



**NOTIFICATION**

**Sub:** Partial modification to the Course Patterns and Scheme of different Courses/papers in “Appendix-A of the Regulations Governing the Choice Based Credit System for the Two Years(Four Semesters) Master’s Degree Program in the Faculty of Arts, Science and Commerce” applicable to Bengaluru City University.

- Ref:** 1. Proceedings dated 27.01.2021 of the Committee constituted for suggesting Amendments to the existing PG Regulations of the University.  
2. Resolution of the Academic Council meeting held on 20.12.2021.  
3. Approval of the Vice-Chancellor dated 02.03.2022.

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Consequent upon trifurcation, Bangalore City University has started academic activities from the year 2018-19. As per the Transitory Provisions under Section 7(2) of the Karnataka State Universities (Amendment) Act, 2015, the existing Syllabus and Regulations of Bangalore University have been adopted for different Post Graduate and Under Graduate Courses in the Faculty of Arts, Science, Commerce and Education from the academic year 2018-19 till the Bengaluru City University makes its own Syllabus and Regulations. The credit based semester system provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. With an intention to empowering the academic needs of the students studying in the Bangalore City Colleges and to make the education system of the University at par with the global practices in terms of academic standards and evaluation strategies, retaining the present structures of the undergraduate and post-graduate program, the University constituted Experts Committees in the Faculty of Arts, Science and Commerce to develop a unique Syllabus for certain courses under the Regulations governing the Post Graduate Degree Programms under CBCS and CGPA Scheme.

The Academic Council in its meeting held on 15.02.2020 has constituted a Committee to go through the recommendations of these Committees. The Sub-Committee of the Academic Council in its meeting held on 27.01.2021 has made partial modification to the Course Patterns and Scheme of different Courses / papers for PG CBCS Regulations.

The Academic Council in its meeting held on 20.12.2021 has approved the partial modifications to the Course Patters and Scheme of different Courses / papers for PG CBCS Regulations, as per the provision 9.3 of the PG Regulations of Bangalore University, in accordance with Transitory Provisions under Section 7(2) of the Karnataka State Universities (Amendment) Act, 2015.

Pursuant to the resolution of the Academic Council, partially modified Course Patterns and Scheme of different Courses/papers in "Appendix-A of Regulations Governing the Choice Based Credit System for the Two Years(Four Semesters) Master's Degree Program in the Faculty of Arts, Science and Commerce" applicable to Bengaluru City University are notified as per the enclosed Annexure.

By Order,

  
REGISTRAR

To

1. Registrar (Evaluation) Bengaluru City University, Bengaluru.
2. All the Deans, BCU.
3. All Chairpersons of P.G. Depts. and Principals of PG Colleges, BCU.
4. Website notification.

**9. COURSE PATTERN:****9.1 Faculty of Arts**

9.1.1 In the Faculties of Arts for Kannada, English, History, Economics, Political Science, Philosophy, Sociology, and Global Languages subjects; the number of credits per semester will be 20 and a total around 80 credits for the programme except for MSW, MPA (Dance, Theatre & Music)/ Music (Mrudangam) MVA and M. A. in Mass Communication and Journalism. These programmes will have a total of 100 credits per programme. The credits shall be based on the number of instructional hours per week, generally 1 credit per hour of instruction in theory and 1 credit for every 2 hours of practical or project work or internship per week.

9.1.2 In the case of subjects without practical there may be 5 theory courses of 4 hours of instruction each per week. In the case of subjects with practical's, there may be 4+ theory courses of 4 hours instruction each per week and the number of practical courses per week may be as follows:

- a) 4 practical courses of 4 hours duration per week or
- b) 2 practical courses of 8 hours duration per week or

The courses offered in a programme may be the core, elective and soft courses. There shall be Core, soft core courses and open elective of 4 hours of instruction per week. Soft core/optional courses will be in the first, second third and fourth semesters; open electives will be in the second and third semesters whereas the project work will be in the fourth semester. The choice based courses may be offered within the faculty and/or across the faculty

9.1.3 Open Electives will be in second and third semesters. The date/day for classes will be decided by the Dean of the Faculty in consultations with the Chairpersons of the departments

9.1.4 Department shall offer a number of optional courses (soft core) out of which every candidate is required to choose a maximum of six courses during the entire duration of the programme

**9.2 Faculty of Science and Commerce**

9.2.1 In the Faculties of Science and Commerce, the number of credits per semester may vary from 24 to 26, an average of 25 credits per semester and a total of around 96-104 credits for the programme. The credits shall be based on the number of instructional hours per week, generally 1 credit per hour of instruction in theory and 1 credit for every 2 hours of practical or project work or internship per week.

9.2.2 In the case of subjects without practicals there may be 6+ theory courses of 4 hours of instruction each per week. In the case of subjects with practicals, there may be 4+ theory courses of 4 hours instruction each per week and the number of practical courses per week may be as follows:

- a) 4 practical courses of 4 hours duration per week or
- b) 2 practical courses of 8 hours duration per week or

The courses offered in a programme may be the core, elective and soft courses. There shall be soft core courses of 3 hours of instruction per week in the first and second semesters, open electives in the third semester, electives in the fourth semester, and project work in lieu of one or two theory / practicals in the second / third and/or fourth semesters. The choice based courses may be offered within the faculty and/or across the faculty.

**APPENDIX "A"**

**DETAILS OF COURSE PATTERNS AND SCHEMES OF EXAMINATIONS**

**I FACULTY OF ARTS**

1. Economics, English, French, German, Spanish, History, Kannada, Political Science, Sociology, Philosophy.

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I Semester of the Postgraduate Program</b>							
Core Subject	3T*	3x4	3x3	3x30	3x70	3x100	3x4
Soft Core	2T	2x4	2x3	2x30	2x70	2x100	2x4
<b>Semester Total of Credits</b>							20
<b>b) II and III Semester of the PG Program</b>							
Core Subject	3T	3x4	3x3	3x30	3x70	3x100	3x4
Soft Core	1T	1x4	1x3	1x30	1x70	1x100	1x4
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
<b>Semester total of Credits</b>							20
<b>c) IV Semester of the PG Program</b>							
Core Subject	2T	2x4	2x3	2x30	2x70	2x100	2x4
Soft Core	2T	2x4	2x3	2x30	2x70	2x100	2x4
Project Work	PW	8	Report evaluation	1x30	1x70	1x100	1x4
<b>Semester total of Credits</b>							20
<b>Program Grand Total of Credits</b>							80

There may be project work in lieu of the practicals in any Semesters and an elective or a special paper in lieu of the project work in the fourth Semester of the P G Programme and vice versa.

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I/II Semester of the Postgraduate Programme</b>							
<i>Papers</i>	5T*	5x4	5x3	5x30	5x70	5x100	5x4
Practicum	1P	1x12	1x4	1x30	1x70	1x100	1x4
Soft Core	IT	1x3	1x3	1x30	1x70	1x100	1x2
<b>Total of Credits per Semester</b>							26
<b>b) III Semester of the Postgraduate Programme</b>							
<i>Papers</i>	4T	4x4	4x3	4x30	4x70	4x100	4x4
Practicum	1P	1x12	1x4	1x30	1x70	1x100	1x4
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
<b>Semester total of Credits</b>							24
<b>c) IV Semester of the Postgraduate Programme</b>							
<i>Papers</i>	4T	4x4	4x3	4x30	4x70	4x100	4x4
Practicum	1P	1x12	1x4	1x30	1x70	1x100	1x4
	Project Work	12	Report evaluation	1x30	1x70	1x100	1x4
<b>Semester total of Credits</b>							24
<b>Program Grand Total of Credits</b>							100

\* There may be project work in lieu of one of the papers in the second semester of the Program

**MVA**

**Master of Visual Arts, M.V.A. (Applied Arts)**

**Master of Visual Arts (Painting)**

**Master of Visual Arts (Sculpture)**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I/II Semester of the Postgraduate Programme</b>							
Core Subject	3T*	3x4	3x3	3x30	3x70	3x100	3x4
Practicals	3P*	3x8	3x3	3x30	3x70	3x100	3x4
Soft Core	IT	1x3	1x3	1x30	1x70	1x100	1x2
<i>Total of Credits per Semester</i>							26
<b>b) III Semester of the Postgraduate Programme</b>							
Core Subject	2T	2x4	2x3	2x30	2x70	2x100	2x4
Practicals	3P	3x8	3x3	3x30	3x70	3x100	3x4
Open Elective	IT	1x4	1x3	1x30	1x70	1x100	1x4
<i>Semester total of Credits</i>							24
<b>c) IV Semester of the Postgraduate Programme</b>							
Core Subject & electives	2T	2x4	2x3	2x30	2x70	2x100	2x4
	3P	3x8	3x3	3x30	3x70	3x100	3x4
	Project Work	8	Report evaluation	1x30	1x70	1x100	1x4
<i>Semester total of Credits</i>							24
<i>Program Grand Total of Credits</i>							100

\*There may be project work in lieu of one of the practicals in any semester and an elective or a special paper in lieu of the project work in the fourth semester of the PG program and vice-versa.

**M.A in Mass Communication and Journalism**  
**I Semester**

Sem/ Code	Paper Title	Week/ Hour	Duration of Examinati on	IA Marks	Theory Exam Marks	Total	Credits
MCJ:1.1	Introduction to Communication	3 hrs	3 hrs	30	70	100	3
MCJ:1.2	Indian Socio-Eco-Political and Cultural Systems	3hrs	3 hrs	30	70	100	3
MCJ:1.3	Media Laws and Ethics	3hrs	3hrs	30	70	100	3
MCJ:1.4	Translation Techniques	2hrs	2hrs	15	35	50	2
MCJ:1.5	News Reporting and Analysis	2hrs	2 hrs	15	35	50	2
MCJ:1.6	News Processing and Editing	2hrs	2hrs	15	35	50	2
MCJ:1.7	Basic Computer Applications	2hrs	2hrs	15	35	50	2
<b>Soft Core</b>							
MCJ: 1.8	Photo Journalism	3hrs	3hrs	30	70	100	3
<b>PRACTICALS</b>							
MCJ: 1.4A	Translation Techniques	2hrs	1hr	15	35	50	1
MCJ: 1.5A	News Reporting	2hrs	1hr	15	35	50	1
MCJ: 1.6A	News Editing	2hrs	1hr	15	35	50	1
MCJ: 1.7A	Basic Computer Applications	2 hrs	1hr	15	35	50	1
	Total						<b>24</b>

## II Semester

Sem/ Code	Paper Title	Week/ Hour	Duration of Examination	IA Marks	Theory Exam Marks	Total	Credits
MCJ: 2.1	Theories of Communication	3 hrs	3 hrs	30	70	100	3
MCJ: 2.2	Communication for Development	3hrs	3 hrs	30	70	100	3
MCJ: 2.3	Communication Research	3hrs	3hrs	30	70	100	3
MCJ: 2.4	Advertising and Corporate Communication	2 hrs	2 hrs	15	35	50	2
MCJ: 2.5	Introduction to Digital Media Production	2hrs	2 hrs	15	35	50	2
MCJ: 2.6	Introduction to Radio and T.V Journalism	2hrs	2hrs	15	35	50	2
MCJ: 2.7	Lab Journal	2hrs	2hrs	15	35	50	2
<b>Soft Core</b>							
MCJ: 2.8	Media Entrepreneurship	3hrs	3 hrs	30	70	100	3
<b>PRACTICALS</b>							
MCJ: 2.4A	Advertising and Corporate Communication	2hrs	1hr	15	35	50	1
MCJ: 2.5A	Digital Media Production	2hrs	1hr	15	35	50	1
MCJ: 2.6A	Radio and T.V Journalism	2hrs	1hr	15	35	50	1
MCJ: 2.7	Lab Journal	2 hrs	1hr	15	35	50	1
							<b>24</b>



**III Semester**  
**RADIO AND TELEVISION JOURNALISM**

Sem/ Code	Paper Title	Week/ Hour	Duration of Examination	IA Marks	Theory Exam. Marks	Total	Credits
MCJ: 3.1	Writing and Reporting Techniques for Radio	3 hrs	3 hrs	30	70	100	03
MCJ: 3.2	Writing and Reporting Techniques for Television	3hrs	3 hrs	30	70	100	03
MCJ: 3.3	Fundamentals of Audio, Video and Light	3hrs	3hrs	30	70	100	03
MCJ: 3.4	Data Journalism	2 hrs	2 hrs	15	35	50	02
MCJ:3.5	Script writing	2hrs	2 hrs	15	35	50	02
MCJ:3.6	Audio & Video Editing	2hrs	2hrs	15	35	50	02
MCJ:3.7	Lab Journal (Audio and Video Magazine)	2hrs	2hrs	15	35	50	02
MCJ:3.8	Media and Society (OPEN ELECTIVE)	3 hrs	3 hrs	30	70	100	03
<b>PRACTICALS</b>							
MCJ:3.4A	Data Journalism	2hrs	1hr	15	35	50	01
MCJ:3.5A	Script writing	2hrs	1hr	15	35	50	01
MCJ:3.6A	Audio and Video Editing	2hrs	1hr	15	35	50	01
MCJ:3.7A	Lab Journal (Audio and Video Magazine)	2 hrs	1hr	15	35	50	01
	<b>TOTAL</b>					<b>800</b>	<b>24</b>

### IV Semester

Sem/ Code	Paper Title	Week/ Hour	Duration of Examination	IA Marks	Theory Exam. Marks	Total	Credits
MCJ: 4.1	Advertising For Broadcast Media	3 hrs	3 hrs	30	70	100	03
MCJ: 4.2	Film Appreciation	3hrs	3 hrs	30	70	100	03
MCJ: 4.3	Economics of Broadcast Media	3hrs	3hrs	30	70	100	03
MCJ: 4.4	Radio Programme Production	2 hrs	2 hrs	15	35	50	02
MCJ:4.5	Television Programme Production	2hrs	2 hrs	15	35	50	02
MCJ:4.6	Introduction to Virtual Content Development	2hrs	2hrs	15	35	50	02
MCJ:4.7	Production Techniques for Digital Platforms	2hrs	2hrs	15	35	50	02
MCJ:4.8	Dissertation/Documentary/ Project work	3 hrs	3 hrs	50	50	100	03
<b>PRACTICALS</b>							
MCJ:4.4A	Radio Programme Production	2hrs	1hr	15	35	50	01
MCJ:4.5A	Television Programme Production	2hrs	1hr	15	35	50	01
MCJ:4.6A	Introduction to Virtual Content Development	2hrs	1hr	15	35	50	01
MCJ:4.7A	Production Techniques for Digital Platforms	2 hrs	1hr	15	35	50	01
	<b>TOTAL</b>					800	24

**III Semester**  
**ADVERTISING AND CORPORATE COMMUNICATION**

Sem/ Code	Paper Title	Week/ Hour	Duration of Examination	IA Marks	Theory Exam. Marks	Total	Credits
MCJ: 3.1	Introduction to Marketing Communication	3 hrs	3 hrs	30	70	100	03
MCJ: 3.2	Fundamentals of Corporate Communication	3hrs	3 hrs	30	70	100	03
MCJ: 3.3	Content Creation Techniques for Advertising	3hrs	3hrs	30	70	100	03
MCJ: 3.4	Data Journalism	2 hrs	2 hrs	15	35	50	02
MCJ:3.5	Visual Communication for Ad & Corporate Communication	2hrs	2 hrs	15	35	50	02
MCJ:3.6	Social Media Strategies for Corporate Communication	2hrs	2hrs	15	35	50	02
MCJ:3.7	Lab Journal (Audio, Video and Digital Production)	2hrs	2hrs	15	35	50	02
MCJ:3.8	Media and Society (OPEN ELECTIVE)	3 hrs	3 hrs	30	70	100	03
<b>PRACTICALS</b>							
MCJ:3.4A	Data Journalism	2hrs	2hrs	15	35	50	01
MCJ:3.5A	Visual Communication for Ad & Corporate Communication	2hrs	2hrs	15	35	50	01
MCJ:3.6A	Social Media Strategies for Corporate Communication	2hrs	2hrs	15	35	50	01
MCJ:3.7A	Lab Journal (Audio, Video and Digital Production)	2hrs	2hrs	15	35	50	01
	<b>TOTAL</b>					800	24

### IV Semester

Sem/ Code	Paper Title	Week/ Hour	Duration of Examination	IA Marks	Theory Exam. Marks	Total	Credits
MCJ: 4.1	Media Strategies for Corporate Communication	3 hrs	3 hrs	30	70	100	03
MCJ: 4.2	Digital Media Strategies for Advertising	3hrs	3 hrs	30	70	100	03
MCJ: 4.3	Writing Techniques for Corporate Communication	3hrs	3hrs	30	70	100	03
MCJ: 4.4	Creative Strategies for Advertising	2 hrs	2 hrs	15	35	50	02
MCJ:4.5	Public Relations Case Studies	2hrs	2 hrs	15	35	50	02
MCJ:4.6	Media Planning, Buying and Selling	2hrs	2hrs	15	35	50	02
MCJ:4.7	Writing and Story Telling Across Platforms	2hrs	2hrs	15	35	50	02
MCJ:4.8	Dissertation/Documentary/ Project work	3 hrs	3 hrs	50	50	100	03
<b>PRACTICALS</b>							
MCJ:4.4A	Creative Strategies for Advertising	2hrs	2hrs	15	35	50	01
MCJ:4.5A	Public Relations Case Studies	2hrs	2hrs	15	35	50	01
MCJ:4.6A	Media Planning, Buying and Selling	2hrs	2hrs	15	35	50	01
MCJ:4.7A	Writing and Story Telling Across the Platforms	2 hrs	2hrs	15	35	50	01
<b>TOTAL</b>	<b>TOTAL</b>					<b>800</b>	<b>24</b>

**FACULTY OF SCIENCE:**

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

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

	MCA403T	Advanced Software Engineering	4	30	70	100	4	26
	MCA404T	Quantitative Techniques	4	30	70	100	4	
	MCA405P	Advanced Java	8	30	70	100	4	
	MCA406P	Advanced Algorithms Lab	8	30	70	100	4	
	MCA407T	Soft Core- Soft Skills and Personality Development	3	30	70	100	2	

V	MCA501T	Advanced Web Programming	4	30	70	100	4	24
	MCA502T	Advanced Database Management Systems	4	30	70	100	4	
	MCA503T	Artificial Intelligence	4	30	70	100	4	
	MCA504T	Open Elective	4	30	70	100	4	
	MCA505P	Advanced Web Programming Lab	8	30	70	100	4	
	MCA506P	Mini Project	8	30	70	100	4	
VI	MCA601T	Elective – I	4	30	70	100	4	16
	MCA602T	Elective – II	4	30	70	100	4	
	MCA603P	Main Project	1 6	150	250	400	8	

**M.Sc – PLANT SCIENCE**

**SEMESTER-I**

Paper Code	Title of the Paper	Theory (Hrs/ Week)	Practical (Hrs/ Week)	Total No. of (Hrs / Semester)	Duration of examination (Hrs)	Max. Marks examination	Internal Assessment	Total Marks	Credits
HCT-101	SYSTEMATICS AND BIODIVERSITY	4	-	52	3	70	30*	100	4
HCT-102	ECOLOGY AND ENVIRONMENTAL BIOLOGY	4	-	52	3	70	30*	100	4
HCT-103	BIOCHEMISTRY AND BIOPHYSICS	4	-	52	3	70	30*	100	4
HCT-104	CELL BIOLOGY AND GENETICS	4	-	52	3	70	30*	100	4
HCT-105	PHYTOGEOGRAPHY and EVOLUTION	3	-	39	3	70	30	100	2
PRACTICAL -I HCP-106	Of Paper – HCT 101	-	4	52	4	70	30**	100	4
	Of Paper – HCT 102	-	4	52					
PRACTICAL -II HCP-106	Of Paper – HCT 103	-	4	52	4	70	30**	100	4
	Of Paper – HCT 104	-	4	52					

**Total marks = 700, Total Credits = 26**

\* 15 marks for Test + 05 marks for assignment + 05 marks for Seminar + 05 marks for Attendance.

\*\* 20 marks test + 10 marks for Record  
15 marks for each paper HB: 101 & 102 of Practical – I and  
15 marks for each paper HB: 103 & 104 of Practical-II

SEMESTER-II

Paper Code	Title of the Paper	Theory (Hrs/ Week)	Practical (Hrs/ Week)	Total No. of (Hrs / Semester)	Duration of examination (Hrs)	Max. Marks examination	Internal Assessment	Total Marks	Credits
HCT-201	Diversity of lower groups – Algae, Fungi and Bryophytes	4	-	52	3	70	30*	100	4
HCT-202	Diversity of Pteridophytes and Gymnosperm	4	-	52	3	70	30*	100	4
HCT-203	Plant morphogenesis and Reproduction	4	-	52	3	70	30*	100	4
HCT-204	Plant Breeding and Plant Propagation	4	-	52	3	70	30*	100	4
HCT-205	Methods in Plant Science	3	-	39	3	70	30	100	2
PRACTICAL -I HCP-206	Of Paper – HCT 201	-	4	52	4	70	30**	100	4
	Of Paper – HCT 202	-	4	52					
PRACTICAL -II HCP-206	Of Paper – HCT 203	-	4	52	4	70	30**	100	4
	Of Paper – HCT 204	-	4	52					

**Total marks = 700, Total Credits = 26**

\* 15 marks for Test + 05 marks for assignment + 05 marks for Seminar + 05 marks for Attendance.

\*\* 10 marks Record + 10 marks for Submission + 10 mark for test  
(15 marks for each paper HB: 201 & 202 of Practical – I and  
15 marks for each paper HB: 203 & 204 of Practical-II)



SEMESTER-III

Paper Code	Title of the Paper	Theory (Hrs/ Week)	Practical (Hrs/ Week)	Total No. of (Hrs / Semester)	Duration of examination (Hrs)	Max. Marks examination	Internal Assessment	Total Marks	Credits
HCT-301	PLANT PHYSIOLOGY	4	-	52	3	70	30*	100	4
HCT-302	TAXONOMY OF ANGIOSPERMS	4	-	52	3	70	30*	100	4
HCT-303	PLANT ANATOMY AND PALYNOLOGY	4	-	52	3	70	30*	100	4
OET-304	OPEN ELECTIVE ETHANOBOTANY	4	-	52	3	70	30*	100	4
HCP-305	PRACTICAL -I	-	4	52	4	70	30**	100	4
		-	4	52					
HCP-306	PRACTICAL -II	-	4	52	4	70	30**	100	4
		-	4	52					

**Total marks = 600, Total Credits = 24**

\* 15 marks for Test + 05 marks for assignment + 05 marks for Seminar + 05 marks for Attendance.

\*\* 10 marks Record + 10 marks for Submission + 10 mark for test

SEMESTER-IV

Paper Code	Title of the Paper	Theory (Hrs/ Week)	Practical (Hrs/ Week)	Total No. of (Hrs / Semester)	Duration of examination (Hrs)	Max. Marks examination	Internal Assessment	Total Marks	Credits
HCT-401	ECONOMIC BOTANY AND PHYTOCHEMISTRY	4	-	52	3	70	30*	100	4
HCT-402	PLANT CELL, TISSUE AND ORGAN CULTURE	4	-	52	3	70	30*	100	4
HCT-403	BIOTECHNOLOGY	4	-	52	3	70	30*	100	4
HCP-404	ELECTIVE	4	-	52	3	70	30*	100	4
HCP-405	PRACTICAL –I Of Paper : HCT-401, 402 and 403	-	4	52	4	70	30**	100	4
HCP-406	PRACTICAL –II of Paper HCT-404	-	4	52	4	70	30**	100	4

**Total marks = 600, Total Credits = 24**

\* 15 marks for Test + 05 marks for assignment + 05 marks for Seminar + 05 marks for Attendance.

\*\* 05 marks Record + 05 marks for Submission + 05 mark for test  
(7.5 marks for each paper HCT: 401 & 402 of Practical –I & 5 marks for each paper of HCT: 403 & 404 of Practical – II).

NOTE: Any one from the elective has to be chosen by the student

Elective – a) Systematics of Angiosperms  
b) Plant Biodiversity and Conservation

In lieu of Project work, practical exams are conducted for 100 marks.

OR

If project is mandatory then practical exams should be conducted for 50 marks

**M.Sc. – Animal Science****Course content, Credits, Scheme of Examination and Model question paper  
Details of Course content****I SEMESTER**

Paper Code	Title of the Paper	Total Hr	Hr/ Week	Marks			Credits
				IA	Exam	Total	
HCT 101	Systematics and Biodiversity	52	4	30	70	100	4
HCT 102	Ecology, Environment biology & Evolution	52	4	30	70	100	4
HCT 103	Biochemistry & Biophysics	52	4	30	70	100	4
HCT 104	Cell biology and Genetics	52	4	30	70	100	4
SCT 105	Biostatistics and Bioinformatics	39	3	30	70	100	2
HCP 101	Systematics and Biodiversity	52	4	15	35	50	2
HCP 102	Ecology, Environment biology & Evolution	52	4	15	35	50	2
HCP 103	Biochemistry & Biophysics	52	4	15	35	50	2
HCP 104	Cell Molecular Biology and Genetics	52	4	15	35	50	2
	<b>Total</b>	455	35	210	490	700	26

**II SEMESTER**

Paper Code	Title of the Paper	Total Hr	Hr/ Week	Marks			Credits
				IA	Exam	Total	
HCT 201	Comparative Anatomy	52	4	30	70	100	4
HCT 202	Animal Physiology	52	4	30	70	100	4
HCT 203	Parasitology	52	4	30	70	100	4
HCT 204	Economic Zoology	52	4	30	70	100	4
SCT 205	Animal Behavior	39	3	30	70	100	2
HCP 201	Comparative Anatomy	52	4	15	35	50	2
HCP 202	Animal Physiology	52	4	15	35	50	2
HCP 203	Parasitology	52	4	15	35	50	2
HCP 204	Economic Zoology	52	4	15	35	50	2
	<b>Total</b>	455	35	210	490	700	26

## Details of Credits

### I Semester

Subjects	Paper	Instruction Hr/ week	Duration of Exam (hr)	Marks			Credits
				IA	Exam	Total	
Hard Core	4T	4x4	4x3	4x30	4x70	4x100	4x4=16
	4P	4x4	4x4	4x15	4x35	4x50	4x2=08
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2=02
						Total	26

### II Semester

Subjects	Paper	Instruction Hr/ week	Duration of Exam (hr)	Marks			Credits
				IA	Exam	Total	
Hard Core	4T	4x4	4x3	4x30	4x70	4x100	4x4=16
	4P	4x4	4x4	4x15	4x35	4x50	4x2=08
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2=02
						Total	26

### III Semester

Subjects	Paper	Instruction Hr/ week	Duration of Exam (hr)	Marks			Credits
				IA	Exam	Total	
Hard Core	3T	3x4	3x3	3x30	3x70	3x100	3x4=12
	4P	4x4	4x4	4x15	4x35	4x50	4x2=08
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4=04
						Total	24

### III SEMESTER

Paper Code	Title of the Paper	Total Hr	Hr/ Week	Marks			Credits
				IA	Exam	Total	
HCT 301	Development Biology	52	4	30	70	100	4
HCT 302	Comparative Endocrine Physiology	52	4	30	70	100	4
HCT 303	Immunology	52	4	30	70	100	4
HCP 301	Development Biology	52	4	15	35	50	2
HCP 302	Comparative Endocrine Physiology	52	4	15	35	50	2
HCP 303	Immunology	52	4	15	35	50	2
HCP 304	Tools and Techniques	52	4	15	35	50	2
OE	---	52	4	30	70	100	4
<b>Total</b>		416	32	180	420	600	24

### IV SEMESTER

Paper Code	Title of the Paper	Total Hr	Hr/ Week	Marks			Credits
				IA	Exam	Total	
HCT 401	Animal Molecular Genetics	52	4	30	70	100	4
HCT 402	Toxicology	52	4	30	70	100	4
HCT 403	Human Nutrition and Health	52	4	30	70	100	4
HCT 404	Research Methodology	52	4	30	70	100	4
HCP 401	Animal Molecular Genetics	52	4	15	35	50	2
HCP 402	Toxicology	52	4	15	35	50	2
HCP 403	Human Nutrition and Health	52	4	15	35	50	2
HCP 404	Research Methodology	52	4	15	35	50	2
<b>Total</b>		416	32	180	420	600	24

**M.Sc MICROBIOLOGY**

**SCHEME OF INSTRUCTION AND EXAMINATION SEMESTER SCHEME**

Paper No.	Title of the Paper	Type of paper	Periods / Week	Duration of Exam (Hours)	IA	EA	Maximum Marks	Credits
<b>I Semester</b>								
<b>Theory</b>								
MBH-101	Bacteriology and Virology	H Core	4	3	30	70	100	4
MBH-102	Eukaryotic Microbiology	H Core	4	3	30	70	100	4
MBH-103	Microbial Physiology and Biochemistry	H Core	4	3	30	70	100	4
MBH-104	Microbial and Biochemical techniques	H Core	4	3	30	70	100	4
MBH-105	Biostatistics	S Core	2	2	15	35	50	2
<b>Practical</b>								
MBP-106	Bacteriology, Virology and Eukaryotic Microbiology	Pract	4	4	30	70	100	4
MBP-107	Microbial Physiology and Biochemistry Microbial techniques	Pract	4	4	30	70	100	4
<b>Total Marks and Credits</b>							650	26

<b>II Semester</b>								
<b>Theory</b>								
MBH-201	Microbial Genetics	H Core	4	3	30	70	100	4
MBH-202	Molecular Biology	H Core	4	3	30	70	100	4
MBH-203	Environmental Microbiology	H Core	4	3	30	70	100	4
MBH-204	Food Microbiology	H Core	4	3	30	70	100	4
MBH-205	Bioinformatics	S Core	2	2	15	35	50	2
<b>Practical</b>								
MBP-206	Microbial Genetics, Molecular Biology	Pract	4	4	30	70	100	4
MBP-207	Environmental Microbiology and Food Microbiology	Pract	4	4	30	70	100	4
<b>Total Marks and Credits</b>							650	26

Paper No.	Title of the Paper	Type of paper	Periods / Week	Duration of Exam (Hours)	IA	EA	Maximum Marks	Credits
<b>III Semester Theory</b>								
MBH-301	Medical Microbiology	H Core	4	3	30	70	100	4
MBH-302	Immunology	H Core	4	3	30	70	100	4
MBH-303	Recombinant DNA Technology	H Core	4	3	30	70	100	4
MBO-304	Open Elective: Applied Microbiology	OE	4	3	30	70	100	4
<b>Practical</b>								
MBP-305	Medical Microbiology and Immunology	Pract	4	4	30	70	100	4
MBP-306	Microbial Genetics, Molecular Biology	Pract	4	4	30	70	100	4
MBP-307	Environmental Microbiology and Food Microbiology	Report					100	2
<b>Total Marks and Credits</b>							650	26

<b>IV Semester Theory</b>								
MBH-401	Agricultural Microbiology	H Core	4	3	30	70	100	4
MBH-402	Industrial Microbiology	H Core	4	3	30	70	100	4
MBH-403	Microbial Biotechnology	H Core	4	3	30	70	100	4
<b>Practical</b>								
MBP-404	Agricultural and Industrial Microbiology Microbial Biotechnology	Pract	4	4	30	70	100	4
MBP-405	Project Work / Dissertation						100	4
	Project Viva						50	2
<b>Total Marks and Credits</b>							550	22
<b>Total Marks and Credits</b>							2500	100

## M.Sc BIOTECHNOLOGY

### SCHEME OF INSTRUCTION AND EXAMINATION SEMESTER SCHEME

Paper No.	Title of the Paper	Type of paper	Periods / Week	Duration of Exam (Hours)	IA	EA	Maximum Marks	Credits
<b>I Semester</b>								
<b>Theory</b>								
BTH-101	Cell Biology	H Core	4	3	30	70	100	4
BTH -102	Molecular Genetics	H Core	4	3	30	70	100	4
BTH -103	General Microbiology	H Core	4	3	30	70	100	4
BTH -104	Biochemistry	H Core	4	3	30	70	100	4
BTS-105	Biostatistics	S Core	2	2	15	35	50	2
<b>Practical</b>								
BTP-106	Cell Biology & Molecular Genetics	Pract	4	4	30	70	100	4
BTP-107	General Microbiology & Biochemistry	Pract	4	4	30	70	100	4
<b>Total Marks and Credits</b>							650	26

<b>II Semester</b>								
<b>Theory</b>								
BTH-201	Enzymology and Biochemical techniques	H Core	4	3	30	70	100	4
BTH -202	Immunology and Immunotechnology	H Core	4	3	30	70	100	4
BTH -203	Molecular Biology	H Core	4	3	30	70	100	4
BTH -204	Environmental Biotechnology	H Core	4	3	30	70	100	4
BTS-205	Bioinformatics	S Core	2	2	15	35	50	2
<b>Practical</b>								
BTP-206	Enzymology and Immunology	Pract	4	4	30	70	100	4
BTP-207	Molecular Biology, Bioinformatics and Environmental Biotechnology	Pract	4	4	30	70	100	4
<b>Total Marks and Credits</b>							650	26



Paper No.	Title of the Paper	Type of paper	Periods / Week	Duration of Exam (Hours)	IA	EA	Maximum Marks	Credits
<b>III Semester Theory</b>								
BTH-301	Plant and Agricultural Biotechnology	H Core	4	3	30	70	100	4
BTH -302	Animal Biotechnology	H Core	4	3	30	70	100	4
BTH -303	Genetic Engineering	H Core	4	3	30	70	100	4
BTH -304	Open Elective : Applied Biotechnology	OE	4	3	30	70	100	4
<b>Practical</b>								
BTP-305	Plant, Agricultural and Animal Biotechnology	Pract	4	4	30	70	100	4
BTP-306	Genetic Engineering and Bioinformatics	Pract	4	4	30	70	100	4
BTP-307	Industrial and Institutional Visit	Report					50	2
<b>Total Marks and Credits</b>							650	26

<b>IV Semester Theory</b>								
BTH-401	Bioprocess Engineering	H Core	4	3	30	70	100	4
BTH -402	Medical Biotechnology	H Core	4	3	30	70	100	4
BTH -403	Genomics and Proteomics	H Core	4	3	30	70	100	4
<b>Practical</b>								
BTP-404	Bioprocess Engineering Medical Biotechnology	Pract	4	4	30	70	100	4
BTP-405	Project Work / Dissertation						100	4
	Project Viva						50	2
<b>Total Marks and Credits</b>							550	22
<b>Grand Total Marks and Credits</b>							2500	100

## M.Sc Bio - Chemistry

<b>SCHEME OF STUDY AND EXAMINATION</b>								
Semester	Subject code	Title of the paper	Instruction hr/week	Exam marks			Duration of exam (hrs)	Credits
				Exam	CIA	Total		
<b>I</b>	BCHT- 01	Basic Biophysical and general chemistry	4	70	30	100	3	4
	BCHT- 02	Metabolism-I	4	70	30	100	3	4
	BCHT-03	Analytical Biochemistry – I	4	70	30	100	3	4
	BCHT-04	General Physiology	4	70	30	100	3	4
	BCHSCT-05	Clinical Biochemistry and Nutrition	3	70	30	100	3	2
	BCHP – 06	Gen. Biochemistry	8	70	30	100	4	4
	BCHP – 07	Bioanalytical techniques	8	70	30	100	4	4
<b>Total credits for the semester</b>								<b>26</b>
<b>II</b>	BCHT- 08	Protein structure and Enzymology	4	70	30	100	3	4
	BCHT- 09	Metabolism-II	4	70	30	100	3	4
	BCHT-10	Analytical Biochemistry – II	4	70	30	100	3	4
	BCHT-11	Immunology and Microbiology	4	70	30	100	3	4
	BCHSCT-12	Bioinformatics and Research methodology	3	70	30	100	3	2
	BCHP – 13	Immunochemistry and Informatics	8	70	30	100	4	4
	BCHP – 14	Enzymology	8	70	30	100	4	4
<b>Total credits for the semester</b>								<b>26</b>
<b>III</b>	BCHT-15	Molecular Biology	4	70	30	100	3	4
	BCHT-16	Biochemistry of Cell Signaling	4	70	30	100	3	4
	BCHT-17	Membrane Biochemistry	4	70	30	100	3	4
	BCHT-18	Open elective	4	70	30	100	3	3
	BCHP -19	Clinical Biochemistry	8	70	30	100	4	4
	BCHP -20	Molecular Biology	8	70	30	100	4	4
<b>Total credits for the semester</b>								<b>23</b>
<b>IV</b>	BCHT-21	Gene Regulation and Genomics	4	70	30	100	3	4
	BCHT-22	Molecular Genetics	4	70	30	100	3	4
	BCHT-23	Genetic Engineering	4	70	30	100	3	4
	BCHT-24	Drug Discovery and Clinical Research	4	70	30	100	3	4
	BCHP-25	Genetic Engineering and Protein chemistry	8	70	30	100	4	4
	BCHPR- 26	Project (Report and Viva-Voce; 45+25)	12	70	30	100	-	5
<b>Total credits for the semester-IV</b>								<b>25</b>
<b>Total credits for the course</b>								<b>100</b>

**Papers, Teaching Hours, Examination Marks and Credits for  
M.Sc Physics**

Paper Code	Paper Title	Teaching hours per week	Final Exam. Marks	Internal Exam. Marks	Total Marks	Credit hours	Remarks
<b>First Semester</b>							
PHY 101	Mathematical Methods of Physics I	3	70	30	100	3	HC*
PHY 102	Classical Mechanics	3	70	30	100	3	HC
PHY 103	Classical Electrodynamics	3	70	30	100	3	HC
PHY 104	Electronic Circuits Devices	3	70	30	100	3	HC
PHY 105	General Physics Lab	4	35	15	50	2	HC
PHY 106	Electronics Lab	4	35	15	50	2	HC
PHY 107 PHY 108	Renewable Energy sources / Techniques in Biophysics	3	70	30	100	3	SC** Any one to be chosen
	Total	23	420	180	600	19	
<b>Second Semester</b>							
PHY 201	Mathematical Methods of Physics	3	70	30	100	3	HC*
PHY 202	Quantum Mechanics I	3	70	30	100	3	HC
PHY 203	Statistical Mechanics	3	70	30	100	3	HC
PHY 204	Atomic, Molecular Physics and Modern Optics	3	70	30	100	3	HC
PHY 205	Optics Lab	4	35	15	50	2	HC
PHY 206	Computational Physics Lab	4	35	15	50	2	HC
PHY 207 PHY 208	Experimental Techniques / Modern Spectroscopic Techniques	3	70	30	100	3	SC** Any one to be chosen
	Total	23	420	180	600	19	

\*HC = Hard Core, \*\*SC = Soft Core

Paper Code	Paper Title	Teaching hours per week	Final Exam. Marks	Internal Exam. Marks	Total Marks	Credit hours	Remarks
<b>Third Semester</b>							
PHY 301	Quantum Mechanics II	3	70	30	100	3	HC*
PHY 302	Computational Physics	3	70	30	100	3	HC
PHY 303	Nuclear & Particle Physics (General)	3	70	30	100	3	HC
PHY 304	Condensed Matter Physics (General)	3	70	30	100	3	HC
PHY 305	Elective –I (One course to be opted from this group)	3	70	30	100	3	HC
PHY 305a	Lasers & their applications						
PHY 305b	Material Science & its applications						
PHY 305c	Physics at the Nano scale						
PHY 306	General Nuclear Physics Lab	4	35	15	50	2	HC
PHY 307	General Condensed Matter Physics Lab	4	35	15	50	2	HC
PHY 308	Introduction to Modern Physics	3	70	30	100	3	SC** Any one to be chosen
PHY 309	/Space Science & its Applications						
Total		26	490	210	700	22	
<b>Fourth Semester</b>							
PHY 401	Astrophysics & Cosmology	3	70	30	100	3	HC*
PHY 402	Methods of Data Analytics	3	70	30	100	3	HC
PHY 403	Elective –II (One course to be opted from this group)	3	70	30	100	3	HC
PHY 403a	Nuclear & Particle Physics (Elective)						
PHY 403b	Condensed Matter Physics-I						
PHY 403c	Atmosphere Physics						
PHY 404	Elective-III (One course to be opted from this group)	3	70	30	100	3	HC
PHY 404a	Nuclear decay & Reactor theory						
PHY 404b	Condensed Matter Physics -II						
PHY 404c	Space Physics						
PHY 405	Astrophysics & Cosmology Lab (Gen.)	4	35	15	50	2	HC
PHY 406	Advanced Physics Lab (One to be opted from this group based on elective papers)	4	35	15	50	2	HC
PHY 406a	Nuclear Physics Lab						
PHY 406b	Condensed Matter Physics Lab						
PHY 406c	Atmospheric & Space Physics Lab						
PHY 407	Project Work	8	70	30	100	4	HC
Total		28	420	180	600	20	

\*HC= Hard Core, \*\*OE = Open Elective (For Physics Students : One course to be opted)ss

**M.Sc. in Mathematics**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I / II Semester of the Postgraduate Program</b>							
Core Subjects	5T	5x4	5x3	5x30	5x70	5x100	5x4
Practicals	1P	1x4	1x4	1x15	1x35	1x100	1x2
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits per Semester							24
<b>c) III Semester of the Postgraduate Program</b>							
Core Subjects	5T	5x4	5x3	5x30	5x70	5x100	5x4
Practicals	1P	1x4	1x4	1x15	1x35	1x50	1x2
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Total of Credits per Semester							26
<b>d) IV Semester of the Postgraduate Program</b>							
Core subject & Electives	5T	5x4	5x3	5x30	5x70	3x100	5x4
	1P	1x4	1x4	1x15	1x35	1x50	1x2
	Project Work	8- Workload per week per teacher	Report Evaluation	1x30	1x70	1x100	1x4
Semester Total of Credits							26
<b>Program Grand Total of Credits</b>							<b>100</b>

\* There may be project work in lieu of one theory paper in the fourth semester of the programme

\* There may be project work in lieu of one or two of the practicals in the fourth semester of the programme

**M.Sc. in Chemistry / Psychology**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I/II Semester of the PG Program</b>							
Core Subject	4T	4x4	4x3	4x30	4x70	4x100	4x4
	4P or	4x4 or 2x8	4x4 or 2x6	4x15 or 2x30	4x35 or 2x70	4x50 or 2x100	4x2 or 2x4
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Per Semester Total of Credits							26
<b>b) III Semester of the PG Program</b>							
Core Subject	3T	3x4	3x3	3x30	3x70	3x100	3x4
	4P or 2P	4x4 or 2x8	4x4 or 2x6	4x15 or 2x30	4x35 or 2x70	4x50 or 2x100	4x2 or 2x4
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Semester Total of Credits							24
<b>c) IV Semester of the PG Program</b>							
Core Subject Electives	4T	4x4	4x3	4x30	4x70	4x100	4x4
	2P or 1P	2x4 or 1x8	2x4 or 1x6	2x15 or 1x30	2x35 or 1x70	2x50 or 1x100	2x2 or 1x4
Project Work	Project Work*	8	Report Evaluation	1x30	1x70	1x100	1x4
Semester Total of Credits							24
Program Grand Total of Credits							100

\*There may be project work in lieu of one or two practicals in the fourth semester of the programme

**M.Sc. in FASHION & APPAREL DESIGN**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I/II Semester of the Postgraduate Program</b>							
FAD Papers	4T	4x4	4x3	4x30	4x70	4x100	4x4
	4P	4x4	4x4	4x15	4x35	4x50	4x2
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits Per Semester							26
<b>b) III Semester of the PG Program</b>							
FAD Papers	3T	3x4	3x3	3x30	3x70	3x100	3x4
	4P	4x4	4x4	4x15	4x35	4x50	4x2
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Total of Credits Per Semester							24
<b>c) IV Semester of the PG Program</b>							
FAD Papers	4T	4x3	4x3	4x30	4x70	4x100	4x4
	2P	2x4	2x4	2x15	2x35	2x50	2x2
	Project Work	8	Report Evaluation	1x30 (seminar)	1x70	1x100	1x4
Semester Total of Credits							24
Program Grand Total of Credits							<b>100</b>

## M.Sc. in Psychological Counseling

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I/II Semester of the Postgraduate Program</b>							
Core Subject	4T	4x4	4x3	4x30	4x70	4x100	4x4
	2P*	2x8	2x6	2x30	2x70	2x100	2x4
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits Per Semester							26
<b>b) III Semester of the PG Program</b>							
Core Subject	3T	3x4	3x3	3x30	3x70	3x100	3x4
	2P	2x8	2x6	2x30	2x70	2x100	2x4
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Total of Credits Per Semester							24
<b>c) IV Semester of the PG Program</b>							
Core Subject & Electives	2T	2x4	2x3	2x30	2x70	2x100	2x4
	Project Work	24	Report Evaluation	1x100	1x300	1x400	1x16
Total of Credits Per Semester							24
<b>Program Grand Total of Credits</b>							<b>100</b>

\*There may be project work in lieu of one of the practicals in the fourth semester of the programme



**M.Sc. (Audiology / Speech Language Pathology/ Audiology & Speech Language Pathology)**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I / II Semester of the Postgraduate Program</b>							
Core Subjects	4T	4x4	4x3	4x30	4x70	4x100	4x4
	Clinical Practicum	1x16	1x6	1x100	1x100	1x200	1x8
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits per Semester							26
<b>c) III Semester of the Postgraduate Program</b>							
Core Subjects	3T	3x4	3x3	3x30	3x70	3x100	3x4
	Clinical Practicum	1x16	1x6	1x100	1x100	1x200	1x8
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Total of Credits per Semester							24
<b>d) IV Semester of the Postgraduate Program</b>							
Core Subjects	3T	3x4	3x3	3x30	3x70	3x100	3x4
	Clinical Practicum	1x16	1x6	1x100	1x100	1x200	1x8
	Project Work	8	Dissertation Evaluation	1x30	1x70	1x100	1x4
Total of Credits per Semester							24
<b>Program Grand Total of Credits</b>							<b>100</b>

**FACULTY OF COMMERCE:**

**M.Com.**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I / II Semester of the Postgraduate Program</b>							
<i>Core Subject</i>	6T	6x4	6x3	6x30	6x70	6x100	6x4
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits Per Semester							26
<b>b) III Semester of the Postgraduate Program</b>							
<i>Core Subject</i>	5T	5x4	5x3	5x30	5x70	5x100	5x4
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Semester Total of Credits							24
<b>c) IV Semester of the Postgraduate Program</b>							
<i>Core Subject</i>	5T	5x4	5x3	5x30	5x70	5x100	5x4
	Project work	8	Report Evaluation	1x30	1x70	1x100	1x4
Semester Total of Credits							24
<b>Program Grand Total of Credits</b>							<b>100</b>

\*There may be one of the special papers in lieu of the Project work

**M.Com. (Finance & Accounting) / M.Com. (International Business)**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I / II Semester of the Postgraduate Program</b>							
Core Subject papers	6T	6x4	6x3	6x30	6x70	6x100	6x4
Soft core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Total of Credits Per Semester							26
<b>b) III Semester of the Postgraduate Program</b>							
Core Subject	5T	5x4	5x3	5x30	5x70	5x100	5x4
Open Elective	1T	1x4	1x4	1x30	1x70	1x100	1x4
Internship Report				1x50	-	1x50	1x2
Semester Total of Credits							26
<b>d) IV Semester of the Postgraduate Program</b>							
Core Subject Papers	4T	4x4	4x3	4x30	4x70	4x100	4x4
	Project Work	18	Report Evaluation	-	1x250	1x250	1x10
Semester Total of Credits							26
<b>Program Grand Total of Credits</b>							<b>104</b>

**M.T.A (MASTER OF TOURISM ADMINISTRATION)- COURSE MATRIX****I SEMESTER M.T.A (MASTER OF TOURISM ADMINISTRATION)**

Paper	Subjects	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Tourism Industry: Principles, Policies & Practices	4	3	30	70	100	4
1.2	Geography of Tourism	4	3	30	70	100	4
1.3	Indian Cultural Heritage	4	3	30	70	100	4
1.4	Ethical, Business and Legal Environment of Tourism	4	3	30	70	100	4
1.5	Travel Trade Management	4	3	30	70	100	4
1.6	Managing Behavioral Processes in the Organization	4	3	30	70	100	4
1.7	Soft Core Communication Skills	4	3	30	70	100	4
<b>I SEMESTER TOTAL OF CREDITS</b>							<b>28</b>

**II SEMESTER M.T.A (MASTER OF TOURISM ADMINISTRATION)**

Paper	Subjects	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Managerial Accounting for Tourism	4	3	30	70	100	4
2.2	Destination Marketing	4	3	30	70	100	4
2.3	Methodology of Research	4	3	30	70	100	4
2.4	E- Tourism	4	3	30	70	100	4
2.5	Tourism Analysis for Policy Decision Making	4	3	30	70	100	4
2.6	Sustainable Tourism	4	3	30	70	100	4
2.7 a	Soft Core Personality Development	2	2	15	35	50	1
2.7 b	Compulsory Study Tour & Viva-Voce					50	1
<b>II SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

### III SEMESTER M.T.A (MASTER OF TOURISM ADMINISTRATION)

Paper	Subjects	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
3.1	Foreign Language – French	4	3	30	70	100	4
3.2	Tourism Finance	4	3	30	70	100	4
3.3	Destination Planning & Development	4	3	30	70	100	4
3.4	Airlines Management	4	3	30	70	100	4
3.5	Tourist Relationship & Quality Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
3.7	Internship Project Report				50	50	2
<b>III SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

### IV SEMESTER M.T.A (MASTER OF TOURISM ADMINISTRATION)

Paper	Subjects	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
4.1	Foreign Language – French	4	3	30	70	100	4
4.2	E-Travel Media & Public Relations	4	3	30	70	100	4
4.4	Airline & Cargo Management	4	3	30	70	100	4
4.5	Entrepreneurship & Event Management	4	3	30	70	100	4
4.6	Dissertation & Viva-Voce	14	-	Viva-Voce 50	200	250	10
<b>III SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

Open Elective

- a. Income Tax
- b. Finance and Banking

3.1 Foreign Language – French

**M.M.S. (Integrated)**

Subject	Paper s	Instruccion hrs/week	Duration of Exam (hrs)	Marks			Credits	
				IA	Exam	Total		
<b>a) I/ II Semester</b>								
Part 1	2 Languages	2T	2x4	2x3	2x30	2x70	2x100	2x2
Part 2	4 Business Studies Papers	4T	4x4	4x3	4x30	4x70	4x100	4x2
Part 3	Foundation Course	1T	1x3	1x3	1x30	1x70	1x100	1x2
	CC & EC	-	-	-	50	-	50	1
Per Semester Total of Credits							15	
<b>b) III / IV Semester</b>								
Part 1	2 Languages	2T	2x4	2x3	2x30	2x70	2x100	2x2
Part 2	5 Business Studies Papers	4T	4x4	4x3	4x30	4x70	4x100	4x2
		Intern- ship	8		1x50	1x50	1x100	1x2
Part 3	SDC	1T	1x3	1x3	1x30	1x70	1x100	1x2
	CC & EC	-	-	-	50	-	50	1
Per Semester Total of Credits							17	
<b>c) V/ VI Semester</b>								
Part 2	6 Business Studies papers	6T	6x4	6x3	6x30	6x70	6x100	6 x 3
Part 3	SDC	1T	1x3	1x3	1x30	1x70	1x100	1x2
Per Semester Total of Credits							20	
<b>d) VII /VIII Semester of the Integrated Program or I/II Semester of the Postgraduate Program</b>								
6 Business Studies papers	6T	6x4	6x3	6x30	6x70	6x100	6x4	
Soft core	1T	1x3	1x3	1x30	1x70	1x100	1x2	
Per Semester Total of Credits							26	
<b>e) IX Semester of the Integrated Program or III Semester of the PG Program</b>								
6 Business Studies papers	5T	5x4	5x3	5x30	5x70	5x100	5x4	
	Internship report	8		1x50	-	1x50	1x2	
Open Elective	1T	1x4	1x4	1x30	1x70	1x100	1x4	
Semester Total of Credits							26	
<b>f) X Semester of the Integrated Program or IV Semester of the PG Program</b>								
3 Business Studies Papers & Project work	3T	3x4	3x3	3x30	3x70	3x100	3x4	
	Project Report	18	Report Evaluation	1x50	1x200	1x250	1x10	
Semester Total of Credits							22	
<b>Program Grand Total of Credits</b>							<b>156</b>	

\*There may be one of the special papers in lieu of the Project work

**MBA (Day)- Course Matrix of I Semester**

Paper Code	Subject	Credit	Contact Hours		I.A	U.E	Total Marks
			L	P*			
1.1	Management and Organizational Behavior	4.0	45	15	30	70	100
1.2	Managerial Accounting	4.0	45	15	30	70	100
1.3	Business Planning and Regulations	4.0	45	15	30	70	100
1.4	Economics for Business Decisions	4.0	45	15	30	70	100
1.5	Business Statistics	4.0	45	15	30	70	100
1.6	Marketing Management	4.0	45	15	30	70	100
1.7	Soft Core Employability Skill Development-I	2.0	15	15	30	70	100
Total		26.0	285	105	210	490	700

**MBA (Evening)- Course Matrix of I Semester**

Paper Code	Subject	Credit	Contact Hours		I.A	U.E	Total Marks
			L	P*			
1.1	Management and Organizational Behavior	4.0	45	15	30	70	100
1.2	Managerial Accounting	4.0	45	15	30	70	100
1.3	Business Planning and Regulations	4.0	45	15	30	70	100
1.4	Economics for Business Decisions	4.0	45	15	30	70	100
1.5	Business Statistics	4.0	45	15	30	70	100
1.6	Marketing Management	4.0	45	15	30	70	100
1.7	Mini Project Report	2.0	15	15			100
Total		26.0	285	105	180	420	700

**MBA (Day)- Course Matrix of II Semester**

Paper Code	Subject	Credit	Contact Hours		I.A	U.E (T-P)**	Total Marks
			L-P*				
2.1	Entrepreneurship and Start-ups Management	4.0	45	15	30	70	100
2.2	Business Research Methods	4.0	45	15	30	70	100
2.3	Managing Human Resources	4.0	45	15	30	70	100
2.4	Business Analytics	4.0	45	15	30	70	100
2.5	Financial Management	4.0	45	15	30	70	100
2.6	Production and Operations Research	4.0	45	15	30	70	100
2.7	Soft Core Employability Skill Development-II	2.0	15	15	30	70	100
Total		26.0	285	105	210	490	700

**MBA (Evening)- Course Matrix of II Semester**

Paper Code	Subject	Credit	Contact Hours		I.A	U.E (T-P)**	Total Marks
			L-P*				
2.1	Entrepreneurship and Start-ups Management	4.0	45	15	30	70	100
2.2	Business Research Methods	4.0	45	15	30	70	100
2.3	Managing Human Resources	4.0	45	15	30	70	100
2.4	Business Analytics	4.0	45	15	30	70	100
2.5	Financial Management	4.0	45	15	30	70	100
2.6	Production and Operations Research	4.0	45	15	30	70	100
2.7	Mini Project Report	2.0	15	15	-	-	100
Total		26.0	285	105	210	490	700

\* Contact hours include work relating to Lecture and Practical (L-P)

\* Mini Project Report guidelines will be issued by Department of Management from time to time



**MBA (Day & Evening)- Course Matrix of III Semester**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>C) III Semester</b>							
<b>Core Subjects:</b> 3.1 Strategic Management & Business Ethics		1x3	1x3	1x30	1x70	1x100	1x3
<b>Elective Subjects</b> 3.2 Finance 3.3 Marketing 3.4 Human Resources 3.5 Entrepreneurship And Startups 3.6 Production and Operations Management 3.7 Business Analytics 3.7.2 Predictive Analytics Using R	6T      1P**	5x4	5x4				5x4
3.8 Open Elective	1T	1x2	1x3	1x30	1x70	1x100	1x2
3.9 Project Work for 4 Weeks (Industry Internship Program) Viva-Voce 25 Marks Project Report 25 Marks				1x50	-	1x50	1x2
<b>Total Credits</b>							<b>27</b>

**\*\* The Practical course is for Business analytics specialization only (PREDICTIVE ANALYTICS USING R) the details of the practical examination is mentioned in the syllabus as per BoS recommendation (Lab Driven Course)**

**\*\*The students who are opting business analytics has to undertake 5 theory and 1 practical examination**

**\*\* Other than Business analytics specialization totally 6 theory papers**

**MBA (Day & Evening)- Course Matrix of IV Semester**

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>D) IV Semester</b>							
<b>Core Subjects:</b> 4.1 International Business		1x3	1x3	1x30	1x70	1x100	1x3
<b>Elective Subjects</b> 4.2 Finance 4.3 Marketing 4.4 Human Resources 4.5 Entrepreneurship And Startups 4.6 Production and Operations Management 4.7 Business Analytics 4.7.2 Data Visualization and Business Reporting Using Table AU	6T	5x4	5x4				5x4
	1P*						
Dissertation / Master Thesis for 6 weeks in an Organization Viva-Voce-50 Marks Dissertation-200				1x50	1x200	1x250	1x4
<b>Total Credits</b>							<b>27</b>

**\*\* The Practical course is for Business analytics specialization only (DATA VISUALIZATION AND BUSINESS REPORTING USINGTABLEAU) the details of the practical examination is mentioned in the syllabus as per BoS recommendation (Lab Driven Course)**

**\*\*The students who are opting business analytics has to undertake 5 theory and 1 practical examination**

**\*\* Other than Business analytics specialization totally 6 theory papers**

**MASTER OF EDUCATION (M.Ed)****I SEMESTER**

<b>Paper Code</b>	<b>Title of the Paper</b>	<b>Instructional hrs</b>	<b>IA Marks</b>	<b>Exam Marks</b>	<b>Credits</b>
HC-01	Historical Foundations of Education	4	30	70	4
HC-02	Philosophical Foundations of Education	4	30	70	4
HC-03	Research Methodology of Education	4	30	70	4
HC-04	Curriculum Development	4	30	70	4
HC-05	Teacher Education	4	30	70	4
HC-06	Higher Education	4	30	70	4
<b>Inter Semester Break -1 Practicum</b>					
PC-01	Research Communication & Expository writing skills	4	50	-	2
<b>Total Marks and Credits</b>			165	385	26

**II SEMESTER**

<b>Paper Code</b>	<b>Title of the Paper</b>	<b>Instructional hrs</b>	<b>IA Marks</b>	<b>Exam Marks</b>	<b>Credits</b>
HC-07	Psychological foundation of Education	4	30	70	4
HC-08	Sociological foundation of Education	4	30	70	4
HC-09	Methods of Research and Statistics	4	30	70	4
HC-10	Teacher Education Issues	4	30	70	4
HC-11	Entrepreneurship Education and Training	4	30	70	4
<b>Inter Semester Break -2 Practicum</b>					
PC-02	Proposal preparation and presentation (Dissertation based practicum)	4	50	-	2
<b>Total Marks and Credits</b>			185	315	22

### III SEMESTER

Paper Code	Title of the Paper	Instructional hrs	IA Marks	Exam Marks	Credits
HC-12	Education Technology	4	30	70	4
SC-01	Elementary level Specialization; (Any Two) a. Early Childhood care & Education b. Reflective teaching & Innovative practices c. Life Skills Education <b>OR</b>	4	30	70	4
Sc-02	Secondary level Specialization; (Any Two) a. Educational Management & Administration b. Educational planning c. Advance pedagogy of Teaching	4	30	70	4
OE-01	Open Elective (Pedagogy of Teaching)	4	30	70	4
Inter Semester Break -3 Practicum					
PC-03	Internship (in Teacher Education Institution)	4	100	-	4
Total Marks and Credits			220	280	20

**IV SEMESTER**

<b>Paper Code</b>	<b>Title of the Paper</b>	<b>Instructional hrs</b>	<b>IA Marks</b>	<b>Exam Marks</b>	<b>Credits</b>
HC-13	Study of Contemporary issues in Education	4	30	70	4
HC-14	Continuous comprehensive evaluation	02	15	35	02
SC-03	Elementary level Specialization; (Any Two) a. Inclusive Education b. Learner Assessment c. Environment Education <b>OR</b> Secondary level Specialization; (Any Two)	4	30	70	4
Sc-04	a. Educational Administration & Leadership b. Manpower planning & Finance c. Educational Measurement & evaluation	4	30	70	4
<b>Inter Semester Break -4 Practicum</b>					
PC-04	Dissertation	08	-	100	4
PC-05	Viva-Voce Exam	Oral Exam	-	50	2
<b>Total Marks and Credits</b>			<b>105</b>	<b>295</b>	<b>20</b>