

Project syllabus

2019-2020

M-Com
Syllabus copy



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**INING TO MASTER OF COMMERCE (M.Com)
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ve of the Master of Commerce course is to impart to the students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. **Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. **Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. **Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. **Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. **Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

Registration:

register for all the papers of a semester when he appears at semester for the first time.

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1¹/₂ (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1¹/₂ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

- 1. Chairman BOS: Chairman
- 2. One Senior Faculty Member



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and m for 30 marks will be conducted by external examiners.

prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks
(7x2=14)

Section – B:

- Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks
(3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal marks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Grading Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
B	B+	A	A+	A++	O

Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

$GPA = \text{Total GPW} / \text{Total Credits} = 186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

	I	II	III	IV	Total
	700	700	600	600	2600
	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15 \%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: **A++**

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

12. MINIMUM FOR A PASS:

- 12.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 12.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 12.5 **There shall be no minimum in respect of internal assessment.** However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.
- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
13. **CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.
14. **REJECTION OF RESULTS:**
 - i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



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e permitted. A candidate who rejects the results shall not be permitted to appear for the examination of that semester in the subsequent examination.

A candidate may be permitted to appear only once in each semester and the rejection once only.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.

ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

II SEMESTER M.Com (MASTER OF COMMERCE)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E – Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management – I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.1	4	3	30	70	100	4
4.2	4	3	30	70	100	4
4.3	4	3	30	70	100	4
4.4	4	3	30	70	100	4
4.5	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT

REGULATIONS PERTAINING TO MASTER OF FINANCE AND ACCOUNTING
(M.F.A) COURSE UNDER CBC SYSTEM FROM 2014-15 ONWARDS

1. OBJECTIVE:

The broad objective of the Master of Finance and Accounting course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. Eligibility for Admission:

A candidate who has passed the B.Com/B.B.M/BBA/BBS Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%.

3. Duration of the Course:

The course of study for M.F.A, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

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1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

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6. Medium of Instruction:

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

7. Registering for the Examination:

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

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- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
1. Chairman BOS: Chairman
 2. One senior faculty member
 3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
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Section – C:

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9. Internship Training:

Each student will select one business unit – a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

10. Dissertation:

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 70 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

11. Board of Examiners and Valuation of Answer Scripts:

- 11.1 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 11.2 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.
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Minimum for a pass in each paper shall be 40% (Semester paper in that/end paper no minimum for internal assessment) and 50% in aggregate of all the semester. However, minimum pass in each paper shall be 40% in semester end exam and 50% in aggregate of all papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha –

sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Eight Point Alpha – Sign Grading Scale:

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	C	B	B+	A	A+	A++	O

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-

Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits = $186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

ILLUSTRATION I

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15\%$

Classification of Result: *First Class with Distinction*

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $822.9 / 100 = 8.229$

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

13. MINIMUM FOR A PASS:

- 13.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 13.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 13.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed)

Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

13.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.

13.5 There shall be no minimum in respect of internal assessment.

13.6 A Candidate who fails in any of the unit / project work / Project Report / dissertation / viva-voce shall reappear in that unit / project work / Project Report / dissertation / viva-voce and pass the examination subsequently.

14. CARRY OVER PROVISION: Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

15. REJECTION OF RESULTS:

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.

ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

16. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

17. POWER TO REMOVE DIFFICULTIES

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

M.F.A (MASTER OF FINANCE AND ACCOUNTING) - COURSE MATRIX

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
1.1	Accounting Conventions & Standards	4	3	30	70	100	4
1.2	Managing People in Organisations	4	3	30	70	100	4
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	4
1.4	Managerial Finance	4	3	30	70	100	4
1.5	QT for Accounting and Finance	4	3	30	70	100	4
1.6	Financial Markets and Services	4	3	30	70	100	4
1.7	Soft Core Business Legal Systems	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
2.1	Contemporary Issues in Accounting	4	3	30	70	100	4
2.2	Information Technology for Accounting & Finance	4	3	30	70	100	4
2.3	Direct Taxes Planning	4	3	30	70	100	4
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	4
2.5	Strategic Cost and Management Accounting	4	3	30	70	100	4
2.6	Asset Liability Management In Banks	4	3	30	70	100	4
2.7	Soft Core Business Research Methods	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26

MASTER OF FINANCE AND ACCOUNTING)

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
III SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Goods and Service Taxes	4	3	30	70	100	4
3.3	Forex and Derivatives	4	3	30	70	100	4
3.4	Insurance and Risk Management	4	3	30	70	100	4
3.5	Advanced E – Business	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
3.7	Internship Project Report	--	--	--	50	50	2
III SEMESTER TOTAL OF CREDITS							26

IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
4.1	Strategic Management	4	3	30	70	100	4
4.2	International Accounting	4	3	30	70	100	4
4.3	International Financial Management	4	3	30	70	100	4
4.4	Strategic Financial Management	4	3	30	70	100	4
4.5	Dissertation	18	--	Viva Voce 50	200	250	10
IV SEMESTER TOTAL OF CREDITS							26

Open Elective

- Income Tax
- Finance and Banking

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers, Scheme of Study and Examination for B Sc in Computer Science,
Revised w.e.f. 2014–2015.**

Sem	Paper	Title of the paper	Hours/ Week	Marks			Credits
				IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
II	CS2T	Data Structures	4	30	70	150	3
	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
IV	CS4T	Operating System and UNIX	4	30	70	150	3
	CS4P	UNIX Programming Lab	3	15	35		
V	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35		
	CS5T2	Visual Programming	3	30	70	150	3
	CS5P2	Visual Programming Lab	3	15	35		
VI	CS6T1	Web Programming	3	30	70	150	6
	CS6P1	Web Programming Lab	3	15	35		
	CS6T2	Computer Networks	3	30	70	150	
	CS6P2	Project Lab	3	15	35		

Collision Detection and Backoff with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. [13 hours]

Unit - III

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software. [13 hours]

Unit - IV

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [13 hours]

Text Books:

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.

Reference Books:

1. Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition.

CS6P2: PROJECT LAB

Total Practical hours / week: 03 hours

Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.

Scheme of Evaluation is as follows:

Project Demo	- 15 Marks
Project VIVA	- 15 Marks
Project Report	- 5 Marks
Total	- 35 Marks

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS

(BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
		Part - 3	-	Skill Development Course	3	30	70	100	

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB

PART - A

1. Exchange of two 16-bit numbers.
2. Addition & Subtraction of two 8 –bit HEX numbers.
3. Subtraction of two 16 –bit numbers.
4. Two n-byte Number addition.
5. Block Transfer.
6. ‘N’ Decimal Number addition.
7. 4-Digit BCD addition.
8. Subtraction of 16 –bit number.
9. Sorting of array in ascending order.
10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA506P : PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation	65 Marks
Viva-voce	25 Marks
Project Report	10 Marks

SIXTH SEMESTER BCA

BCA601T : THEORY OF COMPUTATION

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

BCA605P : PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

* * * * *

Project syllabus

2018-2019

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ve of the Master of Commerce course is to impart to the students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. **Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. **Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. **Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. **Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. **Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

Registration:
Candidates should register for all the papers of a semester when he appears at semester for the first time.

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 $\frac{1}{2}$ (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1 $\frac{1}{2}$ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

1. Chairman BOS: Chairman
2. One Senior Faculty Member



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and m for 30 marks will be conducted by external examiners.

prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks
(7x2=14)

Section – B:

- Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks
(3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal

marks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Grading Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
B	B+	A	A+	A++	O

Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

$GPA = \text{Total GPW} / \text{Total Credits} = 186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

	I	II	III	IV	Total
	700	700	600	600	2600
	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15\%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: **A++**

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

12. MINIMUM FOR A PASS:

- 12.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 12.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 12.5 **There shall be no minimum in respect of internal assessment.** However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.
- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
13. **CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.
14. **REJECTION OF RESULTS:**
 - i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



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e permitted. A candidate who rejects the results shall on of that semester in the subsequent examination.

sed only once in each semester and the rejection once oked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.

ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

II SEMESTER M.Com (MASTER OF COMMERCE)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E – Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management – I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.1	4	3	30	70	100	4
4.2	4	3	30	70	100	4
4.3	4	3	30	70	100	4
4.4	4	3	30	70	100	4
4.5	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT

REGULATIONS PERTAINING TO MASTER OF FINANCE AND ACCOUNTING
(M.F.A) COURSE UNDER CBC SYSTEM FROM 2014-15 ONWARDS

1. OBJECTIVE:

The broad objective of the Master of Finance and Accounting course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. Eligibility for Admission:

A candidate who has passed the B.Com/B.B.M/BBA/BBS Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%.

3. Duration of the Course:

The course of study for M.F.A, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. Scheme of Instruction:

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. Attendance:

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. Medium of Instruction:

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

7. Registering for the Examination:

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

8. Scheme of Examination:

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.F.A	I & II	6+1	700	52 (26+26)

8.3 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.4 Each semester will normally have six papers and each shall be for 100 marks.

8.5 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 1/2 (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.6 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.7 (i) In case of theory papers the various components of internal assessment will be as follows:

i. Assignment – 5 Marks

ii. Attendance – 5 marks

iii. Internal Test – 20 Marks

(The test shall be for 1 1/2 hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
1. Chairman BOS: Chairman
 2. One senior faculty member
 3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

Section – B:

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

9. Internship Training:

Each student will select one business unit – a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

10. Dissertation:

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 70 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

11. Board of Examiners and Valuation of Answer Scripts:

- 11.1 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 11.2 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.
- 11.3 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

12. Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% (Semester paper in that/end paper no minimum for internal assessment) and 50% in aggregate of all the semester. However, minimum pass in each paper shall be 40% in semester end exam and 50% in aggregate of all papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha –

sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Eight Point Alpha – Sign Grading Scale:

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	C	B	B+	A	A+	A++	O

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-

Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits = $186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

ILLUSTRATION I

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15\%$

Classification of Result: *First Class with Distinction*

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $822.9 / 100 = 8.229$

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

13. MINIMUM FOR A PASS:

- 13.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 13.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 13.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed)

Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

13.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.

13.5 There shall be no minimum in respect of internal assessment.

13.6 A Candidate who fails in any of the unit / project work / Project Report / dissertation / viva-voce shall reappear in that unit / project work / Project Report / dissertation / viva-voce and pass the examination subsequently.

14. CARRY OVER PROVISION: Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

15. REJECTION OF RESULTS:

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.

ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

16. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

17. POWER TO REMOVE DIFFICULTIES

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

M.F.A (MASTER OF FINANCE AND ACCOUNTING) - COURSE MATRIX

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
1.1	Accounting Conventions & Standards	4	3	30	70	100	4
1.2	Managing People in Organisations	4	3	30	70	100	4
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	4
1.4	Managerial Finance	4	3	30	70	100	4
1.5	QT for Accounting and Finance	4	3	30	70	100	4
1.6	Financial Markets and Services	4	3	30	70	100	4
1.7	Soft Core Business Legal Systems	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
2.1	Contemporary Issues in Accounting	4	3	30	70	100	4
2.2	Information Technology for Accounting & Finance	4	3	30	70	100	4
2.3	Direct Taxes Planning	4	3	30	70	100	4
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	4
2.5	Strategic Cost and Management Accounting	4	3	30	70	100	4
2.6	Asset Liability Management In Banks	4	3	30	70	100	4
2.7	Soft Core Business Research Methods	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26

MASTER OF FINANCE AND ACCOUNTING)

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
III SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Goods and Service Taxes	4	3	30	70	100	4
3.3	Forex and Derivatives	4	3	30	70	100	4
3.4	Insurance and Risk Management	4	3	30	70	100	4
3.5	Advanced E – Business	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
3.7	Internship Project Report	--	--	--	50	50	2
III SEMESTER TOTAL OF CREDITS							26

IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
4.1	Strategic Management	4	3	30	70	100	4
4.2	International Accounting	4	3	30	70	100	4
4.3	International Financial Management	4	3	30	70	100	4
4.4	Strategic Financial Management	4	3	30	70	100	4
4.5	Dissertation	18	--	Viva Voce 50	200	250	10
IV SEMESTER TOTAL OF CREDITS							26

Open Elective

- Income Tax
- Finance and Banking

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers, Scheme of Study and Examination for B Sc in Computer Science,
Revised w.e.f. 2014–2015.**

Sem	Paper	Title of the paper	Hours/ Week	Marks			Credits
				IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
II	CS2T	Data Structures	4	30	70	150	3
	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
IV	CS4T	Operating System and UNIX	4	30	70	150	3
	CS4P	UNIX Programming Lab	3	15	35		
V	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35		
	CS5T2	Visual Programming	3	30	70	150	3
	CS5P2	Visual Programming Lab	3	15	35		
VI	CS6T1	Web Programming	3	30	70	150	6
	CS6P1	Web Programming Lab	3	15	35		
	CS6T2	Computer Networks	3	30	70	150	
	CS6P2	Project Lab	3	15	35		

Collision Detection and Backoff with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. [13 hours]

Unit - III

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software. [13 hours]

Unit - IV

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [13 hours]

Text Books:

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.

Reference Books:

1. Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition.

CS6P2: PROJECT LAB

Total Practical hours / week: 03 hours

Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.

Scheme of Evaluation is as follows:

Project Demo	- 15 Marks
Project VIVA	- 15 Marks
Project Report	- 5 Marks
Total	- 35 Marks

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS

(BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
		Part - 3	-	Skill Development Course	3	30	70	100	

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB

PART - A

1. Exchange of two 16-bit numbers.
2. Addition & Subtraction of two 8 –bit HEX numbers.
3. Subtraction of two 16 –bit numbers.
4. Two n-byte Number addition.
5. Block Transfer.
6. ‘N’ Decimal Number addition.
7. 4-Digit BCD addition.
8. Subtraction of 16 –bit number.
9. Sorting of array in ascending order.
10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA506P : PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation	65 Marks
Viva-voce	25 Marks
Project Report	10 Marks

SIXTH SEMESTER BCA

BCA601T : THEORY OF COMPUTATION

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

BCA605P : PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

* * * * *

Project syllabus

2017-2018

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ve of the Master of Commerce course is to impart to the students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. **Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. **Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. **Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. **Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. **Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

Registration:

register for all the papers of a semester when he appears at semester for the first time.

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 $\frac{1}{2}$ (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1 $\frac{1}{2}$ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

1. Chairman BOS: Chairman
2. One Senior Faculty Member



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and m for 30 marks will be conducted by external examiners.

prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks
(7x2=14)

Section – B:

- Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks
(3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal

marks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Grading Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
B	B+	A	A+	A++	O

Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

$GPA = \text{Total GPW} / \text{Total Credits} = 186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

	I	II	III	IV	Total
	700	700	600	600	2600
	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15 \%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: **A++**

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

12. MINIMUM FOR A PASS:

- 12.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 12.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 12.5 **There shall be no minimum in respect of internal assessment.** However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.
- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
13. **CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.
14. **REJECTION OF RESULTS:**
 - i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



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e permitted. A candidate who rejects the results shall on of that semester in the subsequent examination.

sed only once in each semester and the rejection once oked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.

ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

II SEMESTER M.Com (MASTER OF COMMERCE)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E – Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management – I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.1	4	3	30	70	100	4
4.2	4	3	30	70	100	4
4.3	4	3	30	70	100	4
4.4	4	3	30	70	100	4
4.5	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT

REGULATIONS PERTAINING TO MASTER OF FINANCE AND ACCOUNTING
(M.F.A) COURSE UNDER CBC SYSTEM FROM 2014-15 ONWARDS

1. OBJECTIVE:

The broad objective of the Master of Finance and Accounting course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. Eligibility for Admission:

A candidate who has passed the B.Com/B.B.M/BBA/BBS Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%.

3. Duration of the Course:

The course of study for M.F.A, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. Scheme of Instruction:

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. Attendance:

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. Medium of Instruction:

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

7. Registering for the Examination:

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

8. Scheme of Examination:

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.F.A	I & II	6+1	700	52 (26+26)

8.3 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.4 Each semester will normally have six papers and each shall be for 100 marks.

8.5 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 1/2 (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.6 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.7 (i) In case of theory papers the various components of internal assessment will be as follows:

i. Assignment – 5 Marks

ii. Attendance – 5 marks

iii. Internal Test – 20 Marks

(The test shall be for 1 1/2 hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
1. Chairman BOS: Chairman
 2. One senior faculty member
 3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

Section – B:

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

9. Internship Training:

Each student will select one business unit – a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

10. Dissertation:

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 70 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

11. Board of Examiners and Valuation of Answer Scripts:

- 11.1 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 11.2 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.
- 11.3 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

12. Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% (Semester paper in that/end paper no minimum for internal assessment) and 50% in aggregate of all the semester. However, minimum pass in each paper shall be 40% in semester end exam and 50% in aggregate of all papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha –

sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Eight Point Alpha – Sign Grading Scale:

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	C	B	B+	A	A+	A++	O

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-

Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits = $186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

ILLUSTRATION I

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15\%$

Classification of Result: *First Class with Distinction*

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $822.9 / 100 = 8.229$

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

13. MINIMUM FOR A PASS:

- 13.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
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Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

13.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.

13.5 There shall be no minimum in respect of internal assessment.

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14. CARRY OVER PROVISION: Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

15. REJECTION OF RESULTS:

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.

ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

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i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

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iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

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- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

M.F.A (MASTER OF FINANCE AND ACCOUNTING) - COURSE MATRIX

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
1.1	Accounting Conventions & Standards	4	3	30	70	100	4
1.2	Managing People in Organisations	4	3	30	70	100	4
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	4
1.4	Managerial Finance	4	3	30	70	100	4
1.5	QT for Accounting and Finance	4	3	30	70	100	4
1.6	Financial Markets and Services	4	3	30	70	100	4
1.7	Soft Core Business Legal Systems	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
2.1	Contemporary Issues in Accounting	4	3	30	70	100	4
2.2	Information Technology for Accounting & Finance	4	3	30	70	100	4
2.3	Direct Taxes Planning	4	3	30	70	100	4
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	4
2.5	Strategic Cost and Management Accounting	4	3	30	70	100	4
2.6	Asset Liability Management In Banks	4	3	30	70	100	4
2.7	Soft Core Business Research Methods	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26

MASTER OF FINANCE AND ACCOUNTING)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
III SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Goods and Service Taxes	4	3	30	70	100	4
3.3	Forex and Derivatives	4	3	30	70	100	4
3.4	Insurance and Risk Management	4	3	30	70	100	4
3.5	Advanced E – Business	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
3.7	Internship Project Report	--	--	--	50	50	2
III SEMESTER TOTAL OF CREDITS							26

IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)							
4.1	Strategic Management	4	3	30	70	100	4
4.2	International Accounting	4	3	30	70	100	4
4.3	International Financial Management	4	3	30	70	100	4
4.4	Strategic Financial Management	4	3	30	70	100	4
4.5	Dissertation	18	--	Viva Voce 50	200	250	10
IV SEMESTER TOTAL OF CREDITS							26

Open Elective

- a. Income Tax
- b. Finance and Banking

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers, Scheme of Study and Examination for B Sc in Computer Science,
Revised w.e.f. 2014–2015.**

Sem	Paper	Title of the paper	Hours/ Week	Marks			Credits
				IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
II	CS2T	Data Structures	4	30	70	150	3
	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
IV	CS4T	Operating System and UNIX	4	30	70	150	3
	CS4P	UNIX Programming Lab	3	15	35		
V	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35		
	CS5T2	Visual Programming	3	30	70	150	3
	CS5P2	Visual Programming Lab	3	15	35		
VI	CS6T1	Web Programming	3	30	70	150	6
	CS6P1	Web Programming Lab	3	15	35		
	CS6T2	Computer Networks	3	30	70	150	
	CS6P2	Project Lab	3	15	35		

Collision Detection and Backoff with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. [13 hours]

Unit - III

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software. [13 hours]

Unit - IV

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [13 hours]

Text Books:

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.

Reference Books:

1. Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition.

CS6P2: PROJECT LAB

Total Practical hours / week: 03 hours

Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.

Scheme of Evaluation is as follows:

Project Demo	- 15 Marks
Project VIVA	- 15 Marks
Project Report	- 5 Marks
Total	- 35 Marks

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS

(BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
		Part - 3	-	Skill Development Course	3	30	70	100	

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB

PART - A

1. Exchange of two 16-bit numbers.
2. Addition & Subtraction of two 8 –bit HEX numbers.
3. Subtraction of two 16 –bit numbers.
4. Two n-byte Number addition.
5. Block Transfer.
6. ‘N’ Decimal Number addition.
7. 4-Digit BCD addition.
8. Subtraction of 16 –bit number.
9. Sorting of array in ascending order.
10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA506P : PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation	65 Marks
Viva-voce	25 Marks
Project Report	10 Marks

SIXTH SEMESTER BCA

BCA601T : THEORY OF COMPUTATION

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

BCA605P : PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

* * * * *

Project syllabus

2016-2017

M-Com
Syllabus copy



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**INING TO MASTER OF COMMERCE (M.Com)
BC SYSTEM FROM 2014-15 ONWARDS**

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ve of the Master of Commerce course is to impart to the students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. **Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. **Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. **Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. **Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. **Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

Registration:
 register for all the papers of a semester when he appears at semester for the first time.

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1½ (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1½ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

- 1. Chairman BOS: Chairman
- 2. One Senior Faculty Member



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and m for 30 marks will be conducted by external examiners.

prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks
(7x2=14)

Section – B:

- Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks
(3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal marks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Grading Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
B	B+	A	A+	A++	O

Grade Point Average (GPA) in a Semester and the Cumulative Grade

Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

$GPA = \text{Total GPW} / \text{Total Credits} = 186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

	I	II	III	IV	Total
	700	700	600	600	2600
	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15 \%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: **A++**

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

12. MINIMUM FOR A PASS:

- 12.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 12.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 12.5 **There shall be no minimum in respect of internal assessment.** However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.
- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
13. **CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.
14. **REJECTION OF RESULTS:**
 - i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



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e permitted. A candidate who rejects the results shall on of that semester in the subsequent examination.

sed only once in each semester and the rejection once oked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.

ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

II SEMESTER M.Com (MASTER OF COMMERCE)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E – Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management – I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.1	4	3	30	70	100	4
4.2	4	3	30	70	100	4
4.3	4	3	30	70	100	4
4.4	4	3	30	70	100	4
4.5	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers, Scheme of Study and Examination for B Sc in Computer Science,
Revised w.e.f. 2014–2015.**

Sem	Paper	Title of the paper	Hours/ Week	Marks			Credits
				IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
II	CS2T	Data Structures	4	30	70	150	3
	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
IV	CS4T	Operating System and UNIX	4	30	70	150	3
	CS4P	UNIX Programming Lab	3	15	35		
V	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35		
	CS5T2	Visual Programming	3	30	70	150	3
	CS5P2	Visual Programming Lab	3	15	35		
VI	CS6T1	Web Programming	3	30	70	150	6
	CS6P1	Web Programming Lab	3	15	35		
	CS6T2	Computer Networks	3	30	70	150	
	CS6P2	Project Lab	3	15	35		

Collision Detection and Backoff with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. [13 hours]

Unit - III

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software. [13 hours]

Unit - IV

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [13 hours]

Text Books:

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.

Reference Books:

1. Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition.

CS6P2: PROJECT LAB

Total Practical hours / week: 03 hours

Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.

Scheme of Evaluation is as follows:

Project Demo	- 15 Marks
Project VIVA	- 15 Marks
Project Report	- 5 Marks
Total	- 35 Marks

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS

(BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
	Part - 3	-	Skill Development Course	3	30	70	100	2	

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB

PART - A

1. Exchange of two 16-bit numbers.
2. Addition & Subtraction of two 8 –bit HEX numbers.
3. Subtraction of two 16 –bit numbers.
4. Two n-byte Number addition.
5. Block Transfer.
6. ‘N’ Decimal Number addition.
7. 4-Digit BCD addition.
8. Subtraction of 16 –bit number.
9. Sorting of array in ascending order.
10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA506P : PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation	65 Marks
Viva-voce	25 Marks
Project Report	10 Marks

SIXTH SEMESTER BCA

BCA601T : THEORY OF COMPUTATION

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

BCA605P : PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

* * * * *

Project syllabus

2015-2016

M-Com
Syllabus copy



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ve of the Master of Commerce course is to impart to the students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. **Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. **Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. **Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. **Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. **Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

Registration:
 register for all the papers of a semester when he appears at semester for the first time.

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1¹/₂ (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1¹/₂ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

- 1. Chairman BOS: Chairman
- 2. One Senior Faculty Member



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and m for 30 marks will be conducted by external examiners.

prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks
(7x2=14)

Section – B:

- Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks
(3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal

marks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

Grading Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
B	B+	A	A+	A++	O

Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

$GPA = \text{Total GPW} / \text{Total Credits} = 186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

	I	II	III	IV	Total
	700	700	600	600	2600
	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = $2032 / 2600 = 78.15 \%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme = $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: **A++**

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

12. MINIMUM FOR A PASS:

- 12.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 12.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 12.5 **There shall be no minimum in respect of internal assessment.** However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.
- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
13. **CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.
14. **REJECTION OF RESULTS:**
 - i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



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e permitted. A candidate who rejects the results shall on of that semester in the subsequent examination.

sed only once in each semester and the rejection once oked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.

ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
I SEMESTER TOTAL OF CREDITS							26

II SEMESTER M.Com (MASTER OF COMMERCE)

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E – Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2
II SEMESTER TOTAL OF CREDITS							26



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**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management – I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**III SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							24

**M.Com (MASTER OF COMMERCE)
- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.1	4	3	30	70	100	4
4.2	4	3	30	70	100	4
4.3	4	3	30	70	100	4
4.4	4	3	30	70	100	4
4.5	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8	--	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

**IV SEMESTER M.Com (MASTER OF COMMERCE)
ELECTIVE - III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS						24	

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT

BANGALORE UNIVERSITY

Bangalore University
COURSE STRUCTURE 2012-13
Scheme
B.B.M. COURSE MATRIX

BANGALORE UNIVERSITY
DEPARTMENT OF COMMERCE

REGULATIONS PERTAINING TO BBM DEGREE SEMESTER SCHEME

I. Objectives :

1. To develop entrepreneurs
2. To develop ethical managers with inter disciplinary knowledge
3. To develop business philosophers with a focus on social responsibility and ecological sustainability.
4. To prepare students to take the responsibility of full line of marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of human resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality, competency and holistic approach.
7. To prepare students to take up higher education to become business scientists, researchers, consultants and teachers, with core competencies.

II. Eligibility for Admission:

Candidates who have completed two – year Pre – University course of Karnataka State or its equivalent are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is 3 years of six semesters. A candidate shall complete his/her degree within six (6) academic years from the date of his/her admission to the first semester.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VI. COURSE MATRIX

See Annexure – 1

VII. TEACHING AND EVALUATION:

M.Com, M.FA., M.B.S and M.B.A. graduates with B.Com, B.B.M and B.B.S as basic degree from a recognized university are only eligible to teach and evaluate the subjects including (excepting languages, compulsory additional subjects and core Information Technology related subjects) subjects mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

IX. PROJECT REPORT AND VIVA-VOCE:

- a. The Project report in the sixth semester carries 100 marks which shall form part of Sixth semester examination.

- b. There shall be single valuation of project report and this will be done simultaneously along with Viva - Voce. Internal Assessment does not carry any marks.
- c. The principal of the college shall submit the project reports of the students, to the university within three days after the completion of VI semester examination.
- d. Candidate shall obtain a minimum of 35% marks (Including Viva-Voce) in this subject (project Report) failing which he/she shall revise and resubmit before the commencement of the next examination. However, no student shall be allowed to resubmit the project report after three consecutive chances.
- e. The student who fails to submit the project report shall not be permitted to take the examination.
- f. The board of examiners or their nominees' shall conduct viva-voce examination for Project Report.

X. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programmes per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

XI. SCHEME OF EXAMINATION:

There shall be a university examination at the end of each semester. The maximum marks for the university examination in a paper shall be 100 marks. For Skill development Record maintenance grades shall be awarded.

Grades for Skill Development Record maintenance shall be awarded by the teacher who taught the paper. And the teacher concerned shall hand over within three days after end of the semester period, the grade's list to the Head of the Department who in turn shall handover, within the next three days, to the principal.

The principal shall display grades on the notice board paper-wise and student-wise one week prior to the commencement of the semester examination. And the original copy of the same, duly signed by the principal, shall be sent by the principal to the registrar (Evaluation) before the commencement of the semester examination.

XII. APPEARANCE FOR THE EXAMINATION: .

A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if:

- a. A Candidate shall apply for all the parts in each examination when he/she has submitted the prescribed application for the examination along with the required fees.
- b. A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c. Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d. A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not

Bangalore University
COURSE STRUCTURE 2012-13 Scheme
B.B.M. COURSE MATRIX

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
I	1.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	1.2	LANGUAGE: ENGLISH	04	100
	1.3	Fundamentals of Accounting	04	100
	1.4	Business Organisation and Environment	04	100
	1.5	Quantitative Methods for Business - I	04	100
	1.6	Market Behaviour & Cost Analysis	04	100
	1.7	Management Process	04	100
II	2.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	2.2	LANGUAGE: ENGLISH	04	100
	2.3	Financial Accounting	04	100
	2.4	Quantitative Methods for Business – II	04	100
	2.5	Organizational Behavior	04	100
	2.6	Production and Operations Management	04	100
	2.7	Environmental Studies	04	100
III	3.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	3.2	Soft Skills for Business	04	100
	3.3	Corporate Accounting	04	100
	3.4	Human Resource Management	04	100
	3.5	Services Management	04	100
	3.6	Corporate Environment	04	100
	3.7	Computer Fundamentals	04	100
IV	4.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	4.2	Business Research Methods	04	100
	4.3	Marketing Management	04	100
	4.4	Financial Management	04	100

UGC	4.5	Business Regulations	04	100
	4.6	Cost Accounting	04	100
	4.7	Indian Constitution	04	100
V	5.1	Entrepreneurial Management	04	100
	5.2	Computer Applications in Business	04	100
	5.3	Banking Regulations & operations	04	100
	5.4	Corporate Governance	04	100
	5.5	Management Accounting	04	100
	5.6	Elective – Paper –I	04	100
	5.7	Elective – Paper –II	04	100
VI	6.1	International Business	04	100
	6.2	E-Business	04	100
	6.3	Income Tax	04	100
	6.4	Strategic Management	04	100
	6.5	Elective – Paper-III	04	100
	6.6	Elective – Paper –IV	04	100
	6.7	Project Report & Viva-voce (75 marks + 25 marks)		100

ELECTIVE GROUPS

1. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Advanced Financial Management	04	100
	5.7	Financial Markets & Services	04	100
VI	6.5	Investment & Portfolio Management	04	100
	6.6	Stock And Commodity Markets	04	100

2. MARKETING GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Consumer Behavior	04	100
	5.7	Advertising & Media Management	04	100
VI	6.5	Brand Management	04	100
	6.6	Retail Management	04	100

3. HUMAN RESOURCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Employee Welfare & Social Security	04	100
	5.7	Strategic HRM	04	100
VI	6.5	Organizational Change & Development	04	100
	6.6	Compensation Management	04	100

4. INTERNATIONAL BUSINESS GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	International Marketing Management	04	100
	5.7	International Financial Management	04	100
VI	6.5	International HRM	04	100
	6.6	Exim & Forex Management	04	100

5. INFORMATION & TECHNOLOGY GROUP

**Regulations, Scheme of Study and Examination for B.C.A. degree course under
Semester System(Y2K8 scheme)
(Revised w.e.f. 2008– 2009)**

- R 1.** a) Title of the course: Bachelor of Computer Applications
b) Duration of the Course: The course shall be of three years duration spread over six semesters.
c) Scheme of study:
i) There shall be five theory papers and two practicals from first semester to fourth semester. The practical paper corresponds to one or two theory papers. The papers having no practical component carry 100 marks (90+10) and the papers carrying practical component also carry 100 marks (60+30+10).
ii) There shall be four theory papers and one project work during fifth and sixth semesters.
iii) The project work shall be carried out either independently or jointly (maximum of three students).
iv) Medium of Instruction: The medium of instruction shall be English.
d) Scheme of Examination:
i) At the end of each semester there shall be University examination of three hours duration in each of the theory paper/practical.
ii) Continuous Evaluation (CE) carrying 10 marks in each of theory papers shall be based on the performance of the students in two written tests of one hour duration. No minimum marks for passing is required in IA.
iii) At the end of the fifth and sixth semesters each student shall have to submit the completed project report for the evaluation which shall be certified by internal and/external guide and duly signed by the Principal/Chairman/Head/Course Coordinator.

The project report shall be evaluated by two examiners for 100 marks and Viva – voce shall carry 100 marks.

R 2. Each semester shall be of 4 months duration

R 3. Attendance: As per Bangalore University regulations in force for science degree courses.

R 4. A Candidate is allowed to carry over all the previous uncleared (failed) theory papers and/Practicals to subsequent semesters as per Bangalore University regulations in force for science degree courses.

R 5. The maximum period for completion of the course shall be six years from the date of admission.

R 6. Eligibility for admission:

- a) Any student who has passed PUC – II Science, Arts or Commerce securing a minimum of 35% of marks

OR

- b) Any student who has passed JODC or Diploma in Engg. (of three year duration of Govt. of Karnataka) with minimum of 35% of marks in aggregate in all the semesters/years.

R 7. Admission Procedure:

- a) Through Counseling in respective colleges
b) 50% weightage for entrance test in respective colleges

- c) 50% weightage for performance at qualifying examination.
- d) Merit list shall be prepared based on item No. 7(b) and 7 (c)
- e) Reservation: As per the notifications/Govt. orders from the University/Govt. from time to time.
- f) Tuition and other fees: As fixed by the University from time to time

R 8. The total number of students to be admitted to the course shall be as decided by the University.

R 9. Results: Results of candidate shall be declared and the classes awarded as per the procedure followed by the University for B.Sc. courses.

R 10. POWER TO REMOVE DIFFICULTIES

- 1) If any difficulty arises in giving effect to the provisions of these regulations, the Vice – Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- 2) Every order made under this rule shall be subject to ratification by the appropriate University Authorities.

Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Revised w.e.f. 2008– 2009

Sem.	Paper	Title of the paper	Hrs/ Wk	Theory	Practical	CE	Total Marks
				Max. Marks	Max. Marks		
I	BCA101	Indian Language	4	90	-	10	100
	BCA102	English	4	90	-	10	100
	BCA103	Computer Fundamentals	4	90	-	10	100
	BCA104	Electronics	4	60	30	10	100
	BCA105	Programming Concepts Using C	4	60	30	10	100
II	BCA201	Indian Language	4	90	-	10	100
	BCA202	English	4	90	-	10	100
	BCA203	Mathematics	4	90	-	10	100
	BCA204	OOPS Using C++	4	60	30	10	100
	BCA205	Data Base Management Systems	4	60	30	10	100
III	BCA301	Indian Language	4	90	-	10	100
	BCA302	English	4	90	-	10	100
	BCA303	Indian Constitution	4	100	-	-	100
	BCA304	Operating Systems	4	90	-	10	100
	BCA 305	Data Structures Using C	4	60	30	10	100
	BCA306	Numerical Analysis and Linear Programming	4	60	30	10	100
IV	BCA401	Indian Language	4	90	-	10	100
	BCA402	English	4	90	-	10	100
	BCA403	Environmental Studies	4	90	-	10	100
	BCA404	Data communications and Networks	4	90	-	10	100
	BCA405	Visual Programming	4	60	30	10	100
	BCA406	UNIX Programming	4	60	30	10	100
V	BCA501	Software Engineering	4	90	-	10	100
	BCA502	Computer Architecture	4	90	-	10	100
	BCA503	Banking and insurance	4	90	-	10	100
	BCA504	JAVA Programming	4	60	30	10	100
	BCA505	Project	4	-	90	10	100
	BCA 506	Soft Skills & Personality Development Lab	-	-	90	10	100
VI	BCA601	Design & Analysis of Algorithms	4	90	-	10	100
	BCA602	Systems Programming	4	90	-	10	100
	BCA603	Computer Graphics	4	90	-	10	100
	BCA604	Web Programming	4	60	30	10	100
	BCA 605	Project	8	-	180	20	200

- Note:** 1) The practical classes during the course of the semester shall be as in other science courses.
2) Examination for Theory/Practicals shall be of three hours duration.
3) In the evaluation of projects in fifth and sixth semesters, during the practical examination the demonstration of the project carries 50% of marks and viva-voce carries 40% of marks.
4) The papers should be taught only by people who have specialization in the area.
5) For theory papers the paper number may be suffixed with T and for practical papers with P,

If a textboxes has been left empty, popup an alert indicating which textbox has been left empty.

3. Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.
4. Create a page with dynamic effects. Write the code to include layers and basic animation.
5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined function)
6. Write a JavaScript code to find factorial of N. (Use recursive function)
7. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
8. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.
9. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
10. Create a form consists of a two Multiple choice lists and one single choice list,
 - The first multiple choice list, displays the Major dishes available.
 - The second multiple choice list, displays the Starters available.
 - The single choice list, displays the Soft drinks available.The selected items from all the lists should be captured and displayed in a Text Area along with their respective costs. On clicking the 'Total Cost' button, the total cost of all the selected items is calculated and displayed at the end in the Text Area. A 'Clear' button is provided to clear the Text Area.
11. Write a JavaScript code block, which checks the contents entered in a form's Text element. If the text entered is in the lower case, convert to upper case. Make use of function to Uppercase ().
12. Create a web page using two image files, which switch between one another as the mouse pointer moves over the images. Use the onMouseOver and onMouseOut event handlers.

BCA605P –PROJECT