

JAIPUR NATIONAL UNIVERSITY

JAGATPURA, JAIPUR



Programme Structure


(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur

School of Engineering & Technology

Programme: B.Tech Biotechnology Engineering

Semester-wise structure and curriculum

[L = Lecture, T = Tutorial, P = Practical & C = Credits

YEAR-I, SEMESTER-I

S.No.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Intern al	Exter nal	Total	C
THEORY									
1.	BSC101	Engineering Physics – I	2	1	0	30	70	100	3
2.	BSC102	Engineering Chemistry – I	2	1	0	30	70	100	3
3.	BSC103 /BSC- BTFT 103	Engineering Mathematics – I	3	1	0	30	70	100	4
4.	ESC 104	Fundamentals of Electrical Science	2	1	0	30	70	100	3
5.	ESC 105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC 106	English – I	2	0	0	15	35	50	2
7.	HSMC 107	Environmental Studies	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC 108	Engineering Physics Lab – I	0	0	2	30	20	50	1
9.	BSC 109	Engineering Chemistry Lab – I	0	0	2	30	20	50	1
10.	ESC 110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1
11.	ESC 111	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC 112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC 113	Communication Skills Lab – I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25

Semester-wise structure and curriculum

B. Tech. First Year (common to all B. Tech. Courses)

[L = Lecture, T = Tutorial, P = Practical & C = Credits


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YEAR-I, SEMESTER-II

S. N.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Interna l	Externa l	Tota l	
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC 203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC 204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC 206	English – II	2	0	0	15	35	50	2
PRACTICAL									
7.	BSC 207	Engineering Physics Lab – II	0	0	2	45	30	75	1
8.	BSC 208	Engineering Chemistry Lab-II	0	0	2	45	30	75	1
9.	ESC 209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing PracticesLab	1	0	2	60	40	100	2
13.	HSMC 211	Communication Skills Lab – II	0	0	2	30	20	50	1
14.	GP 212	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25

L: Lecturer, T: Tutorial, *Compulsory but not counted towards credit hours


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Year: II
Theory Papers

Semester: III

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-BT.301	Introduction to Biology	3	0	3	30	70	100
PCC-BT.302	Cell Biology	3	0	3	30	70	100
PCC-BT.303	Biochemistry-I	3	1	4	30	70	100
PCC-BT.304	Fluid Mechanics	3	1	4	30	70	100
PCC-BT.305	Bioprocess Calculations	3	1	4	30	70	100
HSMC-BT.306	Indian Constitution*	3	0	0	30	70	100
Total		18	3	18	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal	External	Total
LC-BT.307	Cell Biology	3	1.5	60	40	100
LC-BT.308	Biochemistry-I	3	1.5	60	40	100
LC-BT.309	Fluid Mechanics	3	1.5	45	30	75
LC-BT.310	Group Discussion & Seminar	2	1	45	30	75
MC- BT.311	Discipline and Extracurricular Activity*	0	0	--	50	50
Total		11	5.5	210	190	400
Total Semester Credits		23.5		Grand Total		1000

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Year: II
Theory Papers

Semester: IV

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-BT.401	Microbiology	3	0	3	30	70	100
PCC-BT.402	Analytical Techniques in Biotechnology	3	0	3	30	70	100
PCC-BT.403	Biochemistry-II	3	1	4	30	70	100
PCC-BT.404	Biostatistics	3	1	4	30	70	100
PCC-BT.405	Molecular Biophysics	3	1	4	30	70	100
HSMC-BT.406	Entrepreneurship Development*	3	-	0	30	70	100
Total		18	3	18	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal	External	Total
LC-BT.407	Microbiology	3	1.5	60	40	100
LC-BT.408	Analytical Techniques in Biotechnology	3	1.5	60	40	100
LC-BT.409	Biochemistry-II	3	1.5	45	30	75
LC-BT.410	Group Discussion & Seminar	2	1	45	30	75
MC-BT.411	Discipline and Extracurricular Activity*	0	0	--	50	50
Total		11	5.5	210	190	400
Total Semester Credits		23.5		Grand Total		1000

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T: Tutorial,

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Year: III

Semester: V

Theory Papers

Course Code		Course Name	Hours/Week		Credits	Evaluation Scheme		
			L	T		Mid Term Test	End Term Test	Total
PCC-BT.501		Molecular Genetics	3	0	3	30	70	100
PCC-BT.502		Food Biotechnology	3	1	4	30	70	100
PCC-BT.503		Bio-nanotechnology	3	1	4	30	70	100
PCC-BT.504		Heat Transfer	3	1	4	30	70	100
Elective -I (Any One of the Following)								
BT.505	PEC-BT.505.1	Object oriented programming using C++	3	0	3	30	70	100
	PEC-BT.505.2	Perl for Biologist						
	PEC-BT.505.3	Java for Biologist						
Elective -II (Any One of the Following)								
OEC II-BT.506		Annexure-I	3	0	3	30	70	100
Total			18	3	21	180	420	600

Practical Papers

Course Code		Course Name	Hours Per Week	Credits	Evaluation Scheme		
					Internal	External	Total
LC-BT.507		Molecular Genetics	3	1.5	60	40	100
LC-BT.508	LC-BT.508.1	Object oriented programming using C++	3	1.5	60	40	100
	LC-BT.508.2	Perl for Biologist					
	LC-BT.508.3	Java for Biologist					
LC-BT.509		Heat Transfer	3	1.5	45	30	75
LC-BT.510		Industrial Visit, Report & Presentation	2	1	45	30	75
MC-BT.511		Discipline and Extracurricular Activity	0	0	--	50	50
Total			11	5.5	210	190	400
Total Semester Credits			26.5		Grand Total		1000

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Year: III
Theory Papers

Semester: VI

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-BT.601	Bioinformatics	3	1	4	30	70	100
PCC-BT.602	Recombinant DNA Technology	3	0	3	30	70	100
PCC-BT.603	Mass Transfer	3	1	4	30	70	100
PCC-BT.604	Genome Analysis	3	1	4	30	70	100
Elective-III (Any One of the Following)		3	0	3	30	70	100
BT.605	PEC-BT.605.1 Bioprocess Engineering						
	PEC-BT.605.2 Industrial Biotechnology						
	PEC-BT.605.3 Molecular Farming						
Elective-IV (Any One of the Following)		3	0	3	30	70	100
OEC II-BT.606	Annexure-I						
Total		18	3	21	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal	External	Total
LC-BT.607	Bioinformatics	3	1.5	60	40	100
LC-BT.608	Recombinant DNA Technology	3	1.5	60	40	100
LC-BT.609	Bioprocess Engineering	3	1.5	45	30	75
LC-BT.610	Mass Transfer	3	1.5	45	30	75
MC-BT.611	Discipline and Extracurricular Activity*	-	-	-	50	50
Total		12	6	210	190	400
Total Semester Credits		27		Grand Total		1000

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Year: IV

Semester: VII

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-BT.701	Environmental Biotechnology	3	0	3	30	70	100
PCC-BT.702	Database Management System	3	0	3	30	70	100
PCC-BT.703	Animal Cell & Plant Tissue Culture	3	1	4	30	70	100
PCC-BT.704	Immunology	3	1	4	30	70	100
Elective-V (Any One of the Following)		3	1	4	30	70	100
BT.705	PEC-BT.705.1 Medical Biotechnology						
	PEC-BT.705.2 System Biology						
	PEC-BT.705.3 Metabolic Engineering						
Elective-VI (Any One of the Following)		3	0	3	30	70	100
OEC-BT.706	Annexure-I						
Total		18	3	21	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal	External	Total
LC-BT.707	Environmental Biotechnology	3	1.5	60	40	100
LC-BT.708	Database Management System	3	1.5	60	40	100
LC-BT.709	Immunology	3	1.5	45	30	75
LC-BT.710	Group Discussion & Seminar	2	1	45	30	75
MC-BT.711	Discipline and Extracurricular Activity*	-	-	-	50	50
TOTAL		11	5.5	260	140	400
Total Semester Credits		26.5		Grand Total		1000

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Year: IV

Semester: VIII

Course Code	Course Name		Hours Per Week	Credits	Evaluation Scheme		
					Internal	External	Total
PROJ-BT.801	Project Work (6 months on latest and emerging topics of Biotechnology)		30	15	-	-	800
	PROJ-BT.801.1	Dissertation (Valuation by Internal Examiner)			480	-	
	PROJ-BT.801.2	Dissertation (Valuation by External Examiner)			-	320	
PROJ-BT.802	Seminar & Defense				-	-	200
	PROJ-BT.802.1	Presentation			120	-	
	PROJ-BT.802.2	Defense			80	-	
		TOTAL	30	15	680	320	1000
Total Semester Credits			15		Grand Total		1000

L: Lecturer, T: Tutorial, *Compulsory but not counted towards credit hours

Range of credits

A student must secure 192 credits to be eligible to get Under Graduate degree in B.Tech. Biotechnology

COURSE CODE AND DEFINITIONS

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional core courses
PEC	Professional Elective courses
OEC	Open Elective courses
LC	Laboratory course
MC	Mandatory courses
PROJ	Project

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School of Engineering & Technology

Programme: B.Tech Civil Engineering

Semester-wise structure and curriculum

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YEAR-I, SEMESTER-I

S.No.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Intern al	Exter nal	Total	C
THEORY									
1.	BSC101	Engineering Physics – I	2	1	0	30	70	100	3
2.	BSC102	Engineering Chemistry – I	2	1	0	30	70	100	3
3.	BSC103 /BSC- BTFT 103	Engineering Mathematics – I	3	1	0	30	70	100	4
4.	ESC 104	Fundamentals of Electrical Science	2	1	0	30	70	100	3
5.	ESC 105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC 106	English – I	2	0	0	15	35	50	2
7.	HSMC 107	Environmental Studies	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC 108	Engineering Physics Lab – I	0	0	2	30	20	50	1
9.	BSC 109	Engineering Chemistry Lab – I	0	0	2	30	20	50	1
10.	ESC 110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1
11.	ESC 111	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC 112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC 113	Communication Skills Lab – I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25

Semester-wise structure and curriculum

B. Tech. First Year (common to all B. Tech. Courses)

[L = Lecture, T = Tutorial, P = Practical & C = Credits

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YEAR-I, SEMESTER-II

S. No.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC 203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC 204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC 206	English – II	2	0	0	15	35	50	2
PRACTICAL									
7.	BSC 207	Engineering Physics Lab – II	0	0	2	45	30	75	1
8.	BSC 208	Engineering Chemistry Lab-II	0	0	2	45	30	75	1
9.	ESC 209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing Practices Lab	1	0	2	60	40	100	2
13.	HSMC 211	Communication Skills Lab – II	0	0	2	30	20	50	1
14.	GP 212	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25


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Year: II
Theory Papers

Semester: III

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-CE301	Civil Engineering Material	3	0	3	30	70	100
PCC-CE302	Engineering Mechanics	3	1	4	30	70	100
PCC-CE303	Introduction to Fluid Mechanics	3	1	4	30	70	100
PCC-CE304	Surveying and Geomatics-I	3	1	4	30	70	100
PCC-CE305	Engineering Geology	3	0	3	30	70	100
BSC-CE306	Mathematics – III (Probability and Statistics)	3	1	4	30	70	100
	Total	18	4	22	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-CE307	Surveying-I Lab	3	1.5	45	30	75
PCC-CE308	Fluid Mechanics Lab	3	1.5	45	30	75
PCC-CE309	Computer Aided Civil Engineering Drawing	2	1.5	45	30	75
PCC-CE310	Geology Lab	3	1.5	45	30	75
ESC-CE311	Environmental Studies*	2	0	30	20	50
GP-CE312	General Proficiency**	-	-	-	-	50
	TOTAL	13	6	260	140	400
	Total Semester Credits	28			Grand Total	1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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Year: II

Semester: IV

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-CE401	Concrete technology	3	0	3	30	70	100
PCC-CE402	Surveying and Geomatics-II	3	1	4	30	70	100
PCC-CE403	Introduction to Solid Mechanics	3	1	4	30	70	100
PCC-CE404	Hydraulic Engineering	3	1	4	30	70	100
PCC-CE405	Environmental Engineering-I	3	1	4	30	70	100
MC-CE406	Indian Constitution*	3	-	0	30	70	100
Total		18	4	22	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-CE407	Surveying and Geomatics Lab-II	3	1.5	45	30	75
PCC-CE408	Hydraulics Lab	3	1.5	45	30	75
PCC-CE409	Environmental Engineering-I Lab	2	1	45	30	75
PCC-CE410	Material Testing Lab	3	1.5	45	30	75
PCC-CE411	Professional Practices-III Lab	3	1.5	30	20	50
GP-CE412	General Proficiency*	-	-	-	-	50
TOTAL		14	7	260	140	400
Total Semester Credits		29		Grand Total		
				1000		

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T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

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Year: III

Semester: V

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-CE501	Transportation Engineering-I		3	1	4	30	70	100
PCC-CE502	Structural Engineering-I		3	1	4	30	70	100
PCC-CE503	Geotechnical Engineering- I		3	1	4	30	70	100
Professional Elective -I			3	-	3	30	70	100
PEC-CE	05.1	Environmental Engineering-II						
	05.2	Internet of things						
Open Elective –I								
OEC-CE	06.1	Material Testing and Evaluation	3	-	3	30	70	100
	06.2	Civil Engineering-Social &Global Impact						
	06.3	Renewable Energy Resources						
HSMC-CE506	Entrepreneurship Development		3	0	3	30	70	100
Total			18	3	21	180	420	600

Note: students have to select anyone subject from elective-I, II, III & open elective.

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-CE507	Structural Engineering Lab-I	2	1	45	30	75
PCC-CE508	Transportation Engineering-I Lab	2	1	45	30	75
PCC-CE509	Geotechnical Engineering Lab-I	2	1	30	20	50
PCC-CE510	EE Lab-II Lab	2	1	30	20	50
PCC-CE511	Professional Practices -III	4	2	60	40	100
GP-CE512	General Proficiency*	-	-	-	-	50
TOTAL		14	6	210	140	400
Total Semester Credits		27		Grand Total		1000

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T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

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Year: III

Semester: VI

Theory Papers

Course code	Subject Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-CE601	Design Of Steel Structure-1		3	1	4	30	70	100
PCC-CE602	Design Of Concrete Structure-I		3	1	4	30	70	100
Professional Elective -II			3	0	3	30	70	100
PEC-CE	603.1	Water resource engineering -1						
	603.2	Rural water sanitation and system						
	603.3	Rock mechanics						
Professional Elective -III			3	0	3	30	70	100
PEC-CE	604.1	Transportation engineering -2						
	604.2	Solid and hazardous waste management						
	604.3	Engineering hydrology						
Open Elective -II			3	0	3	30	70	100
OEC-CE	605.1	Geotechnical Engineering- II						
	605.2	Metro system and engineering						
	605.3	Hydropower engineering						
HSMC-CE606	Professional Ethics & Disaster Management		3	0	3	30	70	100
Total			18	2	20	180	420	600

Note: students have to select anyone subject from elective-I, II, III & open elective.



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PRACTICAL EXAMINATION

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PEC-CE607	Water Resources Engg-1. Lab	3	1.5	45	30	75
PEC-CE608	Geotechnical Engineering-2 Lab	2	1	45	30	75
PEC-CE609	Project Stage-I	4	2	60	40	100
PEC-CE610	Design Of Steel Structure Lab -I	3	1.5	60	40	100
GP-CE611	Design of concrete structure lab					
PEC-CE607	General Proficiency*	-	-	50	-	50
	TOTAL	12	6	260	140	400
	Total Semester Credits	26			Grand Total	1000

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ETE: End Term Exam

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Year: IV

Semester: VII

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EE701	Design of Steel Structure-2		3	1	4	30	70	100
PCC-EE702	Design of concrete structure-2		3	1	4	30	70	100
Professional Elective -IV			3	0	3	30	70	100
PEC-EE	703.1	Open channel flow						
	703.2	Repair and rehabilitation of buildings						
Professional Elective -V			3	0	3	30	70	100
PEC-EE	704.1	Water Resources Engineering-2						
	704.2	Earthquake engineering						
Open Elective –III			3	0	3	30	70	100
OEC-EE	705.1	Foundation engineering						
	705.2	Ground Improvement Technique						
Open Elective –IV			3	-	3	30	70	100
OEC-EE	706.1	Non-conventional sources of energy						
	706.2	Project planning & construction management						
	706.3	Construction Engineering & Management						
Total		18	2	20	180	420	600	

Note: students have to select anyone subject from elective-I, II, III & open elective.


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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-CE707	Water Resources Engineering Lab-2	2	1	45	30	75
PCC-CE708	Project Stage-II	4	2	60	40	100
PCC-CE709	Design of concrete structure lab-2	4	2	60	40	100
PCC-CE710	Steel Structure Lab- II	2	1	45	30	75
GP-CE711	Discipline & Extra-Curricular Activities*	-	-	50	-	50
	TOTAL	12	6	260	140	400
Total Semester Credits		26		Grand Total		1000

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T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

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Year: IV

Semester: VIII

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-CE801	Internship/Entrepreneurship Project Work Presentation-II	30	15	420	280	700
PCC-CE802	Emergent Technology/Academics Based Seminar	4	2	150	100	250
GP-CE803	Discipline & Extra-Curricular Activities*	-	-	50	-	50
TOTAL		34	17	620	380	1000
Total Semester Credits		17		Grand Total		1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Range of credits

A student must secure 203 credits to be eligible to get Under Graduate degree in B.Tech. CIVIL ENGINEERING

COURSE CODE AND DEFINITIONS

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional core courses
PEC	Professional Elective courses
OEC	Open Elective courses
LC	Laboratory course
MC	Mandatory courses
PROJ	Project

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School of Engineering & Technology
Programme: B.Tech Chemical Engineering
(Scheme of Chemical Engineering as per CBCS)

SEMESTER: I

YEAR: I

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	BSC101	Engineering Physics – I	2	1	0	3	3	30	70	100
2.	BSC102	Engineering Chemistry – I	2	1	0	3	3	30	70	100
3.	BSC103	Engineering Mathematics – I	3	1	0	4	4	30	70	100
4.	ESC104	Fundamentals of Electrical Science	2	1	0	3	3	30	70	100
5.	ESC105	Introduction to IT and Computer Programming	3	0	0	3	3	30	70	100
6.	HSMC106	English – I	2	0	0	2	2	15	35	50
7.	HSMC107	Environmental Studies*	2	0	0	2	0	30	70	100
Total						22	18			550
Practical Laboratories										
8.	BSC108	Engineering Physics Lab – I	0	0	2	2	1	30	20	50
9.	BSC109	Engineering Chemistry Lab – I	0	0	2	3	1	30	20	50
10.	ESC110	Fundamentals of Electrical Science Lab	0	0	2	2	1	60	40	100
11.	ESC111	IT and Computer Programming Lab	0	0	2	2	1	45	30	75
12.	ESC112	Engineering Graphics & Design Lab	1	0	2	2	2	45	30	75
13.	HSMC113	Communication Skills Lab – I	0	0	2	2	1	30	20	50
GP 114	General Proficiency *	-	-	-	-	-	-	50	50	50
Total						11	5			450
Grand Total						32	24			1000

*L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit*

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SEMESTER: II**YEAR: I**

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	BSC 201	Engineering Physics –II	2	1	0	3	3	30	70	100
2.	BSC 202	Engineering Chemistry – II	2	1	0	3	3	30	70	100
3.	BSC203	Engineering Mathematics –II	3	1	0	4	4	30	70	100
4.	ESC204	Engineering Mechanics	3	1	0	4	4	30	70	100
5.	ESC 205	Programming for Problem Solving	3	0	0	3	3	30	70	100
6.	HSMC206	English – II	2	0	0	2	2	15	35	50
Total						19	19			550
Practical Laboratories										
7.	BSC207	Engineering Physics Lab – II	0	0	2	2	1	45	30	75
8.	BSC208	Engineering Chemistry Lab-II	0	0	2	2	1	45	30	75
9.	ESC209	Computer programming Lab	0	0	2	2	1	60	40	100
10.	ESC 210	Workshop Manufacturing Practices Lab	1	0	2	3	2	60	40	100
11.	HSMC211	Communication Skills Lab – II	0	0	2	2	1	30	20	50
12.	GP 212	General Proficiency*	-	-	-	-	-			50
Total						11	06			450
Grand Total						32	25			1000

*L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit*


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SEMESTER: III

YEAR: II

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	BSC-CH301	Mathematics-III	3	1	-	4	4	30	70	100
2.	BSC-CH302	Advance Engineering Chemistry	3	-	-	3	3	30	70	100
3.	PCC-CH303	Fluid Mechanics	3	1	-	4	4	30	70	100
4.	PCC-CH304	Material & Energy Balance	3	1	-	4	4	30	70	100
5.	PCC-CH305	Chemical Engineering Thermodynamics-I	3	1	-	4	3	30	70	100
6.	MC-CH306	Constitution of India	3	0	0	3	0	30	70	100
Total						22	18			600
Practical Laboratories										
7.	BSC-CH307	Advance Engineering Chemistry	-	-	2	2	1	60	40	100
8.	PCC-CH308	Fluid Mechanics	-	-	3	3	1.5	60	40	100
9.	PCC-CH309	Material & Energy Balance	-	-	3	3	1.5	60	40	100
10.	HSMC-CH310	Technical Report Writing & Seminar	-	-	2	2	1	30	20	50
11.	GP311	General Proficiency*	-	-	-					50
Total						11	5			400
Grand Total						32	24			1000

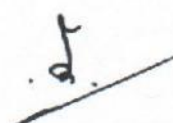
L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit


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SEMESTER: IV**YEAR: II**

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	PCC-CH401	Mechanical Operation	3	1	-	4	4	30	70	100
2.	PCC-CH402	Mass Transfer Operation-I	3	1	-	4	4	30	70	100
3.	PCC-CH403	Industrial Pollution Abetment	3	-	-	3	3	30	70	100
4.	PCC-CH404	Chemical Engineering Thermodynamics-II	3	1	-	4	4	30	70	100
5.	PCC-CH405	Heat Transfer Operation	3	1	-	4	4	30	70	100
6.	HSMC-CH406	Entrepreneurship Development	2	-	-	2	2	30	70	100
Total						21	21			600
Practical Laboratories										
7.	PCC-CH407	Mechanical Operation	-	-	3	3	1.5	60	40	100
8.	PCC-CH408	Mass Transfer Operation-I	-	-	3	3	1.5	60	40	100
9.	PCC-CH409	Industrial Pollution Abatement	-	-	2	2	1	30	20	50
10.	PCC-CH410	Heat Transfer Operation	-	-	3	3	1.5	60	40	100
11.	GP411	General Proficiency*	-	-	-					50
Total						11	5.5			400
Grand Total						32	26.5			1000

*L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit*


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SEMESTER: V

YEAR: III

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	PCC-CH501	Process Dynamics Instrumentation & Control	3	1	-	4	4	30	70	100
2.	PCC-CH502	Chemical Reaction Engineering-I	3	1	-	4	4	30	70	100
3.	PCC-CH503	Mass Transfer Operation-II	3	1	-	4	4	30	70	100
4.	PCC-CH504	Petrochemical Technology	2	1	-	3	3	30	70	100
5.	Professional Elective Courses-I		3	-	-	3	3	30	70	100
	PEC-CH505.1	Polymer Science & Technology								
	PEC-CH505.2	Fertilizer Technology								
	PEC-CH505.3	Pulp & Paper Technology								
6.	OEC-CH506	Open Elective Courses-I	3	-	-	3	3	30	70	100
Total						21	21			600
Practical Laboratories										
7.	PCC-CH507	Process Dynamics Instrumentation & Control	-	-	3	3	1.5	60	40	100
8.	PCC-CH508	Chemical Reaction Engineering-I	-	-	3	3	1.5	60	40	100
9.	PCC-CH509	Mass Transfer Operation-II	-	-	3	3	1.5	60	40	100
10.	PCC-CH510	Petrochemical Technology	-	-	2	2	1	30	20	50
11.	GP511	General Proficiency*	-	-	-	-	-			50
Total						11	5.5			400
Grand Total						32	26.5			1000

L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit


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SEMESTER: VI

YEAR: III

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	PCC-CH601	Chemical Reaction Engineering-II	3	1	-	4	4	30	70	100
2.	PCC-CH602	Chemical Process Modeling & Simulation	3	1	-	4	4	30	70	100
3.	PCC-CH603	Chemical Technology	3	1	-	4	4	30	70	100
4.	ESC-CH604	Optimization Techniques	3	1	-	4	4	30	70	100
5.	Professional Elective Courses-II		3	-	-	3	3	30	70	100
	PEC-CH605.1	Process Utility & Industrial Safety								
	PEC-CH605.2	Energy Management								
	PEC-CH605.3	Pharmaceutical Technology								
6.	OEC-CH606	Open Elective Courses-II	3	-	-	3	3	30	70	100
Total						22	22			600
Practical Laboratories										
7.	PCC-CH607	Chemical Reaction Engineering-II	-	-	3	3	1.5	60	40	100
8.	PCC-CH608	Chemical Process Design & Simulation	-	-	3	3	1.5	60	40	100
9.	PCC-CH609	Chemical Technology	-	-	3	3	1.5	30	20	50
10.	ESC-CH610	Optimization Techniques Lab	-	-	3	3	1.5	60	40	100
11.	GP611	General Proficiency*	-	-	-					50
Total						12	6			400
Grand Total						34	28			1000

L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit

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SEMESTER: VII

YEAR: III

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
Theory Papers										
1.	PCC-CH701	Transport Phenomena	3	1	-	4	4	30	70	100
2.	PCC-CH702	Process Plant Design & Economics	3	1	-	4	4	30	70	100
3.	PCC-CH703	Bioprocess Engineering	3	1	-	4	4	30	70	100
4.	Professional Elective courses-III (Any One)		3	-	-	3	3	30	70	100
	PEC-CH704.1	Food Technology								
	PEC-CH704.2	Petroleum Refining Engineering								
	PEC-CH704.3	Solid Waste Management								
5.	Professional Elective courses-IV (Any One)		3	-	-	3	3	30	70	100
	PEC-CH705.1	Process Integration								
	PEC-CH705.2	Material Science & Engineering								
	PEC-CH705.3	Fuel Cell Technology								
6.	OEC-CH706	Open Elective Courses-III	3	-	-	3	3	30	70	100
Total						17	17			600
Practical Laboratories										
7.	PCC-CH707	Process Plant Design	-	-	3	3	1.5	60	40	100
8.	SI-CH708	Practical Training & Seminar	-	-	2	2	1	60	40	100
9.	SI-CH709	Capstone Project	-	-	8	8	4	90	60	150
10.	GP710	General Proficiency*	-	-	-					50
Total						13	6.5			400
Grand Total						30	23.5			1000

L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit


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SEMESTER: VIII**YEAR: IV**

Sr. No.	Course Code	Course Title	Teaching Hours/week				Credits	Marks Allocation		Total
			L	T	P	Total		Internal	End Semester	
1.	Proj-CH801	Project					8	480	320	800
2.	Proj-CH802	Seminar & Defense	-	-			2	120	80	200
Grand Total							10			1000

L : Lecture, T : Tutorial, P : Practical, *Compulsory but not counted towards credit

Total Contact Hours per week =31

The candidate will be required to undertake a project work of six months for Project on a relevant topic in a reputed Industry/ R & D center/Institute and submit a scientific report of the work done in the project under the guidance of supervisor(s) at work place.

Evaluation of Project Work: Supervisor(s) shall assess the quality of the work along with the written report and award marks out of 120 (60% of project marks). The evaluation for remaining 80 marks (40% of project marks) shall be done by an external examiner based on the quality of work done by the student along with written report, presentation and viva-voce.


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School of Engineering & Technology

Programme: B.Tech Computer Science Engineering

YEAR-I, SEMESTER-I

S.No	Course Code	Course Title	Contact Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC 101	Engineering Physics — I	2	1	0	30	70	100	3
2.	BSC 102	Engineering Chemistry — I	2	1	0	30	70	100	3
3.	BSC 103 /BSC- BTFT103	Engineering Mathematics — I	3	1	0	30	70	100	4
4.	ESC 104	Fundamentals of Electrical Science	2	1	0	30	70	100	3
5.	ESC 105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC 106	English —I	2	0	0	15	35	50	2
7.	HSMC 107	Environmental Studies	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC 108	Engineering Physics Lab —I	0	0	2	30	20	50	1
9.	BSC 109	Engineering Chemistry Lab —I	0	0	2	30	20	50	1
10.	ESC 110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1
11.	ESC III	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC 112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC 113	Communication Skills Lab —I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency	-	-	-	-	50	50	-

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	Total						1000	25
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BSC : Basic Science Course

ESC : Engineering Science Course

HSMC : Humanities and Social Sciences including

Management courses

[L = Lecture, T = Tutorial, P = Practical & C = Credits]

YEAR-I, SEMESTER-II

S. N.	Course Code	Course Title	Contact- Per Week			Evaluation Scheme			Credit C
			L	T	P	Internal	External	Total	
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC206	English – II	2	0	0	15	35	50	2


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PRACTICAL									
7.	BSC207	Engineering Physics Lab – II	0	0	2	45	30	75	1
8.	BSC208	Engineering Chemistry Lab-II	0	0	2	45	30	75	1
9.	ESC209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing Practices Lab	1	0	2	60	40	100	2
11.	HSMC211	Communication Skills Lab – II	0	0	2	30	20	50	1
12.	GP 212	General Proficiency	-	-	-	-	50	50	-
	Total							1100	27

BSC : Basic Science Course

ESC : Engineering Science Course

HSMC : Humanities and Social Sciences including

Management courses


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Year: II

Semester: III

Theory Papers

Course code	Course Name	Hours Per		Credits	Evaluation Scheme		
		Week			Internal Assessment	End Term Examination	Total
		L	T				
BSC-CS301	Mathematics III	3	0	3	30	70	100
PCC-CS302	Discrete Mathematical Structure	3	1	4	30	70	100
PCC-CS303	Data Structure and Algorithms, through 'C'	3	0	3	30	70	100
ESC-CS304	Digital Electronics	3	0	3	30	70	100
ESC-CS305	Analog Electronic Circuits	3	0	3	30	70	100
HSMC-CS306	Economics for Engineers	2	0	2	30	70	100
	Total	17	1	18	180	420	600


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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
PCC-CS307	Data Structure Lab	4	2	60	40	100
ESC-CS308	Digital Electronics Lab	2	1	45	30	75
ESC-CS309	Analog Electronic Circuits Lab	4	2	60	40	100
PCC-CS310	Web Design Lab using HTML/ DHTML	2	1	45	30	75
GP311	General Proficiency*	-	-	50	-	50
	TOTAL	12	6	260	140	400
Total Semester Credits		24		Grand Total		1000

L:

Lecture,

T: Tutorial,

*Compulsory but not counted towards credit hours


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Year: II

Semester: IV

Theory Papers

Course Code	Course Name	Hours Per		Credits	Evaluation Scheme		
		Week			Internal Assessment	End Term Examination	Total
		L	T				
BSC-CS401	Optimization Techniques	3	0	3	30	70	100
PCC-CS402	Object Oriented Programming Using C++	3	0	3	30	70	100
PCC-CS403	Computer Organization & Architecture	3	0	3	30	70	100
PCC-CS404	Design & Analysis of Algorithms	3	0	3	30	70	100
ESC-CS405	Communication Fundamentals	3	0	3	30	70	100
HSMC-CS406	Entrepreneurship Development	2	-	2	30	70	100
	Total	17	0	17	180	420	600


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Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
BSC-CS407	OT Simulation Lab using Sci Lab / MATLAB	2	1	45	30	75
PCC-CS408	Object Oriented Programming Lab	4	2	60	40	100
PCC-CS409	Design & Analysis of Algorithms Lab	4	2	60	40	100
ESC-CS410	Microprocessor Lab	4	2	45	30	75
GP411	General Proficiency*	-	-	50	-	50
	TOTAL	14	7	260	140	400
Total Semester Credits		24		Grand Total		1000

L:

Lecture,

T: Tutorial,

*Compulsory but not counted towards credit hours


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Year: III

Semester:
V

Theory Papers

Course Code	Course Name		Hours Per		Credit s	Evaluation Scheme		
			Week			Internal Assessment	End Term Examination	Total
			L	T				
PCC-CS501	Computer Graphics		3	0	3	30	70	100
PCC-CS502	Operating Systems		3	0	3	30	70	100
PCC-CS503	Database Management System s		3	0	3	30	70	100
PCC-CS504	Programming in Java		3	0	3	30	70	100
Elective -I (Any One of the Following)			3	0	3	30	70	100
PEC-CS505	505.1	Software Engineering						
	505.2	Information Theory and Coding						
	505.3	System Analysis and Design						
Open Elective – I (OEC-CS506)			3	0	3	30	70	100
Total			18	0	18	180	420	600

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Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
PCC-CS507	Computer Graphics Lab (C/C++)	4	2	60	40	100
PCC-CS508	Database Management Systems Lab	4	2	45	30	75
PCC-CS509	Java Programming Lab	4	2	60	40	100
PCC-CS510	UNIX Shell Scripting and TCP/IP Lab	2	1	45	30	75
GP511	General Proficiency*	-	-	50	-	50
	TOTAL	14	7	260	140	400
Total Semester Credits		25		Grand Total		1000

L:

Lecture,

T: Tutorial,

*Compulsory but not counted towards credit hours


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Year: III

Semester: VI

Theory Papers

Course Code	Course Name		Hours		Credits	Evaluation Scheme		
			Per Week			Internal Assessment	End Term Examination	Total
			L	T				
PCC-CS601	Computer Networks		3	0	3	30	70	100
PCC-CS602	Application and Development Using Java		3	0	3	30	70	100
Elective-II (Any One of the Following)								
PEC-CS603	603.1	Formal Language & Automata Theory	3	0	3	30	70	100
	603.2	Object Oriented Modeling And Design						
	603.3	Software Testing						
Elective-III (Any One of the Following)								
PEC-CS604	604.1	Artificial Intelligence	3	0	3	30	70	100
	604.2	Real Time Systems						
	604.3	Logical and Functional Programming						
Open Elective-II (OEC-CS605)			3	0	0	30	70	100

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MC606	Indian Constitution	3	0	0	30	70	100
Total		18	0	15	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
PCC-CS607	Computer Networks Lab	4	2	60	40	100
PCC-CS608	Application and Development Using Java Lab	4	2	60	40	100
PCC-CS609	Python Lab	4	2	45	30	75
PCC-CS610	Project Design with Seminar	2	1	45	30	75
GP611	General Proficiency*	-	-	50	-	50
TOTAL		14	7	260	140	400
Total Semester Credits		22		Grand Total		1000

L:

Lecture,

T: Tutorial ,

*Compulsory but not counted towards credit hours


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Year: IV

Semester: VII

Theory Papers

Course Code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		Internal Assessment	End Term Examination	Total
PCC-CS701	Compiler Construction		3	0	3	30	70	100
PCC-CS702	Relational Database Management System		3	0	3	30	70	100
Elective-IV (Any One of the Following)			3	0	3	30	70	100
PEC-CS703	703. 1	Image Processing & Pattern Recognition						
	703. 2	Cloud Computing						
	703. 3	Distributed Systems						
Elective-V (Any One of the Following)			3	0	3	30	70	100
PEC-CS704	704. 1	Android Programming						
	704. 2	Deep Learning & Neural Networks						
	704. 3	Data Mining & Warehousing						

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		g						
Open Elective-III (OEC-CS705)			3	0	3	30	70	100
Total			15	0	15	150	350	500

**Practical
Papers**

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
PCC-CS706	Compiler Construction Lab	4	2	60	40	100
PCC-CS707	RDBMS Lab (SQL Server/Oracle)	4	2	60	40	100
PCC-CS708	Android Programming Lab	4	2	60	40	100
PCC-CS709	Minor Project	4	2	90	60	150
GP710	General Proficiency*	-	-	50	-	50
TOTAL		16	8	320	280	500
Total Semester Credits		23		Grand Total		1000

L:

Lecture,

T: Tutorial,

*Compulsory but not counted towards credit hours


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Year: IV

Semester: VIII

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Internal Assessment	End Term Examination	Total
PCC-CS801	Internship/Entrepreneurship Project Work Presentation	30	10	420	280	700
PCC-CS802	Emergent Technology /Academics Based Seminar	4	2	150	100	250
GP803	General Proficiency *	-	-	50	-	50
	TOTAL	32	12	620	380	1000
Total Semester Credits		12		Grand Total		1000

L:

Lecture,

T: Tutorial ,

*Compulsory but not counted towards credit hours


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School of Engineering & Technology

Programme: B.Tech Electronics and Communication Engineering

YEAR-I, SEMESTER-I

S.No.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Intern al	Exter nal	Total	C
THEORY									
1.	BSC101	Engineering Physics – I	2	1	0	30	70	100	3
2.	BSC102	Engineering Chemistry – I	2	1	0	30	70	100	3
3.	BSC103 /BSC- BTFT 103	Engineering Mathematics – I	3	1	0	30	70	100	4
4.	ESC 104	Fundamentals of Electrical Science	2	1	0	30	70	100	3
5.	ESC 105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC 106	English – I	2	0	0	15	35	50	2
7.	HSMC 107	Environmental Studies	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC 108	Engineering Physics Lab – I	0	0	2	30	20	50	1
9.	BSC 109	Engineering Chemistry Lab – I	0	0	2	30	20	50	1
10.	ESC 110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1
11.	ESC 111	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC 112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC 113	Communication Skills Lab – I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25

Semester-wise structure and curriculum

[L = Lecture, T = Tutorial, P = Practical & C = Credits]


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Year: II

Semester: III

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End term Test	Total
PCC-EC301	Electronic Devices	3	0	3	30	70	100
PCC-EC302	Digital System Design	3	0	3	30	70	100
PCC-EC303	Signals & Systems	3	0	3	30	70	100
PCC-EC304	Network Theory	3	1	4	30	70	100
ESC-EC305	Data Structure & Algorithms	3	0	3	30	70	100
BSC-EC306	Mathematics – III (Probability and Statistics)	3	1	4	30	70	100
Total		18	02	20	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EC307	Electronic Devices Lab	3	1.5	60	40	100
PCC-EC308	Digital System Design Lab	3	1.5	60	40	100
PCC-EC309	Professional Practices-I Lab	2	1	45	30	75
ESC-EC310	Data Structure & Algorithms Lab	2	1	45	30	75
GP-EC311	General Proficiency *	-	-	-	-	50
TOTAL		10	5	210	140	400
Total Semester Credits		25		Grand Total		
				1000		

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

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Year: II

Semester: IV

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-EC401	Analog and Digital Communication	3	0	3	30	70	100
PCC-EC402	Analog Circuits	3	1	4	30	70	100
PCC-EC403	Microcontrollers	3	0	3	30	70	100
PCC-EC404	Electromagnetic Field Theory	3	1	4	30	70	100
ESC-EC405	Object Oriented Programming	3	0	3	30	70	100
MC-EC406	Indian Constitution*	3	0	0	30	70	100
Total		18	2	17	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EC407	Analog and Digital Communication Lab	3	1.5	60	40	100
PCC-EC408	Analog Circuits Lab	3	1.5	60	40	100
PCC-EC409	Microcontrollers Lab	2	1	45	30	75
ESC-EC410	Object Oriented Programming Lab	2	1	45	30	75
GP-EC411	General Proficiency *	-	-	-	-	50
TOTAL		10	5	210	140	400
Total Semester Credits		22		Grand Total		
				1000		

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

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Year: III

Semester: V

Theory Papers

Theory Papers			Hours Per Week		Credits	Evaluation Scheme		
Course code	Course Name		L	T		IA	ETE	Total
PCC-EC501	Electromagnetic Waves		3	0	3	30	70	100
PCC-EC502	Computer Architecture		3	0	3	30	70	100
PCC-EC503	Digital Signal Processing		3	1	4	30	70	100
Program Elective -I (Professional Elective Courses)			3	0	3	30	70	100
PEC-EC	504.1	Bio-Medical Electronics						
	504.2	Power Electronics						
	504.3	Nano Electronics						
Open Elective-I(Open Elective Courses)			3	0	3	30	70	100
OEC-EC	505.1	Optimization Techniques						
	505.2	Electronic Material Processes						
HSMC-EC506	Entrepreneurship Development		3	0	3	30	70	100
Total			18	1	19	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EC507	Electromagnetic Waves Lab	3	1.5	60	40	100
PCC-EC508	Digital Signal Processing Lab	3	1.5	60	40	100
PCC-EC509	Internship Program Seminar	2	1	45	30	75
PCC-EC510	Minor Project Lab-I	2	1	45	30	75
GP-EC511	General Proficiency *	-	-	-	-	50
TOTAL		10	5	210	140	400
Total Semester Credits		24		Grand Total		
				1000		

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

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Year: III

Semester: VI

Theory Papers

Theory Papers								
Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EC601	Control Systems		3	1	4	30	70	100
PCC-EC602	Computer Network		3	0	3	30	70	100
PCC-EC603	Probability Theory and Stochastic Processes		3	0	3	30	70	100
Elective -II (Professional Elective Courses)			3	0	3	30	70	100
PEC-EC	604.1	Information Theory & Coding						
	604.2	Speech and Audio Processing						
	604.3	Introduction to MEMS						
Open Elective-II(Open Elective Courses)			3	0	3	30	70	100
OEC-EC	605.1	Marketing for Engineers						
	605.2	VLSI Design						
HSMC-EC606	Professional Ethics & Disaster Management		3	0	3	30	70	100
Total			18	1	19	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EC607	Computer Networks Lab	3	1.5	60	40	100
PCC-EC608	Electronic Measurement Lab	3	1.5	45	30	75
PCC-EC609	Electronics CAD Laboratory	2	1	45	30	75
PCC-EC610	Minor Project Lab-II	2	1	60	40	100
GP-EC611	General Proficiency *	-	-	-	-	50
TOTAL		10	5	210	140	400
Total Semester Credits		24		Grand Total		
				1000		

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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Year: IV

Semester: VII

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EC701	Microwave Theory and Techniques		3	1	4	30	70	100
PCC-EC702	Fiber Optic Communications		3	0	3	30	70	100
Program Elective-III(Professional Elective Courses)								
PEC-EC	703.1	Mobile Communication and Networks	3	0	3	30	70	100
	703.2	VHDL						
Program Elective-IV(Professional Elective Courses)								
PEC-EC	704.1	Embedded Systems	3	0	3	30	70	100
	704.2	Wireless Sensor Networks						
Program Elective-V(Professional Elective Courses)								
PCC-EC	705.1	Digital Image & Video Processing	3	0	3	30	70	100
	705.2	Antennas and Propagation						
	705.3	High Speed Electronics						
Open Elective-III(Open Elective Courses)								
OEC-EC	706.1	Artificial Intelligence Techniques	3	0	3	30	70	100
	706.2	Wind and Solar Energy Systems						
Total			18	1	19	180	420	600


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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EC707	Microwave Lab	3	1.5	60	40	100
PCC-EC708	Fiber Optic & Mobile Communication Lab	3	1.5	60	40	100
HSMC-EC709	Industrial Economics & Management Lab	3	1.5	30	20	50
PCC-EC710	Major Project Lab	3	1.5	60	40	100
GP-EC711	General Proficiency *	-	-	-	-	50
TOTAL		12	6	210	140	400
Total Semester Credits		25		Grand Total		1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year: IV

Semester: VIII

Course code	Course Name	Hours Per Week			Credits	Evaluation Scheme		
		L	T	P		IA	ETE	Total
PCC-EC801	Industrial Project	-	-	30	08	420	280	700
PCC-EC802	Comprehensive Viva – Voce/Academic Seminar	-	-	4	2	150	100	250
GP-EC803	General Proficiency *	-	-	-	-	-	-	50
Total				60	10	570	380	1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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School of Engineering & Technology

Programme: B.Tech Food Technology Engineering

Year: I

Semester: I

S. N.	Course Code	Course Title	Contact- Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC101	Engineering Physics – I	2	1	0	30	70	100	3
2.	BSC102	Engineering Chemistry – I	2	1	0	30	70	100	3
3.	BSC103 /BSC-BTFT 103	Engineering Mathematics – I	3	1	0	30	70	100	4
4.	ESC104	Fundamentals of ElectricalScience	2	1	0	30	70	100	3
5.	ESC105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC106	English – I	2	0	0	15	35	50	2
7.	HSMC107	Environmental Studies*	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC108	EngineeringPhysics Lab – I	0	0	2	30	20	50	1
9.	BSC109	EngineeringChemistry Lab – I	0	0	2	30	20	50	1
10.	ESC110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1


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11.	ESC111	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC113	Communication Skills Lab – I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency**	-	-	-	-	50	50	-
Total								1000	25

*Compulsory but marks not considered for the purpose of Percentage calculation

**Compulsory but not counted towards credit hours

Year: I

Semester: II

S. N.	Course Code	Course Title	Contact- Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC206	English – II	2	0	0	15	35	50	2


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PRACTICAL									
7.	BSC207	Engineering Physics Lab – II	0	0	2	45	30	75	1
8.	BSC208	Engineering Chemistry Lab-II	0	0	2	45	30	75	1
9.	ESC209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing Practices Lab	1	0	2	60	40	100	2
13.	HSMC211	Communication Skills Lab – II	0	0	2	30	20	50	1
14.	GP 212	General Proficiency*	-	-	-	-	50	50	-
Total								1000	25

*Compulsory but not counted towards credit hours

COURSE CODE AND DEFINITIONS

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses


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Year: II
Theory Papers

Semester: III

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
BSC-FT301	Basic & Food Microbiology	3	-	3	30	70	100
PCC-FT302	Food Chemistry	3	1	4	30	70	100
PCC-FT303	Fluid Mechanics	3	1	4	30	70	100
PCC-FT304	Process Calculations	3	1	4	30	70	100
MC- FT305	Indian Constitution*	3	0	0	30	70	100
PCC-FT306	Food Additives & Contaminants	3	0	3	30	70	100
Total		18	3	18	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Sessional	Practical	Total
BSC-FT307	Basic & Food Microbiology Lab	3	1.5	60	40	100
PCC-FT308	Food Chemistry Lab	3	1.5	75	50	125
PCC-FT309	Fluid Mechanics	3	1.5	75	50	125
GP310	General Proficiency*	-	-	50	-	50
TOTAL		09	4.5	260	140	400
Total Semester Credits		22.5		Grand Total		
				1000		

L: Lecturer, T: Tutorial, *Compulsory but not counted towards credit


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Year: II

Semester: IV

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
BSC-FT401	Biochemistry & Nutrition	3	-	3	30	70	100
PCC-FT402	Principles of Food Processing & Preservation	3	1	4	30	70	100
OEC - Open Elective courses - I (Any One)							
OEC-FT403.1	Heat Transfer Operations	3	1	4	30	70	100
OEC-FT403.2	Refrigeration and Air conditioning	3	1	4	30	70	100
PCC-FT404	Food Hygiene, Sanitation & Plant Utilities	3	-	3	30	70	100
PCC-FT405	Food Laws & Food Regulations	3	-	3	30	70	100
PCC-FT406	Fermentation Technology	3	1	4	30	70	100
Total		18	3	21	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Sessional	Practical	Total
BSC-FT407	Biochemistry & Nutrition Lab	3	1.5	60	40	100
PCC-FT408	Principles of Food Processing & Preservation Lab	4	2	60	40	100
PCC-FT409	Heat Transfer Operations Lab	3	1.5	60	40	100
PCC-FT410	Group Discussion & Seminar	2	1	30	20	50
GP411	General Proficiency*	-	-	50	-	50
TOTAL		12	6	260	140	400
Total Semester Credits		27		Grand Total		1000

L: Lecturer, T: Tutorial, *Compulsory but not counted towards credit


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Year: III

Semester: V

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-FT501	Cereals & Legumes Processing Technology	3	-	3	30	70	100
PCC-FT502	Egg, Poultry, Meat & Fish Processing Technology	3	1	4	30	70	100
PCC-FT503	Milk & Milk Products Technology	3	-	3	30	70	100
Professional Elective courses - I (Any One of the Following)							
PEC-FT504.1	Mass Transfer Operations	3	1	4	30	70	100
PEC-FT 504.2	Chemical Reaction Engineering	3	1	4	30	70	100
Open Elective courses - II							
OEC-FT505	Open Elective Subject	3	-	3	30	70	100
HSMC-FT506	Entrepreneurship & Agribusiness Management	3	-	3	30	70	100
Total		18	2	20	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Sessional	Practical	Total
PCC-FT507	Cereals & Legumes Processing Technology Lab	3	1.5	60	40	100
PCC-FT508	Milk & Milk Products Technology Lab	3	1.5	60	40	100
Professional Elective courses - II (Any One of the Following)						
PEC-FT 509.1	Mass Transfer Operations Lab	3	1.5	60	40	100
PEC-FT 509.2	Chemical Reaction Engineering Lab	3	1.5	60	40	100
PCC-FT510	Practical Training and Seminar	2	1	30	20	50
GP511	General Proficiency*	-	-	50	-	50
TOTAL		11	5.5	260	140	400
Total Semester Credits			25.5	Grand Total		1000

L: Lecturer,

T: Tutorial,

*Compulsory but not counted towards credit


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Year: III

Semester: VI

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
PCC-FT601	Fruits and Vegetables Processing Technology	3	-	3	30	70	100
PCC-FT602	Oils and Fats Processing Technology	3	-	3	30	70	100
PCC-FT603	Bakery and Confectionary Technology	3	-	3	30	70	100
Professional Elective courses - III (Any One of the Following)							
PEC-FT604.1	Advance Techniques in Food	3	1	4	30	70	100
PEC-FT604.2	Biotechnological Tools in Food Analysis	3	1	4	30	70	100
Professional Elective courses - IV (Any One of the Following)							
PEC-FT605.1	Food Process Engineering	3	1	4	30	70	100
PEC-FT605.2	Unit Operations in Food Engineering	3	1	4	30	70	100
PEC-FT605.3	Food Storage and Transport Engineering	3	1	4	30	70	100
PCC-FT606	Food Analysis and Quality Control	3	-	3	30	70	100
Total		18	2	20	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Sessional	Practical	Total
PCC-FT607	Fruits and Vegetables Processing Technology Lab	3	1.5	60	40	100
PCC-FT608	Oils and Fats Processing Technology Lab	3	1.5	45	30	75
PCC-FT609	Bakery and Confectionary Technology Lab	3	1.5	60	40	100
PCC-FT610	Food Analysis and Quality Control Lab	3	1.5	45	30	75
GP611	General Proficiency*	-	-	50	-	50
TOTAL		12	6	260	140	400
Total Semester Credits			26	Grand Total		1000

L: Lecturer,

T: Tutorial ,

*Compulsory but not counted towards credit


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Year: IV

Semester: VII

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
Open Elective courses – III							
OEC-FT701	Open Elective Subject	3	1	4	30	70	100
PCC-FT702	Food Packaging	3	-	3	30	70	100
PCC-FT703	Plant Design and Project Engineering	3	-	3	30	70	100
HSMC-FT704	Food Product Development, Marketing and Sales	3	1	4	30	70	100
PCC-FT705	Food Industry Waste Management & By-Product Utilization	3	1	4	30	70	100
Professional Elective courses - V (Any One of the Following)							
PEC-FT706.1	Nutraceuticals, Functional and Therapeutic Foods	3	-	3	30	70	100
PEC-FT706.2	Flavor Technology	3	-	3	30	70	100
PEC-FT706.3	Industrial Safety and Hazards	3	-	3	30	70	100
	Total	18	3	21	180	420	600

Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				Sessional	Practical	Total
PCC-FT707	Food Industry Waste Management and By Product Utilization Lab	3	1.5	60	40	100
PCC- FT708	Food Packaging Lab	3	1.5	60	40	100
PCC- FT709	Plant Design and Project Engineering Lab	2	1	45	30	75
PCC- FT710	Practical Training and Seminar	2	1	45	30	75
GP 711	General Proficiency*	-	-	50	-	50
TOTAL		10	5	260	140	400
Total Semester Credits			26	Grand Total		1000

L: Lecturer, T: Tutorial, *Compulsory but not counted towards credit


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 Jaipur

Year: IV

Semester: VIII

Practical

Course Code	Course Title	Credits	Marks Allocation		Total
			Internal Evaluation	External Evaluation	
PCC-FT 801	Industrial Internship/Project Work	8	480	320	800
PCC-FT 802	Presentation & Defense	2	120	80	200
Grand Total		10	600	400	1000


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School of Engineering & Technology

Programme: B.Tech Electrical Engineering

[L = Lecture, T = Tutorial, P = Practical & C = Credits]

Year: I

Semester: I

S. N.	Course Code	Course Title	Contact- Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC101	Engineering Physics – I	2	1	0	30	70	100	3
2.	BSC102	Engineering Chemistry – I	2	1	0	30	70	100	3
3.	BSC103 /BSC-BTFT 103	Engineering Mathematics – I	3	1	0	30	70	100	4
4.	ESC104	Fundamentals of ElectricalScience	2	1	0	30	70	100	3
5.	ESC105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC106	English – I	2	0	0	15	35	50	2
7.	HSMC107	Environmental Studies*	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC108	EngineeringPhysics Lab – I	0	0	2	30	20	50	1
9.	BSC109	EngineeringChemistry Lab – I	0	0	2	30	20	50	1
10.	ESC110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1

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Registrar
Jaipur National University
Jaipur

11.	ESC111	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC112	Engineering Graphics & Design Lab	1	0	2	45	30	75	2
13.	HSMC113	Communication Skills Lab – I	0	0	2	30	20	50	1
14.	GP 114	General Proficiency**	-	-	-	-	50	50	-
Total								1000	25

*Compulsory but marks not considered for the purpose of Percentage calculation

**Compulsory but not counted towards credit hours

Year: I

Semester: II

S. N.	Course Code	Course Title	Contact-Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC206	English – II	2	0	0	15	35	50	2


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PRACTICAL									
7.	BSC207	EngineeringPhysics Lab – II	0	0	2	45	30	75	1
8.	BSC208	EngineeringChemistry Lab-II	0	0	2	45	30	75	1
9.	ESC209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing PracticesLab	1	0	2	60	40	100	2
13.	HSMC211	Communication SkillsLab – II	0	0	2	30	20	50	1
14.	GP 212	General Proficiency*	-	-	-	-	50	50	-
	Total							1000	25

*Compulsory but not counted towards credit hours

COURSE CODE AND DEFINITIONS

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses


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Year: II

Semester:III

Theory Papers

Course Code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-EE301	Electrical Circuit Analysis	3	1	4	30	70	100
PCC-EE302	Analog Electronics	3	0	3	30	70	100
PCC-EE303	Electrical Machine-I	3	1	4	30	70	100
PCC-EE304	Electrical Measurements & Measuring Instruments	3	1	4	30	70	100
PCC-EE305	Data Structures and Algorithms	3	0	3	30	70	100
BSC-EE306	Mathematics – III (Probability and Statistics)	3	1	4	30	70	100
	Total	18	4	22	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EE307	Analog Electronics Laboratory	2	1	45	30	75
PCC-EE308	Electrical Machines Laboratory - I	2	1	45	30	75
PCC-EE309	Electrical Measurement Lab	2	1	45	30	75
PCC-EE310	Professional Practices-I Lab	2	1	45	30	75
PCC-EE311	Computer Programming Lab	2	1	30	20	50
GP-EE312	General Proficiency*	-	-	-	-	50
	TOTAL	10	5	210	140	400
	Total Semester Credits		27		Grand Total	1000


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L:Lecturer,

T:Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year:II

Semester:IV

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-EE401	Digital Electronics	3	1	4	30	70	100
PCC-EE402	Electrical Machine-II	3	1	4	30	70	100
PCC-EE403	Power Electronics -I	3	0	3	30	70	100
PCC-EE404	Signals and System	3	1	4	30	70	100
PCC-EE405	Electrical Material	3	0	3	30	70	100
MC-EE406	Indian Constitution*	3	0	0	30	70	100
Total		18	3	18	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EE407	Digital Electronics Laboratory	2	1	45	30	75
PCC-EE408	Electrical Machines Laboratory - II	3	1.5	45	30	75
PCC-EE409	Power Electronics Laboratory-I	2	1	45	30	75
PCC-EE410	Circuit Analysis Lab	2	1	30	20	50
PCC-EE411	Professional Practices-II Lab	3	1.5	45	30	75
GP-EE412	General Proficiency*	-	-	-	-	50
TOTAL		12	6	210	140	400
Total Semester Credits		24		Grand Total		1000

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L:Lecturer,

T:Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year:III

Semester:V

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EE501	Power Electronics -II		3	1	4	30	70	100
PCC-EE502	Control Systems		3	1	4	30	70	100
PCC-EE503	Microprocessors		3	0	3	30	70	100
Professional Elective -I			3	0	3	30	70	100
PEC-EE	504.1	Electrical Machine Design						
	504.2	Renewable Energy Resources						
Open Elective -I								
OEC-EE	505.1	Transmission and Distribution of Electrical Power	3	0	3	30	70	100
	505.2	Power Plant Engineering						
		505.3	Data Base Management System					
HSMC-EE506	Entrepreneurship Development		3	0	3	30	70	100
Total			18	2	20	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EE507	Power Electronics Lab-II	2	1	45	30	75
PCC-EE508	Computer Based Electrical Machine Design Laboratory	2	1	45	30	75
PCC-EE509	Control Systems Laboratory	2	1	30	20	50


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PCC-EE510	Microprocessors Laboratory	2	1	30	20	50
PCC-EE511	Professional Practices -III	4	2	60	40	100
GP-EE512	General Proficiency*	-	-	-	-	50
TOTAL		12	6	210	140	400
Total Semester Credits		26			Grand Total	1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

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Year:III

Semester:VI

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EE601	Power Systems -I		3	1	4	30	70	100
PCC-EE602	Electrical Traction System		3	1	4	30	70	100
Professional Elective -II			3	0	3	30	70	100
PEC-EE	603.1	Electromagnetic Field Theory						
	603.2	Digital Signal Processing						
	603.3	Electrical Energy Conservation and Auditing						
Professional Elective -III			3	0	3	30	70	100
PEC-EE	604.1	Power System Protection						
	604.2	Control Systems Design						
	604.3	Line Commutated and Active Rectifiers						
Open Elective -II			3	0	3	30	70	100
OEC-EE	605.1	High Voltage Engineering						
	605.2	Analog and Digital Communication						
	605.3	Power System Dynamics & Control						
HSMC-EE606	Professional Ethics & Disaster Management		3	0	3	30	70	100
Total			18	2	20	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-	Power Systems Laboratory -I	2	1	45	30	75

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EE607						
PCC-EE608	Python Laboratory	2	1	45	30	75
PCC-EE609	Project Stage-I	4	2	60	40	100
PCC-EE610	Power System Protection Lab	2	1	45	30	75
GP-EE611	General Proficiency*	-	-	-	-	50
TOTAL		10	5	210	140	400
Total Semester Credits		25		Grand Total		1000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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Year: IV

Semester: VII

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-EE701	HVDC Transmission System		3	1	4	30	70	100
PCC-EE702	Power Systems - II		3	1	4	30	70	100
Professional Elective -IV			3	0	3	30	70	100
PEC-EE	703.1	Electric Drives						
	703.2	Computer Architecture						
Professional Elective -V			3	0	3	30	70	100
PEC-EE	704.1	Industrial Electrical Systems						
	704.2	Power Generation & Control						
Open Elective -III			3	0	3	30	70	100
OEC-EE	705.1	Wind and Solar Energy Systems						
	705.2	Electrical and Hybrid Vehicles						
Open Elective -IV			3	-	3	30	70	100
OEC-EE	706.1	Artificial Intelligence Techniques						
	706.2	Power Quality and FACTS						
	706.3	Big Data Analysis						
Total		18	2	20	180	420	600	


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Practical Papers

Course Code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EE707	Power System and High Voltage Lab	2	1	45	30	75
PCC-EE708	Power Systems Laboratory - II	2	1	45	30	75
PCC-EE709	Project Stage-II	4	2	60	40	100
PCC-EE710	Professional Practices-IV Lab	4	2	60	40	100
GP-EE711	General Proficiency*	-	-	-	-	50
	TOTAL	12	6	210	140	400
Total Semester Credits		26		Grand Total		1000

L:Lecturer,

T:Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year:IV

Semester:VIII

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-EE801	Internship/Entrepreneurship Project Work Presentation	16	8	420	280	700
PCC-EE802	Emergent Technology /Academics Based Seminar	4	2	150	100	250
GP-EE803	General Proficiency*	-	-	-	-	50
	TOTAL	20	10	570	380	1000
Total Semester Credits		10		Grand Total		1000

L:Lecturer,

T:Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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School of Engineering & Technology

Programme: B.Tech Mechanical Engineering

YEAR-I

SEMESTER-I

S.No	Course Code	Course Title	Contact Per Week			Evaluation Scheme			Credit
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC 101	Engineering Physics — 1	2	1	0	30	70	100	3
2.	BSC 102	Engineering Chemistry — I	2	1	0	30	70	100	3
3.	BSC 103 /BSC-BTFT103	Engineering Mathematics — I	3	1	0	30	70	100	4
4.	ESC 104	Fundamentals of Electrical, Science	2	1	0	30	70	100	3
5.	ESC 105	Introduction to IT and Computer Programming	3	0	0	30	70	100	3
6.	HSMC 106	English —1	2	0	0	15	35	50	2
7.	HSMC 107	Environmental Studies	2	0	0	30	70	100	0
PRACTICAL									
8.	BSC 108	Engineering Physics Lab —1	0	0	2	30	20	50	1
9.	BSC 109	Engineering Chemistry Lab —1	0	0	2	30	20	50	1
10.	ESC 110	Fundamentals of Electrical Science Lab	0	0	2	60	40	100	1
11.	ESC III	IT and Computer Programming Lab	0	0	2	45	30	75	1
12.	ESC 112	Engineering Graphics &	1	0	2	45	30	75	2


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		Design Lab							
13.	HSMC 113	Communication Skills Lab —1	0	0	2	30	20	50	1
14.	GP 114	General Proficiency	-	-	-	-	50	50	-
	Total							1000	25

BSC : Basic Science Course

ESC : Engineering Science Course

HSMC : Humanities and Social Sciences including

Management courses

YEAR-I

SEMESTER-II

S. N.	Course Code	Course Title	Contact- Per Week			Evaluation Scheme			Credi t
			L	T	P	Internal	External	Total	C
THEORY									
1.	BSC 201	Engineering Physics –II	2	1	0	30	70	100	3
2.	BSC 202	Engineering Chemistry – II	2	1	0	30	70	100	3
3.	BSC203/ BSC-BTFT 203	Engineering Mathematics –II	3	1	0	30	70	100	4
4.	ESC204	Engineering Mechanics	3	1	0	30	70	100	4
5.	ESC 205	Programming for Problem Solving	3	0	0	30	70	100	3
6.	HSMC206	English – II	2	0	0	15	35	50	2
13	BCSII206	Introduction to Information Security & Internet based Attacks	2	0	0	30	70	100	2


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PRACTICAL

7.	BSC207	EngineeringPhysics Lab – II	0	0	2	45	30	75	1
8.	BSC208	EngineeringChemistry Lab-II	0	0	2	45	30	75	1
9.	ESC209	Computer programming Lab	0	0	2	60	40	100	1
10.	ESC 210	Workshop Manufacturing PracticesLab	1	0	2	60	40	100	2
11.	HSMC211	Communication SkillsLab – II	0	0	2	30	20	50	1
12.	GP 212	General Proficiency	-	-	-	-	50	50	-
Total								1100	27

Year: II

Semester: III

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-ME301	Mech. of Solids	3	1	4	30	70	100
PCC-ME302	Material Science	3	-	3	30	70	100
PCC-ME303	Engg. Thermodynamics	3	1	4	30	70	100
PCC-ME304	Production Engineering -I	3	-	3	30	70	100
PCC-ME305	Automobile Engineering	3	-	3	30	70	100
BSC-ME306	Mathematics-III	2	-	2	30	70	100
Total		17	2	19	180	420	600


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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME307	Material Science & Material Testing Lab	2	1	45	30	75
PCC-ME308	Production Practice-I	2	1	45	30	75
PCC-ME309	Automobile Engineering Lab	2	1	45	30	75
ESC-ME310	Mechanical Engineering Drawing	2	1	30	20	50
MC-ME311	*Environmental Science	2	-	45	30	75
GP-ME312	*General Proficiency	-	-	-	-	50
	TOTAL	10	4	260	140	400
Total Semester Credits		23		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,

IA: Internal Assessment,

ETE:

*Compulsory but not counted towards credit hours


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Year: II

Semester: IV

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-ME401	Kinematics of Machines	3	1	4	30	70	100
PCC-ME402	Fluid Mechanics & Machines	3	1	4	30	70	100
PCC-ME403	Production Engineering-II	3	-	3	30	70	100
PCC-ME404	Design of M/c Elements - I	3	-	3	30	70	100
PEC-ME405	I.C. Engines	3	-	3	30	70	100
HSMC-ME406	Industrial Engineering & Management	3	-	3	30	70	100
	Total	18	2	20	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME407	Kinematics of Machines Lab	2	1	45	30	75
PCC-ME408	Fluid Mechanics lab.	2	1	45	30	75
PCC-ME409	Production Practice-II	3	1.5	45	30	75
PCC-ME410	M/c Design Sessional -I	3	1.5	30	20	50
PEC-ME411	I.C.Engine Lab	2	1	45	30	75
GP-ME412	*General Proficiency	-		50	-	50
	TOTAL	12	6	260	140	400
Total Semester Credits		26		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,
*Compulsory but not counted towards credit hours

IA: Internal Assessment,

ETE:


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Year: III
Theory Papers

Semester: V

Theory Papers			Hours Per Week		Credits	Evaluation Scheme		
Course code	Course Name		L	T		IA	ETE	Total
PCC-ME501	Dynamics of Machines		3	1	4	30	70	100
PCC-ME502	Design of M/c Elements - II		3	-	3	30	70	100
PCC-ME503	Measurement & Metrology		3	-	3	30	70	100
PCC-ME504	Turbomachines		3	-	3	30	70	100
Professional Elective-I (Any one of the following)								
PEC-ME	505.1	Computer Aided Machine Drawing	3	-	3	30	70	100
	505.2	Composite Materials Technology	3	-	3			
Open Elective-I (Any one of the following)								
OEC-ME	506.1	Entrepreneurship	3	-	3	30	70	100
	506.2	Professional Ethics & Disaster Management						
Total			18	1	19	180	420	600

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME507	Dynamics of Machine Lab	2	1	45	30	75
PCC-ME508	Machine Design Sessional-II	3	1.5	60	40	100
PCC-ME509	Measurement & Metrology Lab	2	1	45	30	75
PEC-ME510	Computer aided Machine drawing Lab	3	1.5	60	40	100
GP-ME511	*General Proficiency	-	-	-	-	50
TOTAL		10	5	260	140	400
Total Semester Credits		23		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,

IA: Internal Assessment,

ETE:


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*Compulsory but not counted towards credit hour

Year: III

Semester: VI

Theory Papers

Course code	Course Name		Hours Per Week		Credits	Evaluation Scheme		
			L	T		IA	ETE	Total
PCC-ME601	Heat Transfer		3	1	4	30	70	100
PCC-ME602	Newer Machining Methods		3	-	3	30	70	100
PCC-ME603	Vibration Engineering		3	-	3	30	70	100
Professional Elective-II (Any one of the following)								
PEC-ME	604.1	Power Plant Engineering						
	604.2	Operation Research	3	-	3	30	70	100
Professional Elective-III (Any one of the following)								
PEC-ME	605.1	Mechatronics	3	-	3	30	70	100
	605.2	Additive Manufacturing						
Open Elective-II (Any one of the following)								
OEC-ME	606.1	Energy & Environment	3	-	3	30	70	100
	606.2	Non-Destructive Testing and Evaluation						
		Total	18	1	19	180	420	600


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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME607	Heat Transfer Lab	3	1.5	60	40	100
PCC-ME608	Vibration Engineering Lab	2	1	45	30	75
PEC-ME609	Mechatronics Lab	2	1	45	30	75
PCC-ME10	Mini-project (Completed during the intervening vacations of V and VI semesters)	3	1.5	60	40	100
GP-ME611	*General Proficiency	-	-	50	-	50
	TOTAL	10	5	260	140	400
Total Semester Credits		24		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,

IA: Internal Assessment,

ETE:

*Compulsory but not counted towards credit hours

Year: IV

Semester: VII

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
PCC-ME701	Refrigeration & Air Conditioning	3	-	3	30	70	100
PCC-ME702	Computer Integrated Manufacturing	3	-	3	30	70	100
PCC-ME703	Operations Management	3	-	3	30	70	100
Professional Elective-IV (Any one of the following)							
PEC-ME	704.1 Finite Element Methods	3	-	3	30	70	100
	704.2 Manufacturing Automation						
Professional Elective-V (Any one of the following)		3	-	3	30	70	100


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PEC-ME	705.1	Product Development & Launching					
	705.2	Project Management					
Open Elective-III (Any one of the following)							
OEC-ME	706.1	Operations Technique	3	-	3	30	70
	706.2	Total Quality Management					
Total			18	0	18	180	420
						600	

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME707	Thermal Lab-II	3	1.5	30	20	50
PCC-ME708	CAM Lab	3	1.5	45	30	50
PEC-ME709	FEM Lab	2	1	45	30	50
PCC-ME710	Seminar	2	1	30	20	50
PCC-ME711	Major project Lab	6	3	90	60	150
GP-ME712	*General Proficiency	-	-	-	-	50
	TOTAL	12	8	260	140	400
Total Semester Credits		26		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,

IA: Internal Assessment,

ETE:

*Compulsory but not counted towards credit hours


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Year: IV

Semester: VIII

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
PCC-ME801	Internship/Entrepreneurship Project Work Presentation	-	8	420	280	700
PCC-ME802	Emergent Technology /Academics Based Seminar	-	2	150	100	250
GP-ME803	Discipline & Extra-Curricular Activities*	-	-	50	-	50
	TOTAL	0	10	620	380	1000
Total Semester Credits		10		Grand Total		1000

L: Lecturer,
End Term Exam

T: Tutorial,

IA: Internal Assessment,

ETE:


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School of Engineering & Technology

Programme: M.Tech (Infrastructure Engineering and Construction Management)

IST YEAR (I SEMESTER)

S.No.	Course No.	Course Title	Teaching Schedule			Marks			Credits	Duration of Exam
			L	P/D	Total	Class Work	Theory/ Practical	Total Marks		
1.	CE-541	Infrastructure Planning	3	0	3	20	80	100	4	3
2.	CE-542	Project Management & Infrastructure Construction	3	0	3	20	80	100	4	3
3.	CE-543	Infrastructure Projects – Construction Methods and Equipment Management	3	0	3	20	80	100	4	3
4.	CE-XXX	Elective – I	3	0	3	20	80	100	4	3
5.	CE - 604	Application of Engineering Hydrology in Infrastructure	3	0	3	20	80	100	4	3
		Total	15	0	15	100	400	500	20	15

Note: - The student has to select any one of the Electives from the list of Electives – I

The student has to score 40% marks in each theory paper in the final exam and 50% in-session marks.

LIST OF ELECTIVES: (Through Dissertation)

Electives – I

1. CE – 601 – Numerical Methods
2. CE – 602 – Optimization Methods
3. CE – 603 – Disaster Management


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IST YEAR (II SEMESTER)

S.No.	Course No.	Course Title	Teaching Schedule			Marks			Credits	Duration of Exam
			L	P/D	Total	Class Work	Theory/ Practical	Total Marks		
1.	CE-614	Financing Infrastructure Projects	3	0	3	20	80	100	4	3
2.	CE-612	Advanced concrete Technology	3	0	3	20	80	100	4	3
3.	CE-544	Projects Management Laboratory	3	0	3	20	80	100	4	3
4.	CE-6XX	Elective – II	3	0	3	20	80	100	4	3
5.	CE –581	Urban Transportation Systems Planning	3	0	3	20	80	100	4	3
		Total	15	0	15	100	400	500	20	15

Note: - The student has to select any one of the Electives from list of Electives – II

The student has to score 40% marks in each theory paper in the final exam and 50% in-session marks.

LIST OF ELECTIVES: (Through Dissertation)

Electives – II

1. CE – 509 – Project Procurement Systems
2. CE – 510 – Quality and Safety Management in Construction
3. CE – 561 – Spatial data collection and Analysis
4. CE – xxx – Environmental Impact Assessment
5. CE – 665 – Water Distribution and Wastewater collection system design
6. CE – 525 – Solid and Hazardous Waste Management
7. CE – 568 – Environmental Management
8. CE – 625 – Transportation System management
9. CE – 629 – Public Transportation Systems Planning
10. CE – 552 – Water Resources Systems Analysis, Planning and Management


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2nd YEAR (III SEMESTER)

S.No.	Course No.	Course Title	Teaching Schedule			Marks			Credits	Duration of Exam
			L	P/D	Total	Class Work	Theory/ Practical	Total Marks		
1.	CE-694	M.Tech. Project - I	0	18	18	600	0	600	18	-
2.	CE-SMR	Seminar - I	0	6	6	100	0	100	6	3
3.	CE-504	Advanced Structural Design	3	0	3	20	80	100	4	3
		Total	3	24	27	720	80	800	28	6

The student has to score 40% marks in each theory paper in the final exam and 50% in-session marks

2nd YEAR (IV SEMESTER)

S.No.	Course No.	Course Title	Teaching Schedule			Marks			Credits	Duration of Exam
			L	P/D	Total	Class Work	Theory/ Practical	Total Marks		
1.	CE-694	M.Tech. Project - II	0	18	18	600	0	600	18	-
2.	CE-S	Seminar - II	0	6	6	100	0	100	6	3
		Total	0	24	24	700	0	700	24	3

The student has to score 40% marks in each theory paper in the final exam and 50% in-session marks

NOTE:-

1. For passing in every subject students have to score at least 40% marks in theory and 50% marks in practical.
2. The student has to attend 75% of the theory and practical class to appear for the Mid-Term and final semester examinations.
3. The student has to select one of the elective subjects from the list of Elective-I and Elective-II.


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School of Engineering & Technology

Programme: M.Tech Communication & Signal Processing

First Year

Course Code	Course Title	Contact Hours per week			Credit Hours	Internal Examination	External Examination /Viva-voce	Total Marks
		L	T	P				
FIRST SEMESTER								
MTCSP 1.1	Introduction to Embedded Systems	3	1	-	4.0	20	80	100
MTCSP 1.2	Antenna Theory	3	1	-	4.0	20	80	100
MTCSP 1.3	Signal Theory	3	1	-	4.0	20	80	100
MTCSP 1.4	Digital Signal Processor and Architecture	3	1	-	4.0	20	80	100
MTCSP 1.5	Advance DSP Lab	-	-	2	1.0	30	20	50
MTCSP 1.6	Wireless Communication Lab	-	-	2	1.0	30	20	50
	Total	12	4	4				500
Total Semester Credits = 18								
SECOND SEMESTER								
MTCSP 2.1	Satellite Communication and Phase array	3	1	0	4.0	20	80	100
MTCSP 2.2	Digital Communication System	3	1	0	4.0	20	80	100
MTCSP 2.3	Embedded system for Wireless and Mobile Communication	3	1	0	4.0	20	80	100
MTCSP 2.4	Information Theory And Coding	3	1	0	4.0	20	80	100
MTCSP 2.5	Advanced Communication Lab	-	-	2	1.0	30	20	50
MTCSP 2.6	Technical report writing & communication skills-I	-	-	2	1.0	30	20	50
	Total	12	4	4				500
Total Semester Credits = 18								


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Second Year

Course Code	Course Title	Contact Hours per week			Credit Hours	Internal Examination	External Examination /Viva-voce	Total Marks
		L	T	P				
THIRD SEMESTER								
	Elective-I	3	1	-	4.0	20	80	100
MTCSP 3.1.1	Solid State Microwave Devices							
MTCSP 3.1.2	Advanced signal processing							
MTCSP 3.1.3	Advanced optical communication							
	Elective-II	3	1	-	4.0	20	80	100
MTCSP 3.2.1	Telecommunication Switching and networks							
MTCSP 3.2.2	Advanced mobile communication							
MTCSP 3.2.3	Advanced embedded system							
MTCSP 3.3	Pre Dissertation Seminar	-	-	2	1.0	120	80	200
	Total	06	02	04				400
Total Semester Credits = 09								
FOURTH SEMESTER								
MTCSP 4	1. Dissertation 2. Report 3. Work 4. Dissertation seminar 5. Dissertation viva	-	-	18	09	450	150	600
	Total	-	-	-				600
Total Semester Credits = 09								


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School of Engineering & Technology

Programme: M.Tech Embedded System

First Year

Course Code	Course Title	Contact Hours per week			Credit Hours	Internal Examination	External Examination /Viva-voce	Total Marks
		L	T	P				
FIRST SEMESTER								
MTES 1.1	Introduction to Embedded Systems Design	3	1	-	4.0	20	80	100
MTES 1.2	Microcontroller for Embedded System Design	3	1	-	4.0	20	80	100
MTES 1.3	Digital System Design	3	1	-	4.0	20	80	100
MTES 1.4	Digital Signal Processor and Architecture	3	1	-	4.0	20	80	100
MTES 1.5	Advance DSP Lab	-	-	2	1.0	30	20	50
MTES 1.6	Embedded Microcontrollers Lab	-	-	2	1.0	30	20	50
	Total	12	4	4				500
Total Semester Credits = 18								
SECOND SEMESTER								
MTES 2.1	CPLDs, FPGA Architecture and Application	3	1	0	4.0	20	80	100
MTES 2.2	Embedded Real Time Operating System	3	1	0	4.0	20	80	100
MTES 2.3	Embedded System for Wireless and Mobile Communication	3	1	0	4.0	20	80	100
MTES 2.4	HDLs for Embedded Systems	3	1	0	4.0	20	80	100
MTES 2.5	Modeling and Simulation Lab	-	-	2	1.0	30	20	50
MTES 2.6	Technical Report Writing & Communication Skills	-	-	2	1.0	30	20	50
	Total	12	4	4				500
Total Semester Credits = 18								


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Second Year

Course Code	Course Title	Contact Hours per week			Credit Hours	Internal Examination	External Examination /Viva-voce	Total Marks
		L	T	P				
THIRD SEMESTER								
	Elective-I	3	1	-	4.0	20	80	100
MTES 3.1.1	Embedded C							
MTES 3.1.2	Embedded Computing System Design							
MTES 3.1.3	Advanced Computer Architectures							
	Elective-II	3	1	-	4.0	20	80	100
MTES 3.2.1	Design of CAD Tools for Embedded System Design							
MTES 3.2.2	Embedded Networking							
MTES 3.2.3	Memory Design and Testing							
MTES 3.3	Pre Dissertation Seminar	-	-	2	1.0	120	80	200
	Total	06	02	04				400
Total Semester Credits = 09								
FOURTH SEMESTER								
MTES 4	1. Dissertation 2. Report 3. Work 4. Dissertation seminar 5. Dissertation viva	-	-	18	09	450	150	600
	Total	-	-	-				600
Total Semester Credits = 09								


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School of Engineering & Technology
Programme: M.TECH. (POWER SYSTEM ENGINEERING)

YEAR: I

SEMESTER: I

S. No.	Course Code	Course Title	Hrs./Week			Maximum Marks		
			L	T	P	IA	Exam	Total
			-	-	-	-	-	-
1.	MTPS 1.1	Advance Power System Analysis	4	0	0	2 0	8 0	100
2.	MTPS 1.2	Power System Stability	4	0	0	2 0	8 0	100
3.	MTPS 1.3	Elective I Electrical Distribution System Advanced Power Electronics	4	0	0	2 0	8 0	100
4.	MTPS 1.4	Elective II Renewable Power Generation Sources Industrial Control Electronics	4	0	0	2 0	8 0	100
5.	MTPS 1.5	Writing Skills And Presentation-I	4	0	0	2 0	8 0	100
6.	MTPS 1.6	Power Electronics Simulation Lab	0	0	6	6 0	4 0	100
GRAND TOTAL			20	0	6	160	440	600

Total Hours=20+6=26


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YEAR: I

SEMESTER: II

S. No.	Course Code	Course Title	Hrs./Week			Maximum Marks		
			L	T	P	IA	Exam	Total
			-	-	-	-	-	-
1.	MTPS 2.1	Power System Optimization & Control	4	0	0	2 0	8 0	100
2.	MTPS 2.2	Advanced Power System Protection	4	0	0	2 0	8 0	100
3.	MTPS 2.3	Transient Over Voltages in Power System	4	0	0	2 0	8 0	100
4.	MTPS 2.4	Elective I Advanced Distribution Systems Power Quality System Theory	4	0	0	2 0	8 0	100
5.	MTPS 2.5	Elective II Restructured Power System Power Electronic Drives	4	0	0	2 0	8 0	100
6.	MTPS 2.6	Writing Skills & Presentation-II	4	0	0	2 0	8 0	100
7	MTPS 2.7	Control System Simulation Lab	0	0	6	6 0	4 0	100
		GRAND TOTAL	24	0	6	180	520	700

Total Hours=24+6=30


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YEAR: II

SEMESTER: III

S. No.	Course Code	Course Title	Hrs./Week			Maximum Marks		
			L	T	P	IA	Exam	Total
			-	-	-	-	-	-
1.	MTPS 3.1	EHV Ac/Dc Transmission & Facts	4	0	0	20	80	100
2.	MTPS 3.2	Smart Grid Technologies & Applications	4	0	0	20	80	100
3.	MTPS 3.3	Power System Simulation Lab	0	0	6	60	40	100
4.	MTPS 3.4	Dissertation Part- I	0	0	12	180	120	300
		GRAND TOTAL	8	0	18	280	320	600

Total Hours=8+18=26

YEAR: II

SEMESTER: IV

S. No.	Code No.	Subject/Lab	Hrs./Week			Maximum Marks		
			L	T	P	IA	Exam	Total
			-	-	-	-	-	-
1.	MTPS 4.1	Dissertation Part II	0	0	18	360	240	600
		GRAND TOTAL	0	0	18	360	240	600

Total Hours=18


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School of Engineering & Technology
Programme: M.TECH. (CONTROL SYSTEM ENGINEERING)

Year I

Semester : I

Course Code	Course Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
1MTCSE1	Basic Control System	3	1	3	20	80	100
1MTCSE2	Systems Engineering	3	1	3	20	80	100
1MTCSE3	Digital Control Systems	3	1	3	20	80	100
1MTCSE4	Elective-I						
	Real Time Instrumentation Techniques						
	Advance Power Electronics	3	1	3	20	80	100
	Linear System Theory						
	Robot Dynamics & Control						
1MTCSE5	Writing Skills & Presentation-I	4	-	3	20	80	100
	Total	16	4	-	100	400	500

Course Code	Course Name	Teaching Hours Per Week	Duration Of ESE	Evaluation Scheme		
				Sessional	Practical	Total
1MTCSE6	Simulation Lab	6	3	60	40	100
	TOTAL	6	-	60	40	100
Total Semester Credit		23		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination


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Year I

Semester : II

Course Code	Course Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
2MTCSE1	Control Devices	4	-	3	20	80	100
2MTCSE2	Modern Control System	3	1	3	20	80	100
2MTCSE3	Non-Linear And Adaptive Control	3	1	3	20	80	100
2MTCSE4	Elective-II						
	Optimal And Robust Control						
	Multi-Variable Control System	3	1	3	20	80	100
	Measurement System & Error Analysis						
	Power System Dynamics & Control						
2MTCSE5	Writing Skills & Presentation-II	4	0	3	20	80	100
	TOTAL	17	3	-	100	400	500

Course Code	Course Name	Teaching Hours Per Week	Duration Of ESE	Evaluation Scheme		
				Sessional	Practical	Total
2MTCS E6	Control System Lab	6	3	60	40	100
	TOTAL	6	-	60	40	100
Total Semester Credits		23		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination


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Course Code	Course Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
3MTCSE1	Control Systems Design	4	-	3	20	80	100
3MTCSE2	Elective-II Drives and control Intelligent Control Digital Signal Processing Microprocessor Based Control System	3	1	3	20	80	100
	TOTAL	7	1	-	40	160	200

Course Code	Course Name	Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
3MTCSE3	Advance Control System Lab	6	3	60	40	100
3MTCSE4	Dissertation Part -I	12	3	180	120	300
	TOTAL	18	-	240	160	400
Total Semester Credits		17		Grand Total		600


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Course Code	Course Name	Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
4MTCSE1	Dissertation Part-II	18	3	360	240	600
	TOTAL	18	-	360	240	600
Total Semester Credits		15		Grand Total		600


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School of Computer & System Sciences
Programme: M.Tech (CS)

Semester – I										
S.No.	Course Code	Course Name	Periods			Evaluation Scheme				
			L	T	P	Sessional Exams			ES E	Subject Total
						C T	T A	Total		
1.	1MT1	Cryptography & Network Security	3	1		20	10	30	70	100
2.	1MT2	AI and Fuzzy Logic	3	1		20	10	30	70	100
3.	1MT3	Advanced Operating Systems	3	1		20	10	30	70	100
4.	1MT4	Advanced DBMS	3	1		20	10	30	70	100
5.	1MT5-7	Elective -1	3	1		20	10	30	70	100
PRACTICALS										
1.	1M8	Cryptography Lab.			4	20	10	30	70	100
2.	1M9	ADBMS Lab.			4	20	10	30	70	100

Semester – II										
S.No.	Course Code	Course Name	Periods			Evaluation Scheme				
			L	T	P	Sessional Exams			ES E	Subject Total
						C T	T A	Total		
1.	2MT1	Advanced Data Structures & Algorithms	3	1		20	10	30	70	100
2.	2MT2	Advanced Computer Architecture	3	1		20	10	30	70	100
3.	2MT3	Real Time and Embedded Systems	3	1		20	10	30	70	100
4.	2MT4	Data Mining and Bio Informatics	3	1		20	10	30	70	100
5.	2MT5-7	Elective -2	3	1		20	10	30	70	100
PRACTICALS										
1.	2M8	Algorithm Analysis Lab.			4	20	10	30	70	100
2.	2M9	Wireless & Mobile Com Lab.			4	20	10	30	70	100


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Semester – III

S.No.	Course Code	Course Name	Periods			Evaluation Scheme				
			L	T	P	Sessional Exams			ESE	Subject Total
						C T	T A	Total		
1.	3MT1	Digital Signal Processing	3	1		20	10	30	70	100
2.	3MT2	Research Methodology	3	1		20	10	30	70	100
3.	3MT3	Parallel & Distributed Computing	3	1		20	10	30	70	100
4.	3MT4	Advanced Compiler Design	3	1		20	10	30	70	100
4.	3MT5-6	Elective-3	3	1		20	10	30	70	100
PRACTICALS										
1.	3MT7	Digital Signal Processing Lab			4	20	10	30	70	100
2.	3MT8	Seminar			7	30	20	50	50	100

Semester- IV

S.No.	Course Code	Subject	Periods			Evaluation Scheme				
			L	T	P	Sessional Exams			ESE	Subject Total
						C T	T A	Total		
1.	4MT1	Big Data Analytics	3	1		20	10	30	70	100
2.	4MT2	Machine Learning	3	1		20	10	30	70	100

S.No.	Course Code	Title	Contact Hrs/Sem	Self Study Hrs/Sem	Internal	External	Total
1.	4MT3	Dissertation	8				300


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Electives:

1MT5	Object Oriented Design & Construction
1MT6	Modern Compiler Design
1MT7	Advance Data Communication & Network
2MT5	Soft Computing
2MT6	Wireless and Mobile Communication
2MT7	Simulation and Modelling
3MT5	Data Mining & Knowledge Management
3MT6	Animation and Advanced Computer Graphics


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School of Computer & System Sciences

Programme: BCA Cyber Security

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCACP101	Introduction to Problem Solving using 'C	DSC	3	3	0	0	1	-----
2.	BCAPC102	Fundamentals of Computers and PC Tools	DSC	3	3	0	0	1	-----
3.	BCAEM103	Elementary Mathematics	DSC	4	3	1	0	1	-----
4.	BCADE104	Digital Electronics	DSE	3	3	0	0	1	-----
5.	BCACP106P	C Programming Lab	DSC	2	0	0	4	-----	2
6.	BCAOA107P	Office Automation Tool Lab	DSC	2	0	0	4	-----	2
7.	BCADE108P	Digital Electronics Lab	DSE	2	0	0	4	-----	2
8.	BCAEN105	English-I	AEC	2	2	0	0	1	
9.	BCAIC109	Introduction to Cyber Security	DSC	3	2	0	2	1	
Total				24	30			-----	


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Semester - II

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCADB201	Database Management System	DSC	3	3	0	0	1	-----
2.	BCADM202	Discrete Mathematics	DSC	4	3	1	0	1	-----
3.	BCADS203	Analysis of Algorithms and Data Structures	DSC	4	3	1	0	1	-----
4.	BCAES204	Environment Science	AECC	2	2	0	0	1	-----
5	BCAHP204	HTML Programming	SEC	3	3	0	0	1	2
6	BCAHP206	Human Values and Professional Ethics	AECC	2	2	0	0	1	----
7	BCADB207P	Database Management System Lab	DSC	2	0	0	4	-----	2
8.	BCADS208P	Data Structures Using 'C' Lab	DSE	2	0	0	4	-----	2
9.	BCAHP209P	HTML Programming Lab with projects	SEC	2	0	0	2+2	-----	2
10	BCAIS211	Introduction to Information Security & Internet based Attacks	SEC	3	2	0	2	1	1
Total				27	34			-----	


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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCAOS301	Operating System	DSC	3	3	0	0	1	-----
2.	BCAOS302	OOPS Using C++	DSC	3	3	0	0	1	-----
3.	BCASE303	Software Engineering	DSC	3	3	0	0	1	-----
4.	BCACN304	Computer Networks	DSE	4	3	1	0	1	-----
5	BCAPL305	MySQL (SQL/PL-SQL)	SEC	3	3	0	0	1	-----
6.	BCAOS306P	Operating Systems Lab	DSC	2	0	0	4	0	2
7.	BCAOS307P	OOPs Using C++ Lab	DSC	2	0	0	4	0	2
8.	BCASE308P	Software Engineering Lab	DSC	1	0	0	2	0	2
9	BCAPL309P	MySQL (SQL/PL-SQL) Lab with Projects	SEC	1	0	0	2	0	2
10	BCANS310	Network Security	SEC	3	2	0	2	1	
Total				25	32				


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Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCACA401	Computer Architecture	DSC	4	3	1	0	1	-----
2.	BCAPJ402	Programming in Java	DSC	3	3	0	0	1	-----
3.	BCAIW403	Internet and Web Design	DSE	3	3	0	0	1	-----
4.	BCAEC404	E-Commerce Technologies	DSE	4	3	1	0	1	-----
5	BCASA405	System Administration and Network Maintenance	SEC	3	3	0	0	1	2
6.	BCAJP407P	Java Programming Lab	DSC	2	0	0	4	0	2
7.	BCAIW408P	Internet and Web Design	DSC	2	0	0	2	0	2
8.	BCAEN406	English-II	AEC	2	2	0	0	1	
9	BCASA409P	System Administration and Maintenance Lab	SEC	1	0	0	2	-----	2
10	BCAMH410	Mobile Hacking and Malwares	SEC	3	2	0	2	1	-----
Total				27	31				


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Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCAPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCAMO503	Management Process & Organization Behavior	SEC	2	2	0	0	1	---
4.	BCAMO504	Mobile Applications	DSE	4	3	1	0	1	-----
5	BCAAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCAAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCAIT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCADM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCAMA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCAPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9	BCAAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
10	BCASR510	Software Reverse Engineering and Cyber Forensics	SEC	3	2	0	2	1	1
Total				30	31			-----	


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAPH601	PHP Programming	DSC	3	3	0	0	1	-----
3.	BCACC602	Cloud Computing	DSE	3	3	0	0	1	-----
4.	BCAST603	Software Testing Concepts	DSE	4	3	1	0	1	-----
4.	BCARP604	'R' Programming and Python Programming	SEC	3	3	0	0	1	2
5.	BCAPH605P	PHP Lab	DSC	2	0	0	4	0	2
6.	BCACC606P	Cloud Computing Lab	DSC	2	0	0	4	0	2
7.	BCAST607P	'R' Programming and Python Programming	SEC	2	0	0	4	0	2
8.	BCAAP608P	Project	DSC	4	0	0	4	1	-----
9	BCAIM609	Information Security Management System (ISMS)	SEC	3	3	1	0	1	
Total				26	33			-----	


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School of Computer & System Sciences

Programme: BCA AIML

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCACP101	Introduction to Problem Solving using 'C	DSC	4	3	1	0	1	-----
2.	BCAPC102	Fundamentals of Computers and PC Tools	DSC	4	3	1	0	1	-----
3.	BCAEM103	Elementary Mathematics	DSC	4	3	1	0	1	-----
4.	BCADE104	Digital Electronics	DSE	4	3	1	0	1	-----
5.	BCACP106P	C Programming Lab	DSC	2	0	0	4	-----	2
6.	BCAOA107P	Office Automation Tool Lab	DSC	2	0	0	4	-----	2
7.	BCADE108P	Digital Electronics Lab	DSE	2	0	0	4	-----	2
8.	BCAEN105	English-I	AEC	2	2	0	0	1	
9	BCAFA110	Overview of Artificial Intelligence, Ethics and Foundation of Data Analysis	SEC	3	3	0	0	1	-----
Total				27	33			-----	


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Semester - II

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCADB201	Database Management System	DSC	4	3	1	0	1	-----
2.	BCADM202	Discrete Mathematics	DSC	4	3	1	0	1	-----
3.	BCADS203	Analysis of Algorithms and Data Structures	DSC	4	3	1	0	1	-----
4.	BCAHP204	HTML Programming	SEC	4	3	1	0	1	2
5.	BCAES205	Environment Science	AECC	2	2	0	0	1	-----
6.	BCADB206P	Database Management System Lab	DSC	2	0	0	4	-----	2
7.	BCADS207P	Data Structures Using 'C' Lab	DSE	2	0	0	4	-----	2
8.	BCAHP208P	HTML Programming Lab with projects	SEC	1	0	0	2	-----	2
9.	BCAHV209	Human Values and Professional Ethics	AECC	2	2	0	0	1	----
10.	BCADD211	Data Analysis and Data Visualization using Python	SEC	3	3	0	0	1	-----
Total				28	33			-----	


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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCAOS301	Operating System	DSC	4	3	1	0	1	-----
2.	BCAOS302	OOPS Using C++	DSC	4	3	1	0	1	-----
3.	BCASE303	Software Engineering	DSC	4	3	1	0	1	-----
4.	BCACN304	Computer Networks	DSE	4	3	1	0	1	-----
5	BCAPL305	MySQL (SQL/PL-SQL)	SEC	4	3	1	0	1	-----
6.	BCAOS306P	Operating Systems Lab	DSC	2	0	0	4	0	2
7.	BCAOS307P	OOPs Using C++ Lab	DSC	2	0	0	4	0	2
8.	BCASE308P	Software Engineering Lab	DSC	1	0	0	2	0	2
9	BCAPL309P	MySQL (SQL/PL-SQL) Lab with Projects	SEC	1	0	0	2	0	2
10	BCADA311	R Programming for Data Analytics	SEC	3	3	0	0	1	-----
Total				29	36				


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Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCACA401	Computer Architecture	DSC	4	3	1	0	1	-----
2.	BCAPJ402	Programming in Java	DSC	4	3	1	0	1	-----
3.	BCAIW403	Internet and Web Design	DSE	4	3	1	0	1	-----
4.	BCAEC404	E-Commerce Technologies	DSE	4	3	1	0	1	-----
5	BCASA405	System Administration and Network Maintenance	SEC	4	3	0	0	1	2
6.	BCAJP407P	Java Programming Lab	DSC	2	0	0	4	0	2
7.	BCAIW408P	Internet and Web Design	DSC	2	0	0	4	0	2
8.	BCAEN406	English-II	AEC	2	2	0	0	1	
9	BCASA409P	System Administration and Maintenance Lab	SEC	1	0	0	2	-----	2
10	BCAML411	Foundation of Machine Learning	SEC	2	3	0	0	1	-----
11	BCAML412P	Machine Learning Lab Using Python	SEC	3	0	0	2	-----	2
Total				31	36				


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Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCAPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCAMO503	Management Process & Organization Behavior	SEC	2	2	0	0	1	---
4,	BCAMO504	Mobile Applications	DSE	4	3	1	0	1	-----
5	BCAAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCAAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCAIT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCADM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCAMA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCAPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9	BCAAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
10	BCANN511	Foundation of Neural Network and Deep Learning	SEC	3	3	0	0	1	---
11	BCADV512	Data Visualization	SEC	3	3	0	0	1	---
Total				33	36			-----	


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAPH601	PHP Programming	DSC	4	3	1	0	1	-----
3.	BCACC602	Cloud Computing	DSE	4	3	1	0	1	-----
4.	BCAST603	Software Testing Concepts	DSE	4	3	1	0	1	-----
4.	BCARP604	'R' Programming and Python Programming	SEC	4	3	1	0	1	2
5.	BCAPH605P	PHP Lab	DSC	2	0	0	4	0	2
6.	BCACC606P	Cloud Computing Lab	DSC	2	0	0	4	0	2
7.	BCARP607P	'R' Programming and Python Programming Lab	SEC	2	0	0	4	0	2
8.	BCAAP608P	Project	DSC	4	0	0	4	1	-----
Total				26	32			-----	


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School of Computer & System Sciences

programme: BCA

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCACP101	Introduction to Problem Solving using 'C	DSC	4	3	1	0	1	-----
2.	BCAPC102	Fundamentals of Computers and PC Tools	DSC	4	3	1	0	1	-----
3.	BCAEM103	Elementary Mathematics	DSC	4	3	1	0	1	-----
4.	BCADE104	Digital Electronics	DSE	4	3	1	0	1	-----
5.	BCACP106P	C Programming Lab	DSC	2	0	0	4	-----	2
6.	BCAOA107P	Office Automation Tool Lab	DSC	2	0	0	4	-----	2
7.	BCADE108P	Digital Electronics Lab	DSE	2	0	0	4	-----	2
8.	BCAEN105	English-I	AEC	2	2	0	0	1	
Total				24	30			-----	


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S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCADB201	Database Management System	DSC	4	3	1	0	1	----
2.	BCADM202	Discrete Mathematics	DSC	4	3	1	0	1	----
3.	BCADS203	Analysis of Algorithms and Data Structures	DSC	4	3	1	0	1	----
4	BCAHP204	HTML Programming	SEC	4	3	1	0	1	2
5.	BCAES205	Environment Science	AECC	2	2	0	0	1	----
6.	BCADB206P	Database Management System Lab	DSC	2	0	0	4	----	2
7.	BCADS207P	Data Structures Using 'C' Lab	DSE	2	0	0	4	----	2
8.	BCAHP208P	HTML Programming Lab with projects	SEC	1	0	0	2	----	2
9	BCAHV209	Human Values and Professional Ethics	AECC	2	2	0	0	1	----
		Total		25	30			----	


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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCAOS301	Operating System	DSC	4	3	1	0	1	-----
2.	BCAOS302	OOPS Using C++	DSC	4	3	1	0	1	-----
3.	BCASE303	Software Engineering	DSC	4	3	1	0	1	-----
4.	BCACN304	Computer Networks	DSE	4	3	1	0	1	-----
5	BCAPL305	MySQL (SQL/PL-SQL)	SEC	4	3	1	0	1	2
6.	BCAOS306P	Operating Systems Lab	DSC	2	0	0	4	0	2
7.	BCAOS307P	OOPs Using C++ Lab	DSC	2	0	0	4	0	2
8.	BCASE308P	Software Engineering Lab	DSC	2	0	0	4	0	2
9	BCAPL309P	MySQL (SQL/PL-SQL) Lab with Project	SEC	1	0	0	2	0	2
Total				27	34				

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category	Credit	Contact-Per Week			Class Duration	
			(Core/Elective)		L	T	P	Theory	Practical
1.	BCACA401	Computer Architecture	DSC	4	3	1	0	1	-----
2.	BCAPJ402	Programming in Java	DSC	4	3	1	0	1	-----
3.	BCAIW403	Internet and Web Design	DSE	4	3	1	0	1	-----
4.	BCAEC404	E-Commerce Technologies	DSE	4	3	1	0	1	-----
5	BCASA405	System Administration and Network Maintenance	SEC	4	3	1	0	1	2
6.	BCAJP407P	Java Programming Lab	DSC	2	0	0	4	0	2
7.	BCAIW408P	Internet and Web Design Lab	DSC	2	0	0	4	0	2
8.	BCAEN406	English-II	AEC	2	2	0	0	1	
9	BCASA409P	System Administration and Maintenance Lab	SEC	1	0	0	2		2
Total				27	32				

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Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact- Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCAPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCAMO503	Management Process & Organization Behavior	SEC	2	2	0	0	1	---
4.	BCAMO504	Mobile Applications	DSC	4	3	1	0	1	-----
5	BCAAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCAAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCAIT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCADM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCAMA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCAPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9	BCAAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
Total				27	32			-----	


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practic
1.	BCAPH601	PHP Programming	DSC	4	3	1	0	1	----
3.	BCACC602	Cloud Computing	DSE	4	3	1	0	1	----
4.	BCAST603	Software Testing Concepts	DSE	4	3	1	0	1	----
4.	BCARP604	'R' Programming and Python Programming	SEC	4	3	1	0	1	2
5.	BCAPH605P	PHP Lab	DSC	2	0	0	4	0	2
6.	BCACC606P	Cloud Computing Lab	DSC	2	0	0	4	0	2
7.	BCAST607P	'R' Programming and Python Programming	SEC	2	0	0	4	0	2
8.	BCAPD608P	Project	DSC	4	0	0	4	1	----
Total				26	32			----	



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School of Computer & System Sciences

Programme: MCA Cyber Security

I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCAOJ101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	MCADB102	Database Management System	3	1	0	20	10	70	100
3	MCACG103	Computer Graphics	3	1	0	20	10	70	100
4	MCAMO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
5	MCADS106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100

PRACTICALS

6	MCAOJ107P	Object Oriented Programming with C++ and Java Lab	0	0	3	20	10	70	100
7	MCADB108P	Database Management System	0	0	2	20	10	70	100
8	MCACG109P	Computer Graphics Lab	0	0	2	20	10	70	100
9	MCADS110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
10	MCACS112	Introduction to Cyber Security	2	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			17	3	12	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCATC201	Theory of Computation	3	1	0	20	10	70	100
2	MCASE202	Software Engineering	3	0	0	20	10	70	100
3	MCAWT203	Web Technology	3	0	0	20	10	70	100
4	MCACB204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	MCAMP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
6	MCAEC206	E-Commerce and Digital Marketing	3	1	0	20	10	70	100

PRACTICALS

7	MCASE207P	Software Engineering Lab	0	0	3	20	10	70	100
8	MCAWT208P	Web Technology Lab	0	0	3	20	10	70	100
9	MCAMP209P	Microprocessor Lab	0	0	2	20	10	70	100
10	MCANV212	Network Security Design & Implementation	2	0	2	20	10	70	100

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	Total Contact Hrs./ Total Marks	20	4	10	200	100	700	1000



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After completion of Semester – II, students are required to undergo Summer Training.

III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
						Sessional Exams		ESE	Subject Total
			L	T	P	CT	TA		
1	MCACD301	Compiler Design	3	1	0	20	10	70	100
2	MCAAD302.1	Advanced Database Concepts	3	0	0	20	10	70	100
	MCAIT302.2	Internet of Things							
	MCAAP302.3	Android Programming							
3	MCANF303	.NET Framework and ASP.NET	3	0	0	20	10	70	100
4	MCAAI304	Introduction to Artificial Intelligence and Machine Learning	3	1	0	20	10	70	100
5	MCABD305.1	Big Data Analytics	3	1	0	20	10	70	100
	MCAMC305.2	Mobile Computing							
	MCACC305.3	Cloud Computing							
	MCAHC305.4	Human Computer Interaction							
6	MCAHV306	Human Values & Professional Ethics	3	1	0	20	10	70	100

PRACTICALS

7	MCADB307.1P	Advanced Database Concepts Lab	0	0	3	20	10	70	100
	MCAIT307.2P	Internet of Things Lab							
	MCAAP307.3P	Android Programming Lab							
8	MCANF308P	.NET Lab	0	0	3	20	10	70	100
9	MCACS310P	Communication & Soft Skills	0	0	2	20	10	70	100
10	MCAST311S	Summer Training	0	0	0	80		120	200
11	MCATA314	Application Security Testing and Audit	2	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			20	4	10	280	100	820	1200

IV SEMESTER

S.No.	Course Code	Subject				Evaluation Scheme		
						Sessional Exams	ESE	Subject Total
1	MCAIT401D	Industrial Training				200	300	500
2	MCARP402P	Research Paper Publication				40	60	100
Total Contact Hrs./ Total Marks						240	360	600


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School of Computer & System Sciences

Programme: MCA AIML

I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCAOJ101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	MCADB102	Database Management System	3	1	0	20	10	70	100
3	MCACG103	Computer Graphics	3	1	0	20	10	70	100
4	MCAMO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
5	MCADS106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100
PRACTICALS									
6	MCAOJ107P	Object Oriented Programming with Java Lab	0	0	3	20	10	70	100
7	MCADB108P	Database Management System	0	0	2	20	10	70	100
8	MCACG109P	Computer Graphics Lab	0	0	2	20	10	70	100
9	MCADS110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
10	MCADA111	Overview of Data Science, AI, Ethics and Foundation of Data Analysis	3	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			18	3	12	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCATC201	Theory of Computation	3	1	0	20	10	70	100
2	MCASE202	Software Engineering	3	0	0	20	10	70	100
3	MCAWT203	Web Technology	3	0	0	20	10	70	100
4	MCACB204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	MCAMP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
PRACTICALS									
6	MCASE207P	Software Engineering Lab	0	0	3	20	10	70	100
7	MCAWT208P	Web Technology Lab	0	0	3	20	10	70	100
8	MCAMP209P	Microprocessor Lab	0	0	2	20	10	70	100
9	MCADP210	Data Analysis using Python	2	0	2	20	10	70	100
10	MCAPM211	Probabilistic Modelling and Reasoning with Python	2	0	2	20	10	70	100

After completion of Semester – II, students are required to undergo Summer Training.

III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCACD301	Compiler Design	3	1	0	20	10	70	100
2	MCAAD302.1	Advanced Database Concepts	3	0	0	20	10	70	100
	MCAIT302.2	Internet of Things							
	MCAAP302.3	Android Programming							
3	MCANF303	.NET Framework and ASP.NET	3	0	0	20	10	70	100
4	MCABD305.1	Big Data Analytics	3	1	0	20	10	70	100
	MCAMC305.2	Mobile Computing							
	MCACC305.3	Cloud Computing							
	MCAHC305.4	Human Computer Interaction							
5	MCAHV306	Human Values & Professional Ethics	3	1	0	20	10	70	100
PRACTICALS									
6	MCADB307.1P	Advanced Database Concepts Lab	0	0	3	20	10	70	100
	MCAIT307.2P	Internet of Things Lab							
	MCAAP307.3P	Android Programming Lab							
7	MCANF308P	.NET Lab	0	0	3	20	10	70	100
8	MCACS310P	Communication & Soft Skills	0	0	2	20	10	70	100
9	MAST311S	Summer Training	0	0	0	80		120	200
10	MCAMP312	Machine Learning and Pattern Recognition	2	0	2	20	10	70	100
11	MCARP313	R Programming for Data Science and Analysis	2	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			19	3	12	280	100	820	1200

IV SEMESTER

S.No.	Course Code	Subject	Evaluation Scheme			
					Sessional Exams	ESE Subject Total
1	MCAIT401D	Industrial Training			200	300 500
2	MCAAP402P	Research Paper Publication			40	60 100
Total Contact Hrs./ Total Marks					240	360 600


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School of Computer & System Sciences

Programme: MCA

I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCAOJ101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	MCADB102	Database Management System	3	1	0	20	10	70	100
3	MCACG103	Computer Graphics	3	1	0	20	10	70	100
4	MCANS104	Information and Network Security	3	1	0	20	10	70	100
5	MCAMO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
6	MCADS106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100
PRACTICALS									
7	MCAOJ107P	Object Oriented Programming with C++ and Java Lab	0	0	3	20	10	70	100
8	MCADB108P	Database Management System	0	0	2	20	10	70	100
9	MCACG109P	Computer Graphics Lab	0	0	2	20	10	70	100
10	MCADS110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
Total Contact Hrs./ Total Marks			18	4	10	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCATC201	Theory of Computation	3	1	0	20	10	70	100
2	MCASE202	Software Engineering	3	0	0	20	10	70	100
3	MCAWT203	Web Technology	3	0	0	20	10	70	100
4	MCACB204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	MCAMP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
6	MCAEC206	E-Commerce and Digital Marketing	3	1	0	20	10	70	100
PRACTICALS									

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7	MCASE207P	Software Engineering Lab	0	0	3	20	10	70	100
8	MCAWT208P	Web Technology Lab	0	0	3	20	10	70	100
9	MCAMP209P	Microprocessor Lab	0	0	2	20	10	70	100
10	MCASM210P	Seminar	0	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			18	4	10	200	100	700	1000


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III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCACD301	Compiler Design	3	1	0	20	10	70	100
2	MCAAD302.1	Advanced Database Concepts	3	0	0	20	10	70	100
	MCAIT302.2	Internet of Things							
	MCAAP302.3	Android Programming							
3	MCANF303	.NET Framework and ASP.NET	3	0	0	20	10	70	100
4	MCAAI304	Introduction to Artificial Intelligence and Machine Learning	3	1	0	20	10	70	100
5	MCABD305.1	Big Data Analytics	3	1	0	20	10	70	100
	MCAMC305.2	Mobile Computing							
	MCACC305.3	Cloud Computing							
	MCAHC305.4	Human Computer Interaction							
6	MCAHV306	Human Values & Professional Ethics	3	1	0	20	10	70	100
PRACTICALS									
7	MCADB307.1P	Advanced Database Concepts Lab	0	0	3	20	10	70	100
	MCAIT307.2P	Internet of Things Lab							
	MCAAP307.3P	Android Programming Lab							
8	MCANF308P	.NET Lab	0	0	3	20	10	70	100
9	MCAAI309P	Artificial Intelligence Lab using Python Lab	0	0	2	20	10	70	100
10	MCACS310P	Communication & Soft Skills	0	0	2	20	10	70	100
11	MCAST311S	Summer Training	0	0	0	80		120	200
Total Contact Hrs./ Total Marks			18	4	10	280	100	820	1200

IV SEMESTER

S.No.	Course Code	Subject	Evaluation Scheme		
			Sessional Exams	ESE	Subject Total
1	MCAIT401D	Industrial Training	200	300	500
2	MCARP402P	Research Paper Publication	40	60	100
Total Contact Hrs./ Total Marks			240	360	600


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Seedling School of Law & Governance

Programme: BA LLB

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 101 GE	General English (Grammar, Legal Terms & Latin Maxims)	Core	5	6
2.	LLB 102 SO	SOCIOLOGY	Core	5	6
3.	LLB 103 PS-I	POLITICAL SCIENCE-I	Core	5	6
4.	LLB 104 CC	COMPUTER CONCEPTS	Core	5	6
5.	LLB 105 LCH	HISTORY-I (LEGAL AND CONSTITUTIONAL HISTORY)	Core	5	6
6.	LLB 106 LT-I	Law of Tort (M.V. Accident & Consumer Protection law) I	Core	5	6

Semester-II

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 201 CE	Communicative English (communication and writing skills)	Core	5	6
2.	LLB 202 PS-II	Political science II	Core	5	6
3.	LLB 203 EC-I	Economics-I	Core	5	6
4.	LLB 204IH	HISTORY-II (Indian History)	Core	5	6
5.	LLB 205 LC-I	Principles of Law of Crimes - I	Core	5	6
6.	LLB 206 LT-II	Law of Tort (Including MV Accident & Consumer Protection Laws) II	Core	5	6
		Internship with NGO/Trial			

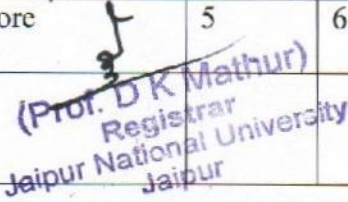

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		Advocates			
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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 301 EC-II	Economics-II	Core	5	6
2.	LLB 302 PS-III	Political Science III (Indian Foreign Policy)	Core	5	6
3.	LLB 303 WH	History III (World History since 1919)	Core	5	6
4.	LLB 304 CL-I	Constitutional Law-I	Core	5	6
5.	LLB 305-LC-II	Law of Crimes II :Administration of Criminal Justice, including Criminal Investigation, Prisons, Juveniles	Core	5	6
6.	LLB 306 JR-I	Jurisprudence	Core	5	6

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 401 EC-III	Economics-III	Core	5	6
2.	LLB 402 CT II	Law of Contract I: General Principles of Contract	Core	5	6
3.	LLB 403 PS IV	Political Science IV	Core	5	6
4.	LLB 404 CL-II	Constitutional Law-II	Core	5	6
5.	LLB 405 EVD	Law of Evidence	Core	5	6
6.	LLB 406 Lang	French	Core	5	6
		Internship with Trial Court/Trial Advocates			

Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 501 PS-V	Political Science V	Core	5	6
2.	LLB 502 LI	Law of Insurance	Core	5	6
3.	LLB 503 ADM	Administrative Law	Core	5	6
4.	LLB 504 FL-I	Family Law-I	Core	5	6
5.	LLB 505 CPC	CPC and Limitation Act	Core	5	6
6.	LLB 506 CT-II	Law of Contracts II (Special Contracts, including Sales of Goods and Partnerships)	Core	5	6

Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 601 CP	Copyright and Patent	Core	5	6
2.	LLB 602 HR	Human Rights	Core	5	6
3.	LLB 603 FL II	Family Law II	Core	5	6
4.	LLB 604 CML	Company Law	Core	5	6
5.	LLB 605 CPV	Criminology, Penology and Victimology	Core	5	6
6.	LLB 606 PS VI	Political Science VI	Core	5	6
		Internship with (High Court / Supreme Court Advocate)			

Semester-VII

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 701IS	Interpretation of Statutes	Core	5	6


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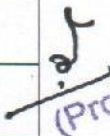
2.	LLB 702 LP	Law of Property	Core	5	6
3.	LLB 703 TL	Principles of Taxation Law	Core	5	6
4.	LLB 704 TG	Law of Trademark and GI	Core	5	6
5.	LLB 705 TEF	Trust, Equity and Fiduciary Relationships	Core	5	6
6.	LLB 706 PIL	Public International Law (Introductory and Law of Peace)	Core	5	6

Semester-VIII

S. No.	Course Code	Course Nomencl- ature	Course Category (core/elective)	Credit	L
1.	LLB 801 BL	Banking Law	Core	5	6
2.	LLB 802 LL-I	Labour Law -I	Core	5	6
3.	LLB 803 EL	Environmental Law (Including wild life protection)	Core	5	6
4.	LLB 804 RTI	Right to Information	Core	5	6
5.	LLB 805 SLC	Special Crimes	Core	5	6
6.	LLB 806 DPC	Drafting, Pleading and Conveyancing	Core	5	6
		Internship with High Court/ Supreme/Court advocates/ Judges			

Semester IX

S. No.	Course Code	Course Nomencl- ature	Course Category (core/elective)	Credit	L
1.	LLB 901 LL-II	Labour Law-II	Core	5	6
2.	LLB 902 PTIL	Private International Law	Core	5	6
3.	LLB 903 FS	Forensic Science	Core	5	6
4.	LLB 904 CG	Corporate Governance	Core	5	6
5.	LLB 905 LLR	Law of Land	Core	5	6
6.	BALLB 906 ADR	Alternate Disputes Resolution	Core	5	6


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Semester X

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	L
1.	LLB 1001ID	Internship Diary	Core	5	-
2.	LLB 1002 IHL	International Humanitarian Law	Core	5	6
3.	LLB 1003PPA	Professional Ethics and Professional Accounting System	Core	5	6
4.	LLB 1004CYL/LS	Cyber Law / Animal Protection law	Elective	5	6
5.	LLB 1005 CL	Competition law	Core	5	6
6.	LLB 1006 IC/APL	International Criminal law/ Law of Sea	Elective	5	6


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Seedling School of Law & Governance

Programme : LLB

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core /elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB(3) 101 LE	Legal English(Grammar, Legal Terms & Latin Maxims)	core	5	1	1	0	6	0
2.	LLB (3) 102 HR	Human Rights	core	5	1	1	0	6	0
3.	LLB (3)103 CL-I	Constitutional Law- I	core	5	1	1	0	6	0
4.	LLB (3) 104 LCH	Legal and Constitutional History of India	core	5	1	1	0	6	0
5.	LLB (3) 105 LM	Legal Methods	core	5	1	1	0	6	0
	LLB (3) 106 LT	Law of Tort (M.V. Accident & Consumer Protection Laws)							

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Semester-II

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB (3)201BL	Banking Law	Core	5	1	1	0	6	0
2.	LLB (3)202CT-I	Law of Contract- I	Core	5	1	1	0	6	0
3.	LLB (3) 203CL- II	Constitutional Law- II	Core	5	1	1	0	6	0
4.	LLB (3) 204 EL	Environmental Law	Core	5	1	1	0	6	0
5.	LLB (3)205LL-I	Labour Law- I	Core	5	1	1	0	6	0
	LLB (3)206 MLE	Media Law and Ethics							

Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB (3) 301 FL-I	Family Law-I	core	5	1	1	0	6	0
2.	LLB (3) 302 LP	Law of Transfer of Property	core	5	1	1	0	6	0
3.	LLB (3) 303 ADR	Alternate Dispute Resolution	core	5	1	1	0	6	0
4.	LLB (3) 304 LL-II	Labour Law-II	core	5	1	1	0	6	0
5.	LLB (3) 305 LC-I	Law of	core	5	1	1	0	6	0

		Crimes-I (Penal Code)							
6.	LLB (3)306 CT-II	Law of Contract- II							

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB (3)401 FL-II	Family Law-II	Core	5	1	1	0	6	0
2.	LLB (3) 402 IPR	Intellectual Property Rights	Core	5	1	1	0	6	0
3.	LLB (3) 403 LI	Law of Insurance	Core	5	1	1	0	6	0
4.	LLB (3) 404 LC-II	Law of Crimes-II (Criminal Procedure Code)	Core	5	1	1	0	6	0
5.	LLB (3) 405 JR	Jurisprudence	Core	5	1	1	0	6	0
6.	LLB (3)406CM L	Company Law	Core	5	1	1	0	6	0

Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB (3) 501 TL	Principles of Taxation Law	core	5	1	1	0	6	0
2.	LLB (3) 502 DPC	Drafting, Pleading and conveyancing	core	5	1	1	0	6	0

3.	LLB (3) 503 ADM	Administrative Law	core	5	1	1	0	6	0
4.	LLB (3) 504 PIL	Public International Law	core	5	1	1	0	6	0
5.	LLB (3) 505 CPC	Civil Procedure and Limitation Act	core	5	1	1	0	6	0
6.	LLB (3) 506EVD	Law of Evidence	core	5	1	1	0	6	0


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	LLB ID 1001	Internship and Diary (Internship with Judiciary /Legislatures/Legal Functionaries/ Law firms Companies/Local Self Government/Legal Regulatory Authorities) (January)	Core						
2.	LLB1002 PPA	Professional Ethics and Professional Accounting System	Core	5	1	1	0	6	0
3.	LLB1003 LOS/ LOW	Law of Sea/Law of War	Core	5	1	1	0	6	0
4.	LLB CL/APL 1004	Cyber Law/ Animal Protection Law	Core	5	1	1	0	6	0
5.	LLB IHL/ITL 1005	International Humanitarian Law/ International Trade Law	Core	5	1	1	0	6	0
	LLB ICL 1006	International Criminal Law							


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Seedling School of Law & Governance
Programme: BBA LLB

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Class Duration			
					L	T	Theory	Practical
1.	BBLLB 101LE	Legal English(Grammar, Legal Terms & Latin Maxims)	Core	5	4	1	1 Hr	-
2.	BBLLB 102 PM	Principles of Management	Core	5	5	1	1 Hr	-
3.	BBLLB 103 CA	Computer Application	Core	5	4	1	1 Hr	-
4.	BBLLB 104 LCH	Legal and Constitutional History of India	Core	5	5	1	1 Hr	-
5.	BBLLB 105 LM	Legal Methods	Core	5	5	1	1 Hr	-
6.	BBLLB 106 LT	Law of Tort (M.V. Accident & Consumer Protection Law)	Core	5	5	1	1 Hr	-


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Semester-II

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBLLB 201 BC	Business Communication	Core	5	4	1	1	1 Hr	-
2.	BBLLB 202 CT-I	Law of Contract-I	Core	5	5	1	-	1 Hr	-
3.	BBLLB 203 EC-I	Economics-I	Core	5	5	1	-	1 Hr	-
4.	BBLLB 204BE	Business Environment	Core	5	5	1	-	1 Hr	-
5.	BBLLB 205 JR	Jurisprudence	Core	5	5	1	-	1 Hr	-
6.	BBLLB 206 MA	Management Accounting	Core	5	5	1	-	1 Hr	-

Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Class Duration			
					L	T	Theory	Practical
1.	BBLLB	Economics-II	Core	5	5	1	1 Hr	-

	301 EC-II							
2.	BBLLB 302 SM	Strategic Management	Core	5	5	1	1 Hr	-
3.	BBLLB 303 FM	Financial Management	Core	5	5	1	1 Hr	-
4.	BBLLB 304 CL-I	Constitutiona l Law-I	Core	5	5	1	1 Hr	-
5.	BBLLB 305 LC-I	Law of Crimes-I (Penal Code)	Core	5	5	1	1 Hr	-
6.	BBLLB 306 CT-II	Law of Contract-II	Core	5	5	1	1 Hr	-

Semester-IV

S. No.	Course Code	Course Nomencl- ature	Course Catego ry (core/el ective)	Cred it	Class Duration			
					L	T	Theor y	Practica l
1.	BBLLB 401 EC-III	Economics- III	Core	5	5	1	1 Hr	-
2.	BBLLB 402 Lang.	Hindi/ Foreign Language	Core	5	5	1	1 Hr	-
3.	BBLLB 403 HRM	Human Resource Management	Core	5	5	1	1 Hr	-
4.	BBLLB	Law of Crimes- II (Criminal	Core	5	5	1	1 Hr	-

	404 LC-II	Procedure Code)						
5.	BBLLB 405 CL-II	Constitutional Law-II	Core	5	5	1	1 Hr	-
6.	BBLLB 406 MM	Marketing Management	Core	5	5	1	1 Hr	-

Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Class Duration			
					L	T	Theory	Practical
1.	BBLLB 501 OB	Organizational Behaviour	Core	5	5	1	1 Hr	-
2.	BBLLB 502 CPV	Criminology, Penology and Victimology	Core	5	5	1	1 Hr	-
3.	BBLLB 503ADM	Administrative Law	Core	5	5	1	1 Hr	-
4.	BBLLB 504 FL-I	Family Law-I	Core	5	5	1	1 Hr	-
5.	BBLLB 505 CPC	Civil Procedure and Limitation Act	Core	5	5	1	1 Hr	-
6.	BBLLB 506 EVD	Law of Evidence	Core	5	5	1	1 Hr	-

Semester-VI

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S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Class Duration			
					L	T	Theory	Practical
1.	BBLLB 601 FS	Forensic Science and Law	Core	5	5	1	1 Hr	-
2.	BBLLB 602 LI	Law of Insurance	Core	5	5	1	1 Hr	-
3.	BBLLB 603 FL-II	Family Law-II	Core	5	5	1	1 Hr	-
4.	BBLLB 604 CML	Company Law	Core	5	5	1	1 Hr	-
5.	BBLLB 605 MLE	Media Law and Ethics	Core	5	5	1	1 Hr	-
6.	BBLLB 606 BS	Business Statistics	Core	5	5	1	1 Hr	-
		Internship with (High Court / Supreme Court Advocate)						

Semester-VII

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Class Duration			
					L	T	Theory	Practical

1.	BBLLB 701IS	Interpretatio n of Statutes	Core	5	5	1	1 Hr	-
2.	BBLLB 702 LP	Law of Transfer of Property	Core	5	5	1	1 Hr	-
3.	BBLLB 703 TL-I	Principles of Taxation Law-I	Core	5	5	1	1 Hr	-
4.	BBLLB 704 IPR	Intellectual Property Rights	Core	5	5		1 Hr	-
5.	BBLLB 705 PIL	Public International Law	Core	5	5	1	1 Hr	-
6.	BBLLB 706 HR	Human Rights	Core	5	5	1	1 Hr	-

Semester-VIII

S. No.	Course Code	Course Nomencl- ature	Course Categor y (core/el ective)	Credi t	Class Duration			
					L	T	Theor y	Practica l
1.	BBLLB 801 BL	Banking Law	Core	5	5	1	1 Hr	-
2.	BBLLB 802 LL-I	LabourLaw-I	Core	5	5	1	1 Hr	-
3.	BBLLB 803 PTIL	Private International Law	Core	5	5	1	1 Hr	-
4.	BBLLB 804EL	Environment al Law	Core	5	5		1 Hr	-
5.	BBLLB	Special Crimes	Core	5	5	1	1 Hr	-

	805 SPC							
6.	BBLLB 806 LLR	Law of Land and Real Estates	Core	5	5	1	1 Hr	-

Semester-IX

S. No.	Course Code	Course Nomencl- ature	Course Catego- ry (core/el- ective)	Cred it	Class Duration			
					L	T	Theo- ry	Practic- al
1.	BBLLB 901 LL-II	Labour Law-II	Core	5	5	1	1 Hr	-
2.	BBLLB 902 PILA	Public Interest Litigation and Legal aid	Core	5	5	1	1 Hr	-
3.	BBLLB 903 DPC	Drafting Pleading and Conveyanci- ng	Core	5	5	1	1 Hr	-
4.	BBLLB 904 ADR	Alternate Dispute Resolution	Core	5	5	1	1 Hr	-
5.	BBLLB 905 CPL	Competition Law	Core	5	5	-	1 Hr	-
6.	BBLLB 906 CG	Corporate Governance	Core	5	5	1	1 Hr	-

Semester-X

S. No.	Course Code	Course Nomencl- ature	Course Catego- ry	Credi- t	Class Duration			
					L	T	Theor- y	Practica- l

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School of Social Sciences

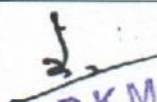
Programme: Master of Social Work

Semester I

Code	Papers	Marks		MM
		Internal	External	
MSW 1.1	Social work profession; origin and development of social work	30	70	100
MSW 1.2	Personality development and dynamics of human behaviour	30	70	100
MSW 1.3	Human society ,culture & social problems	30	70	100
MSW 1.4	Working with individuals	30	70	100
MSW 1.5	Social group work theory and practices	30	70	100
FWP-1	Field-work Practicum & Viva-voce	100	100	200
	TOTAL			700

Semester II

Code	Papers	Marks		MM
		Internal	External	
MSW 2.1	Social and Human Development	30	70	100
MSW 2.2	Population and Environment	30	70	100
MSW 2.3	Community Organization: Theory and Practice	30	70	100
MSW 2.4	Social Work Research	30	70	100
MSW 2.5	Social Welfare Administration and Social Action	30	70	100


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FWP-2	Field-work Practicum & Viva-voce	100	100	200
	TOTAL			700

Semester III

Compulsory Papers

Code	Papers	Marks		MM
		Internal	External	
MSW 3.1	Social Work: Themes and Perspectives	30	70	100
MSW 3.2	Social Policy and Planning in India	30	70	100
MSW 3.3	Social Statistics and Computer Applications	30	70	100

Semester III

Specializations (Elective Papers)

Code	Papers	Marks		MM
		Internal	External	
I. Labour Welfare and Human Resource Management				
MSW 3.4	Trade Unions and Industrial Relations	30	70	100
MSW 3.5	Labour Welfare and Social Security	30	70	100
II. Family-Centred Social Work Intervention				
MSW 3.6	Women and Society in India	30	70	100


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MSW 3.7	Youth Welfare and Development	30	70	100
FWP-3	Field-work Practicum & Viva-voc	100	100	200
	TOTAL			700

Semester IV

Compulsory Papers

Code	Papers	Marks		MM
		Internal	External	
MSW 4.1	Counseling and Communication	30	70	100
MSW 4.2	Participatory Approaches to Development and Social Work Practice Skills	30	70	100
MSW 4.3	Political Economy and Development	30	70	100


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Semester IV**Specializations (Elective Papers)**

Code	Papers	Marks		MM
		Internal	External	
I. Labour Welfare and Human Resource Management				
MSW 4.4	Human Resource Management	30	70	100
MSW 4.5	Labour Legislations in India	30	70	100
II. Family-centered Social Work Intervention				
MSW 4.6	Child Welfare and Development	30	70	100
MSW 4.7	Welfare of the Aged	30	70	100
FWP-4.1	Field-work Practicum	100	100	200
FWP-4.2	Field-based Research Report			100
	Project Work/ Dissertation			100
	General Viva-voce			100
	TOTAL			900


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School of Allied Health Sciences

Programme: B.Sc. Clinical Dietetics

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDBC101	Biostatistics and Introduction to Computers	Core	100	4	1	0	60 Min	0
2.	BCDBN102	Basic Nutrition	Core	100	3	1	0	60 Min	0
3.	BCDGM103	General Microbiology	Core	100	4	1	0	60 Min	0
4.	BCDAP104	Human Anatomy and Physiology I	Core	100	4	1	0	60 Min	0
5.	BCDBD105	Basic Dietetics	Core	100	3	1	0	60 Min	0
6.	BCDPR106P	Computer Fundamentals Lab	Core	100	0	0	1	0	180 Min
7.	BCDPR107P	General Microbiology Lab	Core	100	0	0	1	0	180 Min
8.	BCDPR108P	Human Anatomy and Physiology I Lab	Core	100	0	0	1	0	180 Min

Semester-II

S.No.	Paper Code	Paper Title	Course Category	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDMM201	Family Meal Management	Core	100	3	1	0	60 Min	0
2.	BCDVM202	Vitamin and Mineral Nutrients	Core	100	3	1	0	60 Min	0
3.	BCDFB203	Fundamentals of	Core	100	4	1	0	60 Min	0


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		Biochemistry							
4.	BCDAP204	Human Anatomy & Physiology II	Core	100	4	1	0	60 Min	0
5.	BCDMB205	Basic Molecular Biology and Genetics	Core	100	4	1	0	60 Min	0
6.	BCDPR206P	Fundamentals of Biochemistry Lab	Core	100	0	0	1	0	180 Min
7.	BCDPR207P	Basic Nutrition Lab	Core	100	0	0	1	0	120 Min
8.	BCDPR208P	Human Anatomy and Physiology II Lab	Core	100	0	0	1	0	180 Min

Semester-III

S. No.	Paper Code	Paper Title	Course Category	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDTN301	Therapeutic Nutrition	Core	100	3	1	0	60 Min	0
2.	BCDNB302	Nutritional Biochemistry	Core	100	4	1	0	60 Min	0
3.	BCDCM303	Community Nutrition	Core	100	3	1	0	60 Min	0
4.	BCDPC304	Professional communication skills*	Core	100	4	1	0	60 Min	0
5.	BCDCN305	Clinical Nutrition	Core	100	3	1	0	60 Min	0
6.	BCDFC306	Food Commodities I	Core	100	3	1	0	60 Min	0
7.	BCDPR307P	Nutritional Biochemistry Lab	Core	100	0	0	1	0	180 Min
8.	BCDPR308P	Therapeutic Nutrition Lab	Core	100	0	0	1	0	120 Min
9.	BCDPR309P	Community Nutrition Lab	Core	100	0	0	1	0	120 Min

*non-credit paper

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Semester-IV

S. No.	Paper Code	Paper Title	Course Category	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDFH401	Food Microbiology, Sanitation and Hygiene	Core	100	4	1	0	60 Min	0
2.	BCDFC402	Food Commodities II	Core	100	4	1	0	60 Min	0
3.	BCDFP403	Food Preservation	Core	100	4	1	0	60 Min	0
4.	BCDFF404	Food Fortification	Core	100	4	1	0	60 Min	0
5.	BCDPN-405	Preventive Nutrition	Core	100	4	1	0	60 Min	0
6.	BCDPR406P	Food Microbiology Lab	Core	100	0	0	1	0	120 Min
7.	BCDPR407P	Food Commodities Lab	Core	100	0	0	1	0	120 Min
8.	BCDPR408P	Food preservation Lab	Core	100	0	0	1	0	120 Min
9.	BCDFG-404 (Elective)	Food Packaging	Elective	100	4	1	0	60 Min	0
10.	BCDWM-404 (Elective)	Waste Management in Food Industry	Elective	100	4	1	0	60 Min	0
11.	BCDPB-405 (Elective)	Public Nutrition	Elective	100	4	1	0	60 Min	0
12.	BCDPH-405 (Elective)	Public Health Nutrition	Elective	100	4	1	0	60 Min	0

Semester-V

S.No.	Paper Code	Paper Title	Course Category	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDFT501	Food Toxicology	Core	100	4	1	0	60 Min	0
2.	BCDFA502	Food Adulteration	Core	100	4	1	0	60 Min	0
3.	BCDFS503	Food Safety	Core	100	4	1	0	60 Min	0
4.	BCDFM504	Food Service Management	Core	100	4	1	0	60 Min	0
5.	BCDRM505	Research Methodology	Core	100	4	1	0	60 Min	0

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6.	BCDPR506P	Food Analysis Lab	Core	100	0	0	1	0	120 Min
7.	BCDPR507P	Food service management Lab	Core	100	0	0	1	0	120 Min
8.	BCDPR508P	Food Science Lab (Food Adulteration + Food Safety)	Core	100	0	0	1	0	120 Min

Semester-VI

S.No.	Paper Code	Paper Title	Course Category	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDHT-601D	6 month project & On The Job Training	Core	700	0	0	6	0	240 Min
2.	BCDNC-602	Nutrition in Special Conditions	Core	100	3	1	0	60 Min	0
3.	BCDES-603	Environmental studies*	Core	100	4	1	0	60 Min	0
4.	BCDED-604 *	Entrepreneurship Development	Core	100	4	1	0	60 Min	0
5.	BCDPC-604 (Elective)	Patient's Care and Counseling Skills	Elective	100	4	1	0	60 Min	0
6.	BCDFE-604 (Elective)	Food Business Management and Entrepreneurship	Elective	100	4	1	0	60 Min	0

*non-credit paper


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School of Allied Health Sciences

Programme: B.Sc. Medical Laboratory Technology

Year: I

Semester: I

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLBP101	Basic Pathology-I	4	1	5	30	70	100
BMLBB102	Basic Biochemistry-I	4	1	5	30	70	100
BMLGM103	General Microbiology	4	1	5	30	70	100
BMLAP104	Human Anatomy & Physiology-I	4	1	5	30	70	100
BMLPC105	*Professional Communication Skills	2	1	3	30	70	100
	Total	18	5	23	120	280	400

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR106P	Practical 1 (Basic Pathology-I)	3	1	30	70	100
BMLPR107P	Practical 2 (Basic Biochemistry-I)	3	1	30	70	100
BMLPR108P	Practical 3 (General Microbiology)	3	1	30	70	100
BMLPR109P	Practical 4 (Human Anatomy & Physiology-I)	3	1	30	70	100
	Total	12	4	120	280	400
Total Semester Credits		27		Grand Total		8000

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year: I

Semester: II

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLBP201	Basic Pathology-II	4	1	5	30	70	100
BMLBB202	Basic Biochemistry-II	4	1	5	30	70	100
BMLMT203	Microbial Techniques	4	1	5	30	70	100
BMLAP204	Human Anatomy & Physiology-II	4	1	5	30	70	100
	Total	16	4	20	120	280	400

Practical Papers


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Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR205P	Practical 1 (Basic Pathology-II)	3	1	30	70	100
BMLPR206P	Practical 2 (Basic Biochemistry-II)	3	1	30	70	100
BMLPR207P	Practical 3 (Microbial Techniques)	3	1	30	70	100
BMLPR208P	Practical 4 (Human Anatomy & Physiology-II)	3	1	30	70	100
	Total	12	4	120	280	400
Total Semester Credits		24		Grand Total		800

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours

Year: II

Semester: III

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLCH301	Clinical Hematology	4	1	5	30	70	100
BMLMB302	Metabolic & Blood Biochemistry	4	1	5	30	70	100
BMLBP303	Bacterial Pathogens & Associated Diseases	4	1	5	30	70	100
BMLIM304	Immunology	4	1	5	30	70	100
BMLPM305	Preventive Medicine & Health Care	4	0	4	30	70	100
	Total	20	4	24	150	350	500

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR306P	Practical 1 (Clinical Hematology)	3	1	30	70	100
BMLPR307P	Practical 2 (Metabolic & Blood Biochemistry)	3	1	30	70	100
BMLPR308P	Practical 3 (Bacterial Pathogens & Associated Diseases and Immunology)	3	1	30	70	100
	Total	9	3	90	210	300
Total Semester Credits		27		Grand Total		800

L: Lecturer,

T: Tutorial,

IA: Internal Assessment,

ETE: End Term Exam

*Compulsory but not counted towards credit hours


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Year: II
Theory Papers

Semester: IV

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLHT401	Histopathological Techniques	4	1	5	30	70	100
BMLBT402	Biochemical & Biophysical Techniques	4	1	5	30	70	100
BMLPV403	Pathogenic Viruses	4	1	5	30	70	100
BMLCP404	Clinical Pathology	4	1	5	30	70	100
Total		16	4	20	120	280	400

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR405P	Practical 1 (Histopathological Techniques)	3	1	30	70	100
BMLPR406P	Practical 2 (Biochemical & Biophysical Techniques)	3	1	30	70	100
BMLPR407P	Practical 3 (Pathogenic Viruses)	3	1	30	70	100
BMLPR408P	Practical 4 (Clinical Pathology)	3	1	30	70	100
Total		12	4	120	280	400
Total Semester Credits		24		Grand Total		800

L: Lecturer, T: Tutorial, IA: Internal Assessment, ETE: End Term Exam
*Compulsory but not counted towards credit hours

Year: III
Theory Papers

Semester: V

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLBB501	Blood Banking & Transfusion Medicine	4	1	5	30	70	100
BMLDE502	Diagnostic Enzymes & Vitamins	4	1	5	30	70	100
BMLCM503	Clinical Mycology	4	1	5	30	70	100
BML**504	**Elective Courses	4	1	5	30	70	100
Total		12	4	20	120	280	400

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Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR505P	Practical 1 (Blood Banking & Transfusion Medicine)	3	1	30	70	100
BMLPR506P	Practical 2 (Diagnostic Enzymes & Vitamins)	3	1	30	70	100
BMLPR507P	Practical 3 (Clinical Mycology)	3	1	30	70	100
BMLPR508P	Practical 4 (Computer Fundamentals)	3	1	30	70	100
	Total	12	4	120	280	400
Total Semester Credits		23		Grand Total		800

L: Lecturer, T: Tutorial, IA: Internal Assessment, ETE: End Term Exam

*Compulsory but not counted towards credit hours.

** Elective Courses: 1. Biostatistics & Computer Fundamental (BMLBC504).
2. Medical Informatics (BMLMI504).

Year: III

Semester: VI

Theory Papers

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLHC601	Histo & Cytopathological Techniques	4	1	5	30	70	100
BMLHD602	Hormones & Disorders	4	1	5	30	70	100
BMLCP603	Clinical Parasitology	4	1	5	30	70	100
BMLRM604	Research Methodology	4	1	5	30	70	100
BMLES605	*Environmental Studies and Disaster Management	2	0	2	30	70	100
	Total	18	4	22	120	280	400

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR606P	Practical 1 (Histo & Cytopathological Techniques)	3	1	30	70	100
BMLPR607P	Practical 2 (Hormones & Disorders)	3	1	30	70	100
BMLPR608P	Practical 3 (Clinical Parasitology)	3	1	30	70	100
BMLPR609P	Practical 3 (Basic Medical Aid Procedures)	0	1	0	0	100
	Total	9	4	90	210	400
Total Semester Credits		26		Grand Total		800

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L: Lecturer, T: Tutorial, IA: Internal Assessment, ETE: End Term Exam
 *Compulsory but not counted towards credit hours.

Year: IV
Theory Papers

Semester: VII

Course code	Course Name	Hours Per Week		Credits	Evaluation Scheme		
		L	T		IA	ETE	Total
BMLIP701	Immunopathology	4	1	5	30	70	100
BML**702	**Elective Courses	4	1	5	30	70	100
BMLAM703	Advance Microbial Techniques	4	1	5	30	70	100
BMLEQ704	Entrepreneurship & Quality Laboratory Management	3	1	4	30	70	100
BMLMJ705	Medical Jurisprudence	4	0	4	30	70	100
Total		20	4	23	150	350	500

Practical Papers

Course code	Course Name	Hours Per Week	Credits	Evaluation Scheme		
				IA	ETE	Total
BMLPR706P	Practical 1 (Immunopathology)	3	1	30	70	100
BMLPR707P	Practical 2 (Advance Biochemical Techniques)	3	1	30	70	100
BMLPR708P	Practical 3 (Advance Microbial Techniques)	3	1	30	70	100
Total		9	3	90	210	300
Total Semester Credits		26		Grand Total		800

L: Lecturer, T: Tutorial, IA: Internal Assessment, ETE: End Term Exam

*Compulsory but not counted towards credit hours

** Elective Courses: 1. Advance Biochemical Techniques (BMLAB702).
 2. Molecular Biology (BMLMB702).


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Year: IV

Semester: VIII

Course code	Course Name	Training Hrs. Per Week	Credits	Evaluation Scheme		
				Project Present ation	Disser- tation	Total
BMLTP801D	Six Month's Training with An Analytical Project)	8 hrs/day, for 6 Month	-	100	100	100
Total Semester Credits		6 month		Grand Total		200


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School of Life & Basic Sciences

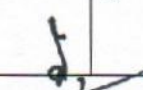
Programme: B.Sc. (Hons.) Bioinformatics

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBIBC101	Biostatistics and Introduction to Computers	Core	100	4	1	0	60 Min	0
2.	BBICG102	Cell Biology and Genetics	Core	100	4	1	0	60 Min	0
3.	BBIMB103	Microbiology	Core	100	4	1	0	60 Min	0
4.	BBICH104	Chemistry - I	Core	100	4	1	0	60 Min	0
5.	BBIPR105	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BBIPR106	Practical-II	Core	100	0	0	6	0	(180+180) Min

Semester-II

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBIIM201	Introductory Mathematics	Core	100	4	1	0	60 Min	0
2.	BBIPA202	Programming Language Fundamentals and Applications	Core	100	4	1	0	60 Min	0
3.	BBIBC203	Biochemistry - I	Core	100	4	1	0	60 Min	0
4.	BBICH204	Chemistry - II	Core	100	4	1	0	60 Min	0
5.	BBIPR205	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BBIPR206	Practical-II	Core	100	0	0	6	0	(180+180) Min


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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBIP301	Pharmacoinformatics	Core	100	4	1	0	60 Min	0
2.	BBICB302	Computational Biology	Core	100	4	1	0	60 Min	0
3.	BBICH303	Chemistry III	Core	100	4	1	0	60 Min	0
4.	BBIPS304	Professionals Communication Skills	Core	100	4	1	0	60 Min	0
5.	BBIPR305	Practical-I	Core	75	0	0	6	0	(180+180) Min
6.	BBIPR306	Practical-II	Core	75	0	0	6	0	(180+180) Min
7.	BBIV307	Industrial Visit	Core	50	0	0	0	0	0

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBi* 401	Elective Paper*	Core	100	4	1	0	60 Min	0
2.	BBIDS402	Database Management System	Core	100	4	1	0	60 Min	0
3.	BBIPM403	Phylogenetics & molecular evolution	Core	100	4	1	0	60 Min	0
4.	BBIPP404	PERL programming	Core	100	4	1	0	60 Min	0
5.	BBIPR*405	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BBIPR*406	Practical-II	Core	100	0	0	6	0	(180+180) Min

Elective Paper* 1. Structural Bioinformatics & Nanotechnology (BBISN401)

2. Biophysics and Instrumentations (BBIBI401).

3. Protein Engineering (BBIPE401)


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* As per the course selected by students

Semester-V

S. No.	Course Code	Course Nomenclature	Course Category(Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBIGA501	Genome Analysis	Core	100	4	1	0	60 Min	0
2.	BBICA502	C++ and DSA	Core	100	4	1	0	60 Min	0
3.	BBI*503	Elective Paper1*	Core	100	4	1	0	60 Min	0
4.	BBI*504	Elective Paper2*	Core	100	4	1	0	60 Min	0
5.	BBIPR*505	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BBIPR*506	Practical-II	Core	100	0	0	6	0	(180+180) Min

Elective Paper1* 1. Chemi-informatics & Drug Designing (BBICD503)
2. Medical Informatics (BBIMI503)
3. Neural Networks (BBINN503)

Elective Paper2* 1. Immunology (BBIIY504)
2. Cancer Biology (BBICY504)
3. Cell Signaling (BBICS504)

* As per the course selected by students


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBISB601	System Biology	Core	100	4	1	0	60 Min	0
2.	BBIGP602	Genomics & Proteomics	Core	100	4	1	0	60 Min	0
3.	BBI*603	Elective Paper1*	Core	100	4	1	0	60 Min	0
4.	BBI*604	Elective Paper2*	Core	100	4	1	0	60 Min	0
5.	BBIPR*605	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BBIPR*606	Practical-II	Core	100	0	0	6	0	(180+180) Min
7.	BBIIT607	Industrial Training	Core	200	0	0	0	0	

Elective Paper1* 1. Biodiversity and Environment (BBIBE603)
 2. Public health and hygiene (BBIPH603)
 3. Basic Nutrition (BBIBN603)

Elective Paper2* 1. Industry Relations and Entrepreneurship (BBIIE604)
 2. Entrepreneurship and skill development (BBIED604)
 3. Intellectual Property Rights (BBIIR604)


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School of Life & Basic Sciences

Programme: B.Sc. (Hons.) Biotechnology

Semester wise course structure/ Distribution

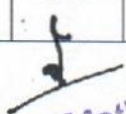
Semester -I									
S.No	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBTBC101	Biostatistics & Introduction to Computers	Core	100	4	1	0	60	0
2	BBTCG102	Cell Biology and Genetics	Core	100	4	1	0	60	0
3	BBTMB103	Microbiology	Core	100	4	1	0	60	0
4	BBTCH104	Chemistry - I	Core	100	4	1	0	60	0
5	BBTPR105	Practical-I	Core	100	0	0	3+3	0	180+180
6	BBTPR106	Practical-II	Core	100	0	0	3	0	180+180

Semester-II									
S. No.	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBTIM201	Introductory Mathematics	Core	100	4	1	0	60	0
2	BBTPL202	Programming Language Fundamentals and Applications	Core	100	4	1	0	60	0
3	BBTBC203	Biochemistry - I	Core	100	4	1	0	60	0
4	BBTCH204	Chemistry - II	Core	100	4	1	0	60	0
5	BBTPR205	Practical-I	Core	100	0	0	3+3	0	180+180
6	BBTPR206	Practical-II	Core	100	0	0	3+3	0	180+180


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Semester-III									
S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBTMB301	Molecular Biology	Core	100	4	1	0	60	0
2	BBTBC302	Biochemistry - II	Core	100	4	1	0	60	0
3	BBTCH303	Chemistry III	Core	100	4	1	0	60	0
4	BBTPC304	Professionals Communication Skills	Core	100	4	1	0	60	0
5	BBTPR305	Practical-I	Core	75	0	0	3+3	0	180+180
6	BBTPR306	Practical-II	Core	75	0	0	3	0	180+180
7	BBTIV307	Industrial Visit	Core	50					

Semester-IV									
S. No	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBT* 401	Elective paper*	Core	100	4	1	0	60	0
2	BBTBP402	Biophysics and Instrumentation	Core	100	4	1	0	60	0
3	BBTPT403	Plant Tissue Culture and Plant Biotechnology	Core	100	4	1	0	60	0
4	BBTDB404	Developmental Biology	Core	100	4	1	0	60	0
5	BBTPR405	Practical-I	Core	100	0	0	3+3	0	180+180
6	BBTPR406	Practical-II	Core	100	0	0	3+3	0	180+180


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Elective
papers*
(Any one)

- A. Fundamentals of Bioinformatics and Nanotechnology (BBTBN401)
- B. Phylogenetic and Molecular Evolution (BBTPM401)
- C. Structural Biology (BBTSB401)

Semester-V									
S. No	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBTEB501	Environmental Biotechnology	Core	100	4	1	0	60	0
2	BBTAB502	Animal Biotechnology	Core	100	4	1	0	60	0
3	BBT ¹ 503	Elective course 1*	Core	100	4	1	0	60	0
4	BBT ² 504	Elective course 2*	Core	100	4	1	0	60	0
5	BBTPR505	Practical-I	Core	100	0	0	3+3	0	180+180
6	BBTPR506	Practical-II	Core	100	0	0	3+3	0	180+180

Elective
course 1*
(Any one)

- A. Bioprocess engineering (BBTBE503)
- B. Food and Dairy Microbiology (BBTFD503)
- C. Biopharmaceutical (BBTBP503)

Elective
course 2*
(Any one)

- A. Immunology (BBTIM504)
- B. Cancer Biology (BBTCB504)
- C. Cell Signalling (BBTCS504)

*As per the course selected by students

Semester-VI									
S. No	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration (In minutes)	
					L	T	P	Theory	Practical
1	BBTIG601	Introduction	Core	100	4	1	0	60	0

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		to Genomes							
2	BBTRD602	Recombinant DNA Technology	Core	100	4	1	0	60	0
3	BBT ^{1*} 603	Elective course 1*	Core	100	4	1	0	60	0
4	BBT ^{2*} 604	Elective course 2*	Core	100	4	1	0	60	0
5	BBTPR605	Practical-I	Core	100	0	0	3+3	0	180+180
6	BBTPR606	Practical-II	Core	100	0	0	3+3	0	180+180
7	BBTIT607	Industrial Training	Core	200	0	0			

Elective
course 1*
(Any one)

- A. Biodiversity and Environment (BBTBE603)
- B. Public Health and hygiene (BBTPH603)
- C. Basic nutrition (BBTBN603)

Elective
course 2*
(Any one)

- A. Industry Relations and Entrepreneurship (BBTIE604)
- B. Entrepreneurship and skill development (BBTED604)
- C. Intellectual Property Rights (BBTIR604)


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School of Life & Basic Sciences

Programme: B.Sc. (Hons.) Microbiology

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category(Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMBBC101	Biostatistics and Introduction to Computers	Core	100	4	1	0	60 Min	0
2.	BMBCG102	Cell Biology and Genetics	Core	100	4	1	0	60 Min	0
3.	BMBMB103	Microbiology	Core	100	4	1	0	60 Min	0
4.	BMBCH104	Chemistry - I	Core	100	4	1	0	60 Min	0
5.	BMBPR105	Practical-I	Core	100	0	0	6	0	(180+180) Min
6	BMBPR106	Practical-II	Core	100	0	0	6	0	(180+180) Min

Semester-II

S. No.	Course Code	Course Nomenclature	Course Category(Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMBIM201	Introductory Mathematics	Core	100	4	1	0	60 Min	0


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2.	BMBPA202	Programming Language Fundamentals and Applications	Core	100	4	1	0	60 Min	0
3.	BMBBC203	Biochemistry - I	Core	100	4	1	0	60 Min	0
4.	BMBCH204	Chemistry – II	Core	100	4	1	0	60 Min	0
5.	BMBPR205	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BMBPR206	Practical-II	Core	100	0	0	6	0	(180+180) Min

Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMBPI301	Molecular Biology	Core	100	4	1	0	60 Min	0
2.	BMBCB302	Biochemistry – II	Core	100	4	1	0	60 Min	0
3.	BMBCH303	Chemistry III	Core	100	4	1	0	60 Min	0
4.	BMBPS304	Professionals Communication Skills	Core	100	4	1	0	60 Min	0
5.	BMBPR305	Practical-I	Core	75	0	0	6	0	(180)


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									+180) Min
6.	BMBPR306	Practical-II	Core	75	0	0	6	0	(180 +180) Min
7.	BMBIV307	Industrial Visit	Core	50	0	0	0	0	0

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category (Core/ elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMB* 401	Elective Paper*	Core	100	4	1	0	60 Min	0
2.	BMBBI402	Biophysics and Instrumentation	Core	100	4	1	0	60 Min	0
3.	BMBPM403	Microbial Physiology and Metabolism I	Core	100	4	1	0	60 Min	0
4.	BMBIM404	Industrial Microbiology	Core	100	4	1	0	60 Min	0
5.	BMBPR*405	Practical-I	Core	100	0	0	6	0	(180 +180) Min
6.	BMBPR*406	Practical-II	Core	100	0	0	6	0	(180 +180) Min

Elective Paper*

1. Structural Bioinformatics & Nanotechnology (BMBSN401)

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2. Phylogenetics & Molecular evolution (BMBPM401)
3. Structural Bioinformatics (BMBSB401)

* As per the course selected by students

Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMB501	Virology	Core	100	4	1	0	60 Min	0
2.	BMB502	Microbial Physiology and Metabolism II	Core	100	4	1	0	60 Min	0
3.	BMB*503	Elective Paper1*	Core	100	4	1	0	60 Min	0
4.	BMB*504	Elective Paper2*	Core	100	4	1	0	60 Min	0
5.	BMBPR*505	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BMBPR*506	Practical-II	Core	100	0	0	6	0	(180+180) Min

Elective Paper1* 1. Food and Dairy Microbiology (BMBFD503)

2. Biopharmaceuticals (BMBBP503)
3. Bioprocess engineering (BMBBP503)

Elective Paper2* 1. Immunology (BMBIY504)

2. Cancer Biology (BMBCB504)
3. Cell Signaling (BMBCS504)

* As per the course selected by students


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Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (Core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BMBSB601	Environmental Microbiology	Core	100	4	1	0	60 Min	0
2.	BMBGP602	Medical Microbiology	Core	100	4	1	0	60 Min	0
3.	BMB*603	Elective Paper1*	Core	100	4	1	0	60 Min	0
4.	BMB*604	Elective Paper2*	Core	100	4	1	0	60 Min	0
5.	BMBPR*605	Practical-I	Core	100	0	0	6	0	(180+180) Min
6.	BMBPR*606	Practical-II	Core	100	0	0	6	0	(180+180) Min
7.	BMBIT607	Industrial Training	Core	200	0	0	0	0	

Elective Paper1* 1. Biodiversity and Environment (BMBBE603)

2. Public health and hygiene (BMBPH603)

3. Basic Nutrition (BMBBN603)

Elective Paper2* 1. Industry Relations and Entrepreneurship (BMBIE604)

2. Entrepreneurship and skill development (BMBED604)

3. Intellectual Property Rights (BMBIR604)


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School of Life & Basic Sciences

Programme: B.Sc. (Hons.) Biochemistry

Semester-I Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	BBCBI-101	Biostatistics & Introduction to Computers	4	3	30	70	100
2	BBCCG-102	Cell Biology and Genetics	4	3	30	70	100
3	BBCMB-103	Microbiology	4	3	30	70	100
4	BBCCH-104	Chemistry - I	4	3	30	70	100
Total			16				400

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-105	Practical-I (BBCCG-102 & BBCMB-103)	3+3	3	30	70	100
2	BBCPR-106	Practical-II (BBCBI-101 & BBCCH-104)	3	3	30	70	100
Total			9				200

Semester II

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	BBCIM-201	Introductory Mathematics	4	3	30	70	100


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2	BBCPL-202	Programming Language Fundamentals and Applications	4	3	30	70	100
3	BBCBC-203	Biochemistry-I	4	3	30	70	100
4	BBCCH-204	Chemistry - II	4	3	30	70	100
Total			16				400

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-205	Practical-I (BBCIM-201 & BBCPL-202)	3+3	3	30	70	100
2	BBCPR-206	Practical-II (BBCBC-203 & BBCCH-204)	3+3	3	30	70	100
Total			12				200

Semester III

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	BBCMB-301	Membrane Biochemistry	4	3	30	70	100
2	BBCMT-302	Metabolism I	4	3	30	70	100
3	BBCCH-303	Chemistry III	4	3	30	70	100
4	BBCPC-304	Professionals Communication Skills	4	3	30	70	100
Total			16				400


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Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-305	Practical-I (BBCMB-301 & BBCMT-302)	3+3	3	25	50	75
2	BBCPR-306	Practical-II (BBCCH-303)	3	3	25	50	75
3	BBCIV-307	Industrial Visit					50
Total			9				200

Semester IV

Theory

S No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1. Electives	BBCBN-401E1	Fundamentals of Bioinformatics and Nanotechnology	4	3	30	70	100
	BBCSB-401E2	Structural Biology	4	3	30	70	100
	BBCPM-401E3	Phylogenetics and Molecular Evolution	4	3	30	70	100
2	BBCBI-402	Biophysics and Instrumentation	4	3	30	70	100
3	BBCMT-403	Metabolism II	4	3	30	70	100
4	BBCMB-404	Molecular Biochemistry	4	3	30	70	100
Total			16				400


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Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-405	Practical-I (Electives & BBCBI-402)	3+3	3	30	70	100
2	BBCPR-406	Practical-II (BBCMT-403 & BBCMB-404)	3+3	3	30	70	100
Total			12				200

Semester V

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	BBCED-501	Endocrinology	4	3	30	70	100
2	BBCCB-502	Clinical Biochemistry	4	3	30	70	100
		Electives I					
3	BBCEZ-503E1	Enzymology	4	3	30	70	100
	BBCBE-503E2	Bioenergetics	4	3	30	70	100
	BBCDB-503E3	Developmental Biology	4	3	30	70	100
		Electives II					
4	BBCIM-504E1	Immunology	4	3	30	70	100
	BBCIB-504E2	Infection Biology	4	3	30	70	100


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	BBCCB-504E3	Cancer Biology	4	3	30	70	100
Total			16				400

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-505	Practical-I (BBCED-501 & BBCCB-502)	3+3	3	30	70	100
2	BBCPR-506	Practical-II (Electives)	3+3	3	30	70	100
Total			12				200

Semester VI

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	BBCPB-601	Plant Biochemistry	4	3	30	70	100
2	BBCGE-602	Genomics	4	3	30	70	100
		Electives 1					
3	BBCBE-603E1	Biodiversity and Environment	4	3	30	70	100
	BBCNB-603E2	Industry relations and Entrepreneurship	4	3	30	70	100
	BBCHH-603E3	Public Health and Hygeine	4	3	30	70	100
		Electives 2					


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4	BBCMP-604E1	Molecular Physiology	4	3	30	70	100
	BBCNB-604E2	Neurobiochemistry	4	3	30	70	100
	BBCBE-604E3	Bioprocess Engineering	4	3	30	70	100
Total			16				400

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	BBCPR-605	Practical-I (BBCPB-601 & BBCGE-602)	3+3	3	30	70	100
2	BBCPR-606	Practical-II (Electives)	3+3	3	30	70	100
3	BBCIT-607	Industrial Training					200
Total			12				400


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School of Life & Basic Sciences

Programme: B.Sc. (Pass) PCM

I Semester									
S.No.	Code	Paper Title	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BPMWO101	Waves & Optics	UG	4	4	1	0	60 min	0
2	BPMAH102	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	UG	4	4	1	0	60 min	0
3	BPMDC103	Differential Calculus	UG	6	4	1	0	60 min	0
4	BPMPC104	Professionals Communication Skills	UG	2	4	1	0	60 min	0
5	BPMPR105	Waves & Optics Lab	UG	2	0	0	6	0	180 +180 min
6	BPMPR106	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons Lab	UG	2	0	0	6	0	180 +180 min
II Semester									
S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per			Class Duration	


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					Week			Th.	Pr.
					L	T	P		
1	BPMMC201	Mechanics	UG	4	4	1	0	60 min	0
2	BPMCF202	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I	UG	4	4	1	0	60 min	0
3	BPMDE203	Differential Equation	UG	6	4	1	0	60 min	0
4	BPMEV204	Environmental Studies	UG	2	4	1	0	60 min	0
5	BPMPR205	Mechanics Lab	UG	2	0	0	6	0	180 +180 min
6	BPMPR206	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I Lab	UG	2	0	0	6	0	180 +180 min

Semester III

S.No.	Code	Paper Title	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BPMT301	Thermal Physics	UG	4	4	1	0	60 min	0
2	BPMCO302	Solution Phase Equilibrium	UG	4	4	1	0	60 min	0


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		,Conductance, Electro Chemistry & Functional Group Organic Chemistry- II							
3	BPMRA303	Real Analysis	UG	6	4	1	0	60 min	0
4	BPM**304	Skill Enhancement Course (Maths)*	UG	2	4	1	0	60 min	0
5	BPMPR305	Thermal Physics Lab	UG	2	0	0	6	0	180 +180 min
6	BPMPR306	Solution Phase Equilibrium ,Conductance, Electro Chemistry & Functional Group Organic Chemistry- II Lab	UG	2	0	0	6	0	180 +180 min

Skill Enhancement Course (Maths) *

1. BPMVC304 - Vector Calculus
2. BPMDG304 - Differential Geometry
3. BPMMF304 - Mathematical Finance

Semester IV

S.No.	Code	Paper Title	Course Category	Credits	Contact- Per Week			Class Duration	
					L	T	P	Theory	Pract ical

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1	BPMEM401	Electricity and Magnetism	UG	4	4	1	0	60 min	0
2	BPMTS402	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics	UG	4	4	1	0	60 min	0
3	BPMAG403	Algebra	UG	4	4	1	0	60 min	0
4	BPM**404	Skill Enhancement Course (Chemistry)*	UG	2	4	1	0	60 min	0
5	BPMPR405	Electricity and Magnetism Lab	UG	2	0	0	6	0	180 +180 min
6	BPMPR406	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics Lab	UG	4	4	1	0	60 min	0

Skill Enhancement Course (Chemistry)*

1. BPMP404 –Pharmaceutical Chemistry
2. BPM CI404 – Cheminformatics
3. BPMGM404 – Green Methods of Chemistry

Semester V

S.No.	Code	Paper Title	Course	Credits	Contact-Per	Class Duration
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			Category		Week			Theory	Practical
					L	T	P		
1	BPMSS501	Discipline Specific Electives (Physics)	UG	4	4	1	0	60 min	0
2	BPMOP502	Discipline Specific Electives (Chemistry)	UG	4	4	1	0	60 min	0
3	BPMLP503	Discipline Specific Electives (Maths)	UG	6	4	1	0	60 min	0
4	BPM**504	Skill Enhancement Course (Chemistry)*	UG	6	4	1	0	60 min	0
5	BPMPR505	Discipline Specific Electives (Physics) Lab	UG	2	4	1	0	60 min	0
6	BPMPR506	Discipline Specific Electives (Chemistry) Lab	UG	2	0	0	6	0	180 +180 min

Discipline Specific Electives (Physics)

1. BPMSS501 - Solid State Physics
2. BPMMP501 - Medical Physics
3. BPMAP501 - Atmospheric Physics

Discipline Specific Electives (Chemistry)

1. BPMOP502 - Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy
2. BPMMP502 - Molecular Modelling & drug designing
3. BPMIM502 - Instrumental methods of analysis


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Discipline Specific Electives (Mathematics)

1. BPMLP503 - Linear Programming
2. BPMMC503 - Mechanics
3. BPMRT503 - Ring Theory and Linear Algebra-I

Skill Enhancement Course (Chemistry)

4. BPMED504 - Entrepreneurship development
5. BPMIP504 – Intellectual Property Rights (IPR)
6. BPMBC504 – Business Skills for Chemists

Semester VI

S.No.	Code	Paper Title	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BPMQM601	Discipline Specific Electives (Physics)	UG	4	4	1	6	60 min	180 min
2	BPMQP602	Discipline Specific Electives (Chemistry)	UG	4	4	1	0	60 min	0
3	BPMNM603	Discipline Specific Electives (Maths)	UG	4	4	1	0	60 min	0
4	BPMEC604	Electrical circuits and Network Skills	UG	6	4	1	0	60 min	0
5	BPMPR605	Discipline Specific Electives (Physics) Lab	UG	2	4	1	0	60 min	0


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6	BPMPR606	Discipline Specific Electives (Chemistry) Lab	UG	2	4	1	0	60 min	0
Discipline Specific Electives (Physics) 1. BPMQM601 - Quantum mechanics and Applications 2. BPMNA601 - Nano Materials and Applications 3. BPMEM601 - Elements Of Modern Physics Discipline Specific Electives (Chemistry) 4. BPMQC602 - Quantum Chemistry, Spectroscopy & Photo Chemistry 5. BPMRC602 - Research methodology for chemistry 6. BPMDA602 - Dissertation Discipline Specific Electives (Mathematics) 1. BPMNM603 - Numerical Methods 2. BPMRT603 - Ring Theory and linear Algebra-II 3. BPMPS603 - Probability and Statistics Skill Enhancement Course (Physics) 4. BPMEC604 - Electrical circuits and Network Skills 5. BPMRE604 - Renewable Energy and Energy harvesting 6. BPMCP604 - Computational Physics Skills									


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School of Life & Basic Sciences

Programme: B.Sc. (Pass) CBZ

Semester I

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BBZPD-101	Plant Diversity	Core	4	5	1	0	60 min	0
2	BBZAH-102	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	Core	4	5	1	0	60 min	0
3	BBZAD -103	Animal Diversity	Core	4	5	1	0	60 min	0
4	BBZCS-104	Professionals Communication Skills	Elective	4	5	1	0	60 min	0
5	BBZPR -105	Plant Diversity Lab	Core	2	0	0	3	0	180 min
6	BBZPR-106	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons Lab	Core	2	0	0	3	0	180 min
7	BBZPR -107	Animal Diversity	Core	2	0	0	3	0	180 min


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Semester II

S. No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BBZPT-201	Plant Ecology& Taxonomy	Core	4	5	1	0	60 min	0
2	BBZCF-202	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I	Core	4	5	1	0	60 min	0
3	BBZCD-203	Comparative Anatomy & Developmental Biology	Core	4	5	1	0	60 min	0
4	BBZES-204	Environmental Studies	Elective	4	5	1	0	60 min	0
5	BBZPR -205	Plant Ecology& Taxonomy Lab	Core	2	0	0	3	0	180 min
6	BBZPR-206	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I Lab	Core	2	0	0	3	0	180 min
7	BBZPR-206	Comparative Anatomy & Developmental Biology Lab	Core	2	0	0	3	0	180 min

Semester III

S. No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical

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1	BBZAE-301	Plant Anatomy & Embryology	Core	4	5	1	0	60 min	0
2	BBZCE-302	Conductance, Electro Chemistry & Functional Group Organic Chemistry-II	Core	4	5	1	0	60 min	0
3	BBZPB-303	Physiology & Biochemistry	Core	4	5	1	0	60 min	0
4	BBZMB-304	Botany *	Elective	2	5	1	0	60 min	0
5	BBZPR-305	Plant Anatomy & Embryology Lab	Core	2	0	0	3	0	180 min
6	BBZPR-306	Conductance, Electro Chemistry & Functional Group Organic Chemistry-II Lab	Core	2	0	0	3	0	180 min
7	BBZPR-307	Physiology & Biochemistry Lab	Core	2	0	0	3	0	180 min

Skill Enhancement Courses (Credit: 02 each) – Botany*

III SEMESTER

1. Nursery and Gardening (BBZNG-304)
2. Medicinal Botany (BBZMB-304)
3. Mushroom Culture Technology (BBZMC-304)

Semester IV

S. No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical


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1	BBZPM - 401	Plant Physiology & Metabolism	Core	4	5	1	0	60 min	0
2	BBZTS- 402	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics	Core	4	5	1	0	60 min	0
3	BBZGE - 403	Genetics & Evolutionary Biology	Core	4	5	1	0	60 min	0
4	BBZPC- 404	Chemistry*	Elective	2	5	1	0	60 min	0
5	PR/Bot - 405	Plant Physiology & Metabolism Lab	Core	2	0	0	3	0	180 min
6	PR/Chem- 406	Transition Metal & Coordination Chemistry, States of Matter and Chemical Kinetics Lab	Core	2	0	0	3	0	180 min
7	PR/Zoo- 406	Genetics & Evolutionary Biology Lab	Core	2	0	0	3	0	180 min

Skill Enhancement Course (Credit: 02 each) – Chemistry*

IV SEMESTER

1. Pharmaceutical Chemistry (BBZPC-404)
2. Basic Analytical Chemistry (BBZAC-404)
3. Chemoinformatics (BBZCI-404)

Semester V

S. No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BBZ*501	Botany Elective	Elective	4	5	1	0	60 min	0


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2	BBZ*502	Chemistry Elective	Elective	4	5	1	0	60 min	0
3	BBZ*503	Zoology- Elective	Elective	4	5	1	0	60 min	0
4	BBZ*504	Zoology*	Elective	2	5	1	0	60 min	0
5	BBZPR*- 505	PRACTICAL I	Elective	2	0	0	3	0	180 min
6	BBZPR *-506	PRACTICAL II	Elective	2	0	0	3	0	180 min
7	BBZPR *-507	PRACTICAL III	Elective	2	0	0	3	0	180 min

*** Discipline specific elective offered for V th semester**

Discipline Specific Electives-Botany (Credit: 06 each)

1. Economic Botany and Biotechnology (BBZBB-501)
2. Cell and Molecular Biology (BBZCM-501)
3. Analytical Techniques in Plant Sciences (BBZAT-501)

Discipline Specific Elective papers (Credit: 06 each): Chemistry

1. Instrumental methods of chemical analysis(BBZIC-502)
2. Molecular Modelling& Drug Design (BBZMD-502)
3. Organometallics, Bioinorganic chemistry, Polynuclear hydrocarbons and UV, IR Spectroscopy (BBZOS-502)

Discipline Specific Electives: Zoology

1. Aquatic Biology (BBZAB-503)
2. Immunology (BBZIM-503)
3. Reproductive Biology (BBZRB-503)

Skill Enhancement Courses: Zoology*


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V SEMESTER

1. Public Health and Hygiene (BBZPH-504)
2. Apiculture (BBZAP-504)
3. Aquarium Fish Keeping (BBZAF-504)

Semester VI

S. No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BBZ*601	Botany Elective	Elective	4	5	1	6	60 min	0
2	BBZ*602	Chemistry Elective	Elective	4	5	1	0	60 min	0
3	BBZ*603	Zoology- Elective	Elective	4	5	1	0	60 min	0
4	BBZ*604	Zoology/Botany/Chemistry*(SKILL enhancement course)	Elective	2	5	1	0	60 min	0
5	BBZPR*-605	PRACTICAL I	Elective	2	5	1	0	0	180 min
6	BBZPR *-606	PRACTICAL II	Elective	2	0	0	6	0	180 min
7	BBZPR *-607	PRACTICAL III	Elective	2	0	0	6	0	180 min

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*** Discipline specific elective offered for VI th semester**

Discipline Specific Electives-Botany

1. Bio-informatics (BBZBI-601)
2. Research Methodology(BBZRM-601)
3. Dissertation(BBZDS-601)

Discipline Specific Elective papers : Chemistry

1. Quantum Chemistry, Spectroscopy & Photochemistry(BBZQP-602)
2. Research Methodology for Chemistry(BBZRC-602)
3. Dissertation(BBZDI-602)

Discipline Specific Electives: Zoology

1. Applied Zoology(BBZAZ-603)
2. Dissertation(BBZDS-603)
3. Insect,Vector and Diseases(BBZID-603)

*** Skill Enhancement Courses:**

VI SEMESTER

1. Medical Diagonistics (BBZMD-604)
2. Intellectual Property Right(BBZIP-604)
3. Green Methods in Chemistry(BBZGC-604)


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School of Life & Basic Sciences Programme: B.Sc. (Hons.) Physics									
I Semester									
S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPHWO101	Waves and Optics	Core	6	5	1	0	60 min	0
2	BPHAS102	Analog Systems and Applications	Core	6	5	1	0	60 min	0
3	BPH**103	Generic Elective *	GE	6	5	1	0	60 min	0
4	BPHES104	Environmental Science	AECC	6	5	1	0	60 min	0
5	BPHPR105	Waves and Optics Lab	Core	3	0	0	3	0	180 min
6	BPHPR106	Analog Systems and Applications Lab	Core	3	0	0	3	0	180 min
7	BPHPR107	Generic Elective Lab**	GE	2	0	0	2	60 min	0
Generic Elective * BPHOP103- Object Oriented Programming in C++ BPHPC103 - Physical Chemistry I: States of Matter & Ionic Equilibrium BPHAL103 - Algebra-I Generic Elective Lab ** BPHPR103- Object Oriented Programming in C++ Lab BPHPR103 - Physical Chemistry I: States of Matter & Ionic Equilibrium Lab									
II Semester									
S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPHME201	Mechanics	Core	6	5	1	0	60 min	0
2	BPHDS202	Digital System and Applications	Core	6	5	1	0	60 min	0


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3	BPH**203	Generic Elective *	GE	6	5	1	0	60 min	0
4	BPHEN204	English Communication	AECC	6	5	1	0	60 min	0
5	BPHPR205	Mechanics Lab	Core	3	0	0	3	0	180 min
6	BPHPR206	Digital System and Applications lab	Core	3	0	0	3	0	180 min
7	BPHPR207	Generic Elective Lab **	GE	0	0	3	0	0	180 min

Generic Elective*

BPHDP203 - Data Structures and File Processing

BPHPC203 - Physical Chemistry -II Chemical Thermodynamics & its Applications

BPHDE203- Differential Equation

Generic Elective Lab **

BPHDP203 - Data Structures and File Processing Lab

BPHPC203 - Physical Chemistry -II Chemical Thermodynamics & its Applications Lab

Semester III

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPHTP301	Thermal Physics	Core	6	5	1	0	60 min	0
2	BPHMP302	Mathematical Physics I	Core	6	5	1	0	60 min	0
3	BPHEM303	Electricity and magnetism	Core	6	5	1	0	60 min	0
4	BPH##304	Ability Enhancement Credit Course #	AECC	6	5	1	0	60 min	0
5	BPHID305	Introduction to Database Systems	GE	6	5	1	0	60 min	0
6	BPHPR306	Thermal Physics Lab	Core	3	0	0	3	0	180 min
7	BPHPR307	Mathematical Physics I Lab	Core	3	0	0	3	0	180 min


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8	BPHPR308	Electricity and magnetism Lab	Core	3	0	0	3	0	180 min
9	BPHPR309	Introduction to Database Systems Lab	GE	2	0	2	0		0120 min

Generic Elective *

BPHID305 - Introduction to Database Systems

BPHPC305 - Physical Chemistry -III: Phase Equilibria & Chemical Kinetics

BPHDP305- Partial Differential Equation

Generic Elective Lab **

BPHID305 - Introduction to Database Systems Lab

BPHPC305 - Physical Chemistry -III: Phase Equilibria & Chemical Kinetics Lab

Ability Enhancement Credit Course #

BPHMD304 - Mechanical Drawing

BPHCP304 - Computational Physics Skills

BPHRE304 - Renewable Energy and Energy Harvesting

Semester IV

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPHEM401	Elements of Modern Physics	Core	6	5	1	0	60 min	0
2	BPHSS402	Solid State Physics	Core	6	5	1	0	60 min	0
3	BPHMP403	Mathematical Physics II	Core	6	5	1	0	60 mi	0
4	BPH##404	Ability Enhancement Credit Course #	AEEC	6	5	1	0	60 mi	0
5	BPHJP405	Generic Elective *	GE	6	5	1	0	60 mi	0
6	BPHPR406	Elements of Modern Physics Lab	Core	3	0	0	3	0	180 min
7	BPHPR407	Solid State Physics Lab	Core	3	0	0	3	0	180 min
8	BPHPR408	Mathematical Physics II Lab	Core	3	0	0	3	0	180 min
9	BPHPR409	Generic Elective Lab **	GE	2	0	2	0	0	120 mi

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Generic Elective*

BPHJP405 - Java Programming

BPHOC405 - Organic III: Heterocyclic Chemistry

BPHAL405 - Algebra-II

Generic Elective Lab **

BPHPR409 - Java Programming Lab

BPHPR409 - Organic III: Heterocyclic Chemistry Lab

Ability Enhancement Credit Course #

BPHEC404 - Electrical Circuit Network Skills

BPHWF404 - Weather Forecasting

BPHRS404 - Radiation Safety

Semester V

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPIIMP501	Mathematical Physics III	Core	6	5	1	0	60 min	0
2	BPHSM502	Statistical Mechanics	Core	6	5	1	0	60 min	0
3	BPH&503	Discipline Specific -I &	DSE	6	5	1	0	60 min	0
4	BPH\$504	Discipline Specific -I \$	DSE	6	5	1	0	60 min	0
5	BPHPR505	Mathematical Physics III Lab	DSE	6	5	1	0	60 min	0
6	BPHPR506	Statistical Mechanics Lab	DSE	6	5	1	0	60 min	0
7	BPHPR507	Discipline Specific -I Lab &&	DSE	6	0	0	3	180 min	0
8	BPHPR508	Discipline Specific -I Lab \$\$	DSE	3	0	0	03	180 min	

Discipline Specific Course- I &

BPHESS03 - Experimental Techniques

BPHDS03 - Digital Signal Processing

BPHCE03 - Communication Electronics

Discipline Specific Course- I Lab &&

BPHPR507 - Experimental Techniques Lab

BPHPR507 - Communication Electronics Lab

Discipline Specific Course- II \$

BPHNP504 - Nuclear and Particle Physics

BPHBP504 - Biological Physics

BPHMP504 - Medical Physics

Discipline Specific Course- II Lab \$\$


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Semester VI

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Th.	Pr.
1	BPHQM601	Quantum Mechanics and Application	Core	6	5	1	0	60 min	0
2	BPHET602	Electromagnetic Theory	Core	6	5	1	0	60 min	0
3	BPHI&603	Discipline Specific -I &	DSE	6	5	1	0	60 min	0
4	BPH\$604	Discipline Specific -I \$	DSE	12	5	1	0	60 min	0
5	BPHPR605	Quantum Mechanics and Application Lab	Core	6	5	1	0	0	180 min
2	BPHET606	Electromagnetic Theory Lab	Core	6	5	1	0	0	60 min
6	BPHPR607	Discipline Specific -I Lab &&	Core	3	0	0	3	0	180 min
7	BPHPR608	Discipline Specific -I Lab \$\$	Core	3	0	0	3	0	180 min

Discipline Specific Course- I &

BPHNM603 - Nano Materials and App.

BPHPE603 - Physics of Earth

BPHAS603 - Astronomy and Astrophysics

Discipline Specific Course- I Lab &&

BPHPR607 - Nano Materials and Application Lab

Discipline Specific Course- II \$

BPHAP604 - Dissertation

BPHCD604 - Classical Dynamics

BPHAP604 - Atmospheric Physics

Discipline Specific Course- II Lab \$\$

BPHAP608 - Atmospheric Physics Lab


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School of Life & Basic Sciences

Programme: B.Sc. (Hons.) Mathematics

Semester I Theory

S. No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHDE101	Differential Calculus	6+2	6	3	30	70	100
2	BMHAG102	Algebra	6+2	6	3	30	70	100
3	BMHOP103	Object Oriented Programming In C++	6	4	3	30	70	100
4	BMHES104	Environmental Science	2+2	2	3	30	70	100
Total			26	18				400

Practical

S. No.	Code	Paper	P	Credits	Exam Hrs.	I.A.	Exam.	MM
2	BMHPR105	Practical-II	2	2	3	30	70	100
Total			2	02				100

Semester II

Theory

S. No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHRA201	Real Analysis I	6+2	6	3	30	70	100
2	BMHRA202	Differential Equations	6+2	6	3	30	70	100
3	BMH**203	Skill enhancement Electives*	6	4	3	30	70	100
4	BMHEC204	English Communication	2+2	2	3	30	70	100


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Total	26	18				400
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SEC:

- I. Mathematical finance-BMHMF203
- II. Graph Theory- BMHGT203

Semester III

Theory

S. No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHRA301	Real Analysis II	6+2	6	3	30	70	100
2	BMHPD302	Partial Differential Equation	6	4	3	30	70	100
3	BMHRI303	Riemann Integration and series of function	6+2	6	3	30	70	100
4	BMH**304	General Elective	4	4	3	30	70	100
5	BMH**305	Skill enhancement Electives*	4	2	3	30	70	100
Total			32	22				500

Practical

S No.	Code	Paper	P	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHPR306	Practical-I (PDE)	2	2	3	30	70	100
		Total	2	2		100		

SEC: .

I.Vector Calculus-BMHVC305

II.Logic and Sets- BMHLS305

GE:

- I. Information Security-BMHIS304
- II. Cryptography and Network Security - BMHCN304


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Semester IV

Theory

S No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHMC401	Multivariate Calculus	6+2	6	3	30	70	100
2	BMHAG402	Algebra II	6+2	6	3	30	70	100
3	BMHMS403	Metric Spaces and Complex Analysis I	6+2	6	3	30	70	100
4	BMH**404	General Elective	4	4	3	30	70	100
5	BMHOS405	Operating System: Linux	2	2	3	30	70	100
Total			30	24				500

Practical

S. No.	Code	Paper	P	Credit	Exam Hrs.	I.A.	Exam.	MM
3	BMHPR406	Practical-I	2	2	3	30	70	100
Total			02	02			100	

GE:

- I. Applications of Algebra-BMHAA404
- II. Combinatorial Mathematics- BMHCM404

Semester V Theory

S. No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHRL501	Ring theory and Linear algebra I	6+2	6	3	30	70	100
2	BMHGT502	Group Theory	6+2	6	3	30	70	100
3	BMH**503	Discipline specific Elective	6+2	6	3	30	70	100
4	BMH**504	Discipline specific Elective	6+2	6	3	30	70	100

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5	BMH**505	General Elective	4	4	3	30	70	100
Total			36	28				500

GE:

- I. Finite Elements Method -BMHFE505
- II. Econometrics- BMHEM505

DSE:

- I. Linear Programming- BMHLP503
- II. Number Theory- BMHNT503
- III. Probability and statistics- BMHPS504
- IV. Industrial mathematics- BMHIM504

Semester VI

Theory

S. No.	Code	Paper	L+T	Credits	Exam Hrs.	I.A.	Exam.	MM
1	BMHNM601	Numerical Methods	6	4	3	30	70	100
2	BMHRL602	Ring theory and Linear algebra II	6+2	6	3	30	70	100
3	BMH**603	Discipline specific Elective	6+2	6	3	30	70	100
4	BMH** -604	Discipline specific Elective	6+2	6	3	30	70	100
Total			30	22				400

Practical

S. No.	Code	Paper	P	Credit	Exam Hrs.	I.A.	Exam.	MM
1	BMHPR605	Practical-I(NM)	2	2	3	30	70	100
Total			02	02		100		

DSE:


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- I. Mathematical modeling- BMHMM603
- II. Theory of Equation- BMHTE603
- III. Mechanics- BMHME604
- IV. Differential Geometry- BMHDG604

Total Credits of all semesters will be: **140**



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School of Life & Basic Sciences

Programme: B.Sc. (Hons.) Chemistry

I Semester									
S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHIC-101	Inorganic I: Atomic Structure & Chemical Bonding-I	Core	6	5	1	0	60 min	0
2	BCHPC-102	Physical I: States of Matter & Ionic Equilibrium	Core	6	5	1	0	60 min	0
3	BCHOC-103	Object Oriented Programming in C++	GE	6	5	1	0	60 min	0
4	BCHES-104	Environmental Science	AECC	6	5	1	0	60 min	0
5	BCHIP-105	Inorganic I: Atomic Structure & Chemical Bonding-II lab	Core Practical	3	0	0	3	0	180 min
6	BCHPP-106	Physical I: States of Matter & Ionic Equilibrium Lab	Core Practical	3	0	0	3	0	180 min
7	BCHCP-107	Object Oriented Programming in C++ LAB	GE Practical	3	0	0	3	0	180 min
II Semester									
S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHOC-201	Organic I: Basics & Hydrocarbons	Core	6	5	1	0	60 min	0
2	BCHPC-202	Physical II: Chemical Thermodynamics & its Applications	Core	6	5	1	0	60 min	0
3	BCHDA-203	Digital System and application	GE	6	5	1	0	60 min	0
4	BCHEC-204	English Communication	AECC	6	5	1	0	60 min	0
5	BCHOP-205	Organic I: Basics & Hydrocarbons Lab	Core Practical	3	0	0	3	0	180 min


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6	BCHPP-206	Physical II: Chemical Thermodynamics & its Applications lab	Core Practical	3	0	0	3	0	180 min
7	BCHSP-207	Digital System and application LAB	GE Practical	3	0	0	3	0	180 min

III Semester

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHIC-301	Inorganic II: s- and p-Block Elements	Core	6	5	1	0	60 min	0
2	BCHOC-302	Organic II: Oxygen Containing Functional Groups	Core	6	5	1	0	60 min	0
3	BCHPC-303	Physical III: Phase Equilibria & Chemical Kinetics	Core	6	5	1	0	60 min	0
4	BCHCI- 304/BCHAB- 304/BCHIP- 304	Cheminformatics/ Analytical Clinical Biochemistry/ Intellectual Property Rights	AEEC	6	5	1	0	60 min	0
5	BCHDS-305	Introduction to Database System	GE	6	5	1	0	60 min	0
6	BCHIP-306	Inorganic II: s- and p-Block Elements Lab	Core Practical	3	0	0	3	0	180 min
7	BCHOP-307	Organic II: Oxygen Containing Functional Groups Lab	Core Practical	3	0	0	3	0	180 min
8	BCHPP-308	Physical III: Phase Equilibria & Chemical Kinetics Lab	Core Practical	3	0	0	3	0	180 min
9	BCHDP-309	Introduction to Database System Lab	GE Practical	3	0	0	3	0	180 min

Skill Enhancement courses*

1. BCHCI-304 : Cheminformatics
2. BCHAB-304 : Analytical Clinical Biochemistry
3. BCHIP-304 :Intellectual Property Rights

IV Semester

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHIC-401	Inorganic III: Coordination Chemistry	Core	6	5	1	0	60 min	0


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2	BCHOC-402	Organic III: Heterocyclic Chemistry	Core	6	5	1	0	60 min	0
3	BCHPC-403	Physical IV: Electrochemistry	Core	6	5	1	0	60 min	0
4	BCHPH-404/BCHCC404/BCHPT-404/BCHFC-404	Pharmaceutical Chemistry/ Chemistry of Cosmetics & Perfumes/ Pesticide chemistry/Fuel chemistry	AEEC	6	5	1	0	60 min	0
5	BCHCN-405	Java programming	GE	6	5	1	0	60 min	0
6	BCHIP-406	Inorganic III: Coordination Chemistry Lab	Core Practical	3	0	0	3	0	180 min
7	BCHOP-407	Organic III: Heterocyclic Chemistry Lab	Core Practical	3	0	0	3	0	180 min
8	BCHPP-408	Physical IV: Electrochemistry Lab	Core Practical	3	0	0	3	0	180 min
9	BCHNP-409	Java programming Lab	GE practical	3	0	0	3	0	180 min

Skill Enhancement courses*

1. BCHPH-404 : Pharmaceutical Chemistry
2. BCHCC-404 :Chemistry of Cosmetics & Perfumes
3. BCHPT-404 : Pesticide chemistry
4. BCHFC-404 : Fuel chemistry

V Semester

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHOC-501	Organic IV: Biomolecules	Core	6	5	1	0	60 min	0
2	BCHPP-502	Physical V: Quantum Chemistry & Spectroscopy	Core	6	5	1	0	60 min	0
3	BCHIE-503/BCHII-503	Industrial chemicals and environment / Inorganic Materials of Industrial Importance	DSE	6	5	1	0	60 min	0
4	BCHAC-504/BCHPY-504	Analytical Methods in Chemistry/Polymer chemistry	DSE	6	5	1	0	60 min	0
5	BCHOP-505	Organic IV: Biomolecules Lab	Core Practical	6	5	1	0	60 min	0
6	BCHPP-506	Physical V: Quantum Chemistry & Spectroscopy Lab	Core Practical	3	0	0	3	0	180 min


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7	BCHCP-506/BCHMP-506	Industrial chemicals and environment / Inorganic Materials of Industrial Importance Lab	DSE Practical	3	0	0	3	0	180 min
8	BCHAP-507/BCHPP-507	Analytical Methods in Chemistry/Polymer chemistry Lab	DSE Practical	3	0	0	3	0	180 min

Discipline Specific Elective Papers(Any one from each group)

1. BCHIE-503 :Industrial chemicals and environment
2. BCHII-503 : Inorganic Materials of Industrial Importance

OR

1. BCHAC-504 : Analytical Methods in Chemistry
2. BCHPY-504 : Polymer chemistry Lab

VI Semester

S.No.	Course Code	Course Nomenclature	Course Category	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCHIC-601	Inorganic IV: Organometallic Chemistry	Core	6	5	1	0	60 min	0
2	BCHOC-602	Organic V: Spectroscopy	Core	6	5	1	0	60 min	0
3	BCHMD-603/BCHGC-603	Molecular Modelling & Drug Design / Green Chemistry	DSE	6	5	1	0	60 min	0
4	BCHRM-604/BCHDT-604	Research methodology of chemistry /Dissertation	DSE	12	5	1	0	0	180 min
5	BCHIP-605	Inorganic IV: Organometallic Chemistry Lab	Core Practical	6	5	1	0	0	180 min
6	BCHOP-606	Organic V: Spectroscopy Lab	Core Practical	3	0	0	3	0	180 min
7	BCHMP-607/BCHGP-607	Molecular Modelling & Drug Design / Green Chemistry Lab	DSE Practical	3	0	0	3	0	180 min

Discipline Specific Elective Papers(Any one from each group)

1. BCHMD-603 : Molecular Modelling & Drug Design
2. BCHGC-603 : Green Chemistry

OR

1. BCHRM-604 : Research methodology of chemistry
2. BCHDT-604 : Dissertation


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School of Life & Basic Sciences

Programme: M.Sc. Botany

Semester-I

Theory

S. No.	Code	Paper	Credit Hours	Exam Hrs.	I.A.	Exam.	MM
1	MBOT-101	Cell biology	4	3	30	70	100
2	MBOT-102	Biology & Diversity of Viruses & Bacteria	4	3	30	70	100
3	MBOT-103	Morphology and Diversity of Non – Vascular Plants	4	3	30	70	100
4	MBOT-104	Instrumentation & Analytical Techniques	4	3	30	70	100
5	MBOT-105	Plant Biochemistry	4	3	30	70	100
Total			20				500

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.*	Exam.	MM
1	MBOT-105	Practical-I (MBOT-101 & MBOT-102)	3	3	30	70	100
2	MBOT-106	Practical-II (MBOT-103,MBOT-104 & MBOT-105)	3	3	30	70	100
Total			6				200

Semester II

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	MBOT-201	Morphology and Diversity of Vascular Plants	4	3	30	70	100
2	MBOT-202	Advance Plant Physiology	4	3	30	70	100
3	MBOT-203	Taxonomy and Economic Botany of higher Plants	4	3	30	70	100
4	MBOT-204	Plant Tissue Culture & Its Applications	4	3	30	70	100
5	MBOT-205	Developmental Plant Biology	4	3	30	70	100
Total			20				500

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.*	Exam.	MM
1	MBOT-206	Practical-I (MBOT-201 & MBOT-202)	3	3	30	70	100
2	MBOT-207	Practical-II(MBOT-203,MBOT-204 and MBOT-205)	3	3	30	70	100


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		205)					
Total			6				200

Semester III

Theory

S. No.	Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	MBOT-301	Embryology of Angiosperms	4	3	30	70	100
2	MBOT-302	Plant Ecology & Environment	4	3	30	70	100
3	MBOT-303	Genetics & Plant Breeding	4	3	30	70	100
4	MBOT-304	Molecular Biology & Genetic Engineering	4	3	30	70	100
5	MBO- 305	Phytochemistry and Ethnobotany	4	3	30	70	100
Total			20				500

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.*	Exam.	MM
1	MBOT-306	Practical-I (MBOT-301, MBOT-302)	3	3	30	70	100
2	MBOT-307	Practical-II (MBOT-303, MBOT-304 & MBOT-305)	3	3	30	70	100
Total			6				200

Semester IV

S. No.	Code	Common Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	MBOT-401	Biostatistics & Bioinformatics	4	3	30	70	100
Elective Paper (Any one)							
5	MBOT-402	Environmental Biotechnology	4	3	30	70	100
6	MBOT-403	Plant Biotech and Bioresource Management	4	3	30	70	100
7	MBOT-404	Plant Pathology	4	3	30	70	100
Total			8				200

Practical

S. No.	Code	Paper	P	Exam Hrs.	I.A.*	Exam.	MM
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1	MBOT-405	Practical-I (MBOT-401)	3	3	30	70	100
2	MBOT-406/ MBOT-407/ MBOT-408	Practical-II (Elective Practical)	3	3	30	70	100
Total			6				200

* Practical Internal Assessment split up of marks:

Practical I = Exam 50% (15) + Records 20% (6) + Assignment 30%(9) = 30 marks

Practical II = Exam 50% (15) + Records 20% (6) + Class Seminar 30% (9) = 30 marks

Semester IV Project work and Dissertation:

S. No.	Subject	Total
1	Project work and dissertation	200
	Seminar on project work	100
	Viva and Presentation	50
	TOTAL	350
2	Industrial/Institutional visit/ Field Trip	25
	Seminar based on Industrial/Institutional visit/ Field trip	25
	GRAND TOTAL	400


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School of Life & Basic Sciences

Programme: M.Sc. Bioinformatics

Semester I

Theory

S. No.	Course Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
I-A	MBIT 101A	Basic Mathematics and Statistics (For biology students)		3	30	70	100
I-B	MBIT 101B	Fundamentals of Biology (For non-biology students)		3	30	70	100
2	MBIT -102	Computers and Advanced Programming in C++		3	30	70	100
3	MBIT -103	Immunoinformatics and Biochemical Techniques		3	30	70	100
4	MBIT -104	Bioinformatics and genome analysis		3	30	70	100
5	MBIT-105	Molecular Biology and Genetic Engineering		3	30	70	100
							500

Practical

S. No.	Course Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	MBITP-106	Practical-I (MBIT -102 + MBIT-104)		6	30	70	100
2	MBITP-107	Practical-II (MBIT -103 + MBIT -105)		6	30	70	100
Total							200


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Semester II

Theory

S. No.	Course Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	MBIT -201	Computer Aided Drug Designing (CADD)		3	30	70	100
2	MBIT -202	Computational Biology		3	30	70	100
3	MBIT -203	System Biology		3	30	70	100
4	MBIT -204	Data Structure Algorithm		3	30	70	100
5	MBIT – 205	Java Programming and Data mining		3	30	70	100
Total							500

Practical

S. No.	Course Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	MBITP – 206	Practical-I (MBIT-201+MBIT-202+MBIT - 203)		6	30	70	100
2	MBITP – 207	Practical-II (MBIT -204 + MBIT -205)		6	30	70	100
Total							200

Semester III

Theory

S. No.	Course Code	Paper	L	Exam Hrs.	I.A.	Exam.	MM
1	MBIT-301	Functional and comparative genomics		3	30	70	100
2	MBIT-302	Metabolomics and Proteomics		3	30	70	100


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3	MBIT-303	Gene Expression and Microarray analysis		3	30	70	100
4	MBIT-304	Molecular Structure Prediction and Visualization		3	30	70	100
5	MBIT-305	PERL and My SQL in Bioinformatics		3	30	70	100
Total							500

Practical

S. No.	Course Code	Paper	P	Exam Hrs.	I.A.	Exam.	MM
1	MBITP-306	Practical-I(MBIT-301+MBIT-303)		6	30	70	100
2	MBITP-307	Practical-II(MBIT-304+MBIT-305)		6	30	70	100
							200

Semester IV

Dissertation (6 months) –

S.No	Subject	Total marks
1	Project work- Presentation and Viva-voce *(A+B+C))	140
	Project work (Advisor)**(D+E)	60
	Total	200
2	EL – 402, Pharmacogenomics	100
	EL-403 Visual Basic and Web enabling Technology	
	Grand Total	300

EL = Elective Papers


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School of Life & Basic Sciences

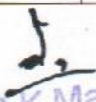
Programme: M.Sc. Physics

Semester-I

Course NO	Course CODE	Course Name	NO OF TEACHING Hrs/WEEK	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
I	MPHT 101	Solid State Physics	4	30	70	100
II	MPHT 102	Classical Mechanics	4	30	70	100
III	MPHT 103	Quantum Mechanics-I	4	30	70	100
IV	MPHT 104	Electronics	4	30	70	100
V- PRACTICAL	MPHP 105	General Physics Laboratory	6	30	70	100
VI- PRACTICAL	MPHP 106	Electronics Laboratory-I	6	30	70	100
Total			28	180	420	600

Semester-II

Course NO	Course CODE	Course Name	NO OF TEACHING Hrs/WEEK	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
I	MPHT 201	Lasers and Holography	4	30	70	100
II	MPHT 202	Quantum Mechanics-II	4	30	70	100
III	MPHT 203	Atomic and Molecular Physics	4	30	70	100
IV	MPHT 204	Electrodynamics	4	30	70	100


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V- PRACTICAL	MPHP 205	Laboratory Project - I	6	30	70	100
VI- PRACTICAL	MPHP 206	Electronics Laboratory- II	6	30	70	100
Total			28	180	420	600

M.Sc. (Physics) Semester-III

Course NO	Course CODE	Course Name	NO OF TEACHING Hrs/WEEK	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
I	MPHIT 301	Nuclear and Particle Physics	4	30	70	100
II	MPHT 302	Mathematical Methods in Physics	4	30	70	100
III	MPHT 303	Thermodynamics and Statistical Physics	4	30	70	100
IV	MPHT 304	Advanced Digital Electronics	4	30	70	100
V- PRACTICAL	MPHP 305	Microwave and Communication Lab	6	30	70	100
VI- PRACTICAL	MPHP 306	Matlab Lab.	6	30	70	100
Total			28	180	420	600


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M.Sc. (Physics) Semester-IV

Course NO	Course CODE	Course Name	NO OF TEACHING Hrs/WEEK	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
I	MPHT 401	Microwave Devices and Communications	4	30	70	100
II	MPHT 402	Analog and Digital Communication	4	30	70	100
III-MAJOR PROJECT	MPHP 403	MAJOR PROJECT	*	60	140	200
Total			*	120	280	400


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School of Life & Basic Sciences

Programme: M.Sc. Mathematics

Semester I

THEORY PAPERS (A)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Mid Term Test	End Term Test	Total
MMAT 101T	Calculus of variation and special functions	4	3	30	70	100
MMAT 102T	Differential Equation	4	3	30	70	100
MMAT 103T	Real Analysis	4	3	30	70	100
MMAT 104T	Industrial Mathematics	4	3	30	70	100
MMAT 105T	C Programming (Theory)	4	3	30	70	100
	Total	20		150	350	500

PRACTICALS (B)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
MMAT106P	C' Programming (Practical)	3	3	45	30	75
MMAT107P	Communication & Soft Skills	3	3	45	30	75
MMAT108P	Seminar	3	2	30	20	50
	Total	9		120	80	200

(Total 29 Period per Week)

L: Lecture, P: Practical, ESE: End Semester Examination


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Semester II

THEORY PAPERS (A)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Mid Term Test	End Term Test	Total
MMAT 201T	Numerical and Statistical Techniques	4	3	30	70	100
MMAT 202T	Abstract Algebra	4	3	30	70	100
MMAT 203T	Mathematical Programming	4	3	30	70	100
MMAT 204T	Continuum mechanics	4	3	30	70	100
MMAT205T	Computer Application (Theory)	4	3	15	35	50
	Total	20		135	315	450

PRACTICALS (B)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
MMAT206P	Optimization Techniques Simulation Lab	3	3	45	30	75
MMAT207P	Numerical & Statistical Techniques Lab	3	3	30	20	50
MMAT208P	Computer Application (Practical)	3	3	45	30	75
MMAT209P	Seminar	3	2	30	20	50
	Total	12		150	100	250


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Semester III

THEORY PAPERS (A)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Mid Term Test	End Term Test	Total
MMAT 301T	Linear Algebra	4	3	30	70	100
MMAT 302T	Combinatorics and Graph Theory	4	3	30	70	100
MMAT 303T	Integral Transforms	4	3	30	70	100
MMAT 304T	Differential Geometry	4	3	30	70	100
MMAT 305T	Advance differential equations	4	3	30	70	100
MMAT 306T	Viscous Fluid Dynamics	4	3	30	70	100
	Total	24		180	420	600

PRACTICALS (B)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
MMAT 307P	Seminar	4	2	60	40	100

Semester IV

THEORY PAPERS (A)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Mid Term Test	End Term Test	Total
MMAT 401T	Functional Analysis	4	3	30	70	100


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MMAT 402T	Integral Equations	4	3	30	70	100
MMAT 403T	Complex Analysis	4	3	30	70	100
MMAT 404T	Topology and Measure Theory	4	3	30	70	100
MMAT 405T	Number Theory (Elective-I)	4	3	30	70	100
MMAT 405T	Operator in Hilbert space (Elective-II)					
MMAT 405T	Boundary Layer Theory (Elective-III)					
MMAT 405T	Mathematical Modelling and Numerical Simulation(Elective- IV)					
	Total	20		150	350	500

PRACTICALS (B)

Course Code	Course Name	Number of Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
MMAT406	Dissertation	9	2	120	80	200


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School of Life & Basic Sciences

Programme: M.Sc. Chemistry

Syllabus Scheme M.Sc. I SEMESTER*

Course Code	Course Name	NO OF TEACHING HRS / WEEK	DURATION (EXAM)	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
MCHT 101	Inorganic Chemistry-I	4	3	30	70	100
MCHT 102	Organic Chemistry-I	4	3	30	70	100
MCHT 103	Physical Chemistry-I	4	3	30	70	100
MCHT104(A)	Maths for Chemist	4	3	30	70	100
MCHT104(B)	Biology for Chemist	4	3	30	70	100
MCHP 105	Inorganic Practical –I	6	6	25	50	75
MCHP 106	organic Practical –I	6	6	25	50	75
MCHP 107	PHYSICAL Practical –I	6	6	25	50	75
Total Marks for Semester III						625

Syllabus Scheme M.Sc. II SEMESTER*

Course Code	Course Name	NO OF TEACHING HRS / WEEK	DURATION (EXAM)	EVALUATION SCHEME		
				MID SEM	END TERM	TOTAL
MCHT 201	Inorganic Chemistry-II	4	3	30	70	100
MCHT 202	Organic Chemistry-II	4	3	30	70	100
MCHT 203	Physical Chemistry-II	4	3	30	70	100
MCHT 204	COMPUTER for chemist	4	3	30	70	100
MCHP 205	Inorganic Practical –II	6	6	25	50	75


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MCHP 206	organic Practical –II	6	6	25	50	75
MCHP 207	PHYSICAL Practical –II	6	6	25	50	75
Total Marks for Semester III						625

*Distribution of teaching hours/week: - Theory – 16 hours, Practical – 12 hours, seminar -1 hr

Syllabus Scheme M.Sc. III SEMESTER

Course Code	Course Name	NO OF TEACH HRS / WEEK	DURATION (EXAM)	EVALUATION SCHEME		
				MID SE	END TER	TOTAL
MCHTC301	SPECTROSCOPY	4	3	30	70	100
MCHTC302	GROUP THEORY INSTRUMENTATION	4	3	30	70	100
MCHTO303	ORGANIC SYNTHESIS-I	4	3	30	70	100
MCHTO304	HETEROCYCLIC CHEMIS AND PHOTOCHEMISTRY	4	3	30	70	100
MCHPO305	ORGANIC PRACTICAL-III	18	6	80	120	200
Total Marks for Semester III						600


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Syllabus Scheme M.Sc. IV SEMESTER

Course Code	Course Name	NO OF TEACH HRS/ WEEK	DURATION (EXAM)	EVALUATION SCHEME		
				MID SE	END TER	TOTAL
MCHTC401	GREEN CHEMISTRY	4	3	30	70	100
MCHTO402	ORGANIC SYNTHESIS-II	4	3	30	70	100
MCHTO403	CHEMISTRY OF NATU PRODUCTS	4	3	30	70	100
MCHTO404	BIO ORGANIC CHEMISTRY	4	3	30	70	100
MCHPC406	PROJECT	9	-	-	200	200
Total Marks for Semester IV						600


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School of Pharmaceutical Sciences

Programme: B. Pharmacy

Semester-I	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 1.1.1 T	Mathematics-I	3	100	4
BPH 1.1.2 T	Pharmacognosy-I	3	100	4
BPH 1.1.3 T	Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry)	3	100	4
BPH 1.1.4 T	Anatomy Physiology & Health Education (APHE)-I	3	100	4
BPH 1.1.5 T	Pharmaceutics-I (Dispensing & Community Pharmacy)	3	100	4
BPH 1.1.6 T	Functional English & Communication Skills	3	50	..
Semester-I	Practicals			
BPH 1.1.2 P	Pharmacognosy-I	3	100	4
BPH 1.1.3 P	Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry)	3	100	4
BPH 1.1.4 P	Anatomy Physiology & Health Education (APHE)-I	3	100	4
BPH 1.1.5 P	Pharmaceutics-I (Dispensing & Community Pharmacy)	3	100	4
Semester-II	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 1.2.1 T	Anatomy Physiology & Health Education (APHE)-II	3	100	4
BPH 1.2.2 T	Pharmaceutical Chemistry-II (Biochemistry)	3	100	4
BPH 1.2.3 T	Pharmaceutical Jurisprudence & Ethics.	4	100	4
BPH 1.2.4 T	Pharmacognosy-II	3	100	4
BPH 1.2.5 T	Pharmaceutics-II (Hospital Pharmacy)	3	100	4
Semester-II	Practicals			
BPH 1.2.1 P	Anatomy Physiology & Health Education (APHE)-II	3	100	4
BPH 1.2.2 P	Pharmaceutical Chemistry-II (Biochemistry)	3	100	4
BPH 1.2.4 P	Pharmacognosy-II	3	100	4
BPH 1.2.5 P	Pharmaceutics-II (Hospital Pharmacy)	3	100	4


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Semester-III	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 2.3.1 T	Pharmaceutical Analysis-I	3	100	4
BPH 2.3.2 T	Pharmaceutical Chemistry-III (Physical Chemistry)	3	100	4
BPH 2.3.3 T	Pharmaceutics-III (Unit operations-I including Engg. Drawing)	3	100	4
BPH 2.3.4 T	Computer Science and Applications	3	100	4
BPH 2.3.5 T	Mathematics-II	4	100	4
BPH 2.3.6 T	Environmental Sciences	3	50	..
Semester-III	Practicals			
BPH 2.3.1 P	Pharmaceutical Analysis-I	3	100	4
BPH 2.3.2 P	Pharmaceutical Chemistry-III (Physical Chemistry)	3	100	4
BPH 2.3.3 P	Pharmaceutics-III (Unit operations-I including Engg. Drawing)	3	100	4
BPH 2.3.4 P	Computer Science and Applications	3	100	4
Semester-IV	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 2.4.1 T	Pharmacognosy-III	3	100	4
BPH 2.4.2 T	Pathophysiology of Common Diseases.	4	100	4
BPH 2.4.3 T	Pharmaceutical Chemistry-IV (Organic Chemistry-I)	4	100	4
BPH 2.4.4 T	Pharmaceutics-IV (Physical Pharmacy)	3	100	4
BPH 2.4.5 T	Pharmaceutical Analysis-II	3	100	4
Semester-IV	Practicals			
BPH 2.4.1 P	Pharmacognosy-III	3	100	4
BPH 2.4.3 P	Pharmaceutical Chemistry-IV (Organic Chemistry-I)	3	100	4
BPH 2.4.4 P	Pharmaceutics-IV (Physical Pharmacy)	3	100	4
BPH 2.4.5 P	Pharmaceutical Analysis-II	3	100	4


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Semester-V	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 3.5.1 T	Pharmaceutics-V (Pharmaceutical Technology-I)	3	100	4
BPH 3.5.2 T	Pharmacology-I	3	100	4
BPH 3.5.3 T	Pharmacognosy-IV	3	100	4
BPH 3.5.4 T	Pharmaceutics-VI (Unit Operations-II)	3	100	4
BPH 3.5.5 T	Pharmaceutical Chemistry-V (Organic Chemistry-II)	3	100	4
Semester-V	Practicals			
BPH 3.5.1 P	Pharmaceutics-V (Pharmaceutical Technology-I)	3	100	4
BPH 3.5.2 P	Pharmacology-I	3	100	4
BPH 3.5.3 P	Pharmacognosy-IV	3	100	4
BPH 3.5.4 P	Pharmaceutics-VI (Unit Operations-II)	3	100	4
BPH 3.5.5 P	Pharmaceutical Chemistry-V (Organic Chemistry-II)	3	100	4
Semester-VI	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 3.6.1 T	Pharmaceutical Chemistry-VI (Medicinal Chemistry-I)	3	100	4
BPH 3.6.2 T	Pharmaceutics-VII (Pharmaceutical Technology-II)	4	100	4
BPH 3.6.3 T	Pharmacology-II	4	100	4
BPH 3.6.4 T	Chemistry of Natural Products	3	100	4
BPH 3.6.5 T	Pharmaceutical Microbiology	3	100	4
Semester-VI	Practicals			
BPH 3.6.1 P	Pharmaceutical Chemistry-VI (Medicinal Chemistry-I)	3	100	4
BPH 3.6.2 P	Pharmaceutics-VII (Pharmaceutical Technology-II)	3	100	4
BPH 3.6.3 P	Pharmacology-II	3	100	4
BPH 3.6.4 P	Chemistry of Natural Products	3	100	4
BPH 3.6.5 P	Pharmaceutical Microbiology	3	100	4


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Semester-VII	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 4.7.1 T	Pharmaceutical Biotechnology	4	100	4
BPH 4.7.2 T	Pharmaceutics-VIII (Biopharmaceutics & Pharmacokinetics)	3	100	4
BPH 4.7.3 T	Pharmaceutical Industrial Management	4	100	4
BPH 4.7.4 T	Pharmacology-III	3	100	4
BPH 4.7.5 T	Pharmaceutical Chemistry-VII (Medicinal Chemistry-II)	3	100	4
BPH 4.7.6 T	Elective (Dissertation, Theory)	4	100	4
Semester-VII	Practicals			
BPH 4.7.2 P	Pharmaceutics-VIII (Biopharmaceutics & Pharmacokinetics)	6	100	4
BPH 4.7.4 P	Pharmacology-III	3	100	4
BPH 4.7.5 P	Pharmaceutical Chemistry-VII (Medicinal Chemistry-II)	3	100	4
Semester-VIII	Theory			
Code	Title of the Paper	Hours	Marks	Credit
BPH 4.8.1 T	Pharmaceutics-IX (Dosage form design)	3	100	4
BPH 4.8.2 T	Pharmaceutical Analysis-III	3	100	4
BPH 4.8.3 T	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-III)	3	100	4
BPH 4.8.4 T	Pharmacognosy-V	3	100	4
BPH 4.8.5 T	Pharmacology-IV (Clinical Pharmacy & Drug interactions)	4	100	4
Semester-VIII	Practicals			
BPH 4.8.1 P	Pharmaceutics-IX (Dosage form design)	3	100	4
BPH 4.8.2 P	Pharmaceutical Analysis-III	3	100	4
BPH 4.8.3 P	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-III)	6	100	4
BPH 4.8.4 P	Pharmacognosy-V	3	100	4
BPH 4.8.6 P	Project related to elective, Seminar presentation on Dissertation	3	100	4


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School of Pharmaceutical Sciences

Programme: M. Pharmacy

M. Pharm. (Pharmaceutics)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPHPH101	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPHPH102	Drug Delivery System	4	4	4	100
MPHPH103	Modern Pharmaceutics	4	4	4	100
MPHPH104	Regulatory Affair	4	4	4	100
MPHPH105P	Pharmaceutics Practical I	12	6	12	150
MPHPH106P	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPHPH201	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPHPH202	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
MPHPH203	Computer Aided Drug Delivery System	4	4	4	100
MPHPH204	Cosmetic and Cosmeceuticals	4	4	4	100
MPHPH205P	Pharmaceutics Practical II	12	6	12	150
MPHPH206P	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

M. Pharm. (Pharmaceutical Chemistry)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPHPC101	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPHPC102	Advanced Organic Chemistry -I	4	4	4	100
MPHPC103	Advanced Medicinal chemistry	4	4	4	100
MPHPC104	Chemistry of Natural Products	4	4	4	100
MPHPC105P	Pharmaceutical Chemistry Practical I	12	6	12	150
MPHPC106P	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPHPC201	Advanced Spectral Analysis	4	4	4	100

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MPHPC202	Advanced Organic Chemistry -II	4	4	4	100
MPHPC203	Computer Aided Drug Design	4	4	4	100
MPHPC204	Pharmaceutical Process Chemistry	4	4	4	100
MPHPC205P	Pharmaceutical Chemistry Practical II	12	6	12	150
MPHPC206P	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

M. Pharm. (Pharmaceutical Quality Assurance)

Course Code	Course	Credit Hours	Credit Points	Hrs. /wk	Marks
Semester I					
MPHQA101	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPHQA102	Quality Management System	4	4	4	100
MPHQA103	Quality Control and Quality Assurance	4	4	4	100
MPHQA104	Product Development and Technology Transfer	4	4	4	100
MPHQA105 P	Pharmaceutical Quality Assurance Practical I	12	6	12	150
MPHQA106 P	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
Semester II					
MPHQA201	Hazards and Safety Management	4	4	4	100
MPHQA202	Pharmaceutical Validation	4	4	4	100
MPHQA203	Audits and Regulatory Compliance	4	4	4	100
MPHQA204	Pharmaceutical Manufacturing Technology	4	4	4	100
MPHQA205P	Pharmaceutical Quality Assurance Practical II	12	6	12	150
MPHQA206P	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

M. Pharm. (Pharmacology)

Course Code	Course	Credit Hours	Credit Points	Hrs. /wk	Marks
Semester I					
MPHPL101	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPHPL102	Advanced Pharmacology-I	4	4	4	100
MPHPL103	Pharmacological and Toxicological	4	4	4	100


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	Screening Methods-I				
MPHPL104	Cellular and Molecular Pharmacology	4	4	4	100
MPHPL105P	Pharmacology Practical I	12	6	12	150
MPHPL106P	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPHPL201	Advanced Pharmacology-II	4	4	4	100
MPHPL202	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPHPL203	Principles of Drug Discovery	4	4	4	100
MPHPL204	Experimental Pharmacology practical- II	4	4	4	100
MPHPL205P	Pharmacology Practical-II	12	6	12	150
MPHPL206P	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

M. Pharm. III Semester (Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
MPHPH301/ MPHPC301/ MPHPL301/ MPHQA301	Research Methodology and Biostatistics*	4	4
MPHPH302P/ MPHPC302P/ MPHPL302P/ MPHQA302P	Journal club	1	1
MPHPH303P/ MPHPC303P/ MPHPL303P/ MPHQA303P	Discussion / Presentation (Proposal Presentation)	2	2
MPHPH304P/ MPHPC304P/ MPHPL304P/ MPHQA304P	Research Work	28	14
Total	35	21	21

M. Pharm. IV Semester (Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
MPHPH401P/ MPHPC401P/ MPHPL401P/ MPHQA401P	Journal Club	1	1
MPHPH402P/ MPHPC402P/ MPHPL402P/ MPHQA402P	Research Work and Colloquium	31	16
MPHPH403P/ MPHPC403P/ MPHPL403P/ MPHQA403P	Discussion/Final Presentation	3	3
Total		35	20


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SCHOOL OF BUSINESS & MANAGEMENT

Programme: MBA Dual Specialization

Semester-wise structure and curriculum

FIRST SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Presentation (P) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(D)-101	Management Accounting	3	1	40	100
MBA(D)-102	Management Process and Organizational Behavior	3	1	40	100
MBA(D)-103	Marketing Management	3	1	40	100
MBA(D)-104	Quantitative Techniques for Management	3	2	50	100
MBA(D)-105	Managerial Economics	3	1	40	100
MBA(D)-106	Business Communication	2	1	30	100
MBA(D)-107	Information Technology in Management	2	2	40	100
MBA(D)-108	Environmental and Disaster Management	3	1	40	100
MBA(D)-109	Industrial Project/ Industrial Visit-I	2	2	40	100**
	TOTAL	24	12	360	900
Interactions	Presentations (Case Presentation / Personality Development Sessions/ Seminars/ Guest Lectures by Industry experts)				

*Maximum Marks 100:

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

**Project Assignment/ presentation and viva

60% project report, 40%project presentation/viva


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SECOND SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Presentat ion (P) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(D)-201	Human Resource Management	3	1	40	100
MBA(D)-202	Financial Management	3	1	40	100
MBA(D)-203	Operation & Production Management	3	1	40	100
MBA(D)-204	Research Methodology	3	2	50	100
MBA(D)-205	International Marketing	3	1	40	100
MBA(D)-206	Data Communication and Networking	3	1	40	100
MBA(D)-207	Entrepreneurship & Managerial Skills Development	2	1	30	100
MBA(D)-208	Business Ethics and Values	2	1	30	100
MBA(D)-209	Industrial Project/ Industrial Visit-II	3	2	50	100**
	TOTAL	25	11	360	900
Interactions	Presentations (Case Presentation / Personality Development Sessions/ Seminars/ Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)


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****Project Assignment/ presentation and viva**

60% project report, 40%project presentation/viva

Note:

Summer Internship Project (for six to eight weeks) would be taken by the students and the presentation of the same will be done in III semester vide MBA (D) 303.

THIRD SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Presentation (P) Hours Per Week	Total Number of Hours	Max. Marks*
CORE SUBJECT:					
MBA(D)-301	Strategic Management	3	1	40	100
MBA(D)-302	Economic and Legal Environment of Business	3	1	40	100
MBA(D)-303	Industrial Project III- Summer Internship Project/ Comprehensive – Specialization Viva	2	2	40	100**
ELECTIVE : Finance/ Human Resource Management/ Marketing/Retail Management/Rural Management					
Functional Area I					
Paper I		3	1	40	100
Paper II		3	1	40	100
Paper III		3	1	40	100
Functional Area II					
Paper I		3	1	40	100
Paper II		3	1	40	100
Paper III		3	1	40	100


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	Total	26	10	360	900
Interactions	Presentations (Case Presentation / Personality Development Sessions/ Seminars/ Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

****Industrial Project III-Summer Internship Project/ Comprehensive –Specialization Viva**

60% project report, 40% project presentation/viva

FOURTH SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Presentation (P) Hours Per Week	Total Number of Hours	Max. Marks*
CORE SUBJECT:					
MBA(D)-401	E-Business	3	1	40	100
MBA(D)-402	Project Management	3	1	40	100
MBA(D)-403	Industrial Project IV (Preferred to be taken by a student in Industry where he/she would opt to take permanent placement)/ Comprehensive –Specialization Viva	1	3	40	100**

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ELECTIVE : Finance/ Human Resource Management/ Marketing/Retail Management/Rural Management					
Functional Area I					
Paper I		3	1	40	100
Paper II		3	1	40	100
Paper III		3	1	40	100
Functional Area II					
Paper I		3	1	40	100
Paper II		3	1	40	100
Paper III		3	1	40	100
Total		25	11	360	900
Interactions	Presentations (Case Presentation / Personality Development Sessions/ Seminars/ Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

****Industrial Project IV / Comprehensive –Specialization Viva**

60% project report, 40%project presentation/viva


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SCHOOL OF BUSINESS & MANAGEMENT
Programme: MBA (Hospital & Health Care Management)
COURSE STRUCTURE (SEMESTER WISE)

FIRST SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Tutorial (T) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(HHM) 101	Management Accounting	3	2	50	100
MBA(HHM) 102	Management Process and Organizational Behavior	3	1	40	100
MBA(HHM) 103	Marketing Management	3	1	40	100
MBA(HHM) 104	Essentials of Biostatistics	4	2	60	100
MBA(HHM) 105	Human Resource Management	3	2	50	100
MBA(HHM) 106	Business Communication	3	1	40	100
MBA(HHM) 107	Information Technology in Management	3	1	40	100
MBA(HHM) 108	Comprehensive Viva (Presentation)	2	2	40	100
	TOTAL	24	12	360	800
Interactions	Presentations (Case Presentation / Seminars/Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

Note 1: Human Biology will be non credit course for students.


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Note 2: The students will go for 1st Project Work for two months from 1st June to 31st July in the field of Hospital Management/Health Care. The theory classes for Semester III will commence in the month of August.

SECOND SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Tutorial (T) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(HHM) 201	Organizational Management of Clinical & Superspeciality Services	3	1	40	100
MBA(HHM) 202	Financial Management	3	2	50	100
MBA(HHM) 203	Health Economics	3	1	40	100
MBA(HHM) 204	Research Methodology	3	2	50	100
MBA(HHM) 205	Essentials of Demography	3	1	40	
MBA(HHM) 206	Diagnostic, Support & Utility Services	3	2	50	100
MBA(HHM) 207	Hospital Materials, Equipment & Supply Chain Management	3	1	40	100
MBA(HHM) 208	Comprehensive Viva(Based on Hospital Visits)	3	2	50	100
	TOTAL	24	12	360	800
Interactions	Presentations (Case Presentation / Seminars/Guest Lectures by Industry experts)				

Weight age:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

Note: The students would be facilitated/ encouraged to go to Hospitals.


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THIRD SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Tutorial (T) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(HHM) 301	Strategic Management	4	1	50	100
MBA(HHM) 302	Health Care Delivery System & Policy	4	1	50	100
MBA(HHM) 303	Hospital Facility, Safety and Risk Management	4	1	50	100
MBA(HHM) 304	Health and Development	4	1	50	100
MBA(HHM) 305	Hospital Management Information System	4	1	50	100
MBA(HHM) 306	Quality & Accreditation in Healthcare	4	1	50	100
MBA(HHM) 307	1st Project Work Presentation	4	2	60	300
	TOTAL	28	8	360	900
Interactions	Presentations (Case Presentation / Seminars/Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)


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FOURTH SEMESTER

Code No.	Course Title	Lecture (L) Hours Per Week	Tutorial (T) Hours Per Week	Total Number of Hours	Max. Marks*
MBA(HHM) 401	Health Legislation and Legal Issues	4	2	60	100
MBA(HHM) 402	Project Management	4	2	60	100
MBA(HHM) 403	Introduction to Epidemiology	4	2	60	100
MBA(HHM) 404	Health Financing and Insurance	4	2	60	100
MBA(HHM) 405	2 nd Project Work Presentation**	8	4	120	300
	TOTAL	24	12	360	700
Interactions	Presentations (Case Presentation / Seminars/Guest Lectures by Industry experts)				

Weightage:

***Maximum Marks 100:**

External Examinations: 60 marks

Internal Assessment: 40 marks

(20 Marks: Written examination; 15 marks: CES/Assignments/presentations; 5 marks: Attendance)

****The project work presentation also includes Hospital Visits.**


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SCHOOL OF BUSINESS & MANAGEMENT

Programme: MBA

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Marks	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MBA-111	Management Accounting	Core	100	4	2	0	1 Hour	0
2.	MBA-112	Principles and Practices of Management	Core	100	3	1	0	1 Hour	0
3.	MBA-113	Organization Behavior and Design	Core	100	3	1	0	1 Hour	0
4.	MBA-114	Quantitative Techniques for Management	Core	100	4	2	0	1 Hour	0
5.	MBA-115	Managerial Economics	Core	100	3	2	0	1 Hour	0
6.	MBA-116	Business Communication	Core	100	2	1	0	1 Hour	0
7.	MBA-117	Computer Application in Management	Core	100	2	2	0	1 Hour	0
8.	MBA-118	Environmental and Disaster Management	Core	100	3	1	0	1 Hour	0

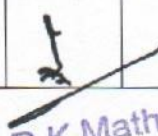

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Semester-II

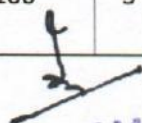
S. No.	Course Code	Course Nomenclature	Course Category	Marks	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MBA-211	Human Resource Management	Core	100	4	2	0	1 Hour	0
2.	MBA-212	Corporate Finance	Core	100	3	1	0	1 Hour	0
3.	MBA-213	Marketing Management	Core	100	3	1	0	1 Hour	0
4.	MBA-214	Operations & Production Management	Core	100	4	2	0	1 Hour	0
5.	MBA-215	Research Methodology	Core	100	3	2	0	1 Hour	0
6	MBA-216	International Business Management	Core	100	2	1	0	1 Hour	0
7	MBA-217	Management Information Systems	Core	100	2	2	0	1 Hour	0
8	MBA-218	Indian Ethos and Business Values	Core	100	3	1	0	1 Hour	0

Semester-III

S. No.	Course Code	Course Nomenclature	Course Category	Marks	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MBA-311	Strategic Management	Core	100	3	2	0	1 Hour	0
2.	MBA-312	Entrepreneurship & Managerial Skill Development	Core	100	3	1	0	1 Hour	0
3.	MBA-313	Specialization Comprehensive Viva	Core	100	0	1	1	0	1 Hour


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4.	MBA-314	Industrial Summer Training Project	Core	200	0	0	2	0	1 Hour
5.	MBA-M001	Consumer Behavior	Elective (Marketing)	100	3	0	0	1 Hour	0
6.	MBA-M002	Advertising and Brand Management	Elective (Marketing)	100	3	0	0	1 Hour	0
7.	MBA-M004	Marketing of Services	Elective (Marketing)	100	3	0	0	1 Hour	0
8.	MBA-M005	Rural Marketing	Elective (Marketing)	100	3	0	0	1 Hour	0
9.	MBA-H001	Human Resource Development System & Strategies	Elective (Human Resources)	100	3	0	0	1 Hour	0
10.	MBA -H002	Manpower Planning & Management	Elective (Human Resources)	100	3	0	0	1 Hour	0
11.	MBA-H005	Organizational Change & Development	Elective (Human Resources)	100	3	0	0	1 Hour	0
12.	MBA-H007	Industrial Relations	Elective (Human Resources)	100	3	0	0	1 Hour	0
13.	MBA-F001	Financial Restructuring	Elective (Finance)	100	3	0	0	1 Hour	0
14.	MBA-F003	Security Analysis and Portfolio Management	Elective (Finance)	100	3	0	0	1 Hour	0
15.	MBA-F004	Financial	Elective	100	3	0	0	1 Hour	0


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		Derivatives	(Finance)						
16.	MBA-F005	Management Control System	Elective (Finance)	100	3	0	0	1 Hour	0
17.	MBA-IT001	E-Business	Elective (IT)	100	3	0	0	1 Hour	0
18.	MBA-IT003	System Analysis & Design	Elective (IT)	100	3	0	0	1 Hour	0

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category	Marks	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MBA-411	Project Management	Core	100	3	2	0	1 Hour	0
2.	MBA-412	Business & Legal Environment	Core	100	3	2	0	1 Hour	0
3.	MBA-413	Specialization Comprehensive Viva	Core	200	2	3	0	0	1 Hour
4	MBA-M003	Retail Management	Elective (Marketing)	100	3	0	0	1 Hour	0
5.	MBA-M006	Sales And Distribution Management	Elective (Marketing)	100	3	0	0	1 Hour	0
6.	MBA-M007	Customer Relationship Management	Elective (Marketing)	100	3	0	0	1 Hour	0
7.	MBA -M008	Integrated Marketing Communication	Elective (Marketing)	100	3	0	0	1 Hour	0


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8.	MBA-H003	Training and Development	Elective (Human Resource)	100	3	0	0	1 Hour	0
9.	MBA-H004	International Human Resource	Elective (Human Resource)	100	3	0	0	1 Hour	0
10.	MBA-H006	Compensation & Performance Management	Elective (Human Resource)	100	3	0	0	1 Hour	0
11.	MBA-H008	Competency Mapping and Talent Management	Elective (Human Resources)	100	3	0	0	1 Hour	0
12.	MBA-F002	Management of Financial Services & Institutions	Elective (Finance)	100	3	0	0	1 Hour	0
13.	MBA-F006	International Financial Management	Elective (Finance)	100	3	0	0	1 Hour	0
14.	MBA-F007	Corporate Tax Management	Elective (Finance)	100	3	0	0	1 Hour	0
15.	MBA-F008	Investment Management	Elective (Finance)	100	3	0	0	1 Hour	0
16.	MBA-IT002	Data Communication and Networking	Elective (IT)	100	3	0	0	1 Hour	0
17.	MBA-IT004	Enterprise Resource Planning	Elective (IT)	100	3	0	0	1 Hour	0


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School of Business & Management

Programme: Bachelor of Business Administration

Semester-I

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBAE M104	AECC1	Environmental Management	100	4	1	0	60 Min.	0
2.	BBABO 102	DSC1.1	Business Organization	100	4	1	0	60 Min.	0
3.	BBAME103	DSC1.2	Managerial Economics	100	4	1	0	60 Min.	0
4.	BBAF1 04	DSC2.1	Financial Accounting	100	4	1	0	60 Min.	0
5.	BBABS 105	DSC2.2	Business Statistics	100	4	1	0	60 Min.	0
6.	BBAES 106	GE1	Entrepreneurship & Skill Development	100	4	1	0	60 Min.	0

Semester-II

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBABC 201	AECC2	Business Communication	100	4	1	0	60 Min.	0
2.	BBAPP 202	DSC3.1	Principles and Practices of Management	100	4	1	0	60 Min.	0
3.	BBABE 203	DSC3.2	Business Environment	100	4	1	0	60 Min.	0
4.	BBAB M204	DSC4.1	Business Mathematics	100	4	1	0	60 Min.	0
5.	BBAM F205	DSC4.2	Management of Financial Institutions	100	4	1	0	60 Min.	0
6.	BBABE 206	GE2	Business Ethics	100	4	1	0	60 Min.	0
7.	BBAIT 207P		Industrial Tour	100	0	0	0		0


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Semester-III

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBAIE 301	DSC 5	Indian Economy	100	4	1	0	60 Min.	0
2.	BBAM M 302	DSC6	Marketing Management	100	4	1	0	60 Min.	0
3.	BBACA 303	DSC7	Cost Accounting	100	4	1	0	60 Min.	0
4.	BBALF 304	DSC7.1	Legal Framework	100	4	1	0	60 Min.	0
5.	BBAIT 305	SEC	IT for Managers	100	4	1	0	60 Min.	60
6.	BBAID 306	GE3	Indian Diversity & Business	100	4	1	0	60 Min.	0

Semester-IV

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBAR M 401	DSC8	Research Methods	100	4	1	0	60 Min.	0
2.	BBAHR 402	DSC 9	Human Resource Management	100	4	1	0	60 Min.	0
3.	BBAIF 403	DSC10	Indian Financial System	100	4	1	0	60 Min.	0
4.	BBAM A 404	DSC10.1	Management Accounting	100	4	1	0	60 Min.	0
5.	BBTM 405	GE4	Tax Management	100	4	1	0	60 Min.	0
6.	BBAE M 406	SEC 2	Event Management	100	4	1	0	60 Min.	0
7.	BBASR 407P		Survey Report	100	0	0	0	60 Min.	0


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Semester-V

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBAQT 501	DSC 11	Quantitative Techniques	100	4	1	0	60 Min.	0
2.	BBACL 502	DSC11.1	Company Law	100	4	1	0	60 Min.	0
3.	BBAIB 503	DSC12	International Business	100	4	1	0	60 Min.	0
4.	BBAOB 504	DSE12.1	Organizational Behaviour	100	4	1	0	60 Min.	0
5.	BB505	DSE1	Student can opt any one paper from three specializations for DSE 1 and keep that specialization same in VISEm.	100	4	1	0	60 Min.	0
6.	BB506	DSE2	Student can opt any one paper from three specializations for DSE 1 and keep that specialization same in VISEm.	100	4	1	0	60 Min.	0
7.	BB507		Summer Training Report	100	0	0	0	60 Min.	0

Semester-VI

S. No.	Course Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BBAS M601	DSC 13	Strategic Management	100	4	1	0	60 Min.	0
2.	BB602	DSC13.1	Auditing –Principles and Practice	100	4	1	0	60 Min.	0
3.	BBAP M603	DSC14	Project Management	100	4	1	0	60 Min.	0
4.	BBAO M604	DSC14.1	Outsourcing Management	100	4	1	0	60 Min.	0
5.	BBA60 5	DSE3	Student can opt any one paper from three specializations for DSE as opted in V Sem.	100	4	1	0	60 Min.	0
6.	BBA60 6	DSE4	Student can opt any one paper from three specializations for DSE as opted in V Sem.	100	4	1	0	60 Min.	0


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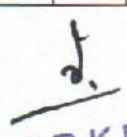
School of Business & Management
Programme: Bachelor of Commerce

Semester 1

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPIE 101	AECC 1	Indian Economy	100	4	1	0	60 Min.	0
2.	BCPFA102	DSC 1.1	Financial Accounting	100	4	1	0	60 Min.	0
3.	BCPME 103	DSC 1.2	Micro Economics	100	4	1	0	60 Min.	0
4.	BCPPP104	DSC 2.1	Principles and Practices of Management	100	4	1	0	60 Min.	0
5.	BCPBO105	DSC 2.2	Business Organization	100	4	1	0	60 Min.	0
6.	BCPEN106	LANGUAGE 1	English	100	4	1	0	60 Min.	0

Semester 2

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPEM201	AECC2	Environmental Management	100	4	1	0	60 Min.	0
2.	BCPRF 202	DSC 3.1	Regulatory Framework of Business	100	4	1	0	60 Min.	0
3.	BCPBF 203	DSC 3.2	Banking and Finance	100	4	1	0	60 Min.	0
4.	BCPBM204	DSC 4.1	Business Mathematics	100	4	1	0	60 Min.	0
5.	BCPCA 205	DSC 4.2	Cost Accounting	100	4	1	0	60 Min.	0
6.	BCPHI 206	LANGUAGE 2	Hindi	100	4	1	0	60 Min.	0

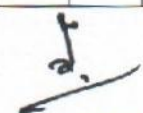

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Semester 3

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPCM 301	SEC 1	Computer Application	100	4	1	0	60 Min.	1
2.	BCPCA 302	DSC 5.1	Corporate Accounting	100	4	1	0	60 Min.	0
3.	BCPBS 303	DSC 5.2	Business Statistics	100	4	1	0	60 Min.	0
4.	BCPCL 304	DSC 6.1	Company Law	100	4	1	0	60 Min.	0
5.	BCPME 305	DSC 6.2	Macro Economics	100	4	1	0	60 Min.	0
6.	BCPFR 306	LANGUAGE 3	French	100	4	1	0	60 Min.	0
	BCPPD307 E		Personality Development	100	4	1	0	60 MIN	0

Semester 4

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPEM 401	SEC 2	Leadership Skills and Change Management	100	4	1	0	60 Min.	0
2.	BCPHR 402	DSC 7.1	Human Resource Management	100	4	1	0	60 Min.	0
3.	BCPFM 403	DSC 7.2	Financial Management	100	4	1	0	60 Min.	0
4.	BCPTM 404	DSC 8.1	Tax Management	100	4	1	0	60 Min.	0
5.	BCPMM 405	DSC 8.2	Marketing Management	100	4	1	0	60 Min.	0
6.	BCPBC 406	LANGUAGE 4	Business Communication	100	4	1	0	60 Min.	0
7	BCPLS406 E		Event Management	100	4	1	0	60 Min	0


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Semester 5

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPES501E	SEC 3	Entrepreneurship & Skill Development	100	4	1	0	60 Min.	0
2	BCPAM502E		Advertising Management	100	4	1	0	60 Min.	0
3	BCPMA503E	DSE 2.1	Management Accounting	100	4	1	0	60 Min.	0
4	BCPMS504E	DSE 1(B)	Management of Services	100	4	1	0	60 Min.	0
5	BCPTD505E	DSE 1(C)	Training & Development	100	4	1	0	60 Min.	0
6.	BCPAT506E	DSE 2.2	Auditing Theory & Practices	100	4	1	0	60 Min.	0
7	BCPOM507E	DSE 2(A)	Operations Management	100	4	1	0	60 Min.	0
8	BCPSA508E	DSE 2 (B)	Security Analysis and Portfolio Management	100	4	1	0	60 Min.	0
9	BCPMF509	DSE 1.1	Management of financial Institution	100	4	1	0	60 Min.	0
10	BCPOB510E	DSE 1.2	Organizational Behaviour	100	4	1	0	60 Min.	0
11	BCPIC 511E	DSE 1.	Indian Constitution	100	4	1	0	60 Min.	0
12	BCPBE512E		Business Ethics	100	4	1	0	60 Min.	0

Semester 6

S. No.	Course Code	Course Category	Course Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCPIM 601	SEC 4	E-Commerce	100	4	1	0	60 Min.	0
2	BCPIM602 E	DSE3.1	Insurance Management	100	4	1	0	60 Min.	0
3	BCPAA603 E	DSE 3 (A)	Advance Accounting	100	4	1	0	60 Min.	0
4	BCPQT604 E	DSE 3 (B)	Quantitative Techniques	100	4	1	0	60 Min.	0
5	BCPMP60 5E	DSE 3 (C)	Monetary Policy	100	4	1	0	60 Min.	0


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6	BCPGS606 E	DSE 3(D)	Goods &Service Tax	100	4	1	0	60 Min.	0
7	BCPBB607 E	DSE 3(E)	Business Budgeting	100	4	1	0	60 Min.	0
8	BCPRD608 E	DSE4 (A)	Management Rural Development	100	4	1	0	60 Min.	0
9	BCPCM60 9E	DSE 4(B)	Cost and Management Audit	100	4	1	0	60 Min.	0
10	BCPFR610 E	DSE4.2	Financial Reporting	100	4	1	0	60 Min.	0
11	BCPIR611 E	DSE3.2	Industrial Relations	100	4	1	0	60 Min.	0
12	BCPPB612 E	DSE4.1	Product and Brand Management	100	4	1	0	60 Min.	0
13	BCPRM61 3E	GE 2	Research Methods	100	4	1	0	60 Min.	0
14	BCPPM61 4E		Project Management	100	4	1	0	60 Min.	0


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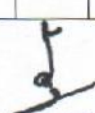
Programme: B. Com (Hons.) ABST

Semester-I

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB 101)	Principles of Management	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB102)	Business Economics	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 103)	Computer Applications	C	100	4	0	1	60 Min.	60 Min
4.	B.Com (BCHAB 104)	Fundamentals of Accounting	C	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB 105)	Business Mathematics	C	100	4	1	0	60 Min.	0
6.	B.Com (BCHAB106)	Financial Accounting	C	100	4	1	0	60 Min.	0

Semester-II

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB201)	Legal Aspects of Business	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB 202)	Economic Environment	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 203)	Business Statistics	C	100	4	1	0	60 Min.	0
4.	B.Com (BCHAB 204)	Advanced Accounting	C	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB205)	Cost Accounting	C	100	4	1	0	60 Min.	0
6.	B.Com (BCHAB206)	Financial Management	C	100	4	1	0	60 Min.	0
7.	B.Com (BCHAB 207)	Industry Visit Report	C	100	0	0	0		

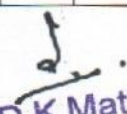

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Semester-III

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB 301)	Business Communication	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB 302)	Macro Economics	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 303)	Principles & Practices of Auditing	C	100	4	1	0	60 Min.	0
4.	B.Com (BCHAB 304)	Corporate Accounting	C	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB 305)	Cost Analysis & Control	C	100	4	1	0	60 Min.	0
6.	B.Com (BCHAB 306)	Quantitative Techniques	C	100	4	1	0	60 Min.	0

Semester-IV

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB 401)	Business Ethics	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB 402)	International Financial System	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 403)	Management Accounting	C	100	4	1	0	60 Min.	0
4.	B.Com (BCHAB 404E)	Project Management*	E	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB 405E)	Event Management *	E	100	4	1	0	60 Min.	0
6.	B.Com (BCHAB 406E)	Production & Operation Management*	E	100	4	1	0	60 Min.	0
7.	B.Com (BCHAB 407)	Income Tax Law & Practice	C	100	4	1	0	60 Min.	0
8.	B.Com (BCHAB 408)	Strategic Financial Management	C	100	4	1	0	60 Min.	0


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Semester-V

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB 501)	Environment Management	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB 502)	Company Law	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 503)	Business Budgeting	C	100	4	1	0	60 Min.	0
4.	B.Com (BCHAB 504)	Entrepreneurship and Skill Development	C	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB 505)	Goods & Service Tax	C	100	4	1	0	60 Min.	0
6.	B.Com (BCHAB 506E)	Security Analysis & Portfolio Management*	E	100	4	1	0	60 Min.	0
7.	B.Com (BCHAB 507E)	Advance Statistics *	E	100	4	1	0	60 Min.	0
8.	B.Com (BCHAB 508E)	Merchant Banking & Corporate Restructuring*	E	100	4	1	0	60 Min.	0
9.	B.Com (BCHAB 509)	Summer Training Report	C	100	0	0	0		

Semester-VI

S. No.	Course Code	Course Title	C/E	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	B.Com (BCHAB 601)	Marketing Management	C	100	4	1	0	60 Min.	0
2.	B.Com (BCHAB 602)	Banking Service & Operation	C	100	4	1	0	60 Min.	0
3.	B.Com (BCHAB 603)	Business Informatics	C	100	4	1	0	60 Min.	0
4.	B.Com (BCHAB 604)	Business Research Methods	C	100	4	1	0	60 Min.	0
5.	B.Com (BCHAB 605E)	Financial Reporting *	E	100	4	1	0	60 Min.	0


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6	B.Com (BCHAB 606E)	Financial & Commodity Derivatives*	E	100	4	1	0	60 Min.	0
7	B.Com (BCHAB60 7E)	Risk Management –Tools& Application*	E	100	4	1	0	60 Min.	0
8	B.Com (BCHAB 608)	Corporate Tax Management	C	100	4	1	0	60 Min.	0
9	B.Com (BCHAB 609)	Report on Recent Trends in Finance	C	100	0	0	0		

*select any one course out of the elective given


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School of Business Management
Programme: B.Com (Hons.) Business Administration

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 101	Fundamentals of Accounting	C	100	4	1	0	60 Min.	0
2.	BCHBA 102	Business Economics	C	100	4	1	0	60 Min.	0
3.	BCHBA 103	Principles of Management	C	100	4	1	0	60 Min.	0
4.	BCHBA 104	Computer Applications	C	100	4	0	1	60 Min.	60 Min.
5.	BCHBA 105	Marketing Management	C	100	4	1	0	60 Min.	0
6.	BCHBA 106	Business Organisation	C	100	4	1	0	60 Min.	0

Semester-II

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 201	Financial Accounting	C	100	4	1	0	60 Min.	0
2.	BCHBA 202	Economic Environment	C	100	4	1	0	60 Min.	0
3.	BCHBA 203	Business Communication	C	100	4	1	0	60 Min.	0
4.	BCHBA 204	Legal Aspects of Business	C	100	4	1	0	60 Min.	0
5.	BCHBA 205	Consumer Behaviour	C	100	4	1	0	60 Min.	0
6.	BCHBA 206	International Business	C	100	4	1	0	60 Min.	0
7.	BCHBA 207P	Industry Visit Report	C	100	0	0	0		


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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 301	Business Statistics	C	100	4	1	0	60 Min.	0
2.	BCHBA 302	Macro Economics	C	100	4	1	0	60 Min.	0
3.	BCHBA 303	Human Resource Management	C	100	4	1	0	60 Min.	0
4.	BCHBA 304	Product & Brand management	C	100	4	1	0	60 Min.	0
5.	BCHBA 305	Operation Management	C	100	4	1	0	60 Min.	0
6.	BCHBA 306	Marketing of Services	C	100	4	1	0	60 Min.	0

Semester-IV

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 401	Management Accounting	C	100	4	1	0	60 Min.	0
2.	BCHBA 402	Financial Management	C	100	4	1	0	60 Min.	0
3.	BCHBA 403	Business Ethics	C	100	4	1	0	60 Min.	0
4.	BCHBA 404E	Industrial Relations	E	100	4	1	0	60 Min.	0
5	BCHBA 405E	Labour Welfare & Social Security	E	100	4	1	0	60 Min.	0
6	BCHBA 406E	Talent Management	E	100	4	1	0	60 Min.	0
7	BCHBA 407	Rural Marketing	C	100	4	1	0	60 Min.	0
8	BCHBA 408	Digital Marketing	C	100	4	1	0	60 Min.	0

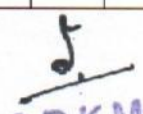

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Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 501	International Financial System	C	100	4	1	0	60 Min.	0
2.	BCHBA 502	Income Tax Law & Practice	C	100	4	1	0	60 Min.	0
3.	BCHBA 503	Company law	C	100	4	1	0	60 Min.	0
4.	BCHBA 504	Entrepreneurship & Skill Development	C	100	4	1	0	60 Min.	0
5.	BCHBA 505E	Principles & Practices of Insurance	E	100	4	1	0	60 Min.	0
6.	BCHBA 506E	Sales & Distribution Management	E	100	4	1	0	60 Min.	0
7.	BCHBA 507E	Supply Chain Management	E	100	4	1	0	60 Min.	0
8.	BCHBA 508	Strategic Management	C	100	4	1	0	60 Min.	0
9.	BCHBA 509P	Summer Training Report	C	100	0	0	0		

Semester-VI

S. No.	Course Code	Course Nomenclature	Course Category (core/elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHBA 601	Project Management	C	100	4	1	0	60 Min.	0
2.	BCHBA 602	Principles & Practices of Auditing	C	100	4	1	0	60 Min.	0
3.	BCHBA 603E	Organization Behavior	E	100	4	1	0	60 Min.	0
4.	BCHBA 604E	Human Resource Development	E	100	4	1	0	60 Min.	0


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5.	BCHBA 605E	History of Management Thought	E	100	4	1	0	60 Min.	0
6.	BCHBA 606E	Business Research Methods	E	100	4	1	0	60 Min.	0
7.	BCHBA 607	Business Informatics	C	100	4	1	0	60 Min.	0
8	BCHBA 608	Environmental Management	C	100	4	1	0	60 Min.	0
9	BCHBA 609P	Report on Recent Trends in Marketing	C	100	0	0	0		


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School of Business & Management
Programme: BCOM (H) EAFM

Semester 1

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHEA 101	GE1	Computer Application	100	4	1	0	60 Min.	0
2.	BCHE A102	DSC 1.1	Fundamental of Accounting	100	4	1	0	60 Min.	0
3.	BCHE A103	DSC 1.2	Micro Economics	100	4	1	0	60 Min.	0
4.	BCHE A104	DSC 1.3	Principles and Practices of Management	100	4	1	0	60 Min.	0
5.	BCHE A105	DSC 1.4	Indian Economy	100	4	1	0	60 Min.	0
6.	BCHE A106	AECC 1	English	100	4	1	0	60 Min.	0

Semester 2

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A201	GE 2	Financial Accounting	100	4	1	0	60 Min.	0
2.	BCHE A202	DSC 2.5	Commercial Law	100	4	1	0	60 Min.	0
3.	BCHE A203	DSC 2.6	Indian Banking & Financial System	100	4	1	0	60 Min.	0
4.	BCHE A204	DSC 2.7	Financial Management	100	4	1	0	60 Min.	0
5.	BCHE A205	DSC 2.8	Monetary Policy	100	4	1	0	60 Min.	0
6.	BCHE A206	AECC 2	Hindi	100	4	1	0	60 Min.	0
7.	BCHE A207		Industrial Tour	100					


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Semester 3

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A301	SEC 1	Business Communication	100	4	1	0	60 Min.	1
2.	BCHE A302	DSC 3.9	Cooperation & Rural Development	100	4	1	0	60 Min.	0
3.	BCHE A303	DSC 3.10	Business Statistics	100	4	1	0	60 Min.	0
4.	BCHE A304	DSC 3.11	International Business	100	4	1	0	60 Min.	0
5.	BCHE A305	DSC 3.12	Macro Economics	100	4	1	0	60 Min.	0
6.	BCHE A306	GE 3	Company Law	100	4	1	0	60 Min.	0

Semester 4

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A401	GE 4	Business Ethics & Corporate Governance	100	4	1	0	60 Min.	0
2.	BCHE A402	DSC 4.13	Public Finance	100	4	1	0	60 Min.	0
3.	BCHE A403	DSC 4.14	Mathematics for Business Economics	100	4	1	0	60 Min.	0
4.	BCHE A404	DSC 4.15	Management Accounting	100	4	1	0	60 Min.	0
5.	BCHE A405	SEC 2	E- Commerce	100	4	1	0	60 Min.	0
6.	BCHE A406	AECC 3	Environment Management	100	4	1	0	60 Min.	0


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Semester 5

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHEA 501	DSC 5.16	Quantitative Technique	100	4	1	0	60 Min.	0
2.	BCHEA 502	DSC 5.17	International Finance	100	4	1	0	60 Min.	0
3.	BCHEA 503	DSC 5.18	Business Budgeting	100	4	1	0	60 Min.	0
4.	BCHEA 504	SEC 3	Entrepreneurship and Skill Development	100	4	1	0	60 Min.	0
5.	BCHEA 505E	DSE 1	Corporate Accounting	100	4	1	0	60 Min.	0
	BCHEA 506E		Event Management						
6.	BCHEA 507E	DSE 2	Cost and Management Audit	100	4	1	0	60 Min.	0
	BCHEA 508E		Human Resource Management						
7.	BCHEA 509		Summer Training Report	100					

Semester 6

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHEA 601	DSC 6.19	Security Analysis & Portfolio Management	100	4	1	0	60 Min.	0
2.	BCHEA 602E	DSE 3	Cost Accounting	100	4	1	0	60 Min.	0
	BCHEA 603E		Industrial Relations						


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3	BCHE A 604E	DSE 4	Income Tax- Law &Practice	100	4	1	0	60 Min.	0
	BCHE A 605E		Marketing Management						
4	BCHEA 606E	DSC	Research Methodology	100	4	1	0	60 Min.	0
5	BCHEA 607E	DSC 6.20	Project Management	100	4	1	0	60 Min.	0
6	BCHEA 608	SEC 4	Sales Promotion & Personal Selling	100	4	1	0	60 Min.	0
7	BCHEA 609R		Survey Report on Economic Issues	100					



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SCHOOL OF EDUCATION

Programme: Master of Education

Semester I					
Course Code	Course Title	External Marks	Internal Marks	Total	Credits
M.ED.-1-01	Psychology of learning and Development	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-1-02	Historical , Political and Economy of Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-103	Educational Studies	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-1-04	Introduction to Educational Research	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-1-05-I	Communication and Expository Writing	25	25 (15 for two assignment and 10 for two tests)	50	2
M.Ed.-1-05-II	Self - Development and Yoga	25	25 (15 for two assignment and 10 for two tests)	50	2
M.Ed.-1-05-III	ICT	25	25 (15 for two assignment and 10 for two tests)	50	2
Total				550	22
Semester II					
M.Ed.-2-01	Philosophical Foundation of Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-2-02	Sociological Foundation of Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-2-03	Curriculum Studies	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-2-04	Pre-service and In-service Teacher Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-2-05-II	Dissertation	-	50	50	2


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M.Ed.-2-06	Internship in Teacher Training Institution (3 weeks)	-	100	100	4
Total				550	22
Semester III					
M.Ed.-3-01	Educational Planning and Management at Elementary /Secondary OR Issues Curriculum and Assessment at secondary level	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-3-02	Advanced Educational Research	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-3-03	Educational Technology and instructional process	70	30	100	4
M.Ed.-3-04	Perspectives , Research and Issues in Teacher Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-3-05-II	Academic Writing	35	15	50	2
M.Ed.-3-06-III	Dissertation			50	2
Total				500	20
Semester -IV					
M.Ed.-4-01-G1(II)	• Pedagogy of Social Science Education at Elementary / Secondary Education	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-4-02-G1(III)	• Pedagogy of Language Education at Elementary / Secondary Education	70	30 (15 for two assignment and 15 for two tests)	100	4


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M.Ed.-4-03-G1 (I)	Educational Planning, Management and Finance at Elementary / Secondary Level	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed.-4-04-G1 (II)	Educational Administration of Elementary / Secondary Level	70	30 (15 for two assignment and 15 for two tests)	100	4
M.Ed. 4.05	Dissertation			150	6
Total				550	22


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SCHOOL OF EDUCATION

Programme: B.Sc. B. Ed.

B.SC.B.Ed. I SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-101	Essential Language Skills-I (English)	35	05	05	03	02	15	50
BSCBED-102.I	Yoga ,Health and Personality (Theory)	70	05	05	15	5	30	100
BSCBED-102.II	Yoga and Health (Practical)	30	-	-	-	-	20	50
BSCBED-103.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-103.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75
BSCBED-103.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-104.I	Botany-I (Introductory Microbiology)	60	05	05	03	02	15	75
BSCBED-104.II	Botany –II (Algae, Fungi and lichen)	60	05	05	03	02	15	75
BSCBED-104.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-105.I	Zoology –I (Animal Diversity)	60	05	05	03	02	15	75
BSCBED-105.II	Zoology –II (Cell and Molecular Biology)	60	05	05	03	02	15	75
BSCBED-105.III	Zoology (Practical)	30	-	-	-	-	20	50
BSCBED-106.I	Mathematics -I(Calculus)	60	05	05	03	02	15	75
BSCBED-106.II	Mathematics –II (Differential Equations)	60	05	05	03	02	15	75
BSCBED-106.III	Mathematics –(Project)	30	-	-	-	-	20	50


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BSCBED-107.I	Physics –I (Optics)	60	05	05	03	02	15	75
BSCBED-107.II	Physics –II (Electromagnetism)	60	05	05	03	02	15	75
BSCBED-107.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed. II SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-201	Learning and Teaching	70	05	05	15	05	30	100
BSCBED-202	Computer application in Education	35	5	5	3	2	15	50
BSCBED-203.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-203.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75
BSCBED-203.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-204.I	Botany-I (Bryophyta and Pteridophyta)	60	05	05	03	02	15	75
BSCBED-204.II	Botany –II(Gymnosperms and angiosperms)	60	05	05	03	02	15	75
BSCBED-204.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-205.I	Zoology –I (Genetics and Evolution)	60	05	05	03	02	15	75
BSCBED-205.II	Zoology –II (Developmental Biology)	60	05	05	03	02	15	75
BSCBED-205.III	Zoology (Practical)	30	-	-	-	-	20	50
BSCBED-206.I	Mathematics - I(Numerical Analysis)	60	05	05	03	02	15	75
BSCBED-206.II	Mathematics –II (Discrete	60	05	05	03	02	15	75


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	Mathematics)							
BSCBED-206.III	Mathematics –(Project)	30	-	-	-	-	20	50
BSCBED-207.I	Physics –I (Electronic Devices and Circuits)	60	05	05	03	02	15	75
BSCBED-207.II	Physics –II (Solid State Physics)	60	05	05	03	02	15	75
BSCBED-207.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed.III SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-301	General Hindi-I	35	05	05	03	02	15	50
BSCBED-302	Knowledge and Curriculum	70	05	05	15	05	30	100
BSCBED-303.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-303.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75
BSCBED-303.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-304.I	Botany-I (Angiosperm Taxonomy and Economic Botany)	60	05	05	03	02	15	75
BSCBED-304.II	Botany –II (Plant Morphology and Anatomy)	60	05	05	03	02	15	75
BSCBED-304.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-305.I	Zoology –I (Structure and Function of Non Chordates)	60	05	05	03	02	15	75
BSCBED-305.II	Zoology –II (Animal Physiology and Endocrinology)	60	05	05	03	02	15	75
BSCBED-305.III	Zoology (Practical)	30	-	-	-	-	20	50


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BSCBED-306.I	Mathematics -I(Algebra of Matrices)	60	05	05	03	02	15	75
BSCBED-306.II	Mathematics –II (Abstract Algebra)	60	05	05	03	02	15	75
BSCBED-306.III	Mathematics –(Project)	30	-	-	-	-	20	50
BSCBED-307.I	Physics –I (Mechanics, waves and oscillations)	60	05	05	03	02	15	75
BSCBED-307.II	Physics –II (Theory of Relativity and Modern Physics)	60	05	05	03	02	15	75
BSCBED-307.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed. IV SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-401	Essential language skill-II (English)	35	05	05	03	02	15	50
BSCBED-402	Assessment for Learning	70	05	05	15	05	30	100
	Pedagogy subjects							50+50
BSCBED-403.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-403.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75
BSCBED-403.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-404.I	Botany-I (Plant Physiology(Part-I))	60	05	05	03	02	15	75
BSCBED-404.II	Botany –II (Plant Physiology(Part-II))	60	05	05	03	02	15	75
BSCBED-404.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-405.I	Zoology –I (Biochemistry and Immunology)	60	05	05	03	02	15	75


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BSCBED-405.II	Zoology –II (Structure and functions of chordate)	60	05	05	03	02	15	75
BSCBED-405.III	Zoology (Practical)	30	-	-	-	-	20	50
BSCBED-406.I	Mathematics -I(Real Analysis)	60	05	05	03	02	15	75
BSCBED-406.II	Mathematics –II (Optimization Techniques)	60	05	05	03	02	15	75
BSCBED-406.III	Mathematics –(Project)	30	-	-	-	-	20	50
BSCBED-407.I	Physics –I (Thermodynamics and Statistical Physics)	60	05	05	03	02	15	75
BSCBED-407.II	Physics –II (Elementary of Quantum Mechanics)	60	05	05	03	02	15	75
BSCBED-407.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed.V SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-501	Environmental Education	35	05	05	03	02	15	50
BSCBED-502	Contemporary India and Education	70	05	05	15	05	30	100
BSCBED-503.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-503.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75
BSCBED-503.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-504.I	Botany-I (Cell Biology and Immunology)	60	05	05	03	02	15	75
BSCBED-504.II	Botany –II (Genetics and Plant Breeding)	60	05	05	03	02	15	75


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BSCBED-504.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-505.I	Zoology –I (Micro Biology and Bio Technology)	60	05	05	03	02	15	75
BSCBED-505.II	Zoology –II (Applied Zoology and Ethnology)	60	05	05	03	02	15	75
BSCBED-505.III	Zoology (Practical)	30	-	-	-	-	20	50
BSCBED-506.I	Mathematics -I(Vector Calculus and Linear Algebra)	60	05	05	03	02	15	75
BSCBED-506.II	Mathematics –II (Mechanics)	60	05	05	03	02	15	75
BSCBED-506.III	Mathematics –(Project)	30	-	-	-	-	50	50
BSCBED-507.I	Physics –I (Mathematical Physics)	60	05	05	03	02	15	75
BSCBED-507.II	Physics –II (Atomic and Molecular Physics)	60	05	05	03	02	15	75
BSCBED-507.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed.VI SEMESTER

Course Code	Course	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BSCBED-601	Childhood and Growing Up	70	5	5	15	5	30	100
BSCBED-602	General Hindi-II	35	05	05	03	02	15	50
BSCBED-P.2	School Internship (Two Weeks)	-	-	-	-	-	50	50
BSCBED-603.I	Chemistry –I (Physico-inorganic Chemistry)	60	05	05	03	02	15	75
BSCBED-603.II	Chemistry-II (Physico-organic Chemistry)	60	05	05	03	02	15	75


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BSCBED-603.III	Chemistry (Practical)	30	-	-	-	-	20	50
BSCBED-604.I	Botany-I (Molecular Biology and Biochemistry)	60	05	05	03	02	15	75
BSCBED-604.II	Botany –II (Ecology and Applications of Biotechnology)	60	05	05	03	02	15	75
BSCBED-604.III	Botany (Practical)	30	-	-	-	-	20	50
BSCBED-605.I	Zoology –I (Ecology and Biostatistics)	60	05	05	03	02	15	75
BSCBED-605.II	Zoology –II (Environmental Biology)	60	05	05	03	02	15	75
BSCBED-605.III	Zoology (Practical)	30	-	-	-	-	20	50
BSCBED-606.I	Mathematics - I(Mathematical Statistics)	60	05	05	03	02	15	75
BSCBED-606.II	Mathematics –II (Laplace and Fourier Transformation)	60	05	05	03	02	15	75
BSCBED-606.III	Mathematics –(Project)	30	-	-	-	-	50	50
BSCBED-607.I	Physics –I (Nuclear and Particle Physics)	60	05	05	03	02	15	75
BSCBED-607.II	Physics –II (Experimental Techniques)	60	05	05	03	02	15	75
BSCBED-607.III	Physics –III (Practical)	30	-	-	-	-	20	50

B.Sc.B.Ed. VII SEMESTER

Course Code	Course	External	Internal					Total (Ext. + Int.)
			I T est	II T est	Ass ign	Att end	Tot al	
BSCBED-701	Gender , School and Society	35	5	5	3	2	15	50
BSCBED-702	Creating an Inclusive School	35	5	5	3	2	15	50


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BSCBED-703	Pedagogical Inputs	-	-	-	-	-	100	100
BSCBED-P.2	School Internship (Two Weeks)	-	-	-	-	-	50	50
	Simulative teaching and Learning							
	Mastery even sem teaching skills							
	Innovative Lesson							
	Cooperative learning							
	Constructivism							
	problem solving							
	project methods							
BSCBED-P.3	School Internship (Sixteen Weeks)	-	-	-	-	-	300	300

B.Sc. B.Ed. VIII SEMESTER

Course Code	Course	External	Internal					Total (Ext. + Int.)
			I Test	II Test	Assign	Attend.	Total	
BSCBED-801	Drama and Art in Education	35	5	5	3	2	15	50
BSCBED-802	Guidance and Counselling in Schools	35	5	5	3	2	15	50
BSCBED-803	Peace and Value Education	35	5	5	3	2	15	50
BSCBED-804	Indian Constitution and Human Rights	35	5	5	3	2	15	50
BSCBED-P.4	Post Internship	150	-	-	-	-	150	300
	Criticism Lesson							50+50
	Final Practical							50


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SCHOOL OF EDUCATION

Programme: M.PHIL. (Education)

FIRST SEMESTER

S. No.	Course Code	Course Name	W/L	S/P	Exam.Hrs.	Credit	E.A./Exam.	I.A./P
Theory 1	FC 01	Foundation of educational research	10	3	3	13.5	100	50
Theory 2	FC 02	Elective papers (any one) 1) advance educational administration 2) advance educational psychology 3) educational statistics and statistical inferences	10	3	3	13.5	100	50
Practical 1	SC 02	Proposal for dissertation and review of	2	2	-	4.5		50


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3		research studies						
			27	16		45	200	150

FC: FOUNDATION COURSE, SC: SUPPORTING COURSE, W/L: WEEKLY LECTURE, I.A.: INTERNAL ASSESSMENT, E.A.: EXTERNAL ASSESSMENT, S: SEMINAR, P: PRACTICUM

Second Semester

S. N.	Course Code	Course Name	W/L	S/P	Exam. Hrs.	Credit	E.A./Exam.	I.A./P
Theory 1	FC 03	PSYCHO-SOCIAL BASIS OF EDUCATIONAL RESEARCH	10	3	3	13.5	100	50
Theory 2	FC 04	DISSERTATION	14	13		27	100+100(viva)	100
			19	24		45	300	150


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FC: FOUNDATION COURSE, SC: SUPPORTING COURSE, W/L: WEEKLY LECTURE
I.A.: INTERNAL ASSESSMENT, S: SEMINAR,

E.A.: EXTERNAL ASSESSMENT, M P T : MASTER OF PRACTICE TEACHING SKILLS.



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SCHOOL OF EDUCATION

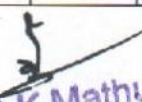
Programme: B. Ed.

B.Ed. I SEMESTER

Paper Code	Paper	External	Internal					Total
			I test	II test	Assign	Attend	Total	
BEDCG101	Childhood and Growing up	70	05	05	15	05	30	100
BEDCE102	Contemporary India and Education	70	05	05	15	05	30	100
BEDLC103	Language across the curriculum	35	05	05	03	02	15	50
BEDUD104	Understanding Disciplines and Subjects	35	05	05	03	02	15	50
BEDY0105	Yoga , Health and Personality	70	05	05	15	05	30	50
BEDY0106 P	Yoga Practical	30	-	-	-	-	30	30

B.Ed.II SEMESTER

Paper Code	Paper	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BEDTL201	Teaching and Learning	70	05	05	15	05	30	50
BEDAL203	Assessment for Learning	70	05	05	15	05	30	100
BEDDA202	Drama and Art in Education	35	05	05	03	02	15	75
BEDCE204	Computer Application in Education	35	05	05	03	02	15	75
BEDEN205	Pedagogy of English	35	05	05	03	02	15	50
BEDSA206	Pedagogy of Sanskrit	35	05	05	03	02	15	75
BEDTL201	Teaching and Learning	70	05	05	15	05	30	100
BEDAL203	Assessment for Learning	70	05	05	15	05	30	100
BEDDA202	Drama and Art in Education	35	05	05	03	02	15	50
BEDCE204	Computer Application in Education	35	05	05	03	02	15	50
BEDEN205	Pedagogy of English	35	05	05	03	02	15	50
BEDSA206	Pedagogy of Sanskrit	35	05	05	03	02	15	50
BEDCP207	Pedagogy of Commercial Practices	35	05	05	03	02	15	50
BEDMA208	Pedagogy of Mathematics	35	05	05	03	02	15	50
BEDPS209	Pedagogy of Political Science	35	05	05	03	02	15	50
BEDCH210	Pedagogy of Chemistry	35	05	05	03	02	15	50
BEDGS211	Pedagogy of General Science	35	05	05	03	02	15	50


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 Jaipur

Paper Code	Paper	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BEDUR212	Pedagogy of Urdu	35	05	05	03	02	15	50
BEDHS213	Pedagogy of History	35	05	05	03	02	15	50
BEDDP214	Pedagogy of Drawing and Painting	35	05	05	03	02	15	50
BEDEC215	Pedagogy of Economics	35	05	05	03	02	15	50
BEDHI216	Pedagogy of Hindi	35	05	05	03	02	15	50
BEDGF217	Pedagogy of Geography	35	05	05	03	02	15	50
BEDBK218	Pedagogy of Book Keeping	35	05	05	03	02	15	50
BEDBI219	Pedagogy of Biology	35	05	05	03	02	15	50
BEDPY220	Pedagogy of Physics	35	05	05	03	02	15	50
BEDSS221	Pedagogy of Social Science	35	05	05	03	02	15	50
BEDCS222	Pedagogy of Computer Science	35	05	05	03	02	15	50
BEDPT225P	Internship (04 weeks- Practical)	-	-	-	-	-	100	100

B.Ed.III SEMESTER

Paper Code	Paper	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BEDKC301	Knowledge and Curriculum	70	05	05	15	05	30	100
BEDIT302	Critical Understanding of ICT	35	05	05	03	02	15	35
BEDPT303P	School Internship (16 weeks- Practical)	-	-	-	-	-	300	300

B.Ed. IV SEMESTER

Paper Code	Paper	External	Internal					Total
			I test	II test	Assign.	Attend.	Total	
BEDGS401	Gender, School and Society	35	05	05	03	02	15	50
BEDIS402	Creating an Inclusive School	35	05	05	03	02	15	50
BEDPE403	Peace Education	35	05	05	03	02	15	50
BEDES404	Environmental Education	35	05	05	03	02	15	50
BEDPT405P	Post Internship (Practical)	100	-	-	-	-	100	100


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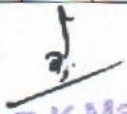
SCHOOL OF EDUCATION

Programme: BA Pass Course

Sr. No.	Course	Semester	Subject Code	Subject Title	External	Weightage of Internal Marks					Internal (to be filled)				
						I mid Term	II Mid Term	Assignment	Attendance	Total	I mid Term	II Mid Term	Assignment	Attendance	Total
1	BA(Pass course)	1	BAPLS101	Essential Language Skills –I	35	05	05	03	02	15	20	20	30	10	80
2	BA(Pass course)	1	BAPSG102	Sociology-I (Introduction to Sociology)	70	05	05	15	05	30	20	20	30	10	80
3	BA(Pass course)	1	BAPSG103	Sociology-II (Indian Society)	70	05	05	15	05	30	20	20	30	10	80
4	BA(Pass course)	1	BAPHI104	History-I (Ancient History of India- Early times to 185 BC)	70	05	05	15	05	30	20	20	30	10	80
5	BA(Pass course)	1	BAPHI105	History-II (History of Rajasthan- Early Times to 1750 AD)	70	05	05	15	05	30	20	20	30	10	80
6	BA(Pass course)	1	BAPPS106	Political Science-I (Introduction to Political Science)	70	05	05	15	05	30	20	20	30	10	80
7	BA(Pass course)	1	BAPPS107	Political Science-II (Introduction to Political Theory)	70	05	05	15	05	30	20	20	30	10	80
8	BA(Pass course)	1	BAPEL108	English Literature –I (Poetry and Drama)	70	05	05	15	05	30	20	20	30	10	80
9	BA(Pass course)	1	BAPEL109	English Literature –II (Prose and Fiction)	70	05	05	15	05	30	20	20	30	10	80


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10	BA(Pass course)	1	BAPGO110	Geography-I (Physical Geography-I)	60	05	05	03	02	15	20	20	30	10	80
11	BA(Pass course)	1	BAPGO111	Geography-II (Geography of Rajasthan-I)	60	05	05	03	02	15	20	20	30	10	80
12	BA(Pass course)	1	BAPGO112 P	Geography-III (Practical)	30	-	-	-	-	20	-	-	-	-	60
13	BA(Pass course)	1	BAPEC113	Economics –I (Micro Economics-Basics)	70	05	05	15	05	30	20	20	30	10	80
14	BA(Pass course)	1	BAPEC114	Economics – II (Micro Economics-Advanced)	70	05	05	15	05	30	20	20	30	10	80
15	BA(Pass course)	1	BAPPY115	Psychology-I (Introduction to Psychology)	60	05	05	03	02	15	20	20	30	10	80
16	BA(Pass course)	1	BAPPY116	Psychology-II (Human Development)	60	05	05	03	02	15	20	20	30	10	80
17	BA(Pass course)	1	BAPPY117 P	Psychology - III(Practical)	30	-	-	-	-	20	-	-	-	-	60
18	BA(Pass course)	1	BAPHL118	Hindi Literature-I (fgUnh Hkk"kk dk mn~Hko ,oa fodkl)	70	05	05	15	05	30	20	20	30	10	80
19	BA(Pass course)	1	BAPHL119	Hindi Literature-II (Hkkjrh; dkO;'kkL=)	70	05	05	15	05	30	20	20	30	10	80
20	BA(Pass course)	1	BAPDP120	Drawing and Painting –I(Fundamental of Visual Art and Indian Folk Art)	70	05	05	15	05	30	20	20	30	10	80
21	BA(Pass course)	1	BAPDP121 P	Drawing and Painting-II (Practical-Rendering)	30	-	-	-	-	20	-	-	-	-	60


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22	BA(Pass course)	1	BAPDP122 P	Drawing and Painting -III (Practical- Still Life)	30	-	-	-	-	20	-	-	-	-	60
23	BA(Pass course)	1	BAPHS123	Home Science-I (Physiology / Applied Life Science)	60	05	05	03	02	15	20	20	30	10	80
24	BA(Pass course)	1	BAPHS124	Home Science-II (Family Resource Management & Housing)	60	05	05	03	02	15	20	20	30	10	80
25	BA(Pass course)	1	BAPHS125 P	Home Science-III (Practical)	30	-	-	-	-	20	-	-	-	-	60
26	BA(Pass course)	1	BAPUL126	Urdu Literature -I	70	05	05	15	05	30	20	20	30	10	80
27	BA(Pass course)	1	BAPUL127	Urdu Literature-II	70	05	05	15	05	30	20	20	30	10	80
28	BA(Pass course)	1	BAPSL128	Sanskrit Literature -I	70	05	05	15	05	30	20	20	30	10	80
29	BA(Pass course)	1	BAPSL129	Sanskrit Literature-II	70	05	05	15	05	30	20	20	30	10	80
30	BA(Pass course)	1	BAPMU130	Music -I	60	05	05	03	02	15	20	20	30	10	80
31	BA(Pass course)	1	BAPMU131	Music -II	60	05	05	03	02	15	20	20	30	10	80
32	BA(Pass course)	1	BAPMU132 P	Music -III (Practical)	30	-	-	-	-	20	-	-	-	-	60


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SCHOOL OF EDUCATION

Programme: BA B. Ed.

Subject Code	Subject Title	Weightage of Internal Marks						Internal (to be filled)				
		External	I mid Term	II Mid Term	Assignment	Attendance	Total	I mid Term	II Mid Term	Assignment	Attendance	Total
BABED101	Essential Language Skills-I	35	05	05	03	02	15	20	20	30	10	80
BABED102	Sociology-I (Introduction to Sociology)	70	05	05	15	05	30	20	20	30	10	80
BABED103	Sociology-II (Indian Society)	70	05	05	15	05	30	20	20	30	10	80
BABED104	History-I (Ancient History of India- Early times to 185 BC)	70	05	05	15	05	30	20	20	30	10	80
BABED105	History-II (History of Rajasthan- Early Times to 1750 AD)	70	05	05	15	05	30	20	20	30	10	80
BABED106	Political Science-I (Introduction to Political Science)	70	05	05	15	05	30	20	20	30	10	80
BABED107	Political Science-II (Introduction to Political Theory)	70	05	05	15	05	30	20	20	30	10	80
BABED108	English Literature -I (Poetry and Drama)	70	05	05	15	05	30	20	20	30	10	80
BABED109	English Literature -II (Prose and Fiction)	70	05	05	15	05	30	20	20	30	10	80
BABED110	Geography-I (Physical Geography)	60	05	05	03	02	15	20	20	30	10	80
BABED111	Geography-II (Geography of Rajasthan)	60	05	05	03	02	15	20	20	30	10	80
BABED112P	Geography-III (Practical)	30	-	-	-	-	20	-	-	-	-	60
BABED113	Economics -I (Micro Economics- Basics)	70	05	05	15	05	30	20	20	30	10	80
BABED114	Economics -II (Micro Economics - Advanced)	70	05	05	15	05	30	20	20	30	10	80
BABED115	Psychology-I (Introduction to Psychology)	60	05	05	03	02	15	20	20	30	10	80
BABED116	Psychology-II (Human Development)	60	05	05	03	02	15	20	20	30	10	80
BABED117P	Psychology - III(Practical)	30	-	-	-	-	20	-	-	-	-	60
BABED118	Hindi Literature-I (fgUnh Hkk"kk dk mn-Hko ,oa fodkl)	70	05	05	15	05	30	20	20	30	10	80
BABED119	Hindi Literature-II (भारतीय कालशास्त्र)	70	05	05	15	05	30	20	20	30	10	80


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BABED120	Drawing and Painting-I(Fundamental of Visual Art and Indian Folk Art)	70	05	05	15	05	30	20	20	30	10	80
BABED121P	Drawing and Painting-II (Practical- Rendering)	30	-	-	-	-	20	-	-	-	-	60
BABED122P	Drawing and Painting-III (Practical- Still Life)	30	-	-	-	-	20	-	-	-	-	60
BABED123	Home Science-I (Physiology / Applied Life Science)	60	05	05	03	02	15	20	20	30	10	80
BABED124	Home Science-II (Family Resource Management & Housing)	60	05	05	03	02	15	20	20	30	10	80
BABED125P	Home Science-III (Practical)	30	-	-	-	-	20	-	-	-	-	60
BABED126	Urdu Literature -I	70	05	05	15	05	30	20	20	30	10	80
BABED127	Urdu Literature -II	70	05	05	15	05	30	20	20	30	10	80
BABED128	Sanskrit Literature-I	70	05	05	15	05	30	20	20	30	10	80
BABED129	Sanskrit Literature-II	70	05	05	15	05	30	20	20	30	10	80
BABED130	Music -I	60	05	05	03	02	15	20	20	30	10	80
BABED131	Music -II	60	05	05	03	02	15	20	20	30	10	80
BABED132P	Music -III (Practical)	30	-	-	-	-	20	-	-	-	-	60
BABED133	Childhood and Growing Up	70	05	05	15	05	30	20	20	30	10	80
BABED134	Yoga ,Health and Personality (Theory)	70	05	05	15	05	30	20	20	30	10	80
BABED135P	Yoga ,Health and Personality (Practical)	30	-	-	-	-	20	-	-	-	-	60


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School of Language, Literature & Society

Programme: B.A. (Hons.) English

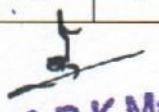
Course Type C/E	Course Code	Course Name	Credit	Contact Hours Hr per Week			Weightage	
Semester I				L	IL	P	CIE	ESE
C	BAHEN101	Introduction to Literature	6	3	2	1	30	70
C	BAHEN102	Modern English Usage and Languages	6	3	2	1	30	70
C	BAHEN103	Poetry I	6	3	2	1	30	70
C	BAHEN104	Drama I	6	3	2	1	30	70
E 1 (Students to opt for any one)	BAHEN105E	Introduction to Sociology- I	3	1	1	1	30	70
	BAHEN106E	Introduction to Psychology-I		1	1	1	30	70
E 2 (Students to opt for any one)	BAHEN107E	Compulsory Language French-I	3	1	1	1	30	70
	BAHEN108E	Compulsory Language German-I		1	1	1	30	70
Semester II				L	IL	P	CIE	ESE
C	BAHEN201	Non-Fiction Prose	6	3	2	1	30	70
C	BAHEN202	Poetry-II	6	3	2	1	30	70
C	BAHEN203	Drama-II	6	3	2	1	30	70
C	BAHEN204	Phonetics and Phonology	6	3	2	1	30	70
Elective 1 (Students to opt for any one)	BAHEN205E	Introduction to Sociology- II	3	1	1	1	30	70
	BAHEN206E	Introduction to Psychology- II		1	1	1	30	70
Elective 2 (Students to opt for any one)	BAHEN207E	Compulsory Language French-II	3	1	1	1	30	70
	BAHEN208E	Compulsory Language German-II		1	1	1	30	70

Course Type C/E	Course Code	Course Name	Credit	Contact Hours Hr per Week			Weightage	
<i>Semester III</i>				<i>L</i>	<i>IL</i>	<i>P</i>	<i>CIE</i>	<i>ESE</i>
C	BAHEN301	English Usage, Literary Forms and Devices	6	3	2	1	30	70


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C	BAHEN302	Nineteenth Century Poetry & Drama	6	3	2	1	30	70
C	BAHEN303	Nineteenth Century Prose & Fiction	6	3	2	1	30	70
C	BAHEN304	Twentieth Century Poetry and Drama	6	3	2	1	30	70
Elective 1 (Students to opt for any one)	BAHEN305E	Introduction to Sociology-III	3	1	1	1	30	70
	BAHEN306E	Introduction to Psychology-III		1	1	1	30	70
Elective 2 (Students to opt for any one)	BAHEN307E	Compulsory Language French-III	3	1	1	1	30	70
	BAHEN308E	Compulsory Language German-III		1	1	1	30	70
Semester IV				L	IL	P	CIE	ESE
C	BAHEN401	Twentieth Century Prose and Fiction	6	3	2	1	30	70
C	BAHEN402	Modern English Usages & Language II	6	3	2	1	30	70
C	BAHEN403	Indian Writing in English I	6	3	2	1	30	70
C	BAHEN404	Indian Writing in English II	6	3	2	1	30	70
Elective 1 (Students to opt for any one)	BAHEN405E	Introduction to Sociology-IV	3	1	1	1	30	70
	BAHEN406E	Introduction to Psychology-IV		1	1	1	30	70
Elective 2 (Students to opt for any one)	BAHEN407E	Compulsory Language French-IV	3	1	1	1	30	70
	BAHEN408E	Compulsory Language German-IV		1	1	1	30	70

<i>Course Type C/E</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Credit</i>	<i>Contact Hours Hr per Week</i>			<i>Weightage</i>	
<i>Semester V</i>				<i>L</i>	<i>IL</i>	<i>P</i>	<i>CIE</i>	<i>ESE</i>
C	BAHEN501	American Literature	6	3	2	1	30	70
C	BAHEN502	Major Philosophical Trends	6	3	2	1	30	70
C	BAHEN503	Critical Theories I	6	3	2	1	30	70
C	BAHEN504	World Classics in Translation	6	3	2	1	30	70
E (Students to opt)	BAHEN505E	Media Studies and Film Appreciation	6	3	2	1	30	70


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for any one)	BAHEN506E	Translation Studies		3	2	1	30	70
	BAHEN507E	Cinematic Adaptations of Classics		3	2	1	30	70
C**	BAHEN508	Environmental Studies**	2**	1	1	0	30	70
<i>Semester VI</i>				<i>L</i>	<i>IL</i>	<i>P</i>	<i>CIE</i>	<i>ESE</i>
C	BAHEN601	Indian and Western Poetics	6	3	2	1	30	70
C	BAHEN602	Regional Literatures in Translation	6	3	2	1	30	70
C	BAHEN603	Critical Theories II	6	3	2	1	30	70
C	BAHEN604	Language in Use	6	3	2	1	30	70
E (Students to opt for any one)	BAHEN605E	Introduction to Language	6	3	2	1	30	70
	BAHEN606E	English Language Teaching		3	2	1	30	70
	BAHEN607E	Introduction to Linguistics		3	2	1	30	70
Dissertation	BAHEN608D	Dissertation	6	1	1	4	30	70

<i>Course Type C/E/OE</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Credit</i>	<i>Contact Hours Hr per Week</i>			<i>Weightage</i>	
<i>Certificate Courses</i>				<i>L</i>	<i>IL</i>	<i>P</i>	<i>CIE</i>	<i>ESE</i>
OE	SOLLSEN002C	Language Proficiency Course in English	2*		1	1	40	60
OE	SOLLSEN003C	Certificate Course in Creative Writing	2*		1	1	40	60
OE	SOLLSEN004C	Certificate Course in Academic Writing	2*		1	1	40	60
OE	SOLLSEN005C	Certificate Course in Rethoric	2*		1	1	40	60
OE	SOLLSEN006C	Certificate Course in Yoga Meditation	2*		1	1	40	60

Note:

L: Lectures

IL: Integrated Learning including Seminars, Tutorials, Group Discussions, Presentations, Field Work

C: Core


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E: Elective

OE: Open Elective

CIE: Continuous Internal Examinations

ESE: End Semester Examinations

** The Courses that are Open Elective require no- Pre- requisite Knowledge of the Field hence can be opted by any student of the University.



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School of Language, Literature & Society

Programme: M.A. English (Literature & Language)

Course Type C/E	Course Code	Course Name	Credit	Contact Hours Per Week			Weightage	
Semester I				L	IL	P	CIE	ESE
C	MAENG101	<i>Modern English Usage and Grammar</i>	8	6	2	0	30	70
C	MAENG102	<i>Chaucer to Elizabethans</i>	8	6	2	0	30	70
C	MAENG103	<i>Metaphysicals to Milton</i>	8	6	2	0	30	70
C	MAENG104	<i>Augustans and Neo-Classical Writers</i>	8	6	2	0	30	70
Semester II				L	IL	P	CIE	ESE
C	MAENG201	<i>Pre-Romantics and Romantics</i>	8	6	2	0	30	70
C	MAENG202	<i>Phonetics and Spoken English</i>	8	6	2	0	30	70
C	MAENG203	<i>Literary criticism – I</i>	8	6	2	0	30	70
C	MAENG204	<i>Victorian Literature</i>	8	6	2	0	30	70

Course Type C/E	Course Code	Course Name	Credit	Contact Hours Per Week			Weightage	
Semester III				L	IL	P	CIE	ESE
C	MAENG301	<i>Linguistics and Applied Linguistics</i>	6	4	2	0	30	70
C	MAENG302	<i>American Literature</i>	6	4	2	0	30	70
C	MAENG303	<i>Critical Theories – I</i>	6	4	2	0	30	70
C	MAENG304	<i>Modern British Literature</i>	6	4	2	0	30	70


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E (Students to opt for any one)	MAENG305E	World Literatures	6	4	2	0	30	70
	MAENG306E	Afro- American Literature	6	4	2	0	30	70
	MAENG307E	Canadian and Australian Literature	6	4	2	0	30	70
Semester IV				L	IL	P	CIE	ESE
C	MAENG401	Critical Theory-II	6	4	2	0	30	70
C	MAENG402	Modern British literature II	6	4	2	0	30	70
C	MAENG403	Stylistics and Discourse Analysis	6	4	2	0	30	70
C	MAENG404	Indian English Literature	6	4	2	0	30	70
E (Students to opt for any one)	MAENG405E	Literature Post World War- II	6	4	2	0	30	70
	MAENG406E	Translation Studies	6	3	1	2	30	70
	MAENG407E	Cinematic Adaptations of Classics	6	2	2	2	30	70
Dissertation	MAENG408D	Dissertation	6	1	2	3	30	70

Total	Credits	L	IL	P	Total Contact Lectures	CIE	ESE	Total Weightage
MA English	154	102	45	7	154	690	1610	2300

Course Type C/E	Course Code	Course Name	Credit	Contact Hours Per Week			Weightage	
		Certificate Course		L	IL	P	CIE	ESE
OE	SOLLSEN006C	Certificate Course in Yoga Meditation	3	1	0	2	40	60
OE	SOLLSEN005C	Certificate Course in Rhetoric	3	1	1	1	40	60
OE	SOLLSEN004C	Certificate Course in Academic Writing	3	1	1	1	40	60
OE	SOLLSEN003C	Certificate Course in Creative Writing	3	1	1	1	40	60
OE	SOLLSEN002C	Language Proficiency Course in English	3	1	1	1	40	60
OE	SOLLSEN001C	AECC- Ability Enhancement Compulsory Course	3	1	1	1	40	60

Note:

L: Lectures

IL: Integrated Learning including Seminars, Tutorials, Group Discussions, Presentations, Field Work

C: Core

E: Elective

OE: Open Elective

CIE: Continuous Internal Examinations

ESE: End Semester Examinations

** The Courses that are Open Elective require no- Pre- requisite Knowledge of the Field hence can be opted by any student of the University.


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School of Hotel Management & Catering Technology
Programme: BHMCT

First Year

Semester- I

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-101	Food Production Foundation- I	30	70	100	35	4
BHMCT-102	F & B Service Foundation-I	30	70	100	35	4
BHMCT-103	F. O. Foundation- I	30	70	100	35	3
BHMCT-104	H. K. Foundation- I	30	70	100	35	3
BHMCT-105	Applications of Computers	15	35	50	18	2
BHMCT-106	Basic Hygiene & HACCP	15	35	50	18	2
Lib.	Library Studies	-	-	-	-	2
Practical						
BHMCT-151	Food Production Foundation- I	30	70	100	50	8
BHMCT-152	F & B Service Foundation-I	30	70	100	50	4
BHMCT-153	F. O. Foundation- I	30	70	100	50	2
BHMCT-154	H. K. Foundation- I	30	70	100	50	2
BHMCT-155	Applications of Computers	15	35	50	25	4
IPC	Inter-Personal Communication	-	-	-	-	2
	Total	285	665	950	401	42

First year

Semester – II

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-201	Food production Foundation- II	30	70	100	35	4
BHMCT-202	F & B Service Foundation-II	30	70	100	35	4
BHMCT-203	F. O. Foundation- II	30	70	100	35	4
BHMCT-204	H. K. Foundation- II	30	70	100	35	4
BHMCT-205	Food Science and Nutrition	15	35	50	18	2
BHMCT-206	Business Communication	15	35	50	18	2
Lib.	Library Studies	-	-	-	-	2
Practical						
BHMCT-251	Food Production Foundation- II	30	70	100	50	8
BHMCT-252	F & B Service Foundation-II	30	70	100	50	4
BHMCT-253	F. O. Foundation- II	30	70	100	50	2
BHMCT-254	H. K. Foundation- II	30	70	100	50	2
BHMCT-255	Food Science and Nutrition	15	35	50	25	2
BHMCT-256	Business Communication	15	35	50	25	2
	Total	300	700	1000	426	42

Second year

Semester – III

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-301	Food Production Operation- I	30	70	100	35	4
BHMCT-302	F & B Service Operation- I	30	70	100	35	4
BHMCT-303	F. O. Operation- I	30	70	100	35	3
BHMCT-304	H. K. Operation- I	30	70	100	35	3
BHMCT-305	Basic Accounting	30	70	100	35	4
BHMCT-306E	Principles of Management	30	70	100	35	4
	Environment Management					
Lib.	Library Studies	-	-	-	-	2
Practical						
BHMCT-351	Food Production Operation- I	30	70	100	50	8
BHMCT-352	F & B Service Operation- I	30	70	100	50	2
BHMCT-353	F. O. Operation- I	30	70	100	50	2
BHMCT-354	H. K. Operation- I	30	70	100	50	4
PBM	Professional Behaviors & Mannerism	-	-	-	-	2
	Total	300	700	1000	410	42


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Second year

Semester - IV

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-401	Food Production Operation- II	30	70	100	35	4
BHMCT-402	F & B Service Operation- II	30	70	100	35	4
BHMCT-403	F. O. Operation- II	30	70	100	35	3
BHMCT-404	H. K. Operation- II	30	70	100	35	3
BHMCT-405	Hotel Accounting	30	70	100	35	4
BHMCT-406	Human Resource Management	30	70	100	35	4
Lib.	Library Studies	-	-	-	-	2
Practical						
BHMCT--451	Food Production Operation-II	30	70	100	50	8
BHMCT--452	F & B Service Operation-II	30	70	100	50	4
BHMCT--453	F. O. Operation-II	30	70	100	50	2
BHMCT--454	H. K. Operation-II	30	70	100	50	2
PD	Personality Development	-	-	-	-	2
	Total	300	700	1000	400	42


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Third year**Semester - V**

Code No	Paper	Evaluation Scheme				Lec. /Week
		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-551	20 weeks Industrial training					
	Training Report			100	50	
	Training Log Book			100	50	
	Presentation			100	50	
	Total			300	150	


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Third year

Semester - VI

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-601	Food Production Operation- III	30	70	100	35	4
BHMCT-602	F & B Service Operation- III	30	70	100	35	4
BHMCT-603	Front Office Management	30	70	100	35	4
BHMCT-604	Accommodation Management	30	70	100	35	4
BHMCT-605	Hotel laws and Risk Management	15	35	50	18	2
BHMCT-606	Strategic Management	30	70	100	35	2
Lib.	Library studies					2
Practical						
BHMCT-651	Food Production Operation-III	30	70	100	50	8
BHMCT-652	F & B S Operation-III	30	70	100	50	4
BHMCT-653	Front Office Management	30	70	100	50	2
BHMCT-654	Accommodation Management	30	70	100	50	2
BHMCT-655	Hotel Information Systems	15	35	50	25	4
	Total	300	700	1000	418	42


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Fourth year

Semester – VII

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-701	Advance Food Production	30	70	100	35	4
BHMCT-702	Food & Beverage Management-I	30	70	100	35	4
BHMCT-703	Facility Design& Management- I	30	70	100	35	4
BHMCT-704	Hospitality Marketing-I	30	70	100	35	4
BHMCT-705	Financial Management-I	15	35	50	18	4
BHMCT-706	Research Methodology	15	35	50	18	3
BHMCT-707E	Professional Elective / Specialization-I (Room Division)	15	35	50	18	3
BHMCT-708E	Professional Elective / Specialization-I (F&B Service)					
BHMCT-709E	Professional Elective / Specialization-I (Food Production)					
Lib.	Library Studies/ Guest lecture					4
Practical						
BHMCT-751	Advance Food Production- I	30	70	100	50	8
	Total	195	435	650	244	42

Fourth year

Semester - VIII

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHMCT-801	Food Production Management	30	70	100	35	4
BHMCT-802	Food & Beverage Management-II	30	70	100	35	4
BHMCT-803	Facility Design& Management-II	30	70	100	35	4
BHMCT-804	Hospitality Marketing-II	30	70	100	35	4
BHMCT-805	Financial Management-II	15	35	50	18	4
BHMCT-806	Entrepreneurship Management	15	35	50	18	3
BHMCT-807E	Professional Elective/ Specialization-II (Room Division)	15	35	50	18	3
BHMCT-808E	Professional Elective/ Specialization-II (F&B Service)					
BHMCT-809E	Professional Elective/ Specialization-II (Food Production)					
Lib.	Library Studies/ Guest lecture					4
Practical						
BHMCT-851	Advance Food Production-II	30	70	100	50	8
BHMCT-852	Research Project	-	-	200	100	4
	Total	195	455	850	344	42

School of Hotel Management & Catering Technology

Programme: B. Sc. H&HA
(FIRST YEAR) SEMESTER - I

Code No	Paper	Evaluation Scheme				
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	Lec. /Week
BHHA -1	Food Production Foundation- I	30	70	100	35	4
BHHA -2	Food & Beverage Service Foundation- I	30	70	100	35	4
BHHA - 3	Front Office Foundation -I	30	70	100	35	3
BHHA -4	Hotel Housekeeping Foundation- I	30	70	100	35	3
BHHA -5	Applications of Computers	15	35	50	18	2
BHHA- 6	Basic Hygiene and HACCP	15	35	50	18	2
Lib.	Library	-	-	-	-	2
Practical						
BHHA -1P	Food Production Foundation- I	30	70	100	50	8
BHHA -2P	Food & Beverage Service Foundation- I	30	70	100	50	4
BHHA -3P	Front Office Foundation- I	30	70	100	50	2
BHHA -4P	Hotel Housekeeping Foundation- I	30	70	100	50	2
BHHA-5P	Application of Computers	15	35	50	25	4
IPC	Inter-Personal Communication	-	-	-	-	2
	Total	285	665	950	401	42

Teaching & Examination Scheme
(FIRST YEAR) SEMESTER II

Code No	Paper	Evaluation Scheme				Lec. /Week
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BHHA -7	Food production Foundation- II	30	70	100	35	4
BHHA -8	Food & Beverage Service Foundation-II	30	70	100	35	4
BHHA -9	Front Office Foundation- II	30	70	100	35	4
BHHA -10	House Keeping Foundation- II	30	70	100	35	4
BHHA -11	Food Science and Nutrition	15	35	50	18	2
BHHA -12	Business Communication	15	35	50	18	2
Lib.	Library Studies	-	-	-	-	2
Practical						
BHHA -7P	Food production Foundation- II	30	70	100	50	8
BHHA -8P	Food & Beverage Service Foundation-II	30	70	100	50	4
BHHA -9P	Front Office Foundation- II	30	70	100	50	2
BHHA -10P	House Keeping Foundation- II	30	70	100	50	2
BHHA -11P	Food Science and Nutrition	15	35	50	25	2
BHHA -12P	Business Communication	15	35	50	25	2
	Total	300	700	1000	426	42

Teaching & Examination Scheme
(SECOND YEAR) III Semester

Code No	Paper	Evaluation Scheme				Lec. /Week
		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
	Theory					
BHHA -13	Food Production Operation-I	30	70	100	35	4
BHHA -14	F & B Service Operation-I	30	70	100	35	4
BHHA -15	Front Office Operation-I	30	70	100	35	3
BHHA- 16	House Keeping Operation-I	30	70	100	35	3
BHHA -17	Basic Accounting	30	70	100	35	4
BHHA -18E	Principles of Management	30	70	100	35	4
	Environment Management					
Lib.	Library Studies	-	-	-	-	2
Practical						
BHHA- 13P	Food Production Operation- I	30	70	100	50	8
BHHA -14P	F & B Service Operation- I	30	70	100	50	2
BHHA- 15P	Front Office Operation- I	30	70	100	50	2
BHHA -16P	House Keeping Operation- I	30	70	100	50	4
PBM	Professional Behavior & Mannerism	-	-	-	-	2
	Total	300	700	1000	410	42

Teaching & Examination Scheme
(SECOND YEAR) SEMESTER – IV

Code No	Paper	Evaluation Scheme				
		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	Lec. /Week
BHHA- IT	20 Weeks industrial training					
	Training Report			100	50	
	Training Log Book			100	50	
	Presentation			100	50	
	Total			300	150	


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 Jaipur

School of Agriculture Sciences
B.Sc. (Hons.) Agriculture

I Year

Semester I

Code No	Paper	Evaluation Scheme				
		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
BAG111	Fundamentals of Horticulture	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG112	Fundamentals of Genetics	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG113	Fundamentals of Soil Science	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG114	Agricultural Microbiology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG115	Comprehension & Communication Skills in English	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG116	Fundamentals of Agronomy	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG117	Introductory Biology*/Elementary Mathematics*	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG118	Agricultural Heritage*	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG119	Rural Sociology & Educational Psychology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAGNC11	Human Values & Ethics (non credit)					
Practical						
BAGP111	Fundamentals of Horticulture	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP112	Fundamentals of Genetics	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP113	Fundamentals of Soil Science	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP114	Agricultural Microbiology	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP115	Comprehension & Communication Skills in English	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP116	Fundamentals of Agronomy	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP117	Introductory Biology*/Elementary Mathematics*	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGNC112	NSS/NCC/Physical Education & Yoga Practices**	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Toatal	480	1120	1600	720	


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	Theory Papers	Practical	Total
Max. Marks	800	800	1600

I Year, Semester II

Code No	Paper	Evaluation Scheme				
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
BAG121	Fundamentals of Plant Biochemistry and Biotechnology	30	70	100	40	
BAG122	Introduction to Forestry	30	70	100	40	
BAG123	Soil and Water Conservation Engineering	30	70	100	40	
BAG124	Fundamentals of Crop Physiology	30	70	100	40	
BAG125	Fundamentals of Agricultural Economics	30	70	100	40	
BAG126	Fundamentals of Plant Pathology	30	70	100	40	
BAG127	Fundamentals of Entomology	30	70	100	40	
BAG128	Fundamentals of Agricultural Extension Education	30	70	100	40	
BAG129	Communication Skills and Personality Development					
Practical						
BAGP121	Fundamentals of Plant Biochemistry and Biotechnology	30	70	100	50	
BAGP122	Introduction to Forestry	30	70	100	50	
BAGP123	Soil and Water Conservation Engineering	30	70	100	50	
BAGP124	Fundamentals of Crop Physiology	30	70	100	50	
BAGP126	Fundamentals of Plant Pathology	30	70	100	50	
BAGP127	Fundamentals of Entomology	30	70	100	50	
BAGP128	Fundamentals of	30	70	100	50	

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Jaipur

	Agricultural Extension Education					
BAGP129	Communication Skills and Personality Development	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Toatal	480	1120	1600	720	

	Theory Papers	Practical	Total
Max. Marks	800	800	1600

II Year, Semester III

Code No	Paper	Evaluation Scheme				
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
BAG231	Field Crops-I (<i>Kharif</i>)	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG232	Weed Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG233	Introductory Nematology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG234	Statistics	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG235	Fundamentals of Rural Sociology and Educational Psychology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG236	Production Technology of Fruits and Plantation Crops	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG237	Production Economics and Farm Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG238	Farm Power and Machinery	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG239	Manures And Fertilizers	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
Practical						
BAGP231	Field Crops-I (<i>Kharif</i>)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP232	Weed Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP233	Introductory Nematology	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP234	Statistics	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP236	Production Technology of Fruits and Plantation Crops	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP237	Production Economics and Farm Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP238	Farm Power and Machinery	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Toatal	480	1120	1600	710	

	Theory Papers	Practical	Total
Max. Marks	800	800	1600


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II Year, Semester IV

Code No	Paper	Evaluation Scheme				
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min. Pass Marks	
BAG241	Crop Production Technology – I (<i>Kharif Crops</i>)	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG242	Production Technology for Ornamental Crops, MAP and Landscaping	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG243	Renewable Energy and Green Technology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG244	Problematic Soils and their Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG245	Production	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG246	Principles of Seed Technology	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG247	Farming System & Sustainable Agriculture	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG248	Agricultural Marketing Trade & Prices	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG249	Introductory Agro-meteorology & Climate Change					
	Elective Course					
Practical						
BAGP241	Crop Production Technology – I (<i>Kharif Crops</i>)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP242	Production Technology for Ornamental Crops, MAP and Landscaping	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP243	Renewable Energy and Green Technology	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP245	Production	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP246	Principles of Seed Technology	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP248	Agricultural Marketing Trade & Prices	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP249	Introductory Agro-meteorology & Climate Change	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Elective Course	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	


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	Toatal	480	1120	1600	720	
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	Theory Papers	Practical	Total
Max. Marks	800	800	1600

III Year, Semester V

Code No	Paper	Evaluation Scheme				
Theory		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
BAG351	Principles of Integrated Pest and Disease Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG352	Manures, Fertilizers and Soil Fertility Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG353	Pests of Crops and Stored Grain and their Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG354	Diseases of Field and Horticultural Crops and their Management-I	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG355	Crop Improvement-I (Kharij/Crops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG356	Entrepreneurship Development and Business Communication	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG357	Geoinformatics and Nano-technology and Precision Farming	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG359	Intellectual Property Rights	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
	Elective Course	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
Practical						
BAGP351	Principles of Integrated Pest and Disease Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP352	Manures, Fertilizers and Soil Fertility Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP353	Pests of Crops and Stored Grain and their Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP354	Diseases of Field and Horticultural Crops	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	

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	andtheir Management-I					
BAGP355	Crop Improvement-I (KharifCrops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP356	Entrepreneurship Development and Business Communication	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP357	Geoinformatics and Nano- technology and Precision Farming	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP358	PracticalCrop Production – I (Kharifcrops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Elective Course	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Total	<u>540</u>	<u>1260</u>	<u>1800</u>	<u>810</u>	

	Theory Papers	Practical	Total
Max. Marks	<u>900</u>	<u>900</u>	<u>1800</u>

III Year, Semester VI

Code No	Paper	Evaluation Scheme				
		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
BAG361	Rainfed Agriculture& Watershed Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG362	Protected Cultivation and Secondary Agriculture	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG363	Diseases of Field and Horticultural Crops and their Management-II	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG364	Post-harvest Management and Value Addition of Fruits and Vegetables	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG365	Management of Beneficial Insects	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG366	Crop Improvement-II (Rabi crops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG368	Principles of Organic	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	


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 Jaipur

	Farming					
BAG369	Farm Management, Production & Resource Economics	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
BAG3610	Principles of Food Science and Nutrition	<u>30</u>	<u>70</u>	<u>100</u>	<u>40</u>	
	Elective Course	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
Practical						
BAGP361	Rainfed Agriculture & Watershed Management	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP362	Protected Cultivation and Secondary Agriculture	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP363	Diseases of Field and Horticultural Crops and their Management-II	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP364	Post-harvest Management and Value Addition of Fruits and Vegetables	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP365	Management of Beneficial Insects	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP366	Crop Improvement-II (Rabi crops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP367	Practical Crop Production –II (Rabi crops)	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP368	Principles of Organic Farming	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
BAGP369	Farm Management, Production & Resource Economics	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Elective Course	<u>30</u>	<u>70</u>	<u>100</u>	<u>50</u>	
	Total	<u>510</u>	<u>1190</u>	<u>1700</u>	<u>770</u>	

	Theory Papers	Practical	Total
Max. Marks	<u>800</u>	<u>900</u>	<u>1700</u>


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 Jaipur

IV Year, Semester VII

Code No	Paper	Evaluation Scheme			
		End Semester Exams	Max. Marks	Min.Pass Marks	
BAGRA801P	Rural Agricultural Work Experience (RAWE)	<u>200</u>	<u>200</u>	<u>100</u>	

IV Year, Semester VIII

Code No	Paper	Evaluation Scheme				
		Internal Assessment	End Semester Exams	Max. Marks	Min.Pass Marks	
READY-421	Production Technology for Bioagents and Biofertilizer	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-422	Seed Production and Technology	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-423	Mushroom Cultivation Technology	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-424	Soil, Plant, Water and Seed Testing	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-425	Commercial Beekeeping	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-426	Poultry Production Technology	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-427	Commercial Horticulture	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-428	Floriculture and Landscaping	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-429	Food Processing	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-4210	Agriculture Waste Management	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-4211	Organic Production Technology	–	<u>100</u>	<u>100</u>	<u>50</u>	
READY-4212	Commercial Sericulture	–	<u>100</u>	<u>100</u>	<u>50</u>	


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School of Fashion Design

Programme: B. Design in Fashion Design

I Semester

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1	BDFD-101	Basic of Fashion	2	3	40	60	100	3	3
2	BDFD-102	Sustainable Design (Environmental Studies)	2	3	40	60	100	4	4
3	BDFD-103	Communication Skills	2	3	40	60	100	4	4
4	BDFDP-104	Basic Of Design	3	3	40	60	100	3	6
5	BDFDP-105	Visualization & Representation-I	2	3	40	60	100	3	6
6	BDFDP-106	Material Exploration-I	3	3	40	60	100	3	6
7	BDFDP-107	Computer Application	3	3	40	60	100	2	4
	Total						700	22	33

II Semester

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			


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1	BDFD-201	Introduction to textile	2	3	40	60	100	4	4
2	BDFD-202	Western Art Appreciation	2	3	40	60	100	4	4
3	BDFDP-203	Visualization & Representation-II	2	3	40	60	100	3	6
4	BDFD-204	Material Exploration-II	2	3	40	60	100	3	6
5	BDFDP-205	Digital Design-I	2	3	40	60	100	3	6
6	BDFDP-206	Fabric Construction	2	3	40	60	100	3	6
	Total						700	22	32

Summer Training will be there between II & III semester (5Credits and 100 Marks)

III Semester

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1.	BDFD-301	History of Western Costume	2	3	40	60	100	3	3
2.	BDFDP-302	Draping-I	3	3	40	60	100	3	6
3.	BDFDP-303	Fashion Illustration-I	2	3	40	60	100	2	4
4.	BDFDP-304	Construction & Sewing techniques	3	3	40	60	100	2	4
5.	BDFDP-305	Pattern Making-I	3	3	40	60	100	2	4
6.	BDFDP-306	Garment Construction-I	3	3	40	60	100	2	4


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7.	BDFDP - 306	Basics of Embroideries and manipulation	3	3	40	60	100	3	6
	Total						800	21	31

IV Semester

Craft Cluster project will be there between IV & V semester (5 Credit and

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1	BDFD- 401	Business of fashion	2	3	40	60	100	3	3
2.	BDFDP -402	Draping-II	2	3	40	60	100	4	4
3.	BDFDP -403	Design Process-I	3	3	40	60	100	3	6
4.	BDFDP -404	Fashion Illustration-II	2	3	40	60	100	2	4
5.	BDFDP - 405	Pattern Making-II	3	3	40	60	100	3	6
6	BDFDP - 406	Garment Construction-II	3	3	40	60	100	2	4
7.	BDFDP -407	Digital Design-II	2	3	40	60	100	2	4
	Total						800	22	34

100 Marks)

Third Year (V Semester)

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation	Total	Credit	Contact hours
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					* Internal Assessment	End Term			
1	BSFD-501	Indian art and Costume appreciation	2	3	40	60	100	4	4
2	BSFD-502	Research Method	2	3	40	60	100	4	4
3	BSFD-503	Merchandising Production Methods	2	3	40	60	100	3	3
4	BSFDP-504	Surface Ornamentation-I	2	3	40	60	100	3	6
5	BSFDP-505	Fashion Illustration-III	2	3	40	60	100	3	6
6	BSFDP-506	Pattern Making & garment construction III	3	3	40	60	100	3	6
7	BSFDP-507	Draping-III	2	3	40	60	100	2	4
	Total						700	22	33

IV Semester

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1	BDFD-601	Professional Practices	2	3	40	60	100	3	3
2	BDFD-602	Fashion Forecasting	2	3	40	60	100	3	3
3	BDFDP-603	Surface Ornamentation-II	2	3	40	60	100	2	4
4	BDFDP	Fashion Illustration-	2	3	40	60	100	2	4


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	-604	IV							
5	BDFDP-605	Pattern Making & garment construction IV	3	3	40	60	100	2	4
6	BDFDP-606	Design Process-II	2	3	40	60	100	2	4
	Total						600	12	22

Fourth Year (VII Semester)

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1	BDFD-701	Visual Merchandising	2	3	40	60	100	4	4
2	BDFDP-702	Elective-I (Any one) 1.Business of Luxury Fashion 2.Couture Design 3.Fashion Advertisement	2	3	40	60	100	3	6
3	BDFD-703	Portfolio Development - I	2	3	40	60	100	3	6
4	BDFDP-704	Fashion Accessories	3	3	40	60	100	3	6
	Total						400	13	22


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Fourth Year (VIII Semester)

S.No	Course Code	Name of Course	Term. Exam hrs	Final Exam hrs	Marks Allocation		Total	Credit	Contact hours
					* Internal Assessment	End Term			
1.	BDFDP-801	Elective –II (Any One) 1.Fashion Photography 2.Fashion Styling	2	3	40	60	200	3	6
	BDFDP-802	Final Design Collection/ Dissertation/ Graduation Project			40	60	300	20	
	Total						500	23	


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MBA in Fashion Design

Semester I

S.No	Course Code	Course Title	Credit	Contact hrs per Week		Class Duration		Marks Allocation		
				L	P	Theory	Practical	* Internal Assessment	End Term	Total
								40	60	100
1	MBAFM-101	Business communication	4	4		1 Hours		40	60	100
2	MBAFM-102	Business environment	4	4		1 Hours		40	60	100
3	MBAFM-103	Principles and practices of management	4	4		1 Hours		40	60	100
4	MBAFM-104	Organizational behavior	4	4		1 Hours		40	60	100
5	MBAFM-105	Introduction to global fashion industry	4	4		1 Hours		40	60	100
6	MBAFM-106	Fabric knowledge	4	4		1 Hours		40	60	100
7	MBAFM-107	Computer application in Fashion Management	3		6		2Hours	40	60	100
		Total	27							700

- Midterm Exam (20) , Assignments(10), Attendance(10)


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Semester II

S.No	Course Code	Course Title	Credit	Contact hrs per Week		Class Duration		Marks Allocation		
				L	P	Theory	Practical	* Internal Assessment	End Term	Total
								40	60	100
1	MBAFM-201	Research Methodology	4	4		1 Hours		40	60	100
2	MBAFM-202	Management accounting-1	4	4		1 Hours		40	60	100
3	MBAFM-203	Marketing Management	4	4		1 Hours		40	60	100
4	MBAFM-204	Operation and production Management	4	4		1 Hours		40	60	100
5	MBAFM-205	Human Resource Management	4	4		1 Hours		40	60	100
6	MBAFMP-206	Design Process and Design Thinking	3		6		2Hours	40	60	100
7	MBAFM-207	Study of Garment Manufacturing process	4	4				40	60	100
		Total	27							700

- Midterm Exam (20) , Assignments(10), Attendance(10)

Semester III

S.No	Course Code	Course Title	Credit	Contact hrs per Week	Class Duration	Marks Allocation
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				L	P	Theor y	Practic al	* Inter nal Asses men t	End Ter m	Tot al
								40	60	100
1	MBAFM-301	Strategic Management	4	4		1 Hour		40	60	100
2	MBAFM-302	Textile Science	4	4		1 Hour		40	60	100
3	MBAFM-303	Elective :- A. Customer Relationship Management B. Fashion Event Management	4	4		1 Hour		40	60	100
4	MBAFM-304	Fashion Forecasting	4	4		1 Hour		40	60	100
5	MBAFM-305	Product Development	4	4		1 Hour		40	60	100
6	MBAFM-306	Export merchandising	4	4				40	60	100
7		Summer internship project								100
		Total	24							700

- Midterm Exam (20) , Assignments(10), Attendance(10)

Semester IV

S.No	Course Code	Course Title	Credit	Contact hrs per Week		Class Duration		Marks Allocation		
				L	P	Theory	Practic al	* Inter nal Asses men	End Ter m	Tot al


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							t		
							40	60	100
1	MBAF M-401	Entrepreneurship and Development	4	4		1 Hour	40	60	100
2	MBAF M-402	Visual Merchandising	4	4		1 Hour	40	60	100
3	MBAF M-403	Elective :- A. Project Management B. International Fashion	4	4		1 Hour	40	60	100
4	MBAF M-404	Elective A. Retail Management- Apparel B. Export Management	4	4		1 Hour	40	60	100
5	MBAF M-405	Advertising and Branding	4	4		1 Hour	40	60	100
6		Summer internship project							200
		Total	20						700

- Midterm Exam (20) , Assignments(10), Attendance(10)


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