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REGULATIONS FOR 2 YEAR FULL TIME MBA (DAY & EVENING)

PROGRAM

1. TITLE

These regulations shall be called as Academic Regulations of the MBA Degree course (Day & Evening) of Bengaluru Central University, from academic year 2019- 20 onwards, under Choice Based Credit System (BCU-PG-CBCS, 2018) of Faculty of Commerce and Management under Bengaluru Central University, Bengaluru and the Degree called as Master of Business Administration.

2. EXTENT OF APPLICATION

These regulations will apply to Post Graduate Program in Management called MBA (Master Of Business Administration) being offered by the PG Department of Management Studies, Bengaluru Central University and all the colleges affiliated to the Bengaluru Central University having obtained the approval of this university and AICTE subject to complying with all the requirements and conditions laid down by these regulatory bodies.

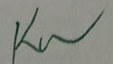
**MASTER OF BUSINESS ADMINISTRATION (CHOICE BASED CREDIT SYSTEM)
(MBA-CBCS FROM ACADEMIC YEAR - 2019 - 20 ONWARDS)**

3. MINIMUM ELIGIBILITY FOR ADMISSION AND ADMISSION PROCEDURE

- A graduate degree under 10+2+3, 10+2+4 or 10+2+5 pattern under any discipline securing at least 50% marks in the aggregate including languages from a recognized University of UGC in India or abroad.
- Degrees from abroad should be accepted as equivalent to the Degree offered by any University in India by the UGC and as approved by AIU and Bengaluru Central University.
- In case of SC/ST/Cat-I candidates, there will be a relaxation of 5% in the aggregate marks obtained in the under graduate Degree set as minimum eligible marks (50%) for admission into MBA Course.
- All admissions to Post Graduate Department of Management and its affiliated colleges will be made through an entrance test conducted by appropriate body duly constituted and duly approved by Government of Karnataka and State Level Counselling board on the basis of Rank Merit and the reservation rules based on seat matrix as announced by the Government of Karnataka shall be strictly adhered to.

4. DURATION OF THE COURSE

The duration of the MBA Day & Evening program shall extend to over 4 semesters spanning over a period of 2 years. Each year shall have two semesters of 16 weeks duration and shall have no


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less than 90 working days of classroom teaching, internship and master thesis. At the end of each semester there will be end semester university examination conducted by the university.

5. MEDIUM OF INSTRUCTION

The course being a professional course and having Global connotation the medium of instruction for MBA Course Day and Evening examination shall be in English medium only.

6. MINIMUM CREDITS AND MAXIMUM CREDITS

- 6.1 There shall be four categories of papers viz., Core and Compulsory paper, Soft Core paper, Specialization paper and Open Elective paper. The Open Electives are the University approved papers offered by other Departments of Bengaluru Central University and the student is required to undergo one course from other Department.
- 6.2 The credits for each of Compulsory paper and specialization paper may vary from 2 to 4 credits. In case of open electives and Soft Core, each paper shall be of 2 credits. A student is required to opt for one open elective paper in 3rd Semester. The list of papers available will be intimated from time to time.

One credit is equivalent to 15 contact hours

7. ATTENDANCE

- 7.1 The candidate who does not put in minimum stipulated attendance of 75% aggregate of all the subjects put together in a semester shall not be eligible to appear for the end exam in that semester and the candidate has to re attend the classes along with subsequent batch and satisfy the minimum requirement for appearing in that particular end semester examination.
- 7.2 The statement of attendance shall be displayed on the Notice Board by the Department/School/Institution at end of every month for information of students.
- 7.3 Five marks in Internal Assessment is earmarked for the attendance percentage as a motivation for the students to attend classes regularly.

8. SEMESTER-WISE CREDIT DISTRIBUTION:

8.1 The table shows the semester wise credit with total credits

Category	Sem 1	Sem 2	Sem 3	Sem 4	Total Credits
Compulsory Core Papers	24	24	6	-	54
Soft Core Papers	2	2	-	-	4
Specialization Subjects	-	-	20	20	40
General Open Elective	-	-	2	-	2
Industry Internship Program	-	-	2	-	2
Master Thesis	-	-	-	4	4
Total	26	26	30	24	106

is to be carried out under the guidance of a faculty of the institution and industry. This could involve a desk study/data analysis/technology enabled assignment/enterprise resource planning/live case study/extension work or exploration of an idea or its implementation. Specific guidelines including Format of the report shall be issued by PG Department of Management Studies, Bengaluru Central University from time to time

12.2 The industry internship program shall carry 50 marks, of which the internship report shall carry 25 marks and 25 marks for viva voce. The student has to secure a minimum of 25 marks out of 50 marks to pass in the internship program. The viva voce and the internship report will be evaluated by the external examiners and internal examiners appointed by the BOE.

13. **MASTER THESIS**

13.1 Every student is required to work 45 days (30 days compulsory to attend the industry field work) on his/her master thesis in the chosen major specialization during the 3rd and 4th semester and prepare a Master Thesis report applying research methodology under the supervision of a Faculty guide and Industry expert. The Thesis shall be based on a free-lance or industry project. Prior to the actual work, the students are required to submit a synopsis of the proposed project work incorporating the components of research design and submit the same to the PG Department of Management Studies, BCUB for approval. There is no class work during 30 days where the student is in industry/fieldwork. Subsequent to the field work, the candidate has to involve himself/herself in writing the master thesis along with attending the classes regularly.

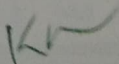
13.2 The students are required to submit two progress reports during the course of master thesis at the stipulated time periods.

13.3 A hard bound copy and a soft copy of the Master Thesis duly signed by the faculty guide and certified by the industry/organizations and Principal Director/HOD has to be submitted to the PG Department Management Studies, Bengaluru Central University at the end of the fourth semester before the commencement of the end semester examination. The Master Thesis shall be evaluated for 100 marks by two examiners (One of them will be the faculty guide/member who has guided the work and other will be the external/internal examiners appointed by the BOE). A minimum of 50% marks shall be secured for a pass in the Master Thesis. There shall be a viva-voce examination for 50 marks on the Master Thesis. Viva-voce will be conducted by Board of Examiners/examiners authorized by Chairman of BOE. A minimum of 50% (25 marks) must be secured to pass in the viva-voce examination.

13.4 Academic Integrity and Plagiarism

In order to maintain the quality in preparation and presentation of internship reports/master thesis in 3rd and 4th semester. All the internship reports/master thesis should undergo the anti-plagiarism check with the support of suitable software. The Post Graduate Department of Management shall inform the B- Schools about the software and provide them guidelines thereof. The similarity index permissible will be decided from time to time.

14. **SPECIALIZATION STREAMS**


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14.1. The MBA program has dual specialization. It consists of major specialization and minor specialization. In 3rd and 4th semester the student has to take 3 electives in the major specialization and 2 electives in the minor specialization. If the student has studied 6 electives in one specialization in both 3rd and 4th semester MBA program, it is termed as major specialization.

14.2 For offering any specialization indicated in the MBA program, each institution shall have a minimum of 10 students.

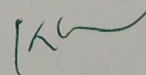
14.3 The Board of Studies in Management could explore collaborations and partnership either with associations, industry body, individual companies and other enterprises for the purposes of curriculum design, delivery, faculty development, publication of study material and case studies. The BOS is also authorized to make necessary changes in the specialization streams as well as electives offered under the specialization streams. Any emerging area/subject leading to specialization will be identified and offered from time to time.

15. FOUNDATION COURSES AND ADD ON COURSES

15.1 The colleges are required to organize one week to ten days of induction programme for the students admitted to the first semester before the commencement of classes. Since the students come from different backgrounds such as arts, science, engineering etc, the foundation courses are intended not only to provide the basics and fundamental pre-requisite knowledge on management subjects but also include value-based and familiarise the students with management concepts. Similar induction could be planned at the time of the commencement of III Semester. A detailed report has to be submitted to university. After completion of 2nd semester, the institution shall arrange for project report preparation workshops for the students to take up the master thesis work in the 4th semester confidently.

15.2 The suggestive areas for Foundation courses are Social impact of management, Fundamentals of Management, Accounting and Finance, Sustainable development, Anti-Corruption Issues, Moral Leadership, and Business Ethics. Specific guidelines will be issued by PG Department of Management from time to time.

15.3 The students are required to undergo a non credit course(at least one) Massive Open Online Course (MOOC) each year. The list of courses will be supplied by the PG Department of Management Studies, Bengaluru Central University. Students are required to produce certification of completion of course during Viva Voce Exam.



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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.

ination:

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

from affiliated colleges as recommended by the BOS on System and Computers Subject. A Viva-Voce and n 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:

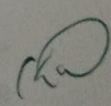
Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report 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 examiners.


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

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
			IA	Exam	Total	
4.2	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

- Income Tax
- Finance and Banking

ELECTIVE PAPERS:

- ACCOUNTING & TAXATION
- FINANCE & BANKING
- SYSTEM MANAGEMENT

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BENGALURU CENTRAL UNIVERSITY

Regulations of Master of Computer applications (MCA) Course

- 1 **TITLE OF THE COURSE:** The course shall be called MCA – Master of Computer Applications.
- 2 **DURATION OF THE COURSE:** The course of study shall be three years.
- 3 **ELIGIBILITY FOR ADMISSION:** A candidate with any degree of a minimum of 3 years duration (10+2+3) of Bangalore university or of any other University equivalent there in to with a minimum of 50% of marks in the aggregate of all subjects including languages, if any, provided further, that the candidate has studied mathematics / Computer science /Business Mathematics / Statistics / Computer Applications / Electronics as a subject at PUC level or equivalent HSC (XII Standard) or at Degree level is eligible for admission to MCA Course. Relaxation to SC/ST, Group I be extended as per University norms.
- 4 **ATTENDANCE:** In each Semester a candidate should be considered to have successfully undergone the prescribed Course of study if the candidate has attended at least 75% of the classes in each subject (Theory, Lab & Practical).
- 5 **SCHEME OF EXAMINATION:**
 - A The Internal Assessment marks should be decided for each of the theory subjects by conducting 2 tests, each of 60 minutes duration, spread over the span of a Semester. A seminar should also be given by the student in the third year and the same to be assessed and evaluated for internal assessment along with the two tests.
 - B The Internal Assessment marks in Practical course is based on the performance in the Laboratory. The Internal Assessment marks for Project work of a candidate is based on the dissertation Seminar.
- 6 **ELIGIBILITY TO GO TO THE HIGHER SEMESTER:**
 - A A Candidate is allowed to carry over all the previous uncleared (failed) theory papers and Practicals to subsequent semesters from the first to sixth semester.
 - B The maximum period for completion of the course shall be six years from the date of admission.
- 7 **MINIMUM FOR PASS AND DECLARATION OF RESULTS**
 - A For a pass in a semester, a candidate shall secure a minimum of 40% of the marks prescribed for a subject in the University Examination (Theory, Practical, Project work) and 50% of the marks in the aggregate inclusive of the Internal Assessment marks obtained in all subjects put together.
 - B The candidates who do not satisfy 7(a) shall be deemed to have failed and have to take exams in the subjects in which he has secured less than 40% at the University examination.

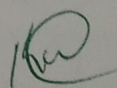
SCHEME OF STUDY AND EXAMINATION FOR MASTER OF
COMPUTER APPLICATIONS (MCA)

Sem	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
				IA	Exam	Total	Subject	Sem
I	MCA101T	Problem Solving Techniques using C	4	30	70	100	4	24
	MCA102T	Accounting and Financial Management	4	30	70	100	4	
	MCA103T	Digital Electronics and Microprocessor	4	30	70	100	4	
	MCA104T	Discrete Mathematics	4	30	70	100	4	
	MCA105P	C Programming Lab	8	30	70	100	4	
	MCA106P	Accounting Lab	8	30	70	100	4	
II	MCA201T	Data Structures	4	30	70	100	4	24
	MCA202T	Database Management System	4	30	70	100	4	
	MCA203T	Computer Networks	4	30	70	100	4	
	MCA204T	Operating System	4	30	70	100	4	
	MCA205P	Data Structures Lab	8	30	70	100	4	
	MCA206P	DBMS Lab	8	30	70	100	4	
III	MCA301T	File Structures	4	30	70	100	4	26
	MCA302T	Object Oriented Analysis and Design using UML	4	30	70	100	4	
	MCA303T	Theory of Computation	4	30	70	100	4	
	MCA304T	Statistical Analysis	4	30	70	100	4	
	MCA305P	File Structures Lab	8	30	70	100	4	
	MCA306P	Object Oriented Analysis and Design using UML Lab	8	30	70	100	4	
	MCA307T	Soft Core – Quantitative, Teaching and Research Aptitude	3	30	70	100	2	
IV	MCA401T	Advanced Java Programming	4	30	70	100	4	26
	MCA402T	Advanced Algorithms	4	30	70	100	4	
	MCA403T	Advanced Software Engineering	4	30	70	100	4	
	MCA404T	Quantitative Techniques	4	30	70	100	4	

	MCA405P	Advanced Java Programming Lab	8	30	70	100	4	
	MCA406P	Advanced Algorithms Lab	8	30	70	100	4	
	MCA407T	Soft Core – Soft Skills and Personality Development	3	30	70	100	2	
V	MCA501T	Advanced Web Programming	4	30	70	100	4	24
	MCA502T	Advanced Database Management Systems	4	30	70	100	4	
	MCA503T	Artificial Intelligence	4	30	70	100	4	
	MCA504T	Open Elective	4	30	70	100	4	
	MCA505P	Advanced Web Programming Lab	8	30	70	100	4	
	MCA506P	Mini Project	8	30	70	100	4	
VI	MCA601T	Elective – I	4	30	70	100	4	16
	MCA602T	Elective – II	4	30	70	100	4	
	MCA603P	Main Project	16	150	250	400	8	

Students have to choose any two Electives from the given list in the Sixth semester.

1. Software Testing
2. e-Governance
3. Data Mining
4. Big Data Analytics
5. Cloud Computing
6. Parallel Algorithms
7. Image processing
8. Mobile Computing
9. Compiler Design
10. TCP / IP
11. Storage Area Network
12. Multimedia Communication
13. Distributed Operating Systems



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BENGALURU CENTRAL UNIVERSITY
BACHELOR OF COMPUTER APPLICATIONS,
SYLLABUS (2019-20 ONWARDS)

Title of Papers and Scheme of Study & Examination for BCA, Under Choice Based Credit System - Semester System (Revised w.e.f. 2019-2020)

Sem	Part	Paper Code	Title of Paper	Hours/Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part 1	BCA 101T	Indian Language	4	30	70	100	2	16
		BCA 102T	English	4	30	70	100	2	
	Part 2	BCA 103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA 104T	Computer Organizations	4	30	70	100	2	
		BCA 105T	Discrete Mathematics	5	50	100	150	3	
		BCA 103P	C Programming Lab	3	15	35	50	1	
		BCA 104P	Office Automation	3	15	35	50	1	
	Part 3		Foundation Course	3	30	70	100	2	
			CC & EC		50		50	1	
II	Part 1	BCA20 1T	Indian Language	4	30	70	100	2	16
		BCA20 2T	English	4	30	70	100	2	
	Part 2	BCA20 3T	Data Structures	4	30	70	100	2	
		BCA20 4T	Database Management System	4	30	70	100	2	
		BCA20 5T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA20 3P	Data Structures using C lab	3	15	35	50	1	
		BCA20 4P	DBMS Lab Using Oracle	3	15	35	50	1	

Part 3	Foundation Course	3	30	70	100	2
	CC & EC		50		50	1

Sem	Part	Paper Code	Title of Paper	Hours/Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
III	Part 1	BCA3 01T	Indian Language	4	30	70	100	2	16
		BCA3 02T	English	4	30	70	100	2	
	Part 2	BCA3 03T	Object oriented Programming using C++	4	30	70	100	2	
		BCA3 04T	Financial Accounting and Management	4	30	70	100	2	
		BCA3 05T	Operating System	5	50	100	150	3	
		BCA3 03P	OOPS Using C++ Lab	3	15	35	50	1	
	Part 3		Tally Lab	3	15	35	50	1	
			Foundation Course	3	30	70	100	2	
			CC & EC		50		50	1	
	IV	Part 1	BCA4 01T	Indian Language	4	30	70	100	
BCA4 02T			English	4	30	70	100	2	
Part 2		BCA4 03T	VB.NET Programming	4	30	70	100	2	
		BCA4 04T	Unix and Shell Programming	4	30	70	100	2	
		BCA4 05T	Software Engineering	5	50	100	150	3	
		BCA4 03P	VB.NET Lab	3	15	35	50	1	
Part 3			Unix Lab	3	15	35	50	1	
			Skill Development	3	30	70	100	2	
			CC & EC		50		50	1	

Sem	Part	Paper Code	Title of Paper	Hours/Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part 2	BCA501T	Data Communication and Networks	5	50	100	150	3	20
		BCA502T	Artificial Intelligence	5	50	100	150	3	
		BCA503T	Java Programming	4	30	70	100	2	
		BCA504T	Analysis and Design of Algorithm	4	30	70	100	2	
		BCA505T	Elective 1	5	50	100	150	3	
		BCA503P	Java Programming Lab	3	15	35	50	1	
		BCA504P	Analysis and Design of Algorithm Lab	3	15	35	50	1	
		BCA506P	Project	6	50	100	150	3	
	Part 3		Skill Development Course	3	30	70	100	2	
VI	Part 2	BCA601T	System Programming	5	50	100	150	3	20
		BCA602T	Professional and Business Communication	5	50	100	150	3	
		BCA603T	WEB Programming	4	30	70	100	2	
		BCA604T	Elective 2	5	50	100	150	3	
		BCA605T	WEB Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	12	100	200	300	6	
	Part 3		Skill Development Course	3	30	70	100	2	

- 9 Write a program to convert lowercase string to uppercase string.
- 10 Write a program to validate username and password
- 11 Create a web page to display mouse position.
- 12 Write a program to replace string using regular expression.

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 8 Programs has to be prepared).

Note:

- a) The candidate has to write two 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

BCA605P: PROJECT WORK

Guidelines for Project Work

The objective of the project is to motivate students to work in emerging/latest technologies, help the students to develop their ability by applying theoretical knowledge and practical techniques to solve real life problems related to industry, academic and research field.

Students are expected to do planning, analysis, design, code and implementation of the project. The initiation of project should be with the project proposal. The Project work should be done in a group not more than two members.


The project carries 300 marks is distributed as follows:

* Internal Marks: 100

(Note: Implemented project will be given full internal Marks)

* External Marks: 200

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



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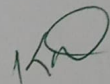
SAMBHRAM ACADEMY OF MANAGEMENT STUDIES

MBA -SEMESTER IV

Batch (2019-21)

LIST OF STUDENTS FOR PROJECT WORK

Sl No	Name	Students Enrollment No.
1	A ESHWAR ADITH	MB197001
2	A L AKHILESH	MB197002
3	ABDUL VASID T	MB197003
4	ABHISHEK S	MB197004
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34	DEEPAK SHARMA	MB197034
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45	HARI VISHNU B	MB197046
46	HIJAS RAHMAN V K	MB197047
47	HUMA BILQUEES	MB197048
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55	JIKKU ABRAHAM	MB197056
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63	LITHUN VINAYAN	MB197064
64	MANAV .M	MB197065
65	MANISH M M	MB197066
66	MARIA VINNARASI R	MB197067
67	MELVIN MATHEW THOMAS	MB197068
68	MILAN JOE JACOB	MB197069
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81	NAVAL SHERIN .T.V	MB197082

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87	PUSHPA M S	MB197088
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89	RAGITHA .K	MB197090
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91	RAHUL P K	MB197092
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93	RAHUL SURESH	MB197094
94	RASWIN RAAHIM	MB197095
95	RAVADA RAJESH KUMAR	MB197096
96	RAZAYID K P	MB197097
97	RIZWAN SHANID A P	MB197098
98	SACHIN H L	MB197099
99	SAJIN K SAMUEL	MB197100
100	SAJISH P S	MB197101
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102	SANDESH SHETTY	MB197103
103	SAUBHIK GHOSH	MB197104
104	SHAMNAD .N	MB197105
105	SHANID .N	MB197106
106	SHINE M SAJI	MB197107
107	SHOBIN JAMES	MB197108
108	SINJU CHERIAN	MB197109
109	SIRAJUDDIN .V	MB197110
110	SIVESH K	MB197111
111	SUBHASH V P	MB197112
112	SUHAIL.C	MB197113
113	SULAV K C	MB197114
114	SUMITH.C	MB197115
115	SURJITH S	MB197116
116	SUSHMA M	MB197117
117	SWEDHA.P	MB197118
118	THANOOOF.A	MB197119
119	THEERTHA P	MB197120
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123	VARUN BABU	MB197124
124	VARUN KUMAR	MB197125

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	VEERESH SHIVARAMAPPA	
126	MAISURAGI	MB197127
127	VISHNU K S	MB197128
128	YADHU RAJ	MB197129

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SL.NO.	REG NO	NAME OF STUDENTS
1	MB187002	FARKHANDA KHUSHEED
2	MB187003	ABEL SAJU
3	MB187004	ABHIJITH K P
4	MB187005	ABHIRAM K R
5	MB187006	ABHISHEK KUMAR
6	MB187007	ADITH PRAKASH
7	MB187008	AGINJITH A G
8	MB187009	AJMAL N T
9	MB187010	AJMAL ROSHAN M
10	MB187012	AKASH SUNIL
11	MB187013	AKSHATHA H M
12	MB187014	AKSHAY PRAKASHAN
13	MB187015	ALBERT THAMPI
14	MB187016	ALI JAMAL ALI AL MUTHURA
15	MB187017	AMAL ALLAN
16	MB187018	AMAL ANAND
17	MB187019	AMAL MANOJ
18	MB187020	AMARNADH C
19	MB187021	AMRUTHA M
20	MB187022	ANANDHU EL
21	MB187023	ANANDUGOPAN
22	MB187024	ANITHA M G
23	MB187025	ARAVIND U
24	MB187026	ARJUN C P
25	MB187027	ARJUN S RAM
26	MB187028	ARUN MATHEW KURUVILLA
27	MB187029	ARUN SHAJI
28	MB187030	ARUN SURESH
29	MB187031	ARYA
30	MB187032	ARYA YASHODHARAN
31	MB187033	ASWATH P
32	MB187035	ATHUL PHILIP
33	MB187036	BHAVYA J
34	MB187037	BINNU V BIJU
35	MB187038	CHETHAN RAJ A P
36	MB187039	CHRISTO JOSE GEORGE
37	MB187040	HASHIM K P
38	MB187041	JITHIN SHANKAR
39	MB187042	JOGI T SKARIAH
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43	MB187046	MAJID A S
44	MB187047	MALAY CHOWDHURY
45	MB187048	MALLIKA C V
46	MB187049	MANASA A
47	MB187050	MANJUNATH H SHET
48	MB187051	MANOJ KUMAR K
49	MB187052	MANPREET KAUR
50	MB187053	MIDHUN XAVIER
51	MB187054	MOHAN T
52	MB187055	MUDUNOORI N KRISHNA GAUTHAM
53	MB187056	MD ANAS T V
54	MB187057	MD HARSHIN E R
55	MB187058	MD JABIR K
56	MB187059	MD MIRSHAD K C
57	MB187060	MUKTENDRA YADAV
58	MB187062	NADEEM SHAFEEQ
59	MB187064	NIDHIN CHACKO
60	MB187065	NIKHIL KUMAR
61	MB187066	NIXON A J
62	MB187067	NUFAIL P V
63	MB187070	RAHIL NUJOOM
64	MB187071	RAHUL R
65	MB187072	RAJATH BHARGAV B H
66	MB187073	RAJEESH V
67	MB187074	RAJESH K A
68	MB187075	RASHAD KALEEL P
69	MB187076	RHEA GEORGE
70	MB187077	SAAD MOIDU
71	MB187078	SANJAY SURESH
72	MB187079	SAYYID SAFEER
73	MB187080	SEEMA PRAJULI
74	MB187081	SHAHID BASHIR
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78	MB187086	SHERIL P M
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89	MB187098	UNNIMAYA R
90	MB187099	VIGNESH RAHUL V
91	MB187100	VEDAVATHY G
92	MB187101	VIGNESH U P
93	MB187102	VISHNU S NAIR
94	MB187103	VISHNUDAS AA
95	MB187104	VIVEK S
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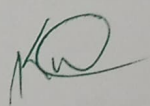
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SAMBHRAM ACADEMY OF MANAGEMENT STUDIES
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6	17XWCMD007	AKARSH Y K
7	17XWCMD008	AKHIL K S
8	17XWCMD009	AMALDEV K G
9	17XWCMD010	AMEER K K
10	17XWCMD011	AMRUTHA R B
11	17XWCMD012	ARAVIND A R
12	17XWCMD013	ARAVIND R
13	17XWCMD014	ARJUN SINGH
14	17XWCMD015	ARPITA CHAURASIYA
15	17XWCMD016	ARUN G KRISHNAN
16	17XWCMD017	ARUNIMA MENON
17	17XWCMD018	ARYAMAN PRIYA
18	17XWCMD019	ASHA C
19	17XWCMD020	ASHIK ANTO V
20	17XWCMD021	ASHIN SREEDHAR G S
21	17XWCMD022	ATHUL A
22	17XWCMD023	ATHUL C
23	17XWCMD024	BASIL KURIAKOSE
24	17XWCMD025	BASIM BACKER E V
25	17XWCMD026	BEN BOSE
26	17XWCMD027	BHAVANI M
27	17XWCMD028	BHAVYA K P
28	17XWCMD029	BHINDIYA S
29	17XWCMD030	BHOOMIKA DEEPTHI M R
30	17XWCMD031	BIBEK GIRI
31	17XWCMD032	BINISH B
32	17XWCMD033	CHANDANA M D
33	17XWCMD034	DELWIN SIMON
34	17XWCMD035	FAYEZ ABDUL RASHEED R V
35	17XWCMD036	GEORGE M MATHEW
36	17XWCMD037	GIRISHA N B
37	17XWCMD038	GOKUL BABU KAVIL
38	17XWCMD039	HARI KRISHNA R
39	17XWCMD040	HARSHITHA H S
40	17XWCMD041	HARSHITHA L
41	17XWCMD042	JAFARALI U P
42	17XWCMD043	JEFFIN GEORGE


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45	17XWCMD046	JITHIN RAJAN
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47	17XWCMD048	JUSTIN JOSE
48	17XWCMD049	KAVLORU LATHA
49	17XWCMD050	LAKSHMAN M N
50	17XWCMD051	LINTA K JOHN
51	17XWCMD052	MAHESH KUMAR P
52	17XWCMD053	MAHJOOB A
53	17XWCMD054	MAMTA SINGH
54	17XWCMD055	MD DANISH ANSARI
55	17XWCMD056	MIDHUN RAVEENDRAN V
56	17XWCMD057	MIRSHAD C P
57	17XWCMD058	MOHAMED ANAS P V
58	17XWCMD059	MOHAMED SUHAIL
59	17XWCMD060	MOHAMMAD SALMAN
60	17XWCMD061	MOHAMMED JUNIDH
61	17XWCMD062	MUHAMMAD ASHIK C
62	17XWCMD063	MUHAMMED NADEER T V
63	17XWCMD064	MUHAMMED SHAD K P
64	17XWCMD065	MUHAMMED SHAFI E
65	17XWCMD066	MUHAMMED SHAFI P
66	17XWCMD067	MUHSIN ABDUL N M
67	17XWCMD068	MUKESH KUMAR SINGH
68	17XWCMD069	MUNSHID P K
69	17XWCMD071	MUTUKURDU SIREESHA
70	17XWCMD072	NASEER AHMED WAR
71	17XWCMD074	NAVEEN K
72	17XWCMD075	NIKHIL SASI
73	17XWCMD076	PALADI AKHIL
74	17XWCMD077	PIYUSH KUMAR HANU
75	17XWCMD078	PRATHAP M
76	17XWCMD079	PRIYANKA K J
77	17XWCMD080	RAGHUVEER M
78	17XWCMD081	RASHMI G
79	17XWCMD082	RAVIKUMARA M
80	17XWCMD083	REMYA MATHEW
81	17XWCMD084	RESHMA P K
82	17XWCMD085	RIJIN MATHEW
83	17XWCMD087	RONY JAMES
84	17XWCMD088	ROOPA N
85	17XWCMD089	ROSHEN JOE ALEX
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102	17XWCMD106	SHRILAKSHMI H D
103	17XWCMD107	SIJO MATHEW
104	17XWCMD108	SUBIN P SAJI
105	17XWCMD109	SUNITHA
106	17XWCMD110	SURENDRA CHOWDARY P
107	17XWCMD111	SYAMJITH C
108	17XWCMD112	TANVEER ISMAL MIR
109	17XWCMD113	THANSEN K A
110	17XWCMD114	TONY C V
111	17XWCMD115	VARSHA M U
112	17XWCMD116	VIJAY KUMAR B S
113	17XWCMD117	VIJAY KUMAR R
114	17XWCMD118	VINOO K M
115	17XWCMD119	VISHNU S
116	17XWCMD120	VISWAJITH K
117	17XWCMD121	YADHUKRISHNAN G
118	17XWCMD122	SAHIL K K
119	17XWCMD123	SHAHUL HAMEED K
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