

**Teaching and Examination Scheme**  
**Bachelor of Business Administration (BBA)**  
**Three Year Degree Course (Semester Pattern)**  
**With effect from 2016-17**

(A)

**BBA 1<sup>st</sup> Semester Examination**

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks(TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	English	BB 1	5	80	20	100	40	100	4
2	Fundamentals of Business Management	BB 2	5	80	20	100	40	100	4
3	Computer Applications for Business	BB 3	5	80	20	100	40	100	4
4	Cost Accounting	BB 4	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
  6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.

(B)

**BBA 2<sup>nd</sup> Semester Examination**

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks(TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	Principles of Marketing Management	BB 5	5	80	20	100	40	100	4
2	Financial & Management Accounting	BB 6	5	80	20	100	40	100	4
3	Micro-Economic Fundamentals	BB 7	5	80	20	100	40	100	4
4	English	BB 8	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
  6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.

(C)

### BBA 3<sup>rd</sup> Semester Examination

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks(TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	Principles of Financial Management	BB 9	5	80	20	100	40	100	4
2	Basic Statistical Techniques	BB 10	5	80	20	100	40	100	4
3	Evolution of Business & Commercial Geography	BB 11	5	80	20	100	40	100	4
4	Environment Management	BB 12	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
  6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.

(D)

### BBA 4<sup>th</sup> Semester Examination

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks(TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	Principles of Human Resource Management	BB 13	5	80	20	100	40	100	4
2	Money, Banking & Finance	BB 14	5	80	20	100	40	100	4
3	Introduction to Sociology & Psychology	BB 15	5	80	20	100	40	100	4
4	Business Legislations	BB 16	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.

3. Minimum marks for passing the subject will be 40.
4. There would be combined passing for theory and internal assessment taken together.
5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.

(E)

### BBA 5<sup>th</sup> Semester Examination

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks (TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	Entrepreneurship Development	BB 17	5	80	20	100	40	100	4
2	Principles of Operations Management	BB 18	5	80	20	100	40	100	4
3	International Business Environment	BB 19	5	80	20	100	40	100	4
4	Research Methodology	BB 20	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
  6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.

(F)

### BBA 6<sup>th</sup> Semester Examination

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks (TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	Elective Paper – 1	BBEL 1	5	80	20	100	40	100	4
2	Elective Paper – 2	BBEL 2	5	80	20	100	40	100	4
3	Project Work	BBPW	10	150	50	200	80	200	8
	<b>Total</b>		<b>20</b>	<b>310</b>	<b>90</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note :
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40 and for Project Work it will be 80.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.

#### 12. Assessment

- The final total assessment of the candidates is made in terms of an internal assessment (Sessional) and an external assessment for each course/subject taken together.
- For each paper, 20 marks will be based on internal assessment and 80

marks for semester end examination (external assessment) to be conducted by the R T M Nagpur University, unless otherwise stated.

1a	Attendance of the student during a particular semester	05 marks
1b	An assignment based on curriculum to be assessed by the teacher concerned	05 marks
1c	Subject wise class test conducted by the teacher concerned	05 marks
1d	Subject presentation/viva-voce seminar conducted during the semester	05 marks
<b>1</b>	<b>Internal assessment Total marks</b>	<b>20</b>
<b>2</b>	<b>Semester wise End Examination marks</b>	<b>80</b>
<b>Total Marks Per Course</b>		<b>100</b>

### Standard of Passing

Marks	Grade	Grade Points
80 and above	O (Outstanding)	10
70 -79	A+ (Excellent)	9
60 -69	A (Very Good)	8
55 -59	B+ (Good)	7
50 -54	B(Above Average)	6
45 -49	C (Average)	5
40 -44	P (Pass)	4
00 -39	F (Fail)	0
	AB (Absent)	0

CGPA	Grade	Division
8.5 - 10	O	Distinction (Outstanding)
7.5 - 8.4	A	Distinction
6.0 - 7.4	B	First
4.5 - 5.9	C	Second
4.0 - 4.4	D	Pass
00 - 3.9	F (Fail)	Fail

### Illustrative Question Paper for BBA Program\*

Question No.	Unit	Nature	Max. Marks
1	I	a. Long Answer Question b. Long Answer Question OR c. Long Answer Question d. Long Answer Question	8 Marks each
2	II	a. Long Answer Question b. Long Answer Question OR c. Long Answer Question d. Long Answer Question	8 Marks each
3	III	a. Long Answer Question b. Long Answer Question OR c. Long Answer Question d. Long Answer Question	8 Marks each

4	IV	a. Long Answer Question b. Long Answer Question OR c. Long Answer Question d. Long Answer Question	8 Marks each
5	I II III IV	a. Short Answer Question b. Short Answer Question c. Short Answer Question d. Short Answer Question	4 Marks each
TOTAL MARKS			80

(\* ) This pattern of question paper is not applicable for the following papers for which the questionpaper patterns are prescribed separately along with the detailed syllabus of respective subjects.

- BBA 1<sup>st</sup> Semester Examination – Cost Accounting
- BBA 1<sup>st</sup> Semester Examination – English
- BBA 2<sup>nd</sup> Semester Examination - English
- BBA 2<sup>nd</sup> Semester Examination – Financial & Management Accounting
- BBA 3<sup>rd</sup> Semester Examination – Basic Statistical Techniques

### BB 1- ENGLISH

#### QUESTION PAPER PATTERN

[Maximum  
Marks - 80

1. (A) Comprehension of Unseen Passage (**UNIT-I**)  
(Four Very Short Answer Questions based on the given Passage)  
4 X 2 Marks=  
8 Marks
- (B) Four items out of Six based on any one of the Grammar/Vocabulary items prescribed in **UNIT-I**  
4 X 1 Mark =  
4 Marks
- (C) Four items out of Six based on any one of the Grammar/Vocabulary items prescribed in **UNIT-I**  
4 X 1 Mark =  
4 Marks
2. (A) ONE out of TWO Questions from **UNIT-II** (Business Letter Writing)  
1 X 8 Marks =  
8 Marks

(B) ONE out of TWO Questions from **UNIT-II** (Business Letter Writing)

1 X 8 Marks =  
8 Marks

3. (A) ONE out of TWO Questions from **UNIT-III** (Business Manners) 1 X 8 Marks = 8 Marks

(B) ONE out of TWO Long Answer Questions (to be answered in about

150 words) based on the prescribed Lessons in **UNIT-III** from the textbook *Prism*

1 X 8 Marks = 8 Marks

4. (A) TWO Short Answer Questions (to be answered in about 75 words) out of THREE based on the Lessons Prescribed in **UNIT-III**

2 X 4 Marks =  
8 Marks

(B) ONE out of TWO Long Answer Questions (to be answered in about

150 words) based on the prescribed Lessons in **UNIT-IV** from the textbook *Prism*

1 X 8 Marks =  
8 Marks

5. (A) TWO Short Answer Questions (to be answered in about 75 words) out of THREE based on the prescribed Lessons in **UNIT-IV** from the textbook *Prism*

2 X 4 Marks =  
8 Marks

(B) FOUR Very Short Answer Questions out of SIX to be answered in one or two sentences each from the prescribed Lessons (from *Prism*) in **UNIT-III&UNIT-IV**

4 X 2 Marks =  
8 Marks

#### Question Paper Pattern for BB4 – Cost Accounting

Question No.	Unit	Nature	Max. Marks
1	I	a. Theory Question	8 Marks
		b. Theory Question	8 Marks
		OR	
		c. Numerical Question	16 Marks
2	II	a. Numerical Question	8 Marks
		b. Numerical Question	8 Marks
		OR	
		c. Numerical Question	16 Marks
3	III	a. Numerical Question	8 Marks
		b. Numerical Question	8 Marks
		OR	
		c. Numerical Question	16 Marks

4	IV	a. Numerical Question b. Numerical Question OR c. Numerical Question	8 Marks 8 Marks 16 Marks
5	I II III IV	Short Answer Theory Question Short Answer Theory Question Short Answer Theory Question Short Answer Theory Question	4 Marks each
<b>TOTAL MARKS</b>			80

**DIRECTION REGARDING CHOICE BASED CREDIT SYSTEM AND EXAMINATIONS LEADING TO THE MASTERS DEGREE OF BUSINESS ADMINISTRATION IN THE FACULTY OF COMMERCE AND MANAGEMENT, RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR.**

1. Credit System of Evaluation:
  - a. Courses offered, contact hours, credits attached and allocation of marks shall be as follows:

**Semester-I**

Course Code	Course Name	Internal / University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
1T1	Principles of Management	Uni.	30	10	40	80	20	100	4
1T2	Managerial Economics	Uni.	30	10	40	80	20	100	4
1T3	Accounting for Managers	Uni.	25	15	40	80	20	100	4
1T4	Business Legislations	Uni.	30	10	40	80	20	100	4
1T5	Business Communication and Information Systems	Uni.	30	10	40	80	20	100	4
1T6	Research Methodology and Quantitative Techniques	Uni.	25	15	40	80	20	100	4
<b>Total</b>			<b>170</b>	<b>70</b>	<b>240</b>	<b>480</b>	<b>120</b>	<b>600</b>	<b>24</b>

**Semester-II**

Course Code	Course Name	Internal / University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
2T1	Human Resource Management & Organizational Behaviour	Uni.	30	10	40	80	20	100	4

2T2	Financial Management	Uni.	25	15	40	80	20	100	4
2T3	Marketing Management	Uni.	30	10	40	80	20	100	4
2T4	Operations Management	Uni.	25	15	40	80	20	100	4
2T5	Cost Accounting	Uni.	25	15	40	80	20	100	4
2T6	Economic Environment of Business	Uni.	30	10	40	80	20	100	4
<b>Total</b>			<b>165</b>	<b>75</b>	<b>240</b>	<b>480</b>	<b>120</b>	<b>600</b>	<b>24</b>

### Semester-III

Course Code	Course Name	Internal / University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
3T1	Strategic Management	Uni.	30	10	40	80	20	100	4
3P1	Summer Internship Project Assessment	Uni.	10	30	40	00	100	100	4
3T2	Project Management OR Environment Management OR Business Management I (Only for students from other than MBA Course)	Uni.	30	10	40	80	20	100	4
3T3	Elective I – Paper 1	Uni.	30	10	40	80	20	100	4
3T4	Elective I – Paper 2	Uni.	30	10	40	80	20	100	4
3T5	Elective II – Paper 1	Uni.	30	10	40	80	20	100	4
3T6	Elective II – Paper 2	Uni.	30	10	40	80	20	100	4
<b>Total</b>			<b>190</b>	<b>90</b>	<b>280</b>	<b>480</b>	<b>220</b>	<b>700</b>	<b>28</b>

Note: One Foundation Course is to be selected by the student from 3T2 and Two Elective Groups to be selected in the manner mentioned above.

### Semester-IV

Course Code	Course Name	Internal / University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
4T1	Business Ethics & Corporate Governance	Uni.	30	10	40	80	20	100	4
4T2	Entrepreneurship Development	Uni.	30	10	40	80	20	100	4
4P1	Project Work	Uni.		40	40	150	50	200	8



4T3	International Business Management OR Agri-Business Management OR Business Management II (Only for students from other than MBA Course)	Uni.	30	10	40	80	20	100	4
4T4	Elective I – Paper 3	Uni.	30	10	40	80	20	100	4
4T5	Elective II – Paper 3	Uni.	30	10	40	80	20	100	4
<b>Total</b>			<b>150</b>	<b>90</b>	<b>240</b>	<b>550</b>	<b>150</b>	<b>700</b>	<b>28</b>

Note: One Foundation Course is to be selected by the student from MBFIV-2.

### Summary of the Total Marks and Credits

Sr. No.		Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
					Semester End Exam.	Internal Assessment	Total	
1	Semester – I	170	70	240	480	120	600	24
2	Semester – II	165	75	240	480	120	600	24
3	Semester – III	190	90	280	480	220	700	28
4	Semester – IV	150	90	240	550	150	700	28
<b>Total</b>		<b>675</b>	<b>325</b>	<b>1000</b>	<b>1990</b>	<b>610</b>	<b>2600</b>	<b>104</b>

#### The allocation of Internal Assessment Marks

1a	Attendance of the student during a particular semester	05 marks
1b	An assignment based on curriculum to be assessed by the teacher concerned	05 marks
1c	Subject wise class test conducted by the teacher concerned	05 marks
1d	Subject presentation/viva-voce seminar conducted during the semester	05 marks
<b>1</b>	<b>Internal assessment Total marks</b>	<b>20</b>
<b>2</b>	<b>Semester wise End Examination marks</b>	<b>80</b>
<b>Total Marks Per Course</b>		<b>100</b>

Marks	Grade	Grade Points
85 and Above	O	10
84-75	A	9
74-65	B	8
64-60	C	7
59-55	D	6
54-50	E	5
49 and Below	F (Fail)	0

Conversion of CGPA into Grades and Division shall be as follows:

CGPA	Grade	Division
9.0-10	O	Distinction
8.0-8.9	A	Distinction
7.0-7.9	B	Distinction
6.0-6.9	C	First
5.5-5.9	D	Second
5.0-5.4	E	Second
00-4.4	F (Fail)	Fail

**Project Work:** Project work will be compulsory for each student appearing at the semester- IV (M.B.A) Examination.

(i) Project shall carry 200 marks as follows-

Head of Passing	Marks
Project Report Evaluation by External Examiner	100
Seminar and open defense evaluation by External Examiner	50
Seminar and open defense by Internal External Examiner	50
<b>TOTAL</b>	<b>200</b>

ILLUSTRATIVE PATTERN OF QUESTION PAPER

Q.1 (A)..... based on unit 1

OR

Q.1(B)..... based on unit 1

Q.2(A)..... based on unit 2

OR

Q.2(B)..... based on unit 2

Q.3(A)..... based on unit 3

OR

Q.3(B)..... based on unit 3

Q.4(A)..... based on unit 4

OR

Q.4(B)..... based on unit 4

Q.5(a)..... based on unit 1

Q.5(b)..... based on unit 2

Q.5(c)..... based on unit 3

Q.5(d)..... based on unit 4



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TIME TABLE OF BBA -I YEAR (SEM-I) & BBA-II YEAR (SEM III)

BBA-I YEAR (SEM-I)			
Day	Date	Time	Subject
MONDAY	14-10-2019	11 a.m. - 2 p.m.	English
TUESDAY	15-10-2019	11 a.m. - 2 p.m.	Fundamentals of Business Management.
WEDNESDAY	16-10-2019	11 a.m. - 2 p.m.	Comp. Application For Business.
THURSDAY	17-10-2019	11 a.m. - 2 p.m.	Cost Accounting

BBA-II YEAR (SEM-III)			
Day	Date	Time	Subject
MONDAY	14-10-2019	11 a.m. - 2 p.m.	Principals of financial Management.
TUESDAY	15-10-2019	11 a.m. - 2 p.m.	Basic statistical Technique.
WEDNESDAY	16-10-2019	11 a.m. - 2 p.m.	Evolution of Business & Commercial Geography.
THURSDAY	17-10-2019	11 a.m. - 2 p.m.	Environment Management.

**Note:-**

1. No Re-exams for Absentees.
2. Late coming is not strictly allowed during exam period.
3. I-card and college uniform is mandatory for examinee.

Wardha.

Date:- 07-10-2019



Principal

(Dr. Dinesh Mirkute)  
Officiating Principal  
Raibai Agnihotri Institute  
of Computer & Information  
Technology, WARDHA



Jai Mahakali Shishan Sanstha's  
Ranibai Agnihotri Institute of computer Science & Information Technology

Sessional Examination 2019-20

Invigilators Schedule

Sr. No	Exam	Date	Time	Invigilators name	Signature
1	English, PFM	14-10-2019	11 a.m.-2.p.m.	Prof. Harshit Bhurse	
2	FBM,BST	15-10-2019	11 a.m.-2.p.m.	Dr. Shraddha Wani	
3	CAB,EB&CG	16-10-2019	11 a.m.-2.p.m.	Dr. Smita Kalokar	
4	Cost A/C,EM	17-10-2019	11 a.m.-2.p.m.	Dr. Dinesh Mirkute	

Wardha.

Date:- 11-10-2019



Principal  
Officiating Principal  
(Dr. Dinesh Mirkute)  
Ranibai Agnihotri Institute  
of Computer & Information  
Technology, WARDHA



Jaimahakali Shishan Sanstha's  
Ranibai Agnihotri Institute of computer & Information Technology

Sessional Examination -Attendance Sheet 2019-20  
BBA 1-Year( SEM-I)

Date:-		14-10-2019	15-10-2019	16-10-2019	17-10-2019
No	Name of Student	Present	Absent	Present	Absent
1	Ku Sakshi S. Chaudari	Sakshi	Sakshi	Sakshi	Sakshi
2	Ku Pooa A. Dhonge	AB	Dhonge	Dhonge	Dhonge
3	Ku Nandita J. Sahu	Sahu	Sahu	- AB -	AB
4	Mr Chetan S. Dhumne	AB	AB	- AB -	AB
5	Mr Aniket P. Turankar	Turankar	AB	- AB -	AB
6	Ku Isha V. Arapure	AB	AB	AB	AB
7	Ku Reshma S. Karne	Reshma	Reshma	Reshma	Reshma
8	Mr Vaibhav S. Hulke	AB	AB	- AB -	AB
9	Mr. Rahul R. Kinhekar	AB	AB	- AB -	AB
10	Ku. Vaishnavi M. Mate	Mate	Mate	Mate	Mate
11	Ku Kalpana D. Bhagwat	AB	Bhagwat	Bhagwat	Bhagwat
12	Mr. Ankit D. Charde	Charde	Charde	- AB -	AB
13	Mr Mangesh S. Kalode	Kalode	AB	- AB -	AB
14	Mr. Rahul S. Bajipay	AB	AB	- AB -	AB
15	Mr. Adesh S. Shirangwar	Shirangwar	Shirangwar	- AB -	AB
16	Ku Nikita P. Sartimeshran	Nikita	Nikita	Nikita	Nikita
Total No. of Present Students →		10	10	07	07
Total No. of Absent Students →		5	06	09	09
Inviplators Signature →		M. S.	Sahu	Shirangwar	Shirangwar

(Dr. Dinesh Mirkute)  
Principal  
Ranibai Agnihotri Institute of Computer & Information Technology  
Pune



Jaimahakali Shishan Sanstha's  
Ranibai Agnihotri Institute of computer & Information Technology

Sessional Examination - Attendance Sheet 2019-20  
BBA II-Year (SEM-III)

Sl. No.	Name of Student	Date:-				Remarks
		14-10-2019	15-10-2019	16-10-2019	17-10-2019	
1	Mr. Vaibav S. Ahtankar	Ab	Ab	Ab	Ab	
2	Ku. Arifadha V. Mandaokar	Ab	Ab	Ab	Ab	
3	Ku. Guhjan R. Bhise	Ab	Ab	Ab	Ab	
4	Mr. Shubham S. Shende	Ab	Ab	Ab	Ab	
5	Ku. Mrunali R. Madankar	Ab	Ab	Ab	Ab	
6	Ku. Sharvari k. Dhole	Ab	Ab	Ab	Ab	
7	Mr. Sanket A. Aage	Ab	Ab	-AB-	AB	
8	Ku. Kashish D. Shukla	Ab	Ab	-AB-	AB	
Total No. of Present Students →		3	05	06	06	
Total No. of Absent Students →		5	03	02	02	
Invigilators Signature →		[Signature]	[Signature]	[Signature]	[Signature]	

[Signature]  
Principal

(Dr. Dinesh Mirkute)

Head of Institute  
at Ranibai Agnihotri Institute of Computer & Information Technology  
Fardapur, Dist. Solapur



Jaimahakali shishan Sanstha's  
Ranibai Agnihotri Institute of computer Science & Information Technology  
Sessional Examination 2019-20

Marksheet

Class:- BBA I<sup>st</sup>yr (sem-I)

Subject:- English

Roll No.	Marks	Roll No.	Marks
1	28	11	AB
2	AB	12	38
3	52	13	23
4	AB	14	AB
5	60	15	47
6	28	16	32
7	45	17	-
8	AB		
9	AB		
10	44		

Total Students:- 16

Number of Student pass:- 09

Absent Students:- 06

Number of Student Fail:- 01

Present Students:- 10

Pass Percentage:- 90%

Name of Examiner:-

Dr. Shradha M Wani

Signature of Examiner:-



Jaimahakali shishan Sanstha's  
Ranibai Agnihotri Institute of computer Science & Information Technology  
Sessional Examination 2019-20  
Marksheet

Class:- B.B.A 1<sup>st</sup> (I sem)

Subject:- Fundamentals of Business  
management.

Roll No.	Marks	Roll No.	Marks
1	07	11	01
2	05	12	00
3	10	13	
4		14	
5		15	00
6	07	16	08
7	05	17	
8			
9			
10	09		

Total Students:- 17

Number of Student pass:- 0

Absent Students:- 03

Number of Student Fail:- -

Present Students:- 10

Pass Percentage:- -0-

Name of Examiner:-

Signature of Examiner:-

Dr. Smita Kalala  
Dr. Smita Kalala





~~ETUW~~

**Jaimahakali shishan Sanstha's**  
**Ranibai Agnihotri Institute of computer Science & Information Technology**  
**Sessional Examination 2019-20**  
**Marksheet**

Class:- **B.B.A-I Sem I**

Subject:- **CAB C.**

Roll No.	Marks	Roll No.	Marks
1	09	11	10
2	05	12	AB
3	AB	13	AB
4	AB	14	AB
5	AB	15	AB
6	05	16	09
7	08	17	-
8	AB		
9	AB		
10	14		

Total Students:- 07

Number of Student pass:- 6/7

Absent Students:- 10

Number of Student Fail:- 1/07

Present Students:- 07

Pass Percentage:- 85.71

Name of Examiner:- Dr. Dinesh Mishra

[Signature]  
Signature of Examiner:-



Jaimahakali shishan Sanstha's  
Ranibai Agnihotri Institute of computer Science & Information Technology

Sessional Examination 2019-20

Marksheet

Class:- CGA II<sup>st</sup>

Subject:- Financial management

Roll No.	Marks	Roll No.	Marks
1	AD	11	
2	04	12	
3	11	13	
4	Ab	14	
5	Ab	15	
6	15	16	
7	Ab	17	
8	Ab		
9	Ab		
10			

Total Students:- 08

Number of Student pass:- 0

Absent Students:- 05

Number of Student Fail:- 3

Present Students:- 03

Pass Percentage:- 0

Name of Examiner:- Harshit M. Bhuse

Signature of Examiner:-

UNIVERSITY OF BUSINESS ADMINISTRATION (U.B.A.) COMBINED (C.B.C.S.) EXAMINATION

**FUNDAMENTALS OF BUSINESS MANAGEMENT**

**Compulsory Paper—2**

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) ALL questions carry equal marks.  
(2) All five questions are compulsory.

1. (a) Discuss the role and functions of a manager in modern context. 8  
(b) Evaluate the contribution of Mary Follet in development of management thought. 8

**OR**

- (c) Explain the purpose and scope of management in detail. Elucidate is Management a science or an Art. 8  
(d) Write short notes on : 8  
(i) Hawthorne Experiments  
(ii) Contingency Approach.

2. (a) Explain management as a profession. Differentiate between management and administration. 8  
(b) Explain professionalism of management in India. 8

**OR**

- (c) Explain the skills and role of a manager. 8  
(d) Describe the different methods of managerial skills development. 8

3. (a) Define planning. Explain the nature and types of plan. 8  
(b) What do you mean by planning ? Explain the importance and limitations of planning. 8

**OR**

- (c) Discuss the characteristics and objectives of a good plan. 8  
(d) Describe in detail the stages involved in planning. 8



## RASHTRASANTUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

## Internal Report

Exam Name: FIFTH SEMESTER BACHELOR OF BUSINESS ADMINISTRATION (BBA) cbs

Subject Name: RESEARCH METHODOLOGY

College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY

Session: Winter-2020

Sr	Seat No	Enrollment	Student Name	Marks / Max-20
1	223393	20193081913814	ANURADHA VELASRAD MANDAKAR	18
2	223395	20193081913815	GUNGAN KESHAVRAD BHISE	19
3	223397	20193081913817	KRUNALI RAHIDAS MADANKAR	19
4	223399	20193081913818	SHARVARI KAILASH DHOLE	17
5	223401	201930819138129	SHUBHAM SUNIL SHENDE	17
6	223403	20193081913831	VAIBHAV SANJAY ASHTANKAR	17

Signature Of Examiner

Print Date &amp; Time: 05-04-2021 01:02 PM

College Use Only

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 Ranibai Agnihotri Institute  
 of Computer & Information  
 Technology, WARDNA.



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

<https://www.nagpur.university>

**Internal Report**

**Exam Name:** FIFTH SEMESTER BACHELOR OF BUSINESS ADMINISTRATION (BBA) cbs

**Subject Name:** PRINCIPLES OF OPERATIONS MANAGEMENT

**College Name:** (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY

**Session:** Winter-2020

Sr	Seat No	Enrollment	Student Name	Marks / Max-20
1	223393	20193081913814	ANURADHA VILASSAD HANAOOKAR	18
2	223395	20193081913815	GUNJAN KESHAVRAO BHESE	19
3	223397	20193081913817	MRUNALI RANDAS HADANKAR	19
4	223399	20193081913818	SHARVARI KAILASH DHOLE	18
5	223401	201930819138129	SHUBHAM SUREL SHENDE	18
6	223403	20193081913831	VAIBHAV SANJAY ASHTANKAR	18

Signature Of Examiner

Print Date & Time: 05-04-2021 01:00 PM

College Use Only

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Ranibai Agnihotri Institute  
of Computer & Information  
Technology, **WARDHA,**



# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

## Internal Report

Exam Name: THIRD SEMESTER BACHELOR OF BUSINESS ADMINISTRATION (BBA) cbs

Subject Name: PRINCIPLES OF FINANCIAL MANAGEMENT

College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY

Session: Winter-2020

Slr	Seat No	Enrollment	Student Name	Marks / Max-20
1	229900	20193081911821	AKASH SARINATH BURBURE	18
2	229901	20203066721068	ANIKET PUNDLIK TURANKAR	18
3	229902	20203066721069	ANKIT DIWYANESHWARRAO CHARADE	20
4	229903	20203066721062	KALPANA PREMDAS BHAGWATE	AA
5	229904	20203066721071	MANGESH SANJAY KALOGE	18
6	229905	20193081501729	NANDITA JITENDRA SAHU	18
7	229906	20203066721063	NEKITA PRALHAD SATIMESHAM	19
8	229907	20203066721072	RAHUL RAJU KINHEKAR	18
9	229908	2015016600121342	RAHUL SIDHVINAYAK BAJPAYEE	18
10	229909	20173083811193	RESHMA SANTOSHRAO KARNE	18
11	229910	20203066721065	SAKSHI SURESH CHAUDHARI	19
12	229911	20193081911828	SANKET ANANTRAO AAGE	18
13	229912	20193081911830	SUPHIT KHUSHALRAO TELANG	18
14	229913	20203066721066	VAISHNAVI MAHESH MATE	19
15	229914	20203066721066	ISHA VILAS ARJAPURE	20

Signature Of Examiner

*Sreali*

Print Date & Time: 06-04-2021 11:36 AM

Only

*Isneel*  
Officiating Principal  
Ranibai Agnihotri Institute  
of Computer & Information  
Technology, WABDHA



**Internal Marks Report**

College Name: ( 667 ) RAMJI MAHARAJ INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY  
Exam Name: FOURTH SEMESTER BACHELOR OF BUSINESS ADMINISTRATION (BBA) CBS  
Session : Summer-2022

Sr.	Seat No	Enrollment	Student Name	Sub 1		Sub 2		Sub 3		Sub 4	
				Max 20	0	Max 20	0	Max 20	0	Max 20	0
				Sub 11	Sub 12	Sub 21	Sub 22	Sub 31	Sub 32	Sub 41	Sub 42
1	343307	2012081514074	ANIKET GAJAMAN HOLE	PHSEM 18	MDF 18	1- SP	1- SP	1- 19	1- 19	BL 18	BL 18
2	343308	202120667192113	SANIKET RICHARDAO YADVA	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
3	343309	202120667192114	SANIKET SHANTIBHAI MOON	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
4	343310	20172006309481	ARINDA NAVEEN NISHRA	PHSEM 20	MDF 20	1- SP	1- SP	1- 19	1- 19	BL 18	BL 18
5	343311	202120667192209	GANINI HADHUKAR MUNESHWAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
6	343312	202120667192210	SAURABHRAJ SURESHRAO SHINDHE	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
7	343313	Pre-202104	MAHARAJGAJ VINOD KALHARAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
8	343314	202120667192115	KUNJAN SANTOSH SOLANKAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 17	BL 17
9	343315	20172081519850	PRITHA VIJAY KHEDKAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 17	BL 17
10	343316	202120667192113	SANIKETA MURDARA USHADE	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
11	343317	202120667192112	SHREYA SANDEEP TALWARAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18
12	343318	20181061910017	SHIRAJ GAUTAM KAMBLE	PHSEM 20	MDF 20	1- SP	1- SP	1- 20	1- 20	BL 19	BL 19
13	343319	202120667192117	TANISH ASHOK SOLANKAR	PHSEM 18	MDF 18	1- SP	1- SP	1- 18	1- 18	BL 18	BL 18

Exam Details: 1 (PHSEM) PRINCIPLES OF HUMAN RESOURCE MANAGEMENT 2 (MDF) MONEY, BANKING & FINANCE 3 (1-SP) INTRODUCTION TO SOCIOLOGY & PSYCHOLOGY 4 (BL)

Exam Session: Summer-2022  
Exam Name: BBA CBS  
Exam Type: Internal

Signature Of Examiners:

Prof. Anurag Bawane

Prof. Ankita Bawane

Dr. Smita Kulkarni

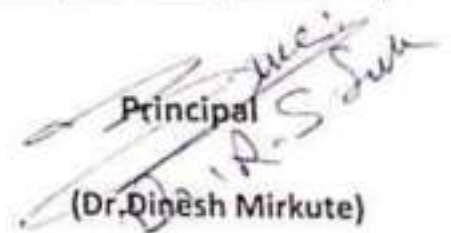
Prof. Anurag Bawane

**Jaimahakali Shishan Sanstha's**  
**Ranibai Agnihotri Institute of computer & Information Technology**  
**Term -I Examination -Attendance Sheet 2022-2023**  
**BBA II-Year( SEM-III)**  
**Marklist**

S.No	Name of Student	Roll No	PFM(80)	BST(80)	EBCG(80)	EM(80)
1	Amruta Manish Pawar	555001	20	23	28	23
2	Chhaya Tayade	555002	31	28	58	48
3	Deep Upase	555003	31	58	24	35
4	Mukul Shrikant Deollikar	555004	20	22	24	22
5	Om Talokar	555005	29	27	20	22
6	Riya Prakash Kapatkar	555006	25	33	29	40
7	Sonu Rupsingh Rathod	555007	58	52	42	37

No.of Pass Students:-07

No.of Fail Students:-00

  
Principal  
(Dr. Dinesh Mirkute)

Officiating Principal  
Ranibai Agnihotri Institute  
of Computer & Information  
Technology, WARDHA





**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

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**Internal Marks Report**

College Name: ( 667 ) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY  
Exam Name: THIRD SEMESTER BACHELOR OF BUSINESS ADMINISTRATION (BBA) (CBS)  
Session : Winter-2019

Sr	Seat No	Enrollment	Student Name	Sub 1		Sub 2		Sub 3		Sub 4	
				Max	TI	Max	TI	Max	TI	Max	TI
1	190270	20193081913814	ANURADHA VILASRAO MAHODKAR	PFM	20	BST	20	EBCG	20	E/M	20
2	190271	20193081913815	GUNJAN KESHAVRAO BHISE	PFM	20	BST	20	EBCG	20	E/M	20
3	190272	20193081913816	KASHISH DIPAK SHUKLA	PFM	18	BST	18	EBCG	18	E/M	18
4	190273	20193081913817	MRUNALI RAHODAS MADANKAR	PFM	20	BST	20	EBCG	20	E/M	20
5	190274	20193081913818	SHARVARI KAILASH DHOLE	PFM	20	BST	20	EBCG	20	E/M	20
6	190275	20193081913819	CHUBHAM SUNIL SHENDE	PFM	20	BST	20	EBCG	20	E/M	20
7	190276	20193081913822	VAIBHAV SANJAY AGHTANKAR	PFM	20	BST	20	EBCG	20	E/M	20

Subject Details: 1 -(PFM) PRINCIPLES OF FINANCIAL MANAGEMENT, 2 -(BST) BASIC STATISTICAL TECHNIQUES, 3 -(EBCG) EVOLUTION OF BUSINESS & COMMERCIAL GEOGRAPHY, 4 -(E/M) ENVIRONMENT MANAGEMENT.

TI => Theory Internal, FI => Practical Internal

Signature Of Examiners:

*Prof. Harshit Bhurse*  
Prof. Harshit Bhurse

*Prof. Harshit Bhurse*  
Prof. Harshit Bhurse

*Dr. Smita Kalokar*  
Dr. Smita Kalokar

*DR. Shraddha Wani*  
DR. Shraddha Wani

Print Date & Time: 23-10-2019 11:42 AM

*Officially Principled*  
Ranibai Agnihotri Institute  
of Computer Science & Information  
Technology, Nagpur, India

RAICSIT College

BBA -I Year(SEM-I) MCQS Test

Time: 15 min.

Subject:- English

Marks: 20

Q1) I..... tennis every Sunday morning.

1. Playing    2. Play Am    3. playing    4. Am play

Q2) Don't make so much noise. Noriko ..... to study for her ESL test!

- 1.Try    2.Tries    3.Tried    4.Is trying

Q3) Jun-Sik ..... his teeth before breakfast every morning.

1. Will cleaned    2. Is cleaning    3.Cleans    4.clean

Q4) Sorry, she can't come to the phone. She ..... a bath!

1. Is having    2. Having    3. Have    4.Has

Q5) You must be back \_\_\_ four o'clock

- 1.In    2.By    3.For    4.To

Q6) Workout is necessary \_\_\_\_\_ health

- 1.In    2. For    3. By    4.To

Q7) Women is looking----- her diamond ring.

1. To    2.In    3.Inside    4.on

Q8) Women is holding a cup of tea -----her hand.

1. In    2.By    3.On    4. To

Q9)What are you doing ----- coming Sunday?

1. To    2.On    3. In    4. From

Q10) I want to buy ..... laptop computer next week.

Dr.Shraddha Wani

12. Teaching and Examination Scheme for examinees of Bachelor of Business Administration 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> Semester Examinations shall be as mentioned below:

**Teaching and Examination Scheme**  
**Bachelor of Business Administration (BBA)**  
**Three Year Degree Course (Semester Pattern)**  
**With effect from 2016-17**

(A)

**BBA 1<sup>st</sup> Semester Examination**

Sr. No.	Subjects	Course Code	Teaching Scheme	Examination Scheme				Total Marks	Credits
			Total Periods per Week	Max. Marks (TH)	Max. Marks (IM)	Total Marks	Min. Passing Marks		
1	English	1T1	5	80	20	100	40	100	4
2	Fundamentals of Business Management	1T2	5	80	20	100	40	100	4
3	Computer Applications for Business	1T3	5	80	20	100	40	100	4
4	Cost Accounting	1T4	5	80	20	100	40	100	4
	<b>Total</b>		<b>20</b>	<b>320</b>	<b>80</b>	<b>400</b>	<b>160</b>	<b>400</b>	<b>16</b>

- Note:
1. Duration of each theory class should be minimum 48 minutes.
  2. TH = Theory, IM = Internal Marks.
  3. Minimum marks for passing the subject will be 40.
  4. There would be combined passing for theory and internal assessment taken together.
  5. One credit is equivalent to one hour of Teaching, that is to say,  
 For each subject, 48 Minutes \* 5 = 240 Minutes = 4 Hours i.e. 4 Credits.
  6. Each semester will consist of 15 to 18 weeks of Academic Work equivalent to 90 actual teaching days.





Q 6) The cognitive element of a culture is formed by

- A)  Art  
 B)  Technology  
 C)  Status  
 D)  Values

Q 7) denotes the function of the actor for the social system

- A)  Satus  
 B)  Action  
 C)  Interaction  
 D)  Role

Q 8) Name an unorganized group.

- A)  Party  
 B)  Family  
 C)  Peers  
 D)  Crowd

Q 9) Name the expected behaviour of an individual occupying a particular social position.

- A)  Customs  
 B)  Rituals  
 C)  Celebration  
 D)  Role

Q 10) tell individuals how to behave in given situations.

- A)  Role  
 B)  Norm  
 C)  Customs  
 D)  None of these

Q 11) Which are the words make the term sociology

- A)  Society and community  
 B)  Society and Science  
 C)  Socius and Logos  
 D)  Science and Logos

Q 12) What is the meaning of logos in the term sociology?

- A)  Companion  
 B)  Social  
 C)  Science/study  
 D)  Society

Q 13) Psychology is a study of-----

- A)  Society  
 B)  Human behaviour  
 C)  Social behaviour  
 D)  Technology

Q 14) Identify the characteristic which is true about psychology-----

- A)  Study of human behaviour  
 B)  Studies of individual differences  
 C)  Diagnose therapy  
 D)  All of the Above

Q 15) Psychology is not applicable in which field-----

- A)  Health  
 B)  Educa  
 C)  Law

--	--	--	--	--	--	--	--	--	--

Industrial-Organisational psychology focuses on human behavior in the workplace it comes under which application of psychology?

- Health  
 Business  
 Law  
 Entertainment

What is considered as "threads of life?"

- Genes  
 Chromosomes  
 Zygote  
 Egg-cell

Identify who are the bearers of heredity

- Genes  
 Chromosomes  
 Zygote  
 Egg-cell

Contemporary perspective of Psychology which deals with biological structures and phenomena is-----

- Cognitive perspective  
 Humanistic perspective  
 Psychoanalytic perspective  
 Biological perspective

In Freud's theory of personality-----

- The id operates by secondary process  
 The ego operates by primary process thinking  
 The superego obeys the pleasure principle  
 The ego obeys the reality principle

What people are they who have lost touch with reality.

- Manic  
 Psychotic  
 Neurotic  
 Psychopathic

Human CNS is composed of-----

- Somatic nervous system  
 Autonomic nervous system  
 Brain and spinal cord  
 All of the Above

The link between the nervous system and the endocrine system is due to the presence of-----

- corpus callosum  
 cerebellum  
 reticular formation  
 hypothalamus

Contemporary perspective of Psychology which deals with biological structures and phenomena is



# Ranibai Agnihotri Institute of Computer Science & Information Technology

Isha v. Arjapure  
Session - 2019 - 2020

Examination :

Roll No. : 06  
Class : BBA 1<sup>st</sup> Year  
Invigilator's Sign : *[Signature]*

Date : 17/10/2019  
Total Marks :  
Examiner's Sign :

Subject : Cost Accounting  
Marks Obtained :  
Cross Checker :

↓ Start Writing from here ↓

*[Signature]*

3. A)

Standing fixed cost	12000	0.1
Road licence for the year 1000 X 12	12000	0.1
Insurance charges per year 200 X 12	2400	0.2
Garage rent per year 2000 X 12	24000	1.2
Value of vehicle	30,000	0.5
<b>Total</b>	<b>58,800</b>	<b>0.4</b>
Running charges	400	0.03
Driver wages per month	1.6	0.00413
Cost of petrol per liter	401.6	0.03413

*Arjapure*



## Mark Sheet

Sr. No.	Students Name	English & Business Communication-1	MS-Office IT	Fundamentals of Computers	Professional Ethics & Human Values	Tably 1 (ERP 9)	Maximum Marks	Marks Obtained	% Paper	Fine/
		17/10/2022 Student Marks	18/10/2022 Student Marks	19/10/2022 Student Marks	20/10/2022 Student Marks	21/10/2022 Student Marks				
1	Deepak Vishnu Thakare	7	1	7	0	0	180	15	8	0
2	Dipika Bhaulal Meshrami	20	21	19	19	20	180	99	55	0
3	Himani Kishor Kathane	22	24	25	10	21	180	102	57	0
4	Hussain Farooque Mohammad	24	5	8	0	9	180	46	26	0
5	Kartik Subhash Gurnule	8	6	7	1	2	180	24	13	0
6	Mahesh Walimik Choudhari	31	25	21	10	21	180	108	60	0
7	Payal Ramesh Thakur	Absent	Absent	Absent	Absent	Absent	0	0	0	250
8	Prachi Vilasrao Galbhaye	Absent	Absent	Absent	Absent	Absent	0	0	0	250
9	Pratik Deepak Mahendra	32	32	32	15	37	180	148	82	0
10	Saleha Yusuf Shaikh	17	10	13	15	20	180	75	42	0
11	Tauheed Mohammed Aqeel	14	7	8	4	3	180	36	20	0
12	Yogesh Anuprakash Gupta	15	6	9	4	14	180	48	27	0

Highest Rank	Percentage
1st Rank : Pratik Deepak Mahendra	82%
2nd Rank : Mahek Walmik Choudhari	60%
3rd Rank : Himani Kishor Kathane	57%

**Note:** Those students who are absent in sessional exam have to pay 50 rs per paper.





17	Atiyar Vinod Mankar	Atharav V. Menker	Atharav V. Menker	Atharav V. Menker	Atharav V. Menker	Atharav V. Menker
18	Ayush Pankaj Sawalkar	<del>Dr. Sawalkar</del>	<del>Dr. Sawalkar</del>	<del>Dr. Sawalkar</del>	<del>Dr. Sawalkar</del>	<del>Dr. Sawalkar</del>
19	Badal Vijayrao Gawande	<del>Dr. Gawande</del>	<del>Dr. Gawande</del>	<del>Dr. Gawande</del>	<del>Dr. Gawande</del>	<del>Dr. Gawande</del>
20	Bhavesn Sanjay Gayakwad	<del>Dr. Kruad</del>	<del>Dr. Kruad</del>	<del>Dr. Kruad</del>	<del>Dr. Kruad</del>	<del>Dr. Kruad</del>
21	Chittaranjan Jageshwar Gaorkar	Gaukhar	Gaukhar	Gaukhar	Gaukhar	Gaukhar
22	Devharshi Nivruti Choudhari	<del>Dr. Chudhari</del>	<del>Dr. Chudhari</del>	<del>Dr. Chudhari</del>	<del>Dr. Chudhari</del>	<del>Dr. Chudhari</del>
23	Dhananjay Rajesh Murne	<del>Dr. Murne</del>	<del>Dr. Murne</del>	<del>Dr. Murne</del>	<del>Dr. Murne</del>	<del>Dr. Murne</del>
24	Gaurav Gajanan Chide	<del>Dr. Chide</del>	<del>Dr. Chide</del>	<del>Dr. Chide</del>	<del>Dr. Chide</del>	<del>Dr. Chide</del>
25	Gaurav Narendra Mahalkar	<del>Dr. Mahalkar</del>	<del>Dr. Mahalkar</del>	<del>Dr. Mahalkar</del>	<del>Dr. Mahalkar</del>	<del>Dr. Mahalkar</del>
26	Gauri Dilip Shelkar	<del>Dr. Shelkar</del>	<del>Dr. Shelkar</del>	<del>Dr. Shelkar</del>	<del>Dr. Shelkar</del>	<del>Dr. Shelkar</del>
27	Gauri Gajanan Sayankar	<del>Dr. Sayankar</del>	<del>Dr. Sayankar</del>	<del>Dr. Sayankar</del>	<del>Dr. Sayankar</del>	<del>Dr. Sayankar</del>
28	Gopal Santosrao Ghuge	Ghughe.	Ghughe	Ghughe	Ghughe	Ghughe
29	Harsha Bhaskar Dubey	<del>Dr. Dubey</del>	<del>Dr. Dubey</del>	<del>Dr. Dubey</del>	<del>Dr. Dubey</del>	<del>Dr. Dubey</del>
30	Harsha Lakshman Girde	Harsheha	Harsheha	Harsheha	Harsheha	Absent
31	Jitesh Sanjay parate	Jitesh s parate	Jitesh s parate	Jitesh s parate	Jitesh s parate	Jitesh s parate
32	Karan Kalas Ghuge	<del>Dr. Ghuge</del>	<del>Dr. Ghuge</del>	<del>Dr. Ghuge</del>	<del>Dr. Ghuge</del>	<del>Dr. Ghuge</del>
33	Kashish Suthakar Tamgadde	<del>Dr. Suthakar</del>	<del>Dr. Suthakar</del>	<del>Dr. Suthakar</del>	<del>Dr. Suthakar</del>	<del>Dr. Suthakar</del>
34	Komal Purushotam Lohiya	Komal Lohiya	Komal Lohiya	Komal Lohiya	Komal Lohiya	Komal Lohiya
35	Krutika Dasthath Rudhaware	<del>Dr. Rudhaware</del>	<del>Dr. Rudhaware</del>	<del>Dr. Rudhaware</del>	<del>Dr. Rudhaware</del>	<del>Dr. Rudhaware</del>
36	Kunal Anil Ingole	<del>Dr. Ingole</del>	<del>Dr. Ingole</del>	<del>Dr. Ingole</del>	<del>Dr. Ingole</del>	<del>Dr. Ingole</del>



RAVIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY, WARDHA  
 Sessional Exam 2022-23  
 BCA II

Signature Sheet

Sr. No.	Students Name	Visual Basic Programming	Data Base Management System	Data Structures	Operations Research-I	Web Technology-I	Digital Electronics-I
		17/10/2022	18/10/2022	19/10/2022	20/10/2022	21/10/2022	22/10/2022
1	ADITYA JAMPTALWAR	Absent	Absent	Absent	Absent+	Absent	Absent
2	AKASHA KOPARE	Present	Present	Present	Present	Present	Present
3	AKASH THAKRE	Absent	Absent	Absent	Absent	Absent	Absent
4	ANUP NATTHUJI PATIL	Present	Present	Present	Present	Present	Present
5	ANURAG KAPSE	Present	Present	Present	Present	Present	Present
6	BHAGYASHRI RAMBHAU GEDAM	B. Gedam	B. Gedam	B. Gedam	B. Gedam	B. Gedam	B. Gedam
7	BHUSHAN CHAVARE	B. P. Chavare	B. P. Chavare	B. P. Chavare	B. P. Chavare	B. P. Chavare	B. P. Chavare
8	DHARATI RAVINDRA BALPANDE	B. Balpande	B. Balpande	B. Balpande	B. Balpande	B. Balpande	B. P. Chavare
9	DNYANDEEP PRAVIN MUSALE	Absent	Absent	Absent+	B. Balpande	B. Balpande	B. Balpande
10	KARTIK RAJENDRA DHANODE	B. Dhankole	B. Dhankole	B. Dhankole	Absent	Absent	Absent
11	MADHUR MAHENDRA SONDHE	Present	Present	Present	Present	Present	Present
12	NAMAVI M CHANDANIKAR	Present	Present	Absent+	Absent+	Absent	Absent+
13	OMPRANASH RAJENDRA KADUKAR	Present	Present	Present	Present	Present	Present
14	PRAVVAL SAJU ULMUSE	Present	Present	Present	Present	Present	Present
15	PRAVIT ASHOKRAO NARANJIE	Absent	Absent	Absent+	Absent+	Absent	Absent



RAN SRI ANANDHINI INSTITUTE OF COMMERCE STUDIES & MANAGEMENT TECHNOLOGY, MADRAS  
 Session Exam 2022  
 Page 1

Mark Sheet

Sl. No.	Student Name	Computer Fundamentals (17/12/2022)		Computer Networking (18/12/2022)		Database Management (19/12/2022)		Operating System (20/12/2022)		Office Application (21/12/2022)		Maximum Marks	Marks Obtained	%	Pass/Fail
		Subject Marks	Percentage	Subject Marks	Percentage	Subject Marks	Percentage	Subject Marks	Percentage	Subject Marks	Percentage				
1	Arjun Raju Suresh	10.5	10	15	22	20	18	150	95.5	64	0				
2	Arjun Raju Suresh	2	3	2	9	14	11.5	150	47.5	32	0				
3	Arjun Raju Suresh	0	0	1	2	2	2	150	7	5	0				
4	Arjun Raju Suresh	1	0	0	5	3	1	150	11	7	0				
5	Arjun Raju Suresh	ASSENT	ASSENT	ASSENT	ASSENT	ASSENT	ASSENT	150	0	0	100				
6	Arjun Raju Suresh	0	3	3	4	16	6	150	30	20	0				
7	Arjun Raju Suresh	3	3	7	5	9	7	150	31	22	0				
8	Arjun Raju Suresh	3	5	5	3	ASSENT	ASSENT	150	17	11	100				
9	Arjun Raju Suresh	0	0	4	2	3	4	150	13	9	0				
10	Arjun Raju Suresh	0	2	5	12	6	4	150	22	19	0				
11	Arjun Raju Suresh	5	4	3	11	15	12	150	50	33	0				
12	Arjun Raju Suresh	1	ASSENT	1	0	2	1	150	7	5	50				
13	Arjun Raju Suresh	2	0	1	0	4	4	150	20	13	0				
14	Arjun Raju Suresh	0	0	1	5	4	9	150	21	14	0				
15	Arjun Raju Suresh	0	1	5	7	9	7	150	25	17	0				





17	Albina Vinod Markar	3	3	17	8	5	0	150	36	24	0
18	Ayush Parulj Sawarkar	0	0	5	2	0	0	150	7	5	0
19	Bidal Vijayrao Gawande	12	9	4	20	9	7	150	61	41	0
20	Eshwath Sanjay	0	1	2	8	3	1.5	150	15.5	10	0
21	Ganeshwade Chetanrajan Jagdishwar Gaukar	1	3	3	4	14	1	150	26	17	0
22	Devharsh Nirvuti Choudhari	4.5	1	2	18	9	8	150	42.5	28	0
23	Dhananjay Rajesh Mune	0	0	0	5	0	0	150	5	3	0
24	Gaurav Gajanan Chide	4.5	0	6	8	9	2	150	29.5	20	0
25	Gaurav Narendra Mahalkar	1	0	1	0	3	1	150	6	4	0
26	Gauri Dilip Shetkar	7	2	4	13	18	5	150	49	33	0
27	Gauri Gajanan Sayankar	1	0	8	3	8	3	150	23	15	0
28	Gopal Santorao Ghuge	2.5	3	4	8	6	6	150	29.5	20	0
29	Harsha Bhaskar Dubey	19	21	19	22	15	16	150	112	75	0
30	Harsha Laxman Girde	0	1	0	0	ABSENT	ABSENT	150	1	1	100
31	Jitesh Sanjay parate	0	0	3	2	3	0	150	8	5	0
32	Karan Kailas Ghuge	5.5	2	8	15	12	8	150	50.5	34	0
33	Kashish Sudhakar Tamadge	3	1	10	12	7	8	150	41	27	0
34	Komal Purushotam Lohiya	0	1	4	8	8	1	150	22	15	0
35	Krutika Dashaiah Budhaware	16.5	6	13	20	21	15.5	150	92	61	0
35	Kunal Anil Ingole	3.5	8	6	14	7	6	150	44.5	30	0



37	Manoj Prakashrao Daware	5	7	6	0	8	6.5	150	32.5	22	0
38	Mansi Sunil Kurve	1	0	2	7	4	5	150	19	13	0
39	Manthan Umashankar Dixit	0	0	0	2	0	0	150	2	1	0
40	Mayuri Shankar Madavi	0	1	8	1	15	5	150	30	20	0
41	Meet Mahendra Mishra	5.5	5	12	15	20	6.5	150	64	43	0
42	Mohini Devchand Chachkar	ABSENT	ABSENT	10	5	13	8	150	36	24	100
43	Neha Ananta Kinnake	7	5	9	6	11	7.5	150	45.5	30	0
44	Nihil Gajananrao Bhoyar	0	0	0	0	2	3	150	5	3	0
45	Nikhil Ranaji Agarkar	5	ABSENT	3	5	8	4	150	25	17	50
46	Nishant Anilrao Waghmare	1	0	5	8	3	2	150	19	13	0
47	Om Ankush Parise	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
48	Om Navin Boddade	0	4	2	0	3	ABSENT	150	9	6	50
49	Pavai Gajanan Sargar	0	0	0	0	2	0	150	2	1	0
50	Piyush Prashant Galkwad	15	9	15	- 12	19	13	150	83	55	0
51	Piyush Sudhirrao Chandrkhede	4	ABSENT	7	5	ABSENT	ABSENT,	150	16	11	100
52	Pranjata Prashant Wade	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	250
53	Prajwal Dattaji Mahalle	2	0	3	15	ABSENT	11	150	31	21	50
54	Prajwal Muralidhar Wankhede	0	0	0	ABSENT	15	ABSENT	150	15	10	50
55	Pratham Jugalkishor Satija	ABSENT	0	0	ABSENT	3	ABSENT	150	3	2	100

56	Sudha Gajanan Zade	0	0	2	5	6	1	150	14	9	0
	Radhika Gajendra Shingude	4.5	3	10	9	12	2	150	40.5	27	0
58	Ragini Keshavra Bant	5	2	8	8	13	3	150	39	26	0
59	Praka Vilas Gode	5.5	2	11	10	15	14	150	57.5	38	0
60	Radhika Gajanan Gongade	11	9	11	10	21	15	150	77	51	0
61	Pudhesh Anand Dhore	3	ABSENT	10	9	5	4	150	31	21	50
62	Priyanka Anil Bag	15	6	14	16	16	13	150	80	53	0
63	Sahil Ravindra Dongare	0	0	0	0	1	0	150	1	1	0
64	Sakshi Yashraj Hemanthkar	8	4	14	21	14	8	150	69	46	0
65	Sambhata Ravindra Ankar	ABSENT	ABSENT	1	ABSENT	ABSENT	ABSENT	150	1	1	100
66	Sambhata Vinod Gujjarikar	15	17	19	25	24	20	150	120	80	0
67	Sameer Rajesh Naravaj	6	3	3	5	ABSENT	ABSENT	150	17	11	50
68	Sanket Ganeshkrishan Waghmare	12	20	20	21	23	10	150	106	71	0
69	Sanket Shriraman Kargale	12	3	15	14	16	11	150	71	47	0
70	Sanket Sunil Shingude	6	9	6	8	19	8	150	56	37	0
71	Sarvesh Sunil Kondarkar	3	1	5	6	9	1	150	25	17	0
72	Shubhrajyoti Birajasa Sankar	5	1	2	10	10	4	150	32	21	0
73	Shubho Ramchandra Apatkar	1	1	6	11	11	3	150	35	23	0
74	Sonaya Vijayasa Patil	1	2	7	14	10	8	150	42	28	0



74	Surendra Sanjay Fable	7	0	5	8	6	1	150	27	18	0
75	Surendra Vijayrao Patilak	1.5	0	4	7	7	2	150	21.5	14	0
76	Surendra Pravin Raut	3	1	5	8	8	2	150	27	18	0
77	Shweta Pravin Raut	ABSENT	0	1	5	3	5	150	14	9	50
78	Santosh Vijayrao Pohankar	0	0	3	0	ABSENT	ABSENT	150	3	2	100
79	Santosh Padmakar Narange	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
80	Taruna Bhagwan Kamble	0	0	2	0	8	1	150	11	7	0
81	Tanushree Bhushan Raut	14	5	20	23	22	18	150	102	68	0
82	Tejaswini Vilas Bawane	2	1	1	2	4	6	150	16	11	0
83	Uday Kishor Rabbewar	7	2	6	9	15	4	150	43	29	0
84	Urmati Nagnora Chikram	7	9	17	25	15	17	150	90	60	0
85	Vaibhav Rajendra Gawande	0	0	3	6	11	3	150	23	15	0
86	Vaibhav Subhash Raut	9	5	10	18	14	7	150	63	42	0
87	Vaishali Mahadeo Yelne	1	1	4	5	6	6	150	23	15	0
88	Vaishnavi Dinesh Awathe	4	0	6	13	11	4	150	38	25	0
89	Vaishnavi Narendra Ghode	1.5	3	4	2	7	9	150	26.5	18	0
90	Vaishnavi Premaji Suryawanshi	0	0	0	0	1	0	150	1	1	0
91	Vikas Shekhar Ghagare	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	0
92	Vish Vijay Chavhan	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	0

PANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY, WARDHA

Sessional Exam 2022-23

BCA II

Mark Sheet

Sr. No.	Students Name	Visual Basic Programming 17/10/2022	Data Base Management System 18/10/2022	Data Structures 19/10/2022	Operations Research-I 20/10/2022	Web Technology-I 21/10/2022	Digital Electronics-I 21/10/2022	Maximum Marks	Marks Obtained	%	Fine/ Paper
		Student Marks	Student Marks	Student Marks	Student Marks	Student Marks	Student Marks				
1	ADITYA JAMPALWAR	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
2	AKASHA KOPARE	9	13	12	1	3	4	150	42	28	0
3	AKASH THAKRE	9	17	10	5	5	3	150	49	33	0
4	ANUP NATHNJI PATIL	8	3	5	10	3	1	150	30	20	0
5	ANURAG KAPSE	9	6	ABSENT	14	4	6	150	39	26	50
6	BHAGYASHRI RAMBHAU S/DADA	16	14	19	21	6	16	150	92	61	0
7	BRUSHANT CHAVARE	6	17	13	18	6	7	150	67	45	0
8	DHAPATI RAVIDRA EALBHIDE	3	11	7	0	0	1	150	22	15	0
9	CHITANDEEP PRAVIN KUSALE	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
10	KARTIK RAJENDRA DHANODE	8	7	10	7	2	2	150	36	24	0
11	MADHUR MAHENDRA SONDARE	4	8	ABSENT	ABSENT	ABSENT	ABSENT	150	12	8	200



12	MARAVI M CHANDAKAR	17	16	18	15	9	9	150	84	56	0
	OMPRAKASH RAJENDRA KADUKAR	16	14	14	12	10	9	150	75	50	0
14	PRAJWAL RAJU URMILE	7	9	7	14	1	1	150	39	26	0
15	PRATIK ASHOKRAO NARANDE	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
16	Pratiksha Asutkar	6	11	7	15	8	9	150	56	37	0
17	PURVASHI RAJESH DOMANE	11	15	15	10	8	5	150	64	43	0
18	RUTUJA RANJANRAO PATIL	13	11	12	20	6	6	150	68	45	0
19	SEAL FARKADE	9	17	8	11	3	6	150	54	36	0
20	SHREYAS ALAY DESHMUKH	5	5	2	0	1	7	150	20	13	0
21	SHRUSHTI MAHALLE	6	8	13	12	1	1	150	41	27	0
22	SHRUTI ANIL KAREKAR	6	19	18	14	4	4	150	65	43	0
23	SONYA RAJU LANSONGE	2	0	14	0	3	2	150	21	14	0
24	SUKANYA MANOHARRAO BHASMJE	2	6	3	5	1	7	150	24	16	0
25	SUKANYA WAMANRAO BHUTE	8	8	8	16	ABSENT	ABSENT	150	40	27	100
26	TRIPTI SANJAY KADAM	14	21	15	23	17	12	150	102	68	0
27	VIGNESH N THAKARE	9	13	9	17	10	8	150	66	44	0
28	VIPASHANA PRAVIN JAWADE	12	20	16	22	10	15	150	95	63	0



RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY, WARDHA  
 Sessional Exam 2022-23

BCA III

Mark Sheet

Sr. No.	Students Name	Computer Graphics 17/10/2022	Compiler Construction 18/10/2022	VB. Net 19/10/2022	Software Engineering- II 20/10/2022	PHP-1 21/10/2022	Data Communication And Network-1 21/10/2022	Maximum Marks	Marks Obtained	%	Fine/ Paper
		Student Marks	Student Marks	Student Marks	Student Marks	Student Marks	Student Marks				
1	Abhay Chaudhari	ABSENT	7	5	3	5	0	150	20	13	50
2	Amit Bhauroo Fulbele	0	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	250
3	Tushar Sudhir Raghatate	16	16	6	14	6	5	150	63	42	0
4	Anant Deshmukh	6	10	11	15	6	3	150	51	34	0
5	Avnash Jena	14	2	11	7	4	2	150	40	27	0
6	Devyani Mohram Pawalkar	16	13	15	16	19	10	150	89	59	0
7	GHAANSHYAM WAGH	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
8	MOHIT K. MAHULE	11	3	7	6	ABSENT	ABSENT	150	27	18	100
9	Nandkishor Sayankar	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300
10	Om Arun Dod	11	5	7	5	2	5	150	35	23	0
11	Prathmesh C. Niwal	10	1	4	4	0	0	150	19	13	0
12	Pratiksha Raj	21	17	22	24	6	5	150	95	63	0
13	Prati Divakar Khadke	ABSENT	10	10	17	17	4	150	58	39	50

17	15	18	21	13	14	150	98	65	0
18	12	3	8	1	150	33	22	0	
19	7	12	ABSENT	ABSENT	150	41	27	100	
20	16	19	23	13	150	104	69	0	
21	2	8	6	5	150	35	23	0	
22	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0.	300	
23	7	ABSENT	ABSENT	ABSENT	150	7	5	250	
24	4	6	7	2	150	28	19	0	
25	3	7	5	5	150	28	19	0	
26	9	14	12	ABSENT	150	53	35	100	
27	11	1	4	4	150	31	21	0	
28	11	3	2.	3	150	29	19	0	
29	ABSENT	ABSENT	ABSENT	ABSENT	150	0	0	300	

Highest Rank	Percentage
1st Rank : SANKET R KHADSE	69%
2nd Rank : Rajkanya Khaire	65%
3rd Rank : Pratiksha Rai	63%

Note: Those students who are absent in sessional exam have to pay 50 rs per paper.





Ranibai Agnihotri Institute of Computer Science & Information Technology, Wardha.

Paper:- C Programming

Class : BCA-1 (Semester-I)

Time :- 2 Hrs

Total Marks:- 25

Que.1) a) What is operator? Explain the relational operator with example. 5

b) What is datatype? Explain any four datatypes with suitable example. 5

OR

c) Explain the if-else statement with example. 5

d) Explain the for loop & do while loop with example. 5

Que.2) a) What is type casting? Explain explicit type casting with example. 5

b) Differentiate between while loop and do while loop. 5

OR

c) Explain break and continue statements with example. 5

d) What are the standard I/O functions used in c language. 5

Que.3) a) What is an array? Write a program in c to insert an element in one dimensional array. 5

OR

b) Write a program in c to print the following: 5

5

5 4

5 4 3

5 4 3 2

5 4 3 2 1

Ranibai Agnihotri Institute of Computer Science and Information Technology, Wardha

Bachelor of Computer Application (B.C.A.) Semester-I

Sessional Examination 2022

Statistical Method

Paper-III

Time:-Two Hours

[Maximum Marks: 25]

- N.B.:**— (1) All questions are compulsory and carry equal marks.  
 (2) Draw well labeled diagram wherever necessary.

**EITHER**

1. (a) Give definition of Statistics and its importance. Write short note on tabulation. 5  
 (b) Define Census and sampling. Explain methods of sampling. 5

**OR**

- (a) Describe the various methods of collection of statistical data. 5  
 (b) Represent the following data by a suitable diagram. 5

Items of Expenditure	Family A(Income Rs. 500)	Family B(Income Rs. 300)
Food	150	150
Clothing	125	60
Education	25	50
Miscellaneous	190	70
Saving or Deficit	+10	-30

**EITHER**

2. (a) What are the different methods of central tendency Explain. 5  
 (b) Calculate arithmetic mean, median & mode of marks of following data. 5

Marks	:	0-10	10-20	20-30	30-40	40-50	50-60
No. of Student	:	12	18	27	20	17	6

**OR**

- (a) What are the merits of Central Tendency? Explain graphic representation of frequency distribution. 5  
 (b) Write a short note on:  
 (i) Geometric Mean . (ii) Harmonic Mean 5

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

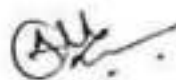
Practical Attendance/Marks Sheet

Exam Name: SECOND SEMESTER MASTER OF COMPUTER APPLICATION(MCA)

Subject Name: PRACTICAL II-BASED ON PAPER-IV & PAPER-V

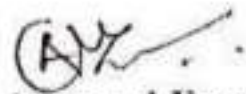
College Name: (667) Ranibai Agnihotri Institute of computer science & Information technology, wardha (Session: Summer 2023)

Sr. No.	Students Name	Signature
1	Abhuy Annaji Nanhe	
2	Aditi Vilas Jambhure	
3	Aman Dinkar Kale	
4	Amit Vijay Raghatare	
5	Bhagyashri Vinayakrao Raut	
6	Faizan Mohammad Chaudhary	
7	Gunwanta Shyamcharan Wankhede	
8	Harishchandra Gopal Nasare	
9	Harshal Digambar Dabhire	
10	Harshal Rahul Mhaiskey	
11	Harshali Shyamsundar Bhalme	
12	Hina Hemraj Bhivgade	
13	Jayash Ramchandra Bagde	
14	Jitesh Vasanttrao Borkar	
15	Kunal Gajanan Naktode	
16	Madhu Vilas Kunte	
17	Nilesh Dilip Dhore	
18	Pallavi Prabhawant Ambatkar	
19	Prajakta Rajendra Lichude	
20	Prajyot Omprakash Shambharkar	
21	Pranali Tejrj Rahangdale	
22	Pranay Dnyaneshwar Bhajbhujje	
23	Pranay gajanan Choudhary	





24	Pratik Diliprao Tijare	P. Tijare
25	Pratik Gajanan Hanginwar	P. Hanginwar
26	Pratiksha Manoj Gaikwad	P. Gaikwad
27	Prem Satishrao Mankar	P. Mankar
28	Pritam Ankesdaro Dhande	P. Dhande
29	Rajashri Mukund Chaudhary	— A1 —
30	Ritik Vishweswar Dhanarkar	R. Dhanarkar
31	Ritvik Vijay Chandrikapure	R. Chandrikapure
32	Rohit Hariprasad Maraskolhe	R. Maraskolhe
33	Rushikesh Purushottam Diwate	R. Diwate
34	Sagar madhukar Gohane	S. Gohane
35	Sharvari Mahesh Kawle	S. Kawle
36	Shubham Dharopal Nirwan	— A1 —
37	Siddesh Gajanan Deshmukh	S. Deshmukh
38	Smit Prashant Gawande	S. Gawande
39	Sohail Rezwani Khan	S. Khan
40	Tejaswini Devidas Masram	T. Masram
41	Tejaswini Hirendra Suryawanshi	T. Suryawanshi
42	Vaishnavi Vilasrao Betole	V. Betole



Internal Examiner

Prof. Anmol Mankar  
RAICSIIT  
Wardha



External Examiner

Prof. Suchin Zade  
Kamta Ncheu College  
Nagpur



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**  
Internal Marks Report

Exam Name: **THIRD SEMESTER MASTER OF COMPUTER APPLICATION (MCA)(NEW)**  
Session : **Winter-2022**  
College Name: **(657) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY**

Sl. No.	Seat No.	Enrollment No.	Student Name	Marks													
				Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10				
			Max	20	20	20	20	20	20	20	20	20	20	20	20	100	100
			Sub	15	15	15	15	15	15	15	15	15	15	15	15	150	150
1	724237	2021016600245467	BAOHEL LAKSHMI KAMALAKSHI	19	15	15	15	15	15	15	15	15	15	15	15	150	150
2	724238	2021016600245205	BAJME SHUBHAM GAJANAN	18	19	18	18	18	18	18	18	18	18	18	180	180	
3	724239	2021016600245449	BANSCOE KESAVI SHALINCHA	19	18	19	19	19	19	19	19	19	19	19	190	190	
4	724240	2021016600245351	BHARATI ASHOKKAD BHOJCHAND	18	19	18	18	18	18	18	18	18	18	18	180	180	
5	724241	2021016600245425	BHARVINDRA MAHESH SURENDRA	15	18	18	19	19	19	19	19	19	19	19	190	190	
6	724242	2021016600245295	BHONG PRANAV DAKSHIN	18	19	18	18	18	18	18	18	18	18	18	180	180	
7	724243	2021016600245243	BHTE VISHNU VIKR M BHTE	19	18	19	19	19	19	19	19	19	19	19	190	190	
8	724244	2021016600245122	CASARWAR CHITPAJ HEMOD	28	29	18	18	19	19	19	19	19	19	19	190	190	
9	724245	2021016600245255	DEBBAJ DINESH RANDE	19	18	19	19	19	19	19	19	19	19	19	190	190	
10	724246	2021016600245106	DONAV G DUNAVE	18	19	18	18	18	18	18	18	18	18	18	180	180	
11	724247	2021016600245221	DEEVIKA SUNITA RAJESHKUMAR	19	18	19	19	19	19	19	19	19	19	19	190	190	
12	724248	2021016600245265	DEVI MOHINI SANKAR	18	19	18	18	18	18	18	18	18	18	18	180	180	
13	724249	2021016600245294	DEVI NANCITA PRADIPAN	19	18	19	19	19	19	19	19	19	19	19	190	190	
14	724250	2021016600245245	DIKAT KALPANI HANOVANAG	18	19	18	18	18	18	18	18	18	18	18	180	180	
15	724251	2021016600245355	DIVYAN ANIKET DILIPKAD	19	18	15	15	15	15	15	15	15	15	15	150	150	
16	724252	2021016600245257	DIVYAN SURYA MANOJCHAND	16	19	18	18	18	18	18	18	18	18	18	180	180	
17	724253	2021016600245443	ELADHAR VINAY PRAN	19	18	19	19	19	19	19	19	19	19	19	190	190	
18	724254	2021016600245311	GANADH BHAJANT DILIP	18	19	18	18	18	18	18	18	18	18	18	180	180	
19	724255	2021016600245125	GANAPATIKANAN BHOJRAJANESH	19	18	19	19	19	19	19	19	19	19	19	190	190	
20	724256	2021016600245304	GANESH DANDAKRISHNAN KHAJIN	18	19	18	18	18	18	18	18	18	18	18	180	180	
21	724257	2021016600245294	GANESH SUDHANTH PRANAV	19	18	19	19	19	19	19	19	19	19	19	190	190	

Subject Credits: 1-(1) INFO DATA ANALYTICS, 2-(2) DATA MINING, 3-(1) PYTHON PROGRAMMING, 4-(4) ARTIFICIAL INTELLIGENCE, 5-(10) MOBILE COMPUTING, 6-(1) MACHINE LEARNING, 7-(1) SOFT COMPUTING, 8-(1) PRACTICAL-I, 9-(1) PRACTICAL-II.

Print Date & Time: 03-02-2023 01:28:52 PM Page No: 11 of 11

Signature Of Examiners:

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**  
Internal Marks Report

**Exam Name: THIRD SEMESTER MASTER OF COMPUTER APPLICATION (MCA)(NEW)**  
**Session : Winter-2022**  
**College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY**

Sl. No.	Enrollment	Student Name	Sub								Sub 8	Sub 9			
			Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8					
			Max	20	20	20	20	20	20	20	20	20	100	100	
			Sub	18	19	18	19	18	19	18	19	18	18	PU	PU
22	726226	2021016600825573	FATHAR TOMU MANOHAR	18	19	20	--	19	--	19	--	19	--	--	
23	726229	2021016600836907	FATHAN AAKIYKHA JATHIKHA	19	18	19	--	--	--	19	19	18	--	--	
24	726230	2021016600866063	PAWADE MONALI SANTOSH	18	19	18	--	18	--	18	--	19	--	--	
25	726231	2021016600838972	PISUDOE AISHWAKYA BHIMRAOJI	19	18	19	--	19	--	19	--	18	--	--	
26	726232	2021016600835813	RANGAEI SNEHAL ANJUN RANGAEI	18	19	18	--	18	--	18	--	19	--	--	
27	726233	2021016600862831	KHARDE VAISHNAVJI SHIRWAN	19	18	19	--	19	--	19	--	18	--	--	
28	726234	2021016600832221	SAHU JAYAKUNAR GOPI	18	19	18	--	18	--	18	--	19	--	--	
29	726235	2021016600829427	SAIF AZIZUREHMAN QUAZI	19	18	19	--	19	--	19	--	18	--	--	
30	726236	2021016600832264	SAHUKSHA SUSHASHKAO TAMBOLI	18	19	18	--	18	--	18	--	19	--	--	
31	726237	2021016600823466	SAWANT SAKSHI RAJESHKAO	19	18	19	--	19	--	19	--	18	--	--	
32	726238	20210166008358013	SHENDE POOJA SUDHAKARAO	18	19	18	--	18	--	18	--	19	--	--	
33	726239	2021016600842085	SHUKLA MAOCH SANTOSHRAOAO	19	18	19	--	19	--	19	--	18	--	--	
34	726240	2021016600840093	SHUKLA CHANCHAL SANTOSHRAOAO	18	18	18	--	18	--	18	--	19	--	--	
35	726241	2021016600839451	SURPAR GAVATRI VIKRO	19	19	19	--	19	--	19	--	18	--	--	
36	726242	2021016600812894	TITILE POGITA MANOHAR	18	18	18	--	18	--	18	--	19	--	--	
37	726243	2021016600825565	UDALE PRATIK PRAKASH	19	15	19	--	19	--	19	--	18	--	--	
38	726244	2021016600840112	URADHANY POOJA HOTTAL UPADHANY	18	18	18	--	18	--	18	--	19	--	--	
39	726245	2021016600862807	VINCHURKAR RADHKA PRAKASH	19	19	19	--	19	--	19	--	18	--	--	
40	726246	2021016600838964	WALDE YASHVIK RAJENDRA	18	18	18	--	18	--	18	--	19	--	--	
41	726247	2021016600832275	WANHEDDE SONALI TRIVAMBHARAO	18	19	19	--	18	--	18	--	18	--	--	
42	726248	2021016600816872	WASEKAR TUSHAR GALBHAR	18	18	18	--	18	--	18	--	19	--	--	

Subject Details: 1-(1) BIG DATA ANALYTICS, 2-(2) DATA MINING, 3-(3) PYTHON PROGRAMMING, 4-(A) ARTIFICIAL INTELLIGENCE, 5-(B) MOBILE COMPUTING, 6-(C) MACHINE LEARNING, 7-(5) SOFT COMPUTING, 8-(P-1) PRACTICAL-1, 9-(P-2) PRACTICAL-1I,

Print Date & Time: 02-02-2023 03:28:03 PM 11 => Theory Internal, PU => Practical University, 12 => Practical Internal

Signature Of Examiners:



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**  
**Internal Marks Report**

Exam Name: **THIRD SEMESTER MASTER OF COMPUTER APPLICATION (MCA)(NEW)**  
Session : **Winter-2022**  
College Name: **(667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY**

Sl. No.	Seat No.	Enrollment	Student Name	Subject Details													
				Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12		
				Pass	20	20	20	20	20	20	20	20	20	20	20	100	100
				Sub	11	12	11	11	11	11	11	11	11	11	11	100	100
43	2021101010074	79049	SAHINI SUNILKUMAR	19	18	19	-	18	-	-	18	-	-	-	-	-	-

Subject Details : 1-(11) BIG DATA ANALYTICS, 2-(12) DATA MINING, 3-(13) PYTHON PROGRAMMING, 4-(14) ARTIFICIAL INTELLIGENCE, 5-(15) MOBILE COMPUTING, 6-(16) MACHINE LEARNING, 7-(17) SOFT COMPUTING, 8-(18) PRACTICAL-1, 9-(19) PRACTICAL-2

Print Date & Time : 02-02-2023 09:28:03 PM      T1 \*\* Theory (Internal, PI) \*\* P1 \*\* Practical (Internal, PI) \*\*

Signature Of Examiners:



JAI MAHAKALI SHIKSHAN SANSTHA'S

# RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER & INFORMATION TECHNOLOGY

WARDHA

(Approved by AICTE, New Delhi, Registered by Govt. of Maharashtra & Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Date :

Ref :

To,  
The Asst. Registrar (Cont.),  
Rashtrasant Tukadoji Maharaj Nagpur University,  
Nagpur.

Subject : Regarding change in External Examiner & change in date of practical exam.

Ref: 1. Schedule of University Practical Exam-W<sup>22</sup>  
2. Telephonic talk with External Examiner

Sir,  
As per telephonic talk with Prof. Dr. Ajay Ramleke it is come to know that he is not available to conduct the University Practical Exam W<sup>22</sup> of BCA III<sup>rd</sup> Year (Sem-V) on dt. 21/12/22 (ref. 2) at our college center. Same is communicated to the concerning of your section. And according to the suggestions we had contacted Prof. Dr. Gireesh S. Kulkarni and he agreed to work as an External Examiner for BCA III<sup>rd</sup> Year (Sem-V) University Practical Exam W<sup>22</sup> on dt. 21/12/22 at our college center.

You are therefore requested to kindly note down the change in External Examiner & its date. I hope this would not cause any inconvenience to you.

Thanking You.

Officiating Principal  
Ranibai Agnihotri Institute  
of Computer & Information  
Technology, WARDHA





JAI MAHAKALI SHIKSHAN SANSTHA'S  
**RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER &  
INFORMATION TECHNOLOGY**  
WARDHA

(Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra & Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Ref. :

Date :

To,

The Asst. Registrar (Conf.),  
Rashtrasant Tukadoji Maharaj Nagpur University,  
Nagpur.

Subject : Regarding change in External Examiner & change in date of practical exam.

Ref: 1. Schedule of University Practical Exam-W<sup>22</sup>  
2. Telephonic talk with External Examiner

Sir,

As per telephonic talk with Prof. DE AJAY RANDEKE it is come to know that he is not available to conduct the University Practical Exam W<sup>22</sup> of BCA III<sup>rd</sup> Year (Sem<sup>v</sup>) on dt. 21/12/22 (ref. 2) at our college center. Same is communicated to the concerning of your section. And according to the suggestions we had contacted Prof. DE GIRESH S. KATKAR and he agreed to work as an External Examiner for BCA III<sup>rd</sup> Year (Sem<sup>v</sup>) University Practical Exam W<sup>22</sup> on dt. 21/12/22 at our college center.

You are therefore requested to kindly note down the change in External Examiner & its date. I hope this would not cause any inconvenience to you.



PRACTICAL PROGRAMME OF M.C.A. EXAM OF WINTER - 2019.

Sr. No.	Name of College	M.C.A.- I Sem. -I		M. C. A. II Sem. -I		M. C. A. -III Sem. -I	
		Pract.- I		Pract.- I		Pract.- I	
1.	Kamla Nehru Ms. Nagpur.	Pract.- I	29/11/19	Pract.- I	05/12/19	Pract.- I	19/11/19
		Pract.- II	30/11/19	Pract.- II	06/12/19	Pract.- II	30/11/19
2.	Shivaji Sci.College, Nagpur.	Pract.- I	29/11/19	Pract.- I	05/12/19	Pract.- I	19/11/19
		Pract.- II	30/11/19	Pract.- II	06/12/19	Pract.- II	30/11/19
3.	Inter- Institutional Computer Center, Campus, Nagpur	Pract.- I	09/11/19	Pract.- I	05/12/19	Pract.- I	19/11/19
		Pract.- II	10/11/19	Pract.- II	06/12/19	Pract.- II	30/11/19
4.	V.M.V.,M.T. & J.P. College, Wardhaman Nagar, Nagpur	Pract.- I	29/11/19	Pract.- I	05/12/19	Pract.- I	19/11/19
		Pract.- II	30/11/19	Pract.- II	06/12/19	Pract.- II	30/11/19
5.	G.H. Rasmal Institute Of Information Technology, Hingna Road, Nagpur.	Pract.- I	05/12/19	Pract.- I	09/12/19	Pract.- I	05/12/19
		Pract.- II	06/12/19	Pract.- II	10/12/19	Pract.- II	06/12/19
6.	Kani Agnihotri College, Wardha	Pract.- I	06/12/19	Pract.- I	09/12/19	Pract.- I	06/12/19
		Pract.- II	07/12/19	Pract.- II	10/12/19	Pract.- II	07/12/19
7.	Kadukatai Pandav College of Engg., Nagpur	Pract.- I	06/12/19	Pract.- I	09/12/19	Pract.- I	06/12/19
		Pract.- II	07/12/19	Pract.- II	10/12/19	Pract.- II	07/12/19
8.	Jalsiramji Galkwad Patil College of Engg. & Tech., Nagpur.	Pract.- I	05/12/19	Pract.- I	09/12/19	Pract.- I	05/12/19
		Pract.- II	06/12/19	Pract.- II	10/12/19	Pract.- II	06/12/19

  
 Asst. Registrar (Gen. Admin)  
 Rashtrasant Tukadoji Maharaj  
 Nagpur University, Nagpur



# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

## Practical Report

Exam Name: FOURTH SEMESTER FOURTH SEMESTER MASTER OF BUSINESS  
ADMINISTRATION (MBA)(CBCS)

Subject Name: PROJECT WORK

College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER  
SCIENCE INFORMATION TECHNOLOGY

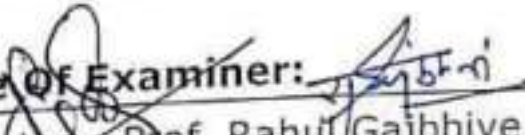
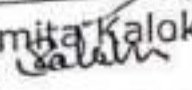
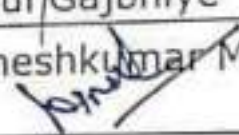
Session: Summer-2019

Sr	Seat No	Enrollment	Student Name	Marks
1	200398	PROVISIONAL	ASHVINI KIRANRAO GHARAD	131
2	200399	2015016601677546	KARISHMA VJJAY CHAUHAN	130
3	200400	2014016600272451	KOMAL DILIPRAO BHOYAR	AA
4	200401	2011016601249197	MANISHA SHRIHARI RODE	130
5	200402	2012016600143026	NEHA ASHOKRAO RAUT	132
6	200403	PROVISIONAL	PRIYANKA GANPATRAO GUJAR	130
7	200404	2011501660136152	PRIYANKA PURUSHOTTAM KUHATE	134
8	200405	PROVISIONAL	PUNAM WASUDEORAO DUDHKWARE	128
9	200406	2014016600391526	RUPALI BHASKARRAO BHOYAR	130
10	200407	PROVISIONAL	RUPALI VASANTRAO SURJUSE	128
11	200408	2010016601086765	SHRADDHA RAVIKUMAR SHAH	137
12	200409	AB/665777	SHRUTI PRABHUNATHSING KAKAN	130
13	200410	PROVISIONAL	SNEHA BHALCHANDRAJI TAPASE	132
14	200411	2015016601352506	SONALI RAJKUMAR DAIKAR	128
15	200412	2015016600834657	TANUJA RAJENDRA PANDHARKAR	132
16	200413	PROVISIONAL	VAISHALI SUBHASHRAO NASARE	128
17	200414	2015016602044337	AMOLRAMAJI DEKATE	130
18	200415	PROVISIONAL	CHETAN BHARAT MUDE	126
19	200416	68558	HARSHAL BABARAO PISUDDE	130
20	200417	2015016601541205	HITESH KESHAVRAO PURI	125
21	200418	PROVISIONAL	IMRAN USMAN KHAN	125
22	200419	PROVISIONAL	JAY SURESH LOHARKAR	134
23	200420	2015016601552911	MRUNAL PANDURANGI DAHAKE	132
24	200421	2015016600835572	PRAVIN NAMDEORAO WATGULE	133
25	200422	2015016601023933	PRAVIN WASUDEORAO MUNNE	135
26	200423	2010016601088234	PRITAM BHARATRAO PANGUL	130
27	200424	PROVISIONAL	SAURABH NARAYANRAO WAIKAR	132
28	200425	2014016600029596	SHUBHAM ASHOKRAO BIJWE	132
29	200426	20172081919348	SHUBHAM SURESH DADGAL	135
30	200427	2015016600631877	SHUBHAM VITTHALRAO ZADE	115
31	200428	AB/20873	SUNIL MANOHAR TAGADE	AA
32	200429	2015016602044496	SURENDRA CHANDRAMANI PATIL	AA
33	200430	2011016600969101	TUSHAR DILIP GOTHE	130
34	200431	2011016600909575	UMESH NATTHUJI GALAT	135
35	200432	2015016600622171	VAIBHAV RAJENDRA GHURDE	130
36	200433	PROVISIONAL	BHARATI MADHUKARRAO SAWADYAO	136

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

Exam Name: FOURTH SEMESTER MASTER OF BUSINESS  
ADMINISTRATION (MBA)(CBCS)  
Subject Name: PROJECT WORK  
College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER  
SCIENCE INFORMATION TECHNOLOGY  
Session: Summer-2019

Sr	Seat No	Enrollment	Student Name	Marks
<b>Signature of Examiner:</b> 				
Dr. Ajay Pathe, Prof. Rahul Gajbhiye				
Dr. Smita Kalokar, Dr. Dineshkumar Mirkute, Prof. Harshit Bhurse, Prof. Ami Sahu  				
Print Date & Time: 23-05-2019 02:44 PM				

# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

## Practical Report

Exam Name: FOURTH SEMESTER FOURTH SEMESTER MASTER OF BUSINESS ADMINISTRATION (MBA)(CBCS)

Subject Name: PROJECT WORK

College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY

Session: Summer-2019

Sr	Seat No	Enrollment	Student Name	Marks
1	200398	PROVISIONAL	ASHVINI KIRANRAO GHARAD	45
2	200399	2015016601677546	KARISHMA VIJAY CHALHAN	42
3	200400	2014016600272451	KOMAL DILIPRAO BHOYAR	AA
4	200401	2011016601249197	MANISHA SHRIHARI RODE	45
5	200402	2012016600143026	NEHA ASHOKRAO RAUT	46
6	200403	PROVISIONAL	PRIYANKA GANPATRAO GUJAR	43
7	200404	2011501660136152	PRIYANKA PURUSHOTTAM KUHATE	46
8	200405	PROVISIONAL	PUNAM WASUDEORAO DUDHAKWARE	44
9	200406	2014016600391526	RUPALI BHASKARRAO BHOYAR	45
10	200407	PROVISIONAL	RUPALI VASANTRAO SURJUSE	45
11	200408	2010016601086765	SHRADDHA RAVIKUMAR SHAH	46
12	200409	AB/665777	SHRUTI PRABHUNATHSING KAKAN	43
13	200410	PROVISIONAL	SNEHA BHALCHANDRAJI TAPASE	46
14	200411	2015016601352306	SONALI RAJKUMAR DAJGAR	44
15	200412	2015016600834657	TANUJA RAJENDRA PANDHARKAR	45
16	200413	PROVISIONAL	VAISHALI SUBHASHRAO NASARE	46
17	200414	2015016602044337	ANOLRAMAJI DEKATE	45
18	200415	PROVISIONAL	CHETAN BHARAT MUDE	44
19	200416	68558	HARSHAL BABARAO PISUDDE	45
20	200417	2015016601541205	HITESH KESHAVRAO FURJ	44
21	200418	PROVISIONAL	IMRAN USMAN KHAN	45
22	200419	PROVISIONAL	JAY SURESH LOHARKAR	46
23	200420	2015016601552911	MRUNAL PANDURANGI DAHAKE	44
24	200421	2015016600835572	PRAVIN NAMDEORAO WATGULE	46
25	200422	2015016601023933	PRAVIN WASUDEORAO MUNNE	45
26	200423	2010016601088234	PRITAM BHARATRAO PANGUL	45
27	200424	PROVISIONAL	SAURABH NARAYANRAO WAIKAR	43
28	200425	2014016600029596	SHUBHAM ASHOKRAO BEJWE	42
29	200426	20172081919348	SHUBHAM SURESH DADGAL	45
30	200427	2015016600531877	SHUBHAM VITTHALRAO ZADE	45
31	200428	AB/20873	SUNIL MANOHAR TAGADE	AA
32	200429	2015016602044496	SURENDRA CHANDRAMANI PATIL	AA
33	200430	2011016600969101	TUSHAR DILIP GOTHE	44
34	200431	2011016600909575	UMESH NATTHUJI GALAT	45
35	200432	2015016600622171	VAIBHAV RAJENDRA GHURDE	42
36	203853	PROVISIONAL	BHARATI MADHUKARRAO SAWARKAR	45

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

<https://www.nagpur.university>

Practical Report

Exam Name: FOURTH SEMESTER FOURTH SEMESTER MASTER OF BUSINESS ADMINISTRATION (MBA)(CBCS)

Subject Name: PROJECT WORK

College Name: (667) RANIBAI AGNIHOTRI INSTITUTE OF COMPUTER SCIENCE INFORMATION TECHNOLOGY

Session: Summer-2019

Sr	Seat No	Enrollment	Student Name	Marks
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**Signature Of Examiner:**

Dr. Smita Kalokar, Dr. Dinesh Kumar Mirkute, Prof. Harshit Bhurse, Prof. Amit Sahu

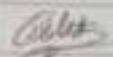





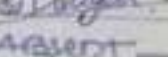


Ranibai Agnihotri Institute of Computer Sci.  
& Information Technology, Wardha

MBA Project Viva Voce Exam

Summer 2018 - 2019

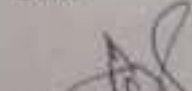
Attendance Sheet

Specialization MM


Sr.No	Name of Students	Signature
1	Umesh Galat	
2	Imran Khan	
3	Chetan Mude	
4	Bharti Sawarkar	
5	Shubham Zade	
6	Pravin Mune	
7	Shubham Dadgal	
8	Sunil Tagde	
9	Manisha Rode	

Date:

Sign of External

  
23/05/2019

Sign of Internal

  
(Dr. Divyashankar)

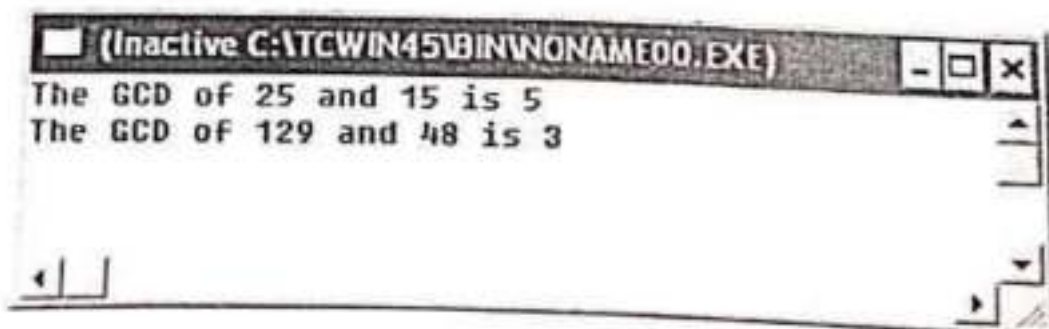
Sign of principal



1) Write a program to calculate GCD of two nos using iterative method.

```
#include <iostream.h>
int GreatestCommonDivisor(int, int);
int main()
{
    int a, b, gcd;
    a = 25;
    b = 15;
    gcd = GreatestCommonDivisor(a, b);
    cout << "The GCD of " << a << " and "
         << b << " is " << gcd << endl;
    a = 129;
    b = 48;
    gcd = GreatestCommonDivisor(a, b);
    cout << "The GCD of " << a << " and "
         << b << " is " << gcd << endl;
    return (0);
}
// Using Euclid's algorithm
int GreatestCommonDivisor(int x, int y)
{
    while (y != 0)
    {
        const int temp = y;
        y = x % y;
        x = temp;
    }
    return x;
}
```

### OUTPUT



The screenshot shows a Windows command prompt window with the title bar "(Inactive C:\TCWIN45\BIN\WONAME00.EXE)". The window contains the following text:

```
The GCD of 25 and 15 is 5
The GCD of 129 and 48 is 3
```

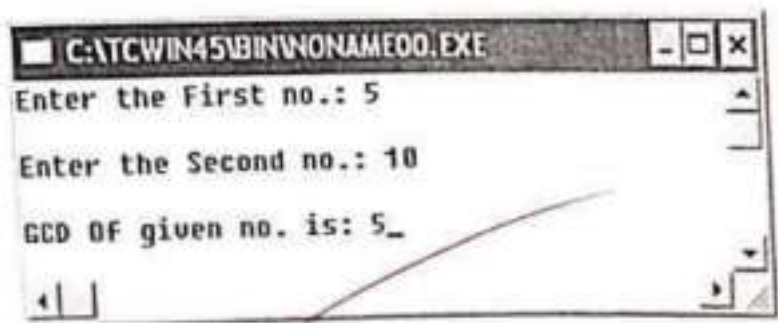
The window also shows standard Windows window controls (minimize, maximize, close) and a cursor at the bottom left.

2) Write a program to implement Euclid's algorithm to find GCD of two nos.

```
#include<iostream.h>
#include<conio.h>
#include<math.h>

void main()
{
    int a,b,n;
    clrscr();
    cout<<"Enter the First no.: ";
    cin>>a;
    cout<<"\nEnter the Second no.: ";
    cin>>b;
    while(a!=0)
    {
        n=a;
        a=b%a;
        b=n;
    }
    cout<<"\nGCD Of given no. is: ";
    cout<<b;
    getch();
}
```

OUTPUT

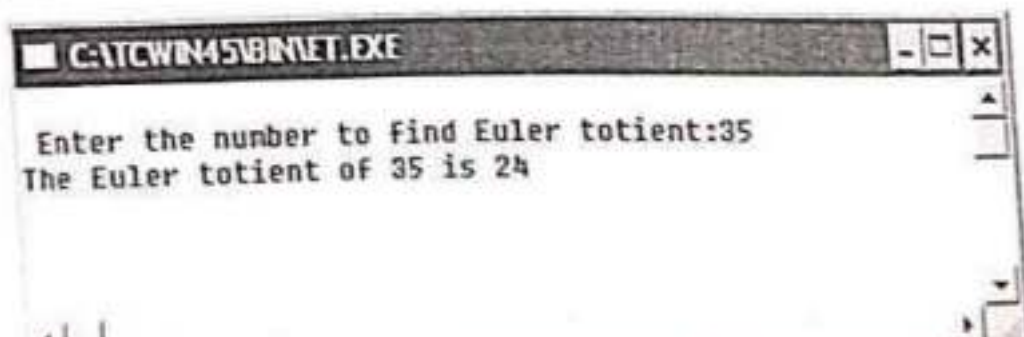


3) Write a program to find out Euler's totient function for any given no.

```
#include <iostream.h>
#include <conio.h>
int GreatestCommonDivisor(int, int);
void main()
{
int n=0;
cout << "n Enter the number to find Euler totient:";
cin >> n;
for(int i=1; i<=n-1; i++)
{
if(GreatestCommonDivisor(n,i)==1)
{
t=t+1;
}
}
cout << "The Euler totient of " << n << " is " << t;
getch();
}

int GreatestCommonDivisor(int x, int y)
{
while(y!=0)
{
constint temp = y;
y = x % y;
x = temp;
}
return x;
}
```

OUTPUT











## **MBA PLACEMENTS**

- 1) Miss. Anuja Bhande MBA Co. Tech Mahindra, Mumbai
- 2) Mr. Gopal Dhole MBA Genpact, Hyderabad
- 3) Mr. Shubham Raut MBA, Axis Bank, Nagpur.
- 4) Mr. Aniket Wandhare MBA, Conneqt, Bangalore.
- 5) Mr. Jayesh Nistane MBA Abhinav IT solutions, Pune.
- 6) Mr. Krunal Atkare MBA, Shriram Bioseed Genetics, Hyderabad.
- 7) Mr. Abhijit Raghatate, MBA, NRB bearings, Aurangabad

## **BBA PLACEMENTS**

- 1) Miss. Anisha Mishra
- 2) Mr. suraj kamble





**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

**FACULTY OF SCIENCE AND TECHNOLOGY**

**DIRECTION NO. 33 of 2020**

**ADMISSION AND EXAMINATIONS OF STUDENTS LEADING TO THE AWARD OF  
THE DEGREE OF MASTER IN COMPUTER APPLICATION (SEMESTER  
PATTERN) ( CHOICE BASED CREDIT SYSTEM) (2 YEARS PROGRAMME),  
DIRECTION**

**WHEREAS**, the Maharashtra Public Universities Act, 2016 ( VI of 2017) ( hereinafter the "Act") has been made applicable to the Rashtrasant Tukadoji Maharaj Nagpur University ( herein after the "University") w.e.f. 1<sup>st</sup> March 2017;

**AND**

**WHEREAS**, as per the provisions of section 73 (1) of the Act an Ordinance is required to be made for laying down the conditions under which students can be admitted to any course of study leading to the award of degrees, diplomas, certificates, and other academic distinctions;

**AND**


**WHEREAS**, the Board of Studies in Computer Science in its meeting held on 9<sup>th</sup> March , 2020 has prepared the syllabi, scheme of examination and absorption scheme for the Master in Computer Application (CBCS) programme and resolved to implement the same from the academic session 2020-21 progressively, discontinuing in a phased manner the existing programme governed by Ordinance No. 16 of 2009;

**AND**

**WHEREAS**, the Dean, Faculty of Science & Technology concurring with the recommendations of the Board of Studies in Computer Science, in the Faculty of Science & Technology, recommended to the Vice-Chancellor introduction of the Master in Computer Application (CBCS) programme, with draft direction and other details, from the academic session 2020-21 and the Vice-Chancellor having accorded his consent to the same;

**AND**

**Whereas**, making of an Ordinance is a time consuming process and there is an urgency in introducing the degree programme of Master in Computer Application (CBCS), in the faculty of

  
24/11/2020





Science and Technology, from the academic session 2020-21 necessitating issuance of a Direction by the Vice-Chancellor, in exercise of his powers under section 12(8) of the Act;

Now, therefore, I, Dr. Subhash R. Chaudhari, Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in exercise of the powers vested in me under Section 12(8) of the Maharashtra Public Universities Act of 2016 do hereby issue the following Directions:-

1. This Direction may be called " **ADMISSION AND EXAMINATIONS OF STUDENTS LEADING TO THE AWARD OF THE DEGREE OF MASTER IN COMPUTER APPLICATION (SEMESTER PATTERN) ( CHOICE BASED CREDIT SYSTEM) (2 YEARS PROGRAMME), DIRECTION, 2020.**"
2. This Direction shall come into force from the date of its issuance.
3. In this Direction unless the context otherwise requires:-
  - a. "ATKT" means "Allowed to Keep Term" in the higher semester, as per the rules herein.
  - b. "Board of Studies" means Board of studies of the University in "computer science".
  - c. "Course" means a theory or practical (or the combination of theory and practical) subject, prescribed for any semester and carrying maximum and minimum passing marks, which a student, admitted to the programme of the **Master in Computer Application (Semester Pattern) ( Choice Based Credit System) ( 2 Years Programme)**, has to study in order to become eligible for the award of the Degree under this Direction.
  - d. "Credit" means the unit by which the course work is measured. It is measured in terms of weekly class hours assigned to a Course.
  - e. "Credit Point" (CP): It is the value obtained by multiplying the Grade Point by the Credit i.e. No. of Credits assigned for the course x Grade Points secured for that course.
  - f. "Cumulative Grade Point Average (CGPA)": CGPA refers to the Cumulative Grade Point Average weighted across all the semesters. It is obtained by dividing total number of credit points in all the semesters by the total number of credits in all the semesters.
  - g. "Degree" means the Degree of **Master in Computer Application (Semester Pattern) ( Choice Based Credit System)** which is to be awarded to a student admitted to the programme governed by this Direction on successful completion of the programme.
  - h. "Grade Letter": It is an index to indicate the performance of a student in a particular course/ Paper. It is the transformation of actual marks secured by a student in a



course/paper. It is indicated by a Grade letter O,A,B,C,D,E and F. There is a range of marks for each Grade.

- i. "Grade Point" : Grade Point is the weightage allotted to each grade letter depending on the marks awarded in a course/paper.
- j. "Programme" means the academic programme consisting of four semesters, each semester having one or more than one course (subject), leading to the award of the degree of **Master in Computer Application (Semester Pattern) ( Choice Based Credit System) ( for short "MCA programme")**.
- k. "Student" means student admitted to the programme under this Direction.
- l. **Semester Grade Point Average (SGPA)**: SGPA indicates the performance of a student in a given Semester. It is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.

k. "University": means RashtrasantukdojiMaharaj Nagpur University, Nagpur

4. The duration of the programme shall be of two academic years consisting of four semesters with the University examinations at the end of each semester namely.

- a) M.C.A. Semester I Examination
- b) M.C.A. Semester II Examination
- c) M.C.A. Semester III Examination
- d) M.C.A. Semester IV Examination

5. The theory examination of Semesters-I, II, III and IV shall be conducted by the University and shall be held separately at the end of each semester at such places and dates as may be decided and notified by the University and shall be held as per the schedule given in the Table below.

Sr. No.	Name of the examination	Main Examination	Supplementary Examination
1	Semester I & III	Winter	Summer
2	Semester II & IV	Summer	Winter

#### 6. ELIGIBILITY FOR THE PROGRAMME:

The eligibility criteria for admission for the MCA programme shall be as decided by the Competent Authority (Director, Technical Education-Government of Maharashtra, &/ or AICTE, New Delhi) from time to time.

7. Subject to their compliance with the provisions of this Direction and other Ordinances in force from time to time, presently the following person shall be eligible for admission to MCA.

- a) The candidate should have passed Bachelor Degree in Computer Applications or Science (Information Technology or Computer Science) with Mathematics at 10+2 Level or at Graduation Level / Bachelor Degree in Computer Science Engineering or equivalent degree with at least 50% marks in aggregate or equivalent (at least 45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only)

OR

The candidate should have Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the University) with at least 50% marks in aggregate or equivalent (at least 45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only)

AND

- b) Has obtained non zero positive score in MAH-MCA-CET.

8. Bridge course is compulsory for all the students who are admitted to the MCA programme under criteria that candidate Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level. Bridge Course will be conducted by college at the beginning of session for MCA I students in semester I. Only grade point will be given to this course. Examination to this course will be conducted by college and grade point will be given based on their performance and will be communicated to the university before the start of theory examination of MCA I (Sem I).

9. The ATKT rules for admission for the MCA programme (Theory, Practical, Seminar and Project as separate passing head and on calculation, fraction, if any, shall be ignored) shall be as given in the following table.

Name of Semester (1)	The candidates should have passed in all the subjects of the following examination of R.T.M. Nagpur University. (2)	Candidate should have passed at least two third of the passing heads of the following examinations (3)
MCA Semester - I	The qualifying examination mentioned in para - 7 of the Direction.	-----
MCA Semester - II	-----	-----
MCA Semester - III	-----	Semesters -I & Semester-II taken together
MCA Semester -IV	-----	

10. Without prejudice to the other provisions of Ordinance No.6 relating to the Examinations in General, the provisions of Paragraphs 5,7,8,10,26 and 31 of the said ordinance shall apply to every collegiate candidate.
11. For purpose of instructions and examinations the student shall study sequentially.
12. The period of academic session/ term shall be such as may be notified by the University.
13. The Examination shall be held at such places and on such dates as may be notified by the University.
14. The fees for the examination and other fees shall be as prescribed by the University from time to time.
15. The paper and practical in which an examinee is to be examined the maximum marks for these and the minimum pass marks which an examinee must obtain in order to pass in the subjects and the examination shall be as per Appendix-A.
16. (i) The scope of the subject is as indicated in the syllabus.  
(ii) The medium of instruction and examination shall be English.
17. The examinee at each of the examination shall have option of not being declared successful at the examination in case he / she does not secure a minimum of grade equivalent to 55% marks at the examination. This option will have to be exercised every time the application is submitted to any of the examinations. Once this option is exercised, the option shall be binding on the examinee and it cannot be revoked under any circumstances.
18. The classification of the examinees successful at the end semester examinations and at the end of final semester examination shall be as per the rules and regulations of Choice Based Credit System as prescribed in appendices, appended with this direction.
19. Any candidate who has obtained less than 55% of marks at the MCA examination of this University shall be eligible to take the examination again under this Direction in the same subject or group of subjects as the case may be for improvement of the percentage. In such cases, the provision of Ordinance No. 4 of 1996, as amended from time to time, relating to the improvement of Division shall apply.
20. The provisions of Direction no. 3 of 2007 ( with all its modifications and replacement) for the award of grace marks for passing an examination, securing higher grade in subject(s) shall apply to the examination under this Direction.



21. An examinee who does not pass or who fails to present himself/ herself for examination shall be eligible for readmission to the same examination, on payment of fresh fees and such other fees as may be prescribed by the University.
22. The names of the successful examinee passing the examination as a whole in the minimum prescribed period and securing the grades equivalent to first and second division shall be arranged in order of merit as provided in ordinance 6 relating to examination in general.
23. No candidate shall be admitted to an examination under this Direction, if he / she has already passed the same examination of this University or of any other University.
24. Successful examinees at the M. C. A. Semesters I, II, III & IV Examinations shall be entitled to receive a Certificate (mark sheet) signed by the Director, Board of Examination & Evaluation of University and successful examinees at the end of M. C. A. Semester IV examination shall, on payment of prescribed fees, receive a Degree in the prescribed format, signed by the Vice-Chancellor.
25. This programme is based on Choice Based Credit System and therefore, it will be also regulated by guidelines and regulation given in appendices which are part of this Direction.
26. Absorption scheme for failure students:
  - a) While switching over to Choice Based Credit System, the failure students will be given Five chances to clear the examination.
  - b) The candidates who have cleared first and second semester of MCA Part I of Semester Pattern examination shall get admission to First Semester of MCA Part I of the Choice Based Credit System directly.
  - c) The candidates who have cleared Third and Fourth semester of MCA Part II of the Semester Pattern examination shall get admission to Third Semester of MCA Part II of the Choice Based Credit System directly. However, candidates who are allowed to keep term will not be eligible for admission to Third Semester of MCA Part II of the Choice Based Credit System unless they clear all the papers and practicals of Third and Fourth semester of MCA Part II of the Semester Pattern examination.
27. Ordinance No.16 of 2009 stands repealed from the date of issuance of this Ordinance.
28. All the actions pertaining to admission of the students prior to the date of issuance of this Direction shall be deemed to have been done in pursuance of the provisions of this Direction and the onward journey of the students admitted to the programme governed by this Direction shall be as per the provisions of this Direction.
29. Any doubt or question arising out of interpretation/implementation of the provisions of this Direction shall be referred to the decision of the Hon'ble Vice-Chancellor whose decision in the matter shall be final and binding on all the concerned parties.

NAGPUR  
DATED: 17-12-2020.

  
(Dr. Subhash R. Chaudhari)  
VICE-CHANCELLOR

### Appendix-A

Scheme of teaching and examination under Semester Pattern Choice Based Credit System (CBCS)  
for M.C.A. (Master in Computer Application) (2 Years )

First Year M.C.A. Semester I( Master in Computer Application) (CBCS)												
Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme					
		Th	Pract	Total	Duration in hrs.		Max. Marks		Total Marks	Minimum Passing Marks		
							External Marks	Internal Ass		Th	Pract	
Paper 1 Core	IT1 Advanced Java Programming	4	-	4	4	3	80	20	100	40	-	
Paper 2 Core	IT2 Data Communication and Network	4	-	4	4	3	80	20	100	40	-	
Paper 3 Core	IT3 Open source Web Programming using PHP	4	-	4	4	3	80	20	100	40	-	
Paper 4 Core	IT4 Advanced DBMS and Administration	4	-	4	4	3	80	20	100	40	-	
Paper 5 Core	IT5 Software Engineering	4	-	4	4	3	80	20	100	40	-	
Practical 1	IP1 based on IT1, IT2 and IT3	-	7	7	4	3	100	-	100	-	40	
Practical 2	IP2 based on IT4 and IT5	-	7	7	4	3	100	-	100	-	40	
<b>TOTAL</b>		<b>20</b>	<b>14</b>	<b>34</b>	<b>28</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>350</b>		



**First Year M.C.A. Semester II ( Master in Computer Application) (CBCS)**

Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Duration in hrs.	Examination Scheme				
		Th	Pract	Total			Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Paper 1 Core	2T1 C# and ASP .NET	4	-	4	4	3	80	20	100	40	-
Paper 2 Core	2T2 Cloud Computing	4	-	4	4	3	80	20	100	40	-
Paper 3 Core	2T3 Computer Graphics	4	-	4	4	3	80	20	100	40	-
Paper 4 Core Elective 1	2T4 CE1-1 Computer Architecture and Organization CE1-2 Operation Research CE1-3 Cyber Forensics	4	-	4	4	3	80	20	100	40	-
Paper 5 Core	2T5 Android Programming	4	-	4	4	3	80	20	100	40	-
Practical 1	2P1 based on 2T1, 2T2 and 2T3	-	6	6	4	3	100	-	100	-	40
Practical 2	2P2 based on 2T4 and 2T5	-	6	6	4	3	100	-	100	-	40
Project	Project	-	3	3	4	30 minutes	100	-	100	-	40
<b>TOTAL</b>		<b>20</b>	<b>15</b>	<b>35</b>	<b>32</b>		<b>700</b>	<b>100</b>	<b>800</b>	<b>400</b>	



Second Year M.C.A. Semester III( Master in Computer Application) (CBCS)											
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Paper 1 Core	3T1 Big Data Analytics	4	-	4	4	3	80	20	100	40	-
Paper 2 Core	3T2 Data Mining	4	-	4	4	3	80	20	100	40	-
Paper 3 Core	3T3 Python Programming	4	-	4	4	3	80	20	100	40	-
Paper 4 Core Elective 2	3T4 CE2-1 Artificial Intelligence CE2-2 Mobile Computing CE2-3 Machine Learning	4	-	4	4	3	80	20	100	40	-
Paper 5 Core	3T5 Soft Computing	4	-	4	4	3	80	20	100	40	-
Practical 1	3P1 based on 3T1, 3T2 and 3T3	-	7	7	4	3	100	-	100	-	40
Practical 2	3P2 based on 3T4 and 3T5	-	7	7	4	3	100	-	100	-	40
<b>TOTAL</b>		<b>20</b>	<b>14</b>	<b>34</b>	<b>28</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>350</b>	



Second Year M.C.A. Semester IV( Master in Computer Application) (CBCS)											
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Duration in hrs.	Examination Scheme				
		Th	Pract	Total			Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Marks		Th	Pract
Project Work - Full Time	Project Work - Full Time	-	-	-	24	3	300	300	600	-	240
Seminar	Seminar	-	-	-	08	30 minute	100	100	200	-	80
	<b>TOTAL</b>	-	-	-	<b>32</b>		<b>400</b>	<b>400</b>	<b>800</b>	-	<b>320</b>

Note: Th = Theory; Pr = Practical/lab,  
The Practical and Project shall be evaluated by both External and Internal Examiner in the respective Department / Center / Affiliated College as per guidelines appended with this direction.

### 1. Core Elective Papers

#### Semester II -Elective 1

- Computer Architecture and Organization
- Operation Research
- Cyber Forensics

#### Semester III - Elective 2

- Artificial Intelligence
- Mobile Computing
- Machine Learning

### 2. Project Work

Every student is required to carry out a full time project work in semester IV.



### 3. Seminar

In MCA semester IV, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in Computer Science/ application. The topic of the seminar will be decided at the beginning of the semester in consultation with the supervising teachers. The student has to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees, and students. The students should submit the seminar report typed and properly bound in two copies to the head of the department. The said shall be evaluated by the concerned supervisor / head of the department. The marks of the seminar shall be forwarded to the university within due period through head of the Department. The record of the seminar should be preserved till the declaration of the final result.

### 4. Internal Assessment:

- i) The internal assessment marks shall be awarded by the concerned teacher.
- ii) The internal assessment shall be completed by the College / University at least 15 days prior to the final examination of each semester. The Marks shall be sent to the University immediately after the Assessment in the prescribed format.
- iii) For the purpose of internal assessment the University Department / College shall conduct one to three assignments described below. Best two scores of a student in these tests shall be considered to obtain the internal assessment score of that student.
- iv) General guidelines for Internal Assessment are:
  - a) The internal assessment marks assigned to each theory paper shall be awarded on the basis of assignments like class test, attendance, home assignments, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
  - b) There shall be one to three assignments (as described above) per Theory paper.
  - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the Internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
  - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
  - e) At the beginning of each semester, every teacher / department / college shall inform his / her students unambiguously the method he / she propose to adopt and the scheme of marking for internal assessment.
  - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.
  - g) Final submission of internal marks to the University shall be before the commencement of the University Theory / Practical examinations whichever is later.

### 5 Practical Examination

- i) Each practical carries 100 marks. For the examination, the distribution of the marks shall be as follows:



- a. Record / Journal / Internal assessment : 20 marks – Evaluated by Internal Examiner
- b. Practical Performance & Viva-voce: 80 marks – Evaluated jointly by External & Internal Examiner.

**Note:** Practical performance shall be jointly evaluated by the External and Internal Examiner. In case of discrepancy, the External Examiner's decision shall be final.

- ii) Practical examination shall be of 3 hours duration.
- iii) The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department.
- iv) If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.
- v) The certificate template shall be as follows:

### CERTIFICATE

Name of the college / institution \_\_\_\_\_

Name of the Department: \_\_\_\_\_

This is to certify that this Practical Record contains the bonafide record of the Practical work of Shri / Shrimati / Kumari \_\_\_\_\_ of M.C.A. \_\_\_\_\_

Semester \_\_\_\_\_ during the academic year \_\_\_\_\_. The candidate has satisfactorily completed the experiments prescribed by Rashtrasant Tukadoji Maharaj Nagpur University for the subject \_\_\_\_\_

Dated \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_

Signature of the teacher who taught the examinee

1. \_\_\_\_\_

2. \_\_\_\_\_

Head of the Department

#### 6. General Rules and Regulations regarding pattern of question paper, absorption scheme and choice based credit system:

##### A) Pattern of Question Paper

- 1. There will be four units in each paper.
- 2. Maximum marks of each theory paper will be 80.



3. Question paper will consist of five questions, each of 16 marks.
4. Four questions will be on four units with internal choice (One question on each unit).
5. Fifth question will be compulsory with questions from each of the four units having equal weightage and there will be no internal choice

**B) Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)**

MCA Program shall consist of four semesters, wherein the student has to complete 120 credits. Each subject (or course) has fixed number of credits. The types of subject subheads are: Core , Core Elective, Practical, Seminar and Project.

**Credits:**

It is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is approximately equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work per week. If a student is declared pass in a subject, then he/she gets the credits associated with that subject. Depending on the marks scored in a subject, student is given a Grade. Each grade has got certain grade points as follows:

Letter Grade	O	A+	A	B+	B	C	P	F	Ab
Grade Point	10	09	08	07	06	05	04	0	0

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

**Valuation pattern:**

Every credit is for 25 marks and valuation and grade points will be given as per following pattern.

Marks obtained in Theory / Practical of 100 marks	Letter Grade	Grade point
91-100	O	10
81-90	A+	09
71-80	A	08
61-70	B+	07
51-60	B	06
41-50	C	05
= 40	P	04
<40	F	0
Ab	Ab	0

**Computation of SGPA and CGPA**

Following is the procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

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



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

where  $C_i$  is the number of credits of the  $i^{th}$  course and  $G_i$  is the grade point scored by the student in the  $i^{th}$  course.

### Illustration for SGPA

#### Semester I

Paper	Theory / Practical	Credits	Marks Obtained	Out of	Grade Point	Grade Letter	Credit Point (Credit x Grade Point)
1	Paper 1	4	91	100	10	O	4x10=40
2	Paper 2	4	89	100	9	A+	4x9=36
3	Paper 3	4	50	100	5	C	4x5=20
4	Paper 4	4	78	100	8	A	4x8=32
5	Paper 5	4	60	100	6	B	4x6=24
Practical	Practical 1	4	89	100	9	A+	4x9=36
Practical	Practical 2	4	85	100	9	A+	4x9=36
<b>Total</b>		<b>28</b>					<b>224</b>

Thus,  $SGPA = 224/28 = 8.00$

#### Semester II

Paper	Theory / Practical	Credits	Marks Obtained	Out of	Grade Point	Grade Letter	Credit Point (Credit x Grade Point)
1	Paper 1	4	91	100	10	O	4x10=40
2	Paper 2	4	89	100	9	A+	4x9=36
3	Paper 3	4	50	100	5	C	4x5=20
4	Paper 4	4	78	100	8	A	4x8=32
5	Paper 5	4	60	100	6	B	4x6=24
Practical	Practical 1	4	89	100	9	A+	4x9=36
Practical	Practical 2	4	85	100	9	A+	4x9=36
Project	Project	4	91	100	10	O	4x10=40
<b>Total</b>		<b>32</b>					<b>264</b>

Thus,  $SGPA = 264/32 = 8.25$

ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

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

where  $S_i$  is the SGPA of the  $i^{\text{th}}$  semester and  $C_i$  is the total number of credits in that semester.

**Illustration for CGPA**

Semester I	Semester II	Semester III	Semester IV
Credit : 28	Credit : 32	Credit : 28	Credit : 32
SGPA: 8.00	SGPA: 8.25	SGPA: 9.00	SGPA: 8.25

Thus,

$$CGPA = \frac{28 \times 8.00 + 32 \times 8.25 + 28 \times 9.00 + 32 \times 8.25}{120}$$

$$= \frac{224 + 264 + 252 + 264}{120} = 1004/120 = 8.3666 \text{ i.e. } 8.36$$

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.  
Ex. 7.0765 = 7.08 or 6.5168 = 6.52 etc.

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

**ANNEXURE M. C.A.**

Equivalence of Syllabus / papers between Semester pattern & CBCS syllabus for desirous students

M.C.A. Semester Pattern : Semester-III					M.C.A. (CBCS) Pattern : Semester-I						
S.No.	Code No.	Paper	Name of Paper	Total Marks	Equivalence To	Sem	Code No.	Paper	Name of Paper	Total Marks	Credits
01	3CSA-1	Paper1	E-Commerce	100		I	1T3	Paper3	Open Source Web Programming using PHP	80+20	4
02	3CSA-2	Paper2	Data Communication & Network	100		I	1T2	Paper2	Data Communication and Network	80+20	4
03	3CSA-3	Paper3	Design & Analysis of algorithm	100		I	1T1	Paper1	Advanced Java Programming	80+20	4
04	3CSA-4	Paper4	Operation Research	100		II	2T4 CE1-2	Paper4	Operation Research	80+20	4
05	3CSA-5	Paper5	Database Administration	100		I	1T4 CE1-1	Paper4	Advanced DBMS and Administration	80+20	4
06	3CSA6	Practica I-I	(Based on Oracle)	100		I	1P1	Practical -I	Based on 1T1, 1T2 and 1T3	100	4
07	3CSA7	Practica I-II	(Based on Operation Research using C++)	100		I	1P2	Practical -II	Based on 1T4 and 2T4	100	4
M.C.A. Semester Pattern : Semester-IV					M.C.A. (CBCS) Pattern : Semester-II						
01	4CSA-1	Paper1	Computer Hardware Interfacing	100	II	2T5	Paper5	Android Programming	80+20	4	
02	4CSA-2	Paper2	Distributed Database Management System	100	II	2T2	Paper2	Cloud Computing	80+20	4	
03	4CSA-3	Paper3	Computer Graphics	100	II	2T3	Paper3	Computer Graphics	80+20	4	
04	4CSA-4	Paper4	Distributed Operating System	100	II	2T4	Paper4	Cyber Forensics	80+20	4	
05	4CSA-5	Paper5	C# & Dot Net	100	II	2T1	Paper1	C# & ASP Net	80+20	4	
06	4CSA6	Practica I-I	(Based on C# & Dot Net)	100	II	2P1	Practical -I	Based on 2T5, 2T2 and 2T3	100	4	
07	4CSA7	Practica I-II	(Based on Computer Graphics C++)	100	II	2P2	Practical -II	Based on 2T4 and 2T1	100	4	
08	4CSA8	Project	(Using C++, C# or Java & Application area related to one of the subject studies till now)	100	II	Projec t	Project		100	4	



If the candidate has failed in any of the papers mentioned below					Then, the candidate shall appear and clear the paper chosen in the respective row as equivalent paper							
<b>M.C.A. Semester Pattern : Semester-V</b>					<b>M.C.A. (CBCS) Pattern : Semester-III</b>							
S.No.	Code No.	Paper	Name of Paper		Total Marks	Slm	Code No.	Paper	Name of Paper	Total Marks	Credits	
01	5CSA-1	Paper1	Data Warehousing and Data Mining		100	Expenditure To	III	3T2	Paper2	Data Mining	80+20	4
02	5CSA-2	Paper2	Embedded System		100		III	3T3	Paper3	Python Programming	80+20	4
03	5CSA-3	Paper3	Network Security		100		III	3T1	Paper1	Big Data Analytics	80+20	4
04	5CSA-4	Paper4	Elective-I	(a) Legal Aspects of IT (b) Software Engineering	100		III	3T4 CE2-1	Paper4	Artificial Intelligence	80+20	4
05	5CSA-5	Paper5	Elective-II	(a) VB.NET (b) ASP.NET	100		III	3T5	Paper5	Soft Computing	80+20	4
06	5CSA6	Practical-I	(Based on Embedded Systems, Network Security & Data Warehousing & Data Mining)		100		III	3P1	Practical-I	Based on 3T2, 3T3 and 3T1	100	4
07	5CSA7	Practical-II	(Based on Elective-I or Elective-II)		100		III	3P2	Practical-II	Based on 3T4 and 3T5	100	4
<b>M.C.A. Semester Pattern : Semester-VI</b>					<b>M.C.A. (CBCS) Pattern : Semester-IV</b>							
01	6CSA-1	Project	Project Work - Full Time Project Seminar		450 250	IV	Project	Project	Project Work - Full Time	600	24	
02	6CSA-2	Seminar	Project Seminar		100	IV	Seminar	Seminar	Seminar	200	8	

RASHTRASANT TUKDOJI MAHARAJ NAGPUR  
UNIVERSITY,NAGPUR

## **MCA (2 Years) Syllabus and Scheme**

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2020-2021 & Onwards

Choice Based Credit System (CBCS) (Semester Pattern)

Faculty of Science and Technology  
Rashtrasant Tukdoji Maharaj Nagpur University,Nagpur

## Appendix-A

### Scheme of teaching and examination under Semester Pattern Choice Based Credit System (CBCS) for M.C.A. (Master in Computer Application) (2 Years )

<b>First Year M.C.A. Semester I( Master in Computer Application) (CBCS)</b>												
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme						
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks		
							External Marks	Internal Ass		Th	Pract	
Paper 1 Core	1T1 Advanced Java Programming	4	-	4	4	3	80	20	100	40	-	
Paper 2 Core	1T2 Data Communication and Network	4	-	4	4	3	80	20	100	40	-	
Paper 3 Core	1T3 Open source Web Programming using PHP	4	-	4	4	3	80	20	100	40	-	
Paper 4 Core	1T4 Advanced DBMS and Administration	4	-	4	4	3	80	20	100	40	-	
Paper 5 Core	1T5 Software Engineering	4	-	4	4	3	80	20	100	40	-	
Practical 1	1P1 based on 1T1, 1T2 and 1T3	-	7	7	4	3	100	-	100	-	40	
Practical 2	1P2 based on 1T4 and 1T5	-	7	7	4	3	100	-	100	-	40	
<b>TOTAL</b>		<b>20</b>	<b>14</b>	<b>34</b>	<b>28</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>350</b>		

**First Year M.C.A. Semester II ( Master in Computer Application) (CBCS)**

Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme				
		Th	Pract	Total	Duration in hrs.		Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Paper 1 Core	2T1 C# and ASP .NET	4	-	4	4	3	80	20	100	40	-
Paper 2 Core	2T2 Cloud Computing	4	-	4	4	3	80	20	100	40	-
Paper 3 Core	2T3 Computer Graphics	4	-	4	4	3	80	20	100	40	-
Paper 4 Core Elective 1	2T4 CE1-1 Computer Architecture and Organization CE1-2 Operation Research CE1-3 Cyber Forensics	4	-	4	4	3	80	20	100	40	-
Paper 5 Core	2T5 Android Programming	4	-	4	4	3	80	20	100	40	-
Practical 1	2P1 based on 2T1, 2T2 and 2T3	-	6	6	4	3	100	-	100	-	40
Practical 2	2P2 based on 2T4 and 2T5	-	6	6	4	3	100	-	100	-	40
Project	Project	-	3	3	4	30 minutes	100	-	100	-	40
<b>TOTAL</b>		<b>20</b>	<b>15</b>	<b>35</b>	<b>32</b>		<b>700</b>	<b>100</b>	<b>800</b>	<b>400</b>	

**Second Year M.C.A. Semester III( Master in Computer Application) (CBCS)**

Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Paper 1 Core	3T1 Big Data Analytics	4	-	4	4	3	80	20	100	40	-
Paper 2 Core	3T2 Data Mining	4	-	4	4	3	80	20	100	40	-
Paper 3 Core	3T3 Python Programming	4	-	4	4	3	80	20	100	40	-
Paper 4 Core Elective 2	3T4 CE2-1 Artificial Intelligence CE2-2 Mobile Computing CE2-3 Machine Learning	4	-	4	4	3	80	20	100	40	-
Paper 5 Core	3T5 Soft Computing	4	-	4	4	3	80	20	100	40	-
Practical 1	3P1 based on 3T1, 3T2 and 3T3	-	7	7	4	3	100	-	100	-	40
Practical 2	3P2 based on 3T4 and 3T5	-	7	7	4	3	100	-	100	-	40
<b>TOTAL</b>		<b>20</b>	<b>14</b>	<b>34</b>	<b>28</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>350</b>	

Second Year M.C.A. Semester IV( Master in Computer Application) (CBCS)											
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Marks		Th	Pract
Project Work - Full Time	Project Work - Full Time	-	-	-	24	3	300	300	600	-	240
Seminar	Seminar	-	-	-	08	30 minutes	100	100	200	-	80
	<b>TOTAL</b>	-	-	-	<b>32</b>		<b>400</b>	<b>400</b>	<b>800</b>	-	<b>320</b>

Note: Th = Theory; Pr = Practical/lab,

The Practical and Project shall be evaluated by both External and Internal Examiner in the respective Department / Center / Affiliated College as per guidelines appended with this direction.

**RASHTRASANT TUKDOJI MAHARAJ  
NAGPUR UNIVERSITY,  
NAGPUR**

**FACULTY OF SCIENCE**

**BOARD OF STUDIES IN COMPUTER SCIENCE**

**SYLLABUS FOR**

**B.C.A. Three Years (SIX SEMESTER) DEGREE COURSE**

**(FROM SESSION 2014-15)**



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

**FACULTY OF SCIENCE**

**DIRECTION NO. 4 OF 2014**

**DIRECTION GOVERNING THE EXAMINATION LEADING TO  
THE DEGREE OF BACHELOR OF COMPUTER APPLICATIONS**

**(THREE YEARS DEGREE COURSE – SEMESTER PATTERN)**

**(Issued under Section 14(8) of the Maharashtra Universities Act,1994)**

**Whereas**, Maharashtra Universities Act No. XXXV has come into force with effect from 22<sup>nd</sup> July, 1994 and further amended by Maharashtra Universities (Amendment and Continuance) Act, 2003, hereinafter referred as ‘Act’ has come into force from 8<sup>th</sup> August 2003.

AND

**Whereas**, the University Grants Commission, New Delhi vide letter No.D.O.No.F 1-2/2008/(XI Plan), dated.31 Jan.2008 regarding new initiatives under the XIth Plan – Academic Reforms in the University has suggested for improving quality of higher education and to initiate the Academic Reforms at the earliest.

AND

**Whereas**, the Board of Studies in all the Science subjects in their meeting held during 28.6.2013 prepared the syllabi and scheme of examination for the B.C.A. degree course and recommended for starting of the semester pattern in Faculty of Science from the academic session 2014-15,

AND

**Whereas**, the recommendations of various Board of Studies in the faculty of Science regarding Up-gradation and Revision of various syllabi and introduction and implementation of Semester Pattern Examination System at under graduate level was considered by the faculty of Science in its meeting held on 9.7.2013 and constituted a Committee to decide the policy decision regarding semester pattern examination system.

AND

**Whereas**, the Dean, Faculty of Science has consented to the syllabi and the scheme of examination for the award of B.C.A. degree in Faculty of Science,

AND

**Whereas**, the faculty of Science in its meeting held on 9.7.2013 vide item No. 35, has considered, accepted and recommended to Academic Council, the policy decision regarding introduction of Semester pattern and the draft syllabi of B.C.A. Semester-I & VI along with draft direction and other details.

AND



**Whereas**, the new scheme of examination as per semester pattern is to be implemented from the Academic Session 2014-15 for B.C.A. First Year & onwards which is to be regulated by this direction and as such there is no direction issued and in existence and framing of an Ordinance for the above examination is a time consuming process.

AND

**Whereas**, the admission of students in the semester pattern at B.C.A. First Year are to be made in the Academic Session 2014-15.

Now, therefore, I, Anoop Kumar, Vice Chancellor of Rashtrasant Tukadoji Maharaj Nagpur University, in exercise of powers conferred upon me under sub-section (8) of section 14 of the Maharashtra Universities Act., 1994, do hereby direct as under:

1. This Direction may be called, "**Examination leading to the Degree of Bachelor of Computer Applications (Three Year Degree Course-Semester Pattern)**."
2. This direction shall come into force with effect from the date of its issuance.
3. (i) The following shall be the examination leading to the Degree of Bachelor of Computer Applications in the faculty of Science namely:
  - a. The B.C.A. Semester-I Examination;
  - b. The B.C.A. Semester-II Examination;
  - c. The B.C.A. Semester-III Examination;
  - d. The B.C.A. Semester-IV Examination;
  - e. The B.C.A. Semester-V Examination; and
  - f. The B.C.A. Semester-VI Examination.(ii) The period of Academic Session shall be such, as may be notified by the University.
4. The theory examination of Semester-I, II, III, IV, V and VI shall be conducted by the University and shall be held separately at the end of each semester at such places and dates as may be decided by the University and shall be held as per the schedule given in Table 1.

Table 1			
Sr. No	Name of the Examination	Main Examination	Supplementary Examination
1	Semester I, III and V	Winter	Summer
2	Semester II, IV, and VI	Summer	Winter

**5.** Subject to compliance with the provisions of this Direction and of other Ordinances in force from time to time, the following persons shall be eligible for admission to the examinations:-

- (a) A student who has prosecuted a regular course of study for not less than one academic year prior to that examination;
- (b) A teacher in an Educational Institution eligible under the provisions of Ordinance No. 18, and
- (c) A women candidate who has not pursued a regular course of study.

Provided that in the case of the persons eligible under clauses (b) and (c), an applicant to the examination shall have attended a full course of laboratory instructions in a College in the subject in which laboratory work is prescribed. The candidate shall submit a Certificate to that effect signed by the Principal of the college.

6. Eligibility of every applicant for admission to B.C.A. Semester course shall:-

A) In case of the B.C.A. Semester I examination:-

The candidate should have passed the 12<sup>th</sup> Standard Examination of the Maharashtra State Board of Secondary and Higher Secondary Education with English and other Modern Indian Languages together with mathematics or an examination recognized as equivalent thereto in such subjects and with such standards of attainments as may be prescribed.

Provided that students passing the 12<sup>th</sup> Standard Examination of the Maharashtra State Board of Secondary and Higher Secondary Education and offering Vocational Stream with mathematics shall be eligible for admission to the B.C.A. Semester I course.

**B) In case of the B.C.A. Semester II, III, IV, V and VI Examinations:-** The student should have attended a minimum of 90 days in the respective semester and passed the previous semester examination as per the rules of ATKT as mentioned in Para 7 of this direction.

7) The ATKT rules for admission for the B.C.A. Course (**Theory and Practical as separate passing head and on calculation fraction, if any, shall be ignored**) shall be as given in the following Table- 2.

Table 2

Admission to Semester	The student should have attended the Session / term satisfactorily	Candidates should have passed at least one half of the passing heads of the following examinations (Theory and Practical as separate passing head and on calculation fraction, if any, shall be ignored)
1	2	3
B.C.A. Semester I	Semester I and admitted As per para 6 of this Direction	-----
B.C.A. Semester II	Semester II	-----
B.C.A. Semester III	Semester III	One half of the total head prescribed for Sem I and Sem II examination
B.C.A. Semester IV	Semester IV	-----
B.C.A. Semester V	Semester V	a) Passed Sem I & II examination and b) One half of the total head prescribed for Sem III & IV examination
B.C.A. Semester VI	Semester VI	-----

8. a) Without prejudice to the other provisions of Ordinance No. 6 relating to the Examinations in General, the provisions of Paragraph 5, 8, 10 and 31 of the said ordinance shall apply to every candidate.

b)The students admitted to this Degree course shall be governed by the general Ordinances / Directions of the University which are applicable to all the regular or ex-students. These Ordinances includes complete as well as relevant provision of Ordinance No. 1, 2, 6, 7-A, 9, 10, 19, 109, Ordinance No. 30 of 2006, (amended Ordinance No. 4 of 2006), Direction 9 of 2008, Direction 5 of 2004 wherever applicable accordingly AND 8

Direction / Ordinance of ATKT as well as reassessment / provisional admission as issued from time to time.

9. The fee for each Semester examination shall be as prescribed by the University from time to time.

10. Every examinee for the B.C.A. Semester I & II examination shall be examined in:

i) Compulsory English

ii) Any one of the following Languages

Marathi, Hindi, Urdu, Supplementary English, Gujarati, Bengali, Telugu, Sanskrit, French, German, Russian, Persian, Arabic, Pali and Prakrit or Latin

iii) six papers and three practicals at respective semester.

11. The Scope of the subjects of all semesters of B.C.A. examination shall be as indicated in the respective syllabi in force from time to time. The medium of instruction and examination shall be English, except for the courses in Languages.

12. The maximum marks allotted to each subject and the minimum marks which an examinee must obtain in order to pass the examination shall be as per the Appendix A appended to this Direction.

13. The practical examination of all semesters shall be conducted at the end of each semester as indicated in Table 3 given below.

Table 3

S. No	Name of the Examination	Main Examination	Supplementary Examination
1	Semester I, III and V	Winter	Summer
2	Semester II, IV, and VI	Summer	Winter

14. The scheme of awarding internal marks shall be as per Appendix- B appended with this Direction.

15. Successful examinees at the B.C.A. Sem-VI Examination who obtained not less than 60% marks (aggregate of Sem-I, II, III, IV, V & VI Examinations taken together, excluding Languages) shall be placed in First Division, those obtaining less than 60% but not less than 45% in Second Division, and all other successful examinees in the Third Division.

**Explanation :**

Division at the B.C.A. Examination shall be declared on the basis of the marks obtained only in the Subjects other than languages at the Sem-I, II, III, IV, V & VI Examinations taken together.

16. There shall be no classification of successful examinees at the Sem-I to Sem-V Examinations.

17. An examinee successful in the minimum period prescribed for the examination, obtaining not less than 75% of the maximum marks prescribed in the subject shall be declared to have passed the examination with Distinction in that subject.

Explanation :

- (1) Distinction shall be awarded only in the Science Subjects.
- (2) Distinction at the B.C.A. Examination shall be awarded on the basis of the marks obtained at the B.C.A. Semester - I, II, III, IV, V and Semester VI Examination taken together.
- (3) Distinction shall not be awarded to an examinee availing of the provision of the exemptions and compartments at any of the examination.

**18.** Provisions of Ordinance No 7-A relating to the Condonation of Deficiency of Marks for passing an examination and compartment as amended up-to-date vide ordinance No. 45 of 1983 shall apply to the examinations under this Direction.

19. As soon as possible after the examinations, the Board of Examinations shall publish a list of successful examinees at the B.C.A. Sem-I & II; B.C.A. Sem-III & IV and B.C.A. Sem-V & VI Examinations. Such list at the B.C.A. Semester VI Examination shall be arranged in three Divisions. The names of the examinees passing the examination as a whole in the minimum prescribed period and obtaining the prescribed number of places in First or Second Division shall be arranged in Order of Merit as provided in the Examinations in General Ordinance No. 6. While preparing the Merit list for the B.C.A. Examination the marks secured by the candidate in the compulsory languages at their Semester I & II Examination will be taken into consideration in addition to the marks scored by them in their optional subjects.

20. No Person shall be admitted to B.C.A. Sem-I, II, III, IV, V and VI Examinations, if he/she has already passed the corresponding or an equivalent examination of any other Statutory University.

21. Successful examinees at the B.C.A. Sem I, II, III, IV, and V Examinations shall be entitled to receive a **Certificate** signed by the **Registrar** and successful examinees at the end of B.C.A. Sem VI examination shall, on payment of prescribed fees, receive a Degree in the prescribed format, signed by the Vice-Chancellor.

22. The provisions of direction no. 3 of 2007 for the award of grace marks for passing an examination, securing higher grade in subject(s) as updated from time to time shall apply to the examination under this direction.

**23. Absorption Scheme:**

- a) While switching over to semester pattern, the failure students of annual pattern will be given three chances to clear the examination.
- b) The candidates who have cleared first year annual pattern examination in the subject shall get admission to third semester directly by matchable scheme. However, candidates who are allowed to keep term will not be eligible for admission to third semester unless they clear all the papers and practicals of first year annual pattern examination.
- c) The candidates who have cleared second year annual pattern examination in the subject shall get admission to fifth semester directly by matchable scheme.. However, candidates who are allowed to keep term will not be eligible for admission to fifth semester unless they clear all the papers and practicals of second year annual pattern examination.
- d) The unsuccessful students of old course (Yearly pattern) shall be permitted to appear for higher class as per the new course (Semester Pattern) examination of the Bachelor of Computer Applications programme (Semester Pattern) provided that they submit a certificate from the Head of the Department/Principal of the College stating that they have satisfactorily undergone a course of study in all the subjects of the new course.

- e) The absorption scheme of the Bachelor of Computer Applications programme (Semester Pattern) will be effective till the introduction of new syllabus with the new absorption scheme.
- f) For other Statutory University candidates with similar yearly pattern program point No. 23 'a', 'b' and 'c' shall be applicable.
- g) For other Statutory University candidates with Semester pattern Bachelor of Computer Applications program the Candidates shall be admitted to next higher semester provided that he/she shall have cleared previous semester and a R.T.M. Nagpur University Committee constituted from time to time for the purpose shall scrutinize and clear the case on the basis of subject and syllabus contents of his / her previous semester exam of the other Statutory University.

Nagpur

Date : 16.5.2014

**Sd/-  
(Anoop Kumar)**

**Vice-Chancellor**

## Appendix - B:

### **Guidelines for Internal Assessment, Theory paper pattern and Practical**

1. Each semester shall comprise of minimum 90 teaching days.
2. Each semester will comprise
  - a. six theory papers – 50 Marks each
  - b. internal assessment for each paper - 10 Marks each.
  - c. three practicals –30 marks each
3. In addition to the above, Semester I and II will have
  - a. One compulsory English paper of 60 marks with 15 marks internal assessment, Total 75 marks.
  - b. One second language paper (Marathi, Hindi, Urdu, Supplementary English, Gujarati, Bengali, Telugu, Sanskrit, French, German, Russian, Persian, Arabic, Pali and Prakrit or Latin) of 60 Marks with 15 marks internal assessment, Total 75 marks.

#### Internal Assessment:

4. The internal assessment shall be done by the College at least 15 days prior to the final examination of each semester. The Marks shall be sent to the University immediately after the Assessment in the prescribed format.
5. Guidelines for Internal Assessment are appended herewith.
  - a) The internal assessment marks assigned to each theory paper as mentioned in Appendix - A shall be awarded on the basis of assignments like class test, attendance, project assignments, seminar, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
  - b) There shall be one / two assignments (as described above) per Theory paper.
  - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the Internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
  - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
  - e) At the beginning of each semester, every teacher shall inform his / her students unambiguously the method he / she proposes to adopt and the scheme of marking for internal assessment.
  - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / principal.
  - g) Final submission of internal marks to the University shall be before the commencement of the University Theory examinations.

#### Theory Papers:

6. All Theory papers shall be divided into four units.
7. The theory question papers shall be of 3 hours duration and comprise of 5 questions with equal weightage to all units.
8. The pattern of question papers is appended herewith.

Each theory paper will be of 50 marks each. All questions are compulsory and will carry equal marks.

Question paper for any theory paper will comprise of five questions of 10 marks each. Question No. 1 to 4 will be from four units each with an internal choice. The questions can be asked in the form of long answer type for 10 marks.

Question No. 5 shall be compulsory with three questions / notes of very short answer type from

each of the four units having 1 mark each. The student shall have an option of answering any 10 questions out of the 12 questions.

Practical:

9. Practical exam shall be of 4 hours duration.
10. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department.
11. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.
12. The certificate template shall be as follows:

### C E R T I F I C A T E

Name of the college / institution \_\_\_\_\_  
Name of the Department: \_\_\_\_\_

This is to certify that this Practical Record contains the bonafide record of the Practical work of Shri / Kumari / Shrimati \_\_\_\_\_ of \_\_\_\_\_ Semester \_\_\_\_\_ during the academic year \_\_\_\_\_. The candidate has satisfactorily completed the experiments prescribed by Rashtrasant Tukdoji Maharaj Nagpur University for the subject \_\_\_\_\_

Dated \_\_\_ / \_\_\_ / \_\_\_\_\_

Signature of the teacher who taught the examinee

1. \_\_\_\_\_
2. \_\_\_\_\_

Head of the Department

Appendix-A  
Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Part I (Semester I)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
						Duration Hours	Max Marks Th. Papers	Max. Marks IA	Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks	
1.	-	English	4+1	-	4+1	3	60	15	75	30	-	-	-	75
2.	-	Marathi/Hindi/Urdu/Gujarati/Sanskrit / Suppl. English	3	-	3	3	60	15	75	30	-	-	-	75
3.	Paper-I	Computer Fundamentals	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-II	“C” Programming	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-III	Statistical Methods	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-IV	Discrete Mathematics – I	3	-	3	3	50	10	60	24	-	-	-	60
7.	Paper-V	Operating Systems	3	-	3	3	50	10	60	24	-	-	-	60
8.	Paper-VI	Office Automation	3	-	3	3	50	10	60	24	-	-	-	60
9.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
10.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
11.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

**Note:**

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester I: 450 + 150 = TOTAL = 600 Marks.**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional; of 10% with the permission of Hon'ble Vice-Chancellor.
- Details of Course of Languages shall be as per B.Sc. I



Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Part I (Semester II)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
						Duration Hours	Max Marks Th. Papers	Max. Marks IA	Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks	
1.	-	English	4+1	-	4+1	3	60	15	75	30	-	-	-	75
2.	-	Marathi/Hindi/Urdu, Gujarati, Sanskrit / Suppl. English	3	-	3	3	60	15	75	30	-	-	-	75
3.	Paper-I	Programming In 'C++'	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-II	System Analysis And Design	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-III	Numerical Methods	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-IV	Discrete Mathematics – II	3	-	3	3	50	10	60	24	-	-	-	60
7.	Paper-V	Linux Operating System	3	-	3	3	50	10	60	24	-	-	-	60
8.	Paper-VI	E Commerce	3	-	3	3	50	10	60	24	-	-	-	60
9.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
10.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
11.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

Note:

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester II : 450 + 150 = TOTAL = 600 Marks.**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional 15% of 10% with the permission of Hon'ble Vice-Chancellor.
- Details of Course of Languages shall be as per B.Sc. I

Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Part II (Semester III)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
Duration Hours	Max Marks Th. Papers	Max. Marks IA				Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks				
1.	Paper-I	Visual Basic Programming	3	-	3	3	50	10	60	24	-	-	-	60
2.	Paper-II	Data Base Management System	3	-	3	3	50	10	60	24	-	-	-	60
3.	Paper-III	Data Structures	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-IV	Operations Research – I	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-V	Web Technology - I	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-VI	Digital Electronics – I	3	-	3	3	50	10	60	24	-	-	-	60
7.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
8.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
9.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

Note:

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester III: 450**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional; of 10% with the permission of Hon'ble Vice-Chancellor.

Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Part II (Semester IV)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
Duration Hours	Max Marks Th. Papers	Max. Marks IA				Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks				
1.	Paper-I	Software Engineering-I	3	-	3	3	50	10	60	24	-	-	-	60
2.	Paper-II	Sql And Pl/Sql	3	-	3	3	50	10	60	24	-	-	-	60
3.	Paper-III	Theory Of Computation	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-IV	Operations Research - II	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-V	Web Technology - II	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-VI	Digital Electronics – II	3	-	3	3	50	10	60	24	-	-	-	60
7.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
8.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
9.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

Note:

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester IV: 450**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional; of 10% with the permission of Hon'ble Vice-Chancellor.

Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Final (Semester V)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
Duration Hours	Max Marks Th. Papers	Max. Marks IA				Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks				
1.	Paper-I	Computer Graphics - I	3	-	3	3	50	10	60	24	-	-	-	60
2.	Paper-II	Compiler Construction	3	-	3	3	50	10	60	24	-	-	-	60
3.	Paper-III	VB.Net	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-IV	Software Engineering - II	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-V	PHP - I	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-VI	Data Communication And Network - I	3	-	3	3	50	10	60	24	-	-	-	60
7.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
8.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
9.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

Note:

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester V: 450**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional; of 10% with the permission of Hon'ble Vice-Chancellor.

Teaching & Examination Scheme  
 Bachelor of Computer Application (B.C.A.)  
 Three Year (SIX SEMESTER) DEGREE COURSE  
 B.C.A. Final (Semester VI)

Sr.No.	Papers	Title of Paper	Teaching Scheme			Examination Scheme								
			Th+Tu (Periods)	Pr (Periods)	Total periods	Theory					Practical			Total (Th,Pr,Al)
						Duration Hours	Max Marks Th. Papers	Max. Marks IA	Total	Min Passing Marks	Duration Hours	Max Marks Practical	Min Passing Marks	
1.	Paper-I	Computer Graphics - II	3	-	3	3	50	10	60	24	-	-	-	60
2.	Paper-II	Programming In Java	3	-	3	3	50	10	60	24	-	-	-	60
3.	Paper-III	ASP.Net	3	-	3	3	50	10	60	24	-	-	-	60
4.	Paper-IV	Software Testing	3	-	3	3	50	10	60	24	-	-	-	60
5.	Paper-V	PHP - II	3	-	3	3	50	10	60	24	-	-	-	60
6.	Paper-VI	Data Communication And Network - II	3	-	3	3	50	10	60	24	-	-	-	60
7.	Pactical-I	Practical I – based on paper I & paper II		6	6	-	-	-	-	-	4	30	12	30
8.	Pactical-II	Practical II – based on paper III & paper IV		6	6	-	-	-	-	-	4	30	12	30
9.	Pactical-III	Practical III – based on paper V & paper VI		6	6	-	-	-	-	-	4	30	12	30

Note:

1. Th = Theory; Pr = Practical; Tu = Tutorial; IA = Internal Assessment.
2. Minimum marks for passing will be 40% of the total marks allotted to that paper / practical.
3. Candidate has to pass theory papers and practical separately.

**Grand Total of Semester VI: 450.**

- The strength of Batch of Practical and Tutorial for Under Graduates classes shall be 16 with an additional; of 10% with the permission of Hon'ble Vice-Chancellor.

Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Final (Semester VI)

Valuation Pattern for practical examination:-

The valuation scheme of practical examination will be as under.

Record	-	6
Viva	-	6
Writing	-	09
Execution	-	09
<b>TOTAL</b>	-	<b>30</b>

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Teaching & Examination Scheme  
Bachelor of Computer Application (B.C.A.)  
Three Year (SIX SEMESTER) DEGREE COURSE  
B.C.A. Final (Semester VI)