisions of Ordinance No. 6 relating to the Examinations in General, the provisions of Paragraphs 5, 7, 8, 10, 26 and 31 of the said Ordinance shall apply to every collegiate candidate.

6.   The fees for the examination shall be as prescribed by the Management Council from time to time and whenever any change is made in the fees prescribed for any particular examination that shall be notified through a notification for information of the examinees concerned.

    With the issuance of this Direction, The Direction No 12 of 2014, Direction No. 48 of 2016, Direction No. 64 of 2016 and Direction No. 24 of 2017 shall stand repealed.

Sd/-

Nagpur   **Dr. Siddharthvinayaka P. Kane,**

Date : 1.8.2018   **Vice-Chancellor,**
Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur

7.   **Teaching and Examination Scheme**

B.Com. (Computer Application) (BCCA)

(A) BCCA Part – I
Semester – I

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Total Marks	Credits
						Theory				Practical			
			Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		
Theory													
1T1	English and Business Communication - I	I	5	-	5	80	20	100	40	-	-	100	4
1T2	Financial Accounting	II	5	-	5	80	20	100	40	-	-	100	4
1T3	Fundamentals of Computer	III	5	-	5	80	20	100	40	-	-	100	4
1T4	Programming in 'C'	IV	5	-	5	80	20	100	40	-	-	100	4
Practical													
1P1	**Component - I:** Fundamentals of Computer **Component - II:** Programming in 'C'	P- I	-	10	10	-	-	-	-	100	40	100	4
	Total		20	10	30							500	20

Notes:
1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
4. The practical shall be treated as a separate passing head.
5. Record should be prepared for Practical. Both Components should be included in Practical Record.
6. The candidate has to pass theory papers and Practical Paper separately.
7. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.
   Viz.   Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
                   Practical   - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.
8. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
9. The odd semester may be scheduled from July to December and even semester from January to June.

(B) BCCA Part – I
Semester – II

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Total Marks	Credits
						Theory				Practical			
			Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		
Theory													
2T1	English and Business Communication - II	I	5	-	5	80	20	100	40	-	-	100	4
2T2	Principles of Business Management	II	5	-	5	80	20	100	40	-	-	100	4
2T3	Programming in C++'	III	5	-	5	80	20	100	40	-	-	100	4
2T4	E-Commerce and Web Designing	IV	5	-	5	80	20	100	40	-	-	100	4
Practical													
2P1	Component -I :Programming in 'C++' **Component -II :**E-Commerce and Web Designing	P- I	-	10	10	-	-	-	-	100	40	100	4
	Total		20	10	30							500	20

Notes:
1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
4. The practical shall be treated as a separate passing head.
5. Record should be prepared for Practical. Both Components should be included in Practical Record.
6. The candidate has to pass theory papers and Practical Paper separately.
7. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.
    Viz. Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
         Practical   - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.
8. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
9. The odd semester may be scheduled from July to December and even semester from January to June.

(C) BCCA Part-II
Semester – III

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Total Marks	Credits
						Theory				Practical			
			Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		
Theory													
3T1	Environmental Studies	I	5	-	5	80	20	100	40	-	-	100	4
3T2	Business Economics	II	5	-	5	80	20	100	40	-	-	100	4
3T3	Visual Basic Programming	III	5	-	5	80	20	100	40	-	-	100	4
3T4	Database Management System	IV	5	-	5	80	20	100	40	-	-	100	4
Practical													
3P1	Component -I :Visual Basic Programming Component – II: Database Management System	P- I	-	10	10	-	-	-	-	100	40	100	4
	Total		**20**	**10**	**30**							**500**	**20**

Notes:
1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
4. The practical shall be treated as a separate passing head.
5. Record should be prepared for Practical. Both Components should be included in Practical Record.
6. The candidate has to pass theory papers and Practical Paper separately.
7. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.
   Viz. Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
        Practical - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.
8. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
9. The odd semester may be scheduled from July to December and even semester from January to June.

(D) BCCA Part-II
Semester – IV

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Total Marks	Credits
						Theory				Practical			
			Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		
Theory													
4T1	Mathematics	I	5	-	5	80	20	100	40	-	-	100	4
4T2	Business Law	II	5	-	5	80	20	100	40	-	-	100	4
4T3	Core Java	III	5	-	5	80	20	100	40	-	-	100	4
4T4	PHP & MySQL	IV	5	-	5	80	20	100	40	-	-	100	4
Practical													
4P1	Component – I :Core Java Component – II : PHP & MySQL	P- I	-	10	10	-	-	-	-	100	40	100	4
	Total		20	10	30							500	20

Notes:

1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
4. The practical shall be treated as a separate passing head.
5. Record should be prepared for Practical. Both Components should be included in Practical Record.
6. The candidate has to pass theory papers and Practical Paper separately.
7. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.

    Viz. Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.

        Practical   - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.

8. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
9. The odd semester may be scheduled from July to December and even semester from January to June.

(E) BCCA Part-III
Semester – V

Course Code	Subjects	Paper	Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks	Total Marks	Credits
Theory													
5T1	Computerized Accounting using Tally	I	5	-	5	80	20	100	40	-	-	100	4
5T2	VB.Net	II	5	-	5	80	20	100	40	-	-	100	4
5T3	SEC – I : (i) Management Information Systems (ii) System analysis & Design	III	5	-	5	80	20	100	40	-	-	100	4
5T4	DSE– I : (i) Cost & Management Accounting (ii) Corporate Accounting	IV	5	-	5	80	20	100	40	-	-	100	4
Practical													
5P1	Component -I : Tally Component – II VB.Net	P- I	-	10	10	-	-	-	-	100	40	100	4
	Total		20	10	30							500	20

Notes:

1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. SEC = Skill Enhancement Course, DSE = Discipline Specific Elective (DSE) Course.
4. Students should select any one subject from the SEC – I and any one subject from DSE – I compulsorily.
5. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
6. The practical shall be treated as a separate passing head.
7. Record should be prepared for Practical. Both Components should be included in Practical Record.
8. The candidate has to pass theory papers and Practical Paper separately.
9. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.
   Viz. Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
        Practical - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.
10. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
11. The odd semester may be scheduled from July to December and even semester from January to June.

(F) BCCA Part-III
Semester – VI

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Total Marks	Credits
						Theory				Practical			
			Theory (Periods)	Practical (Periods)	Total (Periods)	Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		
Theory													
6T1	C#.Net	I	4	-	4	80	20	100	40	-	-	100	4
6T2	SEC– II : (i) Python (ii) Ruby on Rail	II	4	-	4	80	20	100	40	-	-	100	4
6T3	DSE– II : (i) Entrepreneurship Development (ii) Company Law and Secretarial Practice	III	4	-	4	80	20	100	40	-	-	100	4
Practical													
6P1	Component -I :C#.Net Component - II : SEC - II	P- I	-	6	6	-	-	-	-	100	40	100	4
6P2	Project	Proj	-	6	6	-	-	-	-	100	40	100	4
	Total		12	12	24							500	20

Notes:
1. Duration of one Theory period is 48 minutes and Practical period is 48 x 2 = 96 minutes.
2. TH = Theory, PR = Practical, IA = Internal Assessment.
3. SEC = Skill Enhancement Course, DSE = Discipline Specific Elective (DSE) Course.
4. Students should select any one subject from the SEC – II and any one subject from DSE – II compulsorily.
5. Minimum passing marks shall be 40 including internal assessment & University theory papers put together.
6. The practical shall be treated as a separate passing head.
7. Record should be prepared for Practical. Both Components should be included in Practical Record.
8. The candidate has to pass theory papers, Practical Paper and Project separately.
9. One credit is equivalent to one hour of Teaching or two hours of Practical Work per week.
    Viz. Theory   - 48 Minutes * 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
         Practical   - 48 Minutes * 10 = 480 Minutes = 8 Hours i.e. 4 Credits.
10. Each semester will consist of 15 – 18 weeks of Academic Work equivalent to 90 actual teaching days.
11. The odd semester may be scheduled from July to December and even semester from January to June.

8.   In order to pass the examination, an examinee shall obtain not less than 40% marks in each of the theory papers and each of the practical and the project.

(A)   An examinee who is unsuccessful in the examination shall be eligible for admission to the subsequent examinations on payment of a fresh fee prescribed for the examination together with the conditions of the ordinance in force from time to time.

9. (A) The scope of the subjects and pattern of examination shall be as indicated in syllabi.
    (B) The Medium of instructions and examinations shall be in ENGLISH only.
    (C) The Maximum / minimum marks which each subject carries & workload in **BCCA** Part–I (Semester – I & II),Part – II (Semester – III & IV) and Part – III (Semester – V & VI) shall be as indicated in Examination& Teaching Scheme in Paragraph No -7.

10.   Applicant for B.Com. (Computer Application) (BCCA) Examination prosecuting regular course of study shall not be permitted to join any other course in this or any other University.

11.   The percentage of passing marks in Theory & Practical shall be as indicated in Examination Scheme mentioned in Paragraph 7.
    In order to pass at the B.Com. (Computer Application) (BCCA) Semester - I, Semester - II, Semester - III, Semester - IV, Semester - V and Semester - VI Examinations an examinee shall obtain not less than 40% marks in each subject (Theory / Practical), that is to say jointly in the written subject theory Examination and in internal assessment / Sessional wherever applicable.

12.   **ASSESSMENT**
    •   The final total assessment of the candidates is made in terms of an internal assessment (Sessional) and an external assessment for each course.
    •   For each paper, 20 marks will be based on internal assessment and 80 marks for semester end examination (external assessment), unless otherwise stated.
    •   The division of the 20 marks allotted to internal assessment of theory papers should based on class test, attendance, project assignments, seminar, power point presentation, fieldwork, group discussions or any other innovative practice / activity as determined by the teacher in respective subject and moderated by Head of the Institute/Principal.

Sr. No	Parameters	Max. Marks
1	Internal Marks on the basis of Class Attendance	05
2	Internal Marks on the basis of Class Assignment/ Test	05
3	Internal Marks on the basis of Students Seminar / Students Lecture Forum	05
4	Internal Marks on Students Overall Performance	05
Total Internal Assessment Marks		**20**

- There shall be no separate / extra allotment of workload to the concerned teacher. He/ She shall conduct the internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.

- At the beginning of each semester, every teacher shall inform his / her students unambiguously the method he / she propose to adopt and the scheme of marking for internal assessment with the prior permission of HOD / principal.

- An unsuccessful examinee at any internal shall be eligible for re-examination on payment of fresh examination fee prescribed by the University as per the respective directions.

- The internal marks will be communicated to the University at the end of each semester, but before the semester end examinations. These marks will be considered for the declaration of the results.

- The record of internal marks, evaluation & result should be maintained for a period of one year by respective institute / college for verification by competent authority.

- The maximum and minimum marks which each subject carries in BCCA Semester - I, Semester - II, Semester – III, Semester – IV, Semester - V & Semester - VI Examination are as indicated in Paragraph 7. A, B, C, D, E & F respectively.

- A copy of Project work shall be submitted to college prior to commencement of Semester - VI Examination for Evaluation by Internal and External Examiner appointed as per University rules.

- Candidate shall submit his/her declaration that the Project is a result of his/her own work and the same has not been previously submitted to any examination of this University or any other University.

- The Practical Examination of each Semester will be conducted by Internal and External Examiner appointed as per University rules.
- The old course students shall be absorbed as per the absorption scheme mentioned in Appendix D.

STANDARD OF PASSING
- Every candidate must secure 40% marks in each paper (Theory / Practical).
- There shall be no internal marks in Practical and Project Examination.

13. (A) There shall be no classification of examinees successful at the Bachelor of Commerce (Computer Application) (BCCA) Semester - I, Semester - II, Semester - III, Semester - IV, Semester - V and Semester - VI Examination whereas SGPA will be notified.

* Conversion of Marks to Grades and Calculations of SGPA (Grade Point Average) and CGPA (Cumulative Grade Point Average): In the Credit and Grade Point System, the assessment of individual Courses in the concerned examinations will be on the basis of marks only, but the marks shall later be converted into Grades by some mechanism wherein the overall performance of the Learners can be reflected after considering the Credit Points for any given course. However, the overall evaluation shall be designated in terms of Grade. There are some abbreviations used here that need understanding of each and every parameter involved in grade computation and the evaluation mechanism. The abbreviations and formulae used are as follows:-

Abbreviations and Formulae Used

G: Grade

GP: Grade Points

C: Credits

CP: Credit Points

SGPA: Semester Grade Point Average shall be calculated for individual semesters. (It is also designated as GPA)

CGPA: Cumulative Grade Point Average shall be calculated for the entire Programme by considering all the semesters taken together.

After calculating the SGPA for an individual semester and the CGPA for entire programme, the value can be matched with the grade in the Grade Point table as per the ten (10) Points Grading System and expressed as a single designated GRADE such as O, A+, A, B+, B, etc.

Marks	Grade	Grade Points
85 and above	O (Outstanding)	10
75 - 84	A+ (Distinction)	9
71 - 74	A (Very Good)	8
61 - 70	B+ (Good)	7
55 - 60	B(Above Average)	6
50 - 54	C (Average)	5
40 - 49	P (Pass)	4
00 - 39	F (Fail)	0
	AB (Absent)	0

A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.

(B)   Division at the B.Com. (Computer Application) (BCCA) Semester - VI Examination shall be declared on the basis of the aggregate marks at the BCCA Semester - I, Semester - II, Semester-III, Semester- IV, Semester- V and Semester- VI Examination taken together and the CGPA will be calculated and notified.

(C) Successful examinees at the B.Com. (Computer Application) (BCCA) Semester - VI Examination shall be awarded division based on CGPA as follows:

CGPA Range	Final Grade	Equivalent Class/ Division
9.01 to 10.00	O	First Division (Outstanding)
8.01 to 9.00	A+ (Distinction)	First Division(Distinction)
7.01 to 8.00	A(Very Good)	First Division (Very Good)
6.01 to 7.00	B+(Good)	First Division (Good)
5.55 to 6.00	B(Above Average)	Second Division (Above Average)
5.00 to 5.54	C(Average)	Second Division (Average)
4.00 to 4.99	P (Pass)	Pass
0	F (Fail)	Fail
0	AB(Absent)	Absent

14. Successful examinees in the B.Com. (Computer Application) (BCCA)Semester Examination shall be awarded Distinction in each subject in which examinees obtain 75% or more marks in that subject at the respective Examination.

15. Unsuccessful examinees at the above examinations can be readmitted to the same examination on payment of a fresh fee and such other fees as may be prescribed.

16. Provisions of Ordinance No. 3 of 2007 relating to the award of Grace Marks for passing an examination, securing higher division / class and for securing distinction in subject(s) shall be applicable.

17. Notwithstanding anything to the contrary in this Direction, no person shall be admitted to an examination under this Ordinance, if he/ she has already passed the same examination or an equivalent examination of any other University.

18. Examinees successful at B.Com. (Computer Application) (BCCA) Semester - I, Semester - II, Semester-III, Semester- IV, Semester- V and Semester- VI Examination shall on payment of the prescribed fees receive a Degree in the prescribed form signed by the Vice-Chancellor.

19. This Scheme shall come into force from the academic session 2016-17.

20. The Provisions of Ordinance No. 21 of 1994 governing the existing course for B.Com. (Computer Application) (BCCA) stands repealed physically on implementation of this Direction.

FORMULAE FOR CALCULATING SGPA:

$$SGPA = \frac{\sum Credits \times Grade\ Points}{\sum Credits}$$

Illustration for Calculation of SGPA

Sr. No.	Name of Subject	Credits	Marks obtained (out of 80)	Internal Assessment Marks (Out of 20)	Total Marks (Out of 100)	Grade Points	Credit Points (Credits X Grade Points)
1	English and Business Communication - I	4	43	17	60	6	24
2	Financial Accounting	4	52	18	70	7	28
3	Fundamentals of Computer	4	54	18	72	8	32
4	Programming in 'C'	4	63	17	80	9	36
	Total	16	212	70	282	30	120
Thus, SGPA = 120/16							7.7

FORMULAE FOR CALCULATING CGPA:

$$CGPA = \frac{\sum SGPA \times Total\ Credits}{\sum Total\ Credits}$$

Illustration for Calculation of CGPA

Semester	Total Credits	SGPA	SGPA X Total Credits
I	16	7.7	123.2
II	16	8.0	128.0
III	16	7.8	124.8
IV	16	7.5	120.0
V	16	7.8	124.8
VI	16	7.9	126.4
TOTAL	96	-	747.2

Thus, CGPA = 747.2/96 = **7.78**

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the Mark list/Transcript.

APPENDIX –A

QUESTION PAPER PATTERN

Bachelor of Commerce (Computer Application) (BCCA) Semester I / II / III / IV / V / VI (CBS) Examination

Subject Name
Paper – Course Code

Time: 3 Hours   **Maximum Marks: 80**

N. B. - a) Draw well labeled diagram wherever necessary.

b) All questions are compulsory.

Part - A

N. B. – 1. Each question carries 2 marks.

2. Answers should not more than 5 lines.

1.   **8 x 2 = 16**

A.
B. } Unit - I

C.
D. } Unit - II

E.
F. } Unit - III

G.
H. } Unit - IV

Part - B

N. B. – 1. Each question carries 3 marks.

2. Answers should not more than 10 lines.

2.   **8 x 3 = 24**

A.
B. } Unit - I

C.
D. } Unit - II

E.
F. } Unit - III

G.
H. } Unit - IV

Part - C

N. B. – 1. Each question carries 5 or 10 marks.

2. Answers should not more than 400 words for 5 marks questions and 600 words for 10 Marks question.

3. **Either**

   (A)   5

   (B)   5

   Unit - I   **OR**

   (C)   10

4. **Either**

   (A)   5

   (B)   5

   Unit - II   **OR**

   (C)   10

5. **Either**

   (A)   5

   (B)   5

   Unit - III   **OR**

   (C)   10

6. **Either**

   (A)   5

   (B)   5

   Unit - IV   **OR**

   (C)   10

QUESTION PAPER PATTERN OF ENGLISH AND BUSINESS COMMUNICATION - I

Bachelor of Commerce (Computer Application) (BCCA) Semester I (CBS) Examination

Subject: English and Business Communication - I
Paper – 1T1

Time: 3 Hours   **Maximum Marks: 80**

N. B. - **a)**   All questions are compulsory.
      b)   **LAQ -** Long Answer Questions to be answered in about 150 words
              SAQ - Short Answer Questions to be answered in about 75 words
                 approximately.

1.   A.   Comprehension of Unseen Passage from Unit I   10 Marks
            (Five VSAQs of 2 Marks each based on the Unseen Passage)

      B.   Questions on ANY TWO components of Enriching Vocabulary from Unit I
            (**Five items to be solved out of Eight (5 x 1 Mark) X 2**)   10 Marks

      (Synonyms / Antonyms to be given in 'match the following' format – 5 words against 8 options)

2.   A.   ONE out of TWO Letters (Application for Employment/Job Offer Letters)
            from Unit II   10 Marks
      B.   ONE out of TWO Letters (Sales letters / Claim and Adjustment Letters)
            from Unit II   10 Marks

3.   A.   ONE LAQ out of TWO from Unit III   (10 x 1) = 10 Marks
      B.   TWO SAQs out of THREE from Unit III   (5 x 2) = 10 Marks

4.   A.   THREE SAQs with internal choice from Prose Section of Unit IV
                                                               (3x5 Marks)=15 Marks
      B.   ONE SAQ with internal choice from Poetry Section of Unit IV   05 Marks

QUESTION PAPER PATTERN OF ENGLISH AND BUSINESS COMMUNICATION - II

Bachelor of Commerce (Computer Application) (BCCA) Semester II (CBS) Examination

Subject: English and Business Communication - II
Paper – 2T1

Time: 3 Hours   **Maximum Marks: 80**

N. B. - **a)**   All questions are compulsory.

b)   **LAQ -** Long Answer Questions to be answered in about 150 words

SAQ - Short Answer Questions to be answered in about 75 words approximately.

Q 1.   A.   Comprehension of Unseen Passage from Unit I   10 Marks
(Five VSAQs of 2 Marks each based on the Unseen Passage)

B.   Questions from Section B of Unit – I   10 Marks
- **(Five items out of Eight on meanings of the Words often Confused - (1 x 5 Marks))**
- **(Five items out of Eight on Punctuation – (1 x 5 Marks))**

Q 2.   A.   ONE out of TWO Letters (Inviting Quotations/Placing Orders) from Unit II
                                                                       10 Marks

B.   ONE out of TWO Letters (Credit Letters - Granting/Refusing Credit, Letter to Bank for overdraft facility) from Unit II   10 Marks

Q 3.   A.   ONE LAQ out of TWO from Unit III   (10 × 1) = 10 Marks
B.   TWO SAQs out of THREE from Unit III   (5 x 2) = 10 Marks

Q 4.   A.   THREE SAQs with internal choice from Prose Section of Unit IV
                                                          (3x 5 Marks)=15 Marks

B.   ONE SAQ with internal choice from Poetry Section of Unit IV   05 Marks

INTERNAL ASSESSMENT OF ENGLISH AND BUSINESS COMMUNICATION – I / II: 20 MARKS

The Internal Assessment would be done on the basis of the assignments submitted by the student and his/her performance, attendance and conduct during the Semester. The concerned teacher shall provide, in advance, a list of topics/assessment items/Question Bank (to the students) based on the Units prescribed for the Theory Examination. Students shall finalize 2 topics/items from 2 different units with the approval of the concerned teacher and submit the same within the prescribed deadline.

Students may be given freedom to submit a creative writing assignment on human values/world peace / environmental issues inspired by or related to the lessons / poems prescribed in the syllabus.

1	2 Assignments	6+6 = 12 Marks
2	Performance & Conduct	4 Marks
3	Attendance	4 Marks
4	TOTAL	20 MARKS

APPENDIX –B

(A) Project and Classification of Marks on Project

Towards the end of the second year of study, a student will be examined in the course "Project Work".

a. Project Work may be done individually or in groups (Maximum 3 students) in case of bigger projects. However if project is done in groups, each student must be given a responsibility for a distinct module and care should be taken to monitor the progress of individual student.

b. The Project Work should be done using the tools covered in B.Com. (Computer Application) (BCCA).

c. The Project Work should be of such a nature that it could prove useful or be relevant from the commercial / management angle.

d. The project work will carry 100 marks.

e. Project Work can be carried out in the Institute or outside with prior permission of the Institute.

f. The external viva-voice examination for Project Work would be held as per the Examination Time Table of the Third year of study, by a panel of one external and one Internal Examiner.

Types of Project

As majority of the students are expected to work out a project in some industry / research and development laboratories/educational institutions/software export companies, it is suggested that the project is to be chosen which should have some direct relevance in day-today activities of the candidates in his/her institution. The Applications Areas of project – Financial / Marketing / Database Management System / Relational Database Management System / E-Commerce / Internet / Manufacturing / web Designing / Scientific / ERP etc.

Project Proposal (Synopsis)

The project proposal should be prepared in consultation with the guide. The project guide must be a person having minimum Qualification MCM / M.Sc. (Computer Science + Information Technology) / M.Sc. (Mathematics / Electronics / Statistics / Physics + Post B.Sc. Diploma in Computer Science & Application) / MCA. The project proposal should clearly state the objectives and environment of the proposed project to be undertaken. It should have full details in the following form:

Format of Synopsis for Desktop Application

1. Title of the Project.
2. Objectives of the Project.
3. Project Category (DBMS / RDBMS / OOPS etc.).
4. Tools/Platform and Languages to be used.
5. Complete Structure of the System:
    i. Numbers of Modules and its Description.
    ii. Modular Chart / System Chart.
    iii. Data Structures or Tables.
    iv. Process Logic of each Module.
    v. Types of Report Generation.
6. References.

Note: Synopsis should not be more than 3 - 6 pages.

Format of Synopsis for Web Application

1. Title of the Project.
2. Objectives of the Project.
3. Project Category (DBMS / RDBMS / OOPS etc.).
4. Tools/Platform and Languages to be used.
5. Complete Structure of the System:
    i. Number of pages and links their short description.
    ii. Use / Information of Pages.
    iii. Feedback Form (if any).
6. References.

Note: Synopsis should not be more than 3 - 6 pages.

Project Report Formulation

- Front Page.
- College Certificate Page.
- Declaration Page.
- Acknowledgment Page.
- Project Profile.
- Index or Content Page.
    i. *Contents ————————————.
- Appendices
    i. List Figures, Tables & Charts.
    ii. Approved copy of Synopsis.
- Glossary

* Contents.

     i.   Introduction.

     ii.   Objectives.

     iii.   Preliminary System Analysis.

- Preliminary Investigation.
- Present System in Use.
- Flaws in Present System.
- Need of New System.
- Feasibility Study.
- Project Category.

     iv.   Software Engineering Paradigm Applied

- Modules
- System / Modular Chart.

     v.   Software & Hardware Requirement Specification.

     vi.   Detailed System Analysis.

- Data Flow Diagram.
- Numbers of Modules and Process Logic.
- Data Structures and Tables.
- Entity-Relationship Diagram.

     vii.   System Design.

- Form Design.
- Source Code.
- Input screen & Output Screen.

     viii.   Testing &Validation Checks.

     ix.   System Security Measures.

     x.   Implementation, Evaluation and Maintenance.

     xi.   Future Scope of the project.

     xii.   Suggestion & Conclusion

     xiii.   Bibliography& References.

Classification Of Marks on Project :-

Report & Documentation	40
Viva voice (External)	40
Viva voice (Internal)	20

Total Marks	**100**

The marks of Project shall be notified as a whole out of 100 in Foil/C-Foil.

(B) Practical and Classification of Marks on Practical

1. Practical exam shall be of 4 hours duration.

2. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department.

3. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination or 50% Marks should be deducted from total marks.

4. After Viva-Voice and evaluation of practical records of a student by the Internal & External Examiner, both examiners should sign on the certificate of practical records.

5. The certificate template shall be as follows:

Name of the college / Institution

Name of the Department:

<u>CERTIFICATE</u>

This is to certify that Mr./Mrs./Ms. _____

of class BCCA Semester _____ has satisfactorily completed the practical experiments

prescribed by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for the subject

_____ during the academic year _____.

Signature   Signature
Practical In-charge   **Head of the Department**

Signature   Signature
Internal Examiner   **External Examiner**

Date: _____

Classification of Practical Marks :-

Practical – I	Marks (Component – I)	Marks (Component – II)
1. Writing a Program or Problem (Algorithm & Flowchart)	20	20
2. Execute on a computer		
3. Taking Hard Copy		
Practical – II		
1. Writing a Program or Problem (Algorithm & Program)	10	10
External Viva Voce	10	10
Practical Record	10	10
Total Marks	**50** +	**50** = **100**

Note:

- Since the practical contains two components (i.e. two subjects), so each components has to be evaluated as above.

- Whereas, the marks of Practical shall be notified as a whole out of 100 in Foil / C-Foil.

APPENDIX –C

Absorption Scheme BCCA

➢ It is notified for general information of all concerned that the failure students of ***BCCA New Course (Annual Pattern introduced in 2014) shall be absorbed in the Credit Based Semester Pattern introduced from the session 2016-2017 Examination with the following scheme.***

1) The Failure students of **BCCA – I,** as per New Course (Annual Pattern introduced in 2014) **appeared in Sum 2016** should clear their backlog papers of BCCA – I, New Course (Annual Pattern introduced in 2014) **till Winter 2017 (i.e. Three attempts)**. If they fail to complete & pass till winter 2017, then they will have to appear in parallel papers of Semester Pattern introduced from 2016-17 as per absorption scheme indicated in Appendix - D.

2) The Failure students of **BCCA – II** as per New Course (Annual Pattern introduced in 2014) **appeared in Sum 2017** should clear their backlog papers of BCCA – II, New Course (Annual Pattern introduced in 2014) **till Winter 2018 (i.e. Three attempts)**. If they fail to complete & pass till winter 2018, then they will have to appear in parallel papers of Semester Pattern introduced from 2016-17 as per absorption scheme indicated in Appendix - D.

3) The Failure students of **BCCA - III** as per New Course (Annual Pattern introduced in 2014) **appeared in Sum 2018** should clear their backlog papers of BCCA – III New Course (Annual Pattern introduced in 2014) **till Winter 2019 (i.e. Three attempts)**. If they fail to complete & pass till winter 2019, then they will have to appear in parallel papers of Semester Pattern introduced from 2016-17 as per absorption scheme indicated in Appendix - D.

Admission Scheme for Annual Pattern Students (Backlog/Ex)
(Introduced in 2014)

Name of Examination	Candidate should have Passed in following Examinations	Candidate should have Completed the term and filled Examination Form
BCCA Semester - III	Passed 50% (4 passing heads) of BCCA Part – I (Annual Pattern introduced in 2014)	BCCA Part – I (Annual Pattern)
BCCA Semester - IV	---	BCCA Semester – III
BCCA Semester - V	Passed BCCA Part – I (Annual Pattern) AND Passed 50% (4 passing heads) of BCCA Part – II (Annual Pattern introduced in 2014)	BCCA Part – II (Annual Pattern)
BCCA Semester - VI	-	BCCA Semester – V

Clarification on Absorption Scheme

A student who has failed in one or more subjects of BCCA I and /or BCCA II and/or BCCA III (Introduced in 2014) shall be absorbed in the BCCA Program under this direction in the following manner:

a. The student has to take casual admission to Semester I and II by paying a nominal fee of Rs. 500 to the college as per the existing norms of the University

b. The student has to submit the University Examination Form for both the semester (I & II) and/or III & IV and/or V & VI for all the subjects under this Direction.

c. The subjects of all Semesters under this direction have been provided the equivalent subjects under the Direction No. 12 of 2014. A student shall get exemption in the subject/s under this direction, if he/she has passed equivalent subjects under Direction No. 12 of 2014.

d. A student shall not be required to appear and pass any subject under Direction No.12 of 2014 which does not have equivalent subject under this Direction.

e. A student has to pay the University Examination Fee along with the Examination Form only for the number of subjects he/she is appearing (The student shall not be asked to pay the examination fee for the subjects he/she securing exemption). The examination fee shall be as prescribed by the Competent Authority of R T M Nagpur University.

f. If the student has obtained exemption in all the subjects of a particular semester under this Direction, he/she has to submit the University Examination Form with a

Fee for one subject in order to generate Semester Pattern Marklists. This is the processing fee for marklists.

g. The Marklists of such absorbed students shall be prepared on following guidelines:

i. The mark list shall be according to the Semester Pattern containing all the subjects of a particular semester.

ii. The marks of the subject/s for which the student has availed exemption, shall be brought from the Annual Pattern Marklist of the student. In case, there are two different subjects in Semester Pattern having equivalence to only one subject in Annual Pattern e.g English, the marks obtained by the student in Annual Pattern shall be mentioned against both the equivalent subjects under Semester Pattern.

iii. The marks obtained by a student in the subject/s he/she is actually appearing, shall be mentioned against those subject/s

APPENDIX –D

(A) BCCA Part – I

Old Course (Annual Pattern)➔New Course (Credit Based Semester Pattern)

Sr. No	Old Course (Annual Pattern)	Max. Marks	Sr. No	New Course (Credit Based Semester Pattern)	Max. Marks
Theory			**Theory**		
1	English & Business Communication	100	2T1	English and Business Communication - II	80
2	Principles of Business Management	100	2T2	Principles of Business Management	80
3	Financial Accounting	100	1T2	Financial Accounting	80
4	Information Systems	100	1T3	Fundamentals of Computer	80
5	Information Technology	100	2T4	E-Commerce and Web Designing	80
6	Introduction to Operating Systems	100	1T4	Programming in 'C'	80
Practical			**Practical**		
7	**Practical-I :** Microsoft Office	100	1P1	**Practical - I :**Fundamentals of Computer & Programming in 'C'	100
8	**Practical-II :** Operating System	100	2P1	**Practical - I :** E-Commerce and Web Designing	100

(B) BCCA Part – II

    Old Course (Annual Pattern)➔New Course (Credit Based Semester Pattern)

Sr. No	Old Course (Annual Pattern)	Max. Marks	Sr. No	New Course (Credit Based Semester Pattern)	Max. Marks
Theory			**Theory**		
1	Statistics & Quantitative Techniques	100	4T1	Mathematics	80
2	Business Economics	100	3T2	Business Economics	80
3	Cost & Management Accounting	100	4T2	Business Law	80
4	Programming Skills (C Prog.)	100	3T3	Visual Basic Programming	80
5	E-Commerce & Web Designing	100	4T4	PHP & MySQL	80
6	MIS & System Analysis	100	3T4	Database Management System	80
Practical			**Practical**		
7	**Practical-I :** Programming Skills	100	3P1	**Practical - I :** Visual Basic Programming &Database Management System	100
8	**Practical-II :** HTML	100	4P1	**Practical - I :** PHP & MySQL	100

(C) BCCA Part – III

Old Course (Annual Pattern)➔New Course (Credit Based Semester Pattern)

Sr. No	Old Course (Annual Pattern)	M. Marks	Sr. No	New Course (Credit Based Semester Pattern)	Max Marks
Theory			**Theory**		
1	Business Law	100	5T4	**DSE – I : (Any One)** (i) Cost & Management Accounting (ii) Corporate Accounting	80
2	Computerized Accounting (TALLY)	100	5T1	Computerized Accounting using Tally	80
3	Software Product and Project Management	100	5T3	**SEC – I : (Any One)** (i) Management Information Systems (ii) System analysis & Design	80
4	Front End Development	100	5T2	VB.Net	80
5	DBMS and Oracle	100	6T1	C#.Net	80
Practical			**Practical**		
6	Practical-I : Tally	100	5P1	**Practical - I :** Tally	100
7	Practical-II : VB & Oracle	100	5P1	**Practical - I :** VB.Net	100
Project			**Project**		
8	PROJECT	100	6P2	**Project**	100

ABSORPTION SCHEME

B.COM.(COMPUTER APPLICATION) (BCCA)

It is notified for general information of all concerned that the failure students of ***B.Com. (Computer Application) (BCCA) Old Course shall be absorbed in the new course introduced from the session 2014-2015 examination with the following scheme.***

1. Those who have completed & passed **B.Com. (Computer Application) (BCCA) Part-I as per Old course** are eligible for admission in the **B.Com. (Computer Application) (BCCA) Part - II New course.**

2. Failure students of **B.Com. (Computer Application) (BCCA)Part - I old course** and having ATKT as per rules are eligible to take admission in **B.Com.(Computer Application) (BCCA) Part-II New course.** They should clear their **B.Com.(Computer Application) (BCCA)Part - I old Course backlog** papers in next **five attempts (Last Chance Winter 2016).** If they fail to pass in **Winter-2016** attempt they will have to appear in parallel papers of **new course scheme** as per absorption scheme indicated in **Appendix- I.**

   Note:
   i. The students, who will appear in parallel papers of **new course scheme** paper with maximum theory marks 80, will get proportional internal marks out of 20, should update in **old course mark sheet** of **B.Com. (Computer Application) (BCCA) Part - I.**
   ii. The Students who already passed any subject of old course **B.Com. (Computer Application) (BCCA) Part – I with maximum theory marks 100, should be convert into its proportional Theory marks out of 80 and** proportional Internal marks out of 20 separately and should updated in **old course mark sheet** of **B.Com. (Computer Application) (BCCA) Part - I.**

4. Those who have completed & passed **B.Com. (Computer Application)(BCCA) Part - I & B.Com. (Computer Application) (BCCA) Part - II as per Old course** are eligible for admission in the **B.Com. (Computer Application) (BCCA) Part - III New course.**

5. Failure students of **B.Com. (Computer Application) (BCCA)Part - II old course** and having ATKT as per rules are eligible to take admission in **B.Com. (Computer Application) (BCCA)Part-III New course.** They should clear their **B.Com. (Computer Application) (BCCA)Part - II old course backlog** papers in next **three attempts (Last Chance Winter 2017).** If they fail to pass in **Winter-2017** attempt they will have to appear in parallel papers of **new course scheme** as per absorption scheme indicated in **Appendix- II.**

   Note:
   i. The students who will appear in parallel papers of **new course scheme** paper with maximum theory marks 80, will get proportional internal marks out of 20,

should update in **old course mark sheet** of **B.Com. (Computer Application) (BCCA) Part–II.**

ii. The Students who already appeared and passed in any subject of old course **B.Com. (Computer Application) (BCCA) Part – II with maximum theory marks 100, should be convert into its proportional Theory marks out of 80 and** proportional Internal marks out of 20 separately and should update in **old course mark sheet** of **B.Com. (Computer Application) (BCCA) Part - II.**

6. Failure students of **B.Com. (Computer Application) (BCCA)Part-III old course** are having chances upto **winter 2018** examination **(Last Chance)**. So they should appear **B.Com. (Computer Application) (BCCA) Part-III old course examination & is required to clear their backlog**. After that those who will have backlog in the **B.Com. (Computer Application) (BCCA) Part-III old course** will have to appear in parallel papers of **new course scheme** as per the absorption scheme indicated in **Appendix- III**.

Note:
i. The students who will appear in parallel papers of **new course scheme** paper with maximum theory marks 80, will get proportional internal marks out of 20, should update in old course mark sheet of **B.Com. (Computer Application) (BCCA) Part-III**.

ii. The Students who already appeared and passed in any subject of old course **B.Com. (Computer Application) (BCCA) Part – III with maximum theory marks 100, should be convert into its proportional Theory marks out of 80 and** proportional Internal marks out of 20 separately and should update in **old course mark sheet** of **B.Com. (Computer Application) (BCCA) Part - III.**

B.Com. (Computer Application) (BCCA) Part-I

Sr. No.	Old course Theory	Max. Marks	Sr. No.	New Course Theory	Max. Marks
1	English & Business Communication.	100	1	English & Business Communication	80
2	Principles of Business Management.	100	2	Principles of Business Management	80
3	Basic Economics & Business Environment.	100	3	Introduction to Operating Systems	80
4	Financial Accounting.	100	4	Financial Accounting	80
5	Information Systems.	70	5	Information Systems	80
6	Information Technology	70	6	Information Technology	80
7	**Practical I** : IS	30	7	**Practical-I :** Microsoft Office	100
8	**Practical II** : IT	30	8	**Practical-II :** Operating System	100

Note:

i. The Students who already appeared and passed in Practical of **old course B.Com. (Computer Application) (BCCA) Part – I with maximum Practical marks out of 30**, should be convert into its proportional Practical marks out of 100 and should update in old course mark sheet of B.Com. (Computer Application) (BCCA) Part - I.

ii. And if students who appear in practical of New Course Scheme, then he/she must **have to be appeared with maximum practical marks out of 100** as per the new course scheme.

B.Com. (Computer Application) (BCCA) Part-II

Sr. No.	Old course Theory	Max. Marks	Sr. No.	New Course Theory	Max. Marks
1	Cost & Management Accounting	100	1	Cost & Management Accounting	80
2	Statistics & Quantitative Techniques.	100	2	Statistics & Quantitative Techniques.	80
3	MIS & System Analysis	100	3	MIS & System Analysis	80
4	E-Commerce & Web Designing	70	4	E-Commerce & Web Designing	80
5	Programming Skills (C Prog.)	70	5	Programming Skills (C Prog.)	80
6	Computerized Accounting (TALLY)	70	6	Basic Economics & Business Environment.	80
7	**Practical- I** : PS (C Prog.)	30	7	**Practical-I :** Programming Skills	100
8	**Practical-II** : E-Comm& WD	30	8	**Practical-II :** HTML	100
9.	**Practical-III :** Comp.A/c(Tally)	30			

Note:

i. The Students who already appeared and passed in Practical of **old course B.Com. (Computer Application) (BCCA) Part – II with maximum Practical marks out of 30**, should be convert into its proportional Practical marks out of 100 and should update in old course mark sheet of B.Com. (Computer Application) (BCCA) Part - II.

ii. And if students who appear in practical of New Course Scheme, then he/she must **have to be appeared with maximum practical marks out of 100** as per the new course scheme.

B.Com. (Computer Application) (BCCA) Part-III

Sr. No.	Old course Theory	Max. Marks	Sr. No.	New Course Theory	Max. Marks
1	Business Laws.	100	1	Business Law	80
2	Auditing and Income Tax	100	2	Computerized Accounting (TALLY)	80
3	Software Product and Project Management.	100	3	Software Product and Project Management.	80
4	Front End Development	70	4	Front End Development	80
5	DBMS and Oracle	70	5	DBMS and Oracle	80
6	**Practical- I** : FED	30	6	**Practical-I :** Tally	100
7	**Practical -II** : DBMS & Oracle	30	7	**Practical-II :** VB & Oracle	100
8	**Project**	100	8	**Project**	100

Note:

i. The Students who already appeared and passed in Practical of **old course B.Com. (Computer Application) (BCCA) Part – III with maximum Practical marks out of 30**, should be convert into its proportional Practical marks out of 100 and should update in old course mark sheet of B.Com. (Computer Application) (BCCA) Part - III.

ii. And if students who appear in practical of New Course Scheme, then he/she must **have to be appeared with maximum practical marks out of 100** as per the new course scheme.