Integrated BCA+MCA Curriculum
Semester I

CINT	News of the Course	T	Tr.	n	C	
SN	Name of the Course	L	T	P	S	C
1	Mathematics for Computing	3	0	0	0	3
2	Computer System Organisation	3	0	0	0	3
3	Programming for Problem Solving	3	0	1	1	5
4	Office Automation Tools	3	0	1	0	4
		_				
5	Business Communication & Report Writing	3	0	0	0	3
	Total Credits	15	0	2	1	18
	Semester II					
CNI		Ιτ	Т	P	C	С
SN	Name of the Course	L			S	
1	Discrete Mathematics	3	0	0	0	3
2	First Aid & Health	3	0	0	0	3
3	Data Structures	3	0	1	0	4
4	Object Oriented Programming using C++	3	0	1	1	5
5	Database Management Systems	3	0	1	0	4
6	Web Design	3	0	1	0	4
-	Total Credits	18	0	4	1	23
		10	U	4		23
	Semester III					
SN	Name of the Course	L	T	P	S	C
1	Computer Networks	3	0	0	0	3
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2	Operating Systems	3	0	1	0	4
3	Full Stack Development using React & Node.js	3	0	1	0	4
4	Entrepreneurship/ E-Business (MOOC)	3	0	0	0	3
5	Java Programming	3	0	1	1	5
6	Elective-I (Human Computer Interaction/System Admin/Digital Marketing)	3	0	0	0	3
	Total Credits	18	0	3	1	22
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	Semester IV					
SN	Name of the Course	L	T	P	S	C
1	Python Programming	3	0	1	0	4
2	Machine Learning	3	0	1	1	5
3	Mobile Application Development	3	0	1	1	5
4	Environmental Studies/ Understanding India/Cognitive Computing	3	0	0	0	3
5	Elective-II (Generative AI /Internet of Things /Computer Graphics)	3	0	0	0	3
3		_	-			
	Total Credits	15	0	3	2	20
	Semester V					
SN	Name of the Course	L	Т	P	S	С
				_		
1	Design and Analysis of Algorithms	3	0	1	0	4
2	Software Engineering and Testing	3	0	0	0	3
3	Elective-III (Virtual Reality/Cryptography & Blockchain)	3	0	0	0	3
				2		
4	Professional Readiness	0	0		0	2
5	Minor Project	0	0	0	5	5
6	Internship	0	0	0	5	5
	Total Credits	9	0	3	10	22
			U		10	
	Semester VI		_	-	_	
SN	Name of the Course	L	T	P	S	C
1	Capstone Project	0	0	0	15	15
	Total Credits	0	0	0	15	15
	20002 020000	Ŭ	Ů	v		
	Open Elective Basket					
SN	Name of the Course	L	Т	P	S	С
1	Business Communication & Report Writing	3	0	0	0	3
			-			
2	First Aid & Health	3	0	0	0	3
3	Food Nutrition & Hygiene	3	0	0	0	3
4	NCC/NSS	3	0	0	0	3
5	Human Values	3	0	0	0	3
6	Yoga & Meditation	3	0	0	0	3
7	Entrepreneurship (MOOC)	3	0	0	0	3
8	E-Business (MOOC)	3	0	0	0	3
		_	_			
9	Understanding India	3	0	0	0	3
10	Environmental Studies	3	0	0	0	3
11	Introduction to Cognitive Computing	3	0	0	0	3
	Elective-I (Semester 3)	Ť	Ť			
CN		· ·	Tr.	D	-	~
SN	Name of the Course	L	T	P	S	C
1	Human Computer Interaction	3	0	0	0	3
2	System Administration	2	0	1	0	3
3	Digital Marketing	3	0	0	0	3
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	Elective-II (Semester 4)					
SN	Name of the Course	L	T	P	S	C
	rame of the course			_	0	3
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1	Generative AI	3	0	0		^
1 2	Generative AI Internet of Things	3	0	0	0	3
1	Generative AI		-			3
1 2	Generative AI Internet of Things Computer Graphics	3	0	0	0	
1 2 3	Generative AI Internet of Things Computer Graphics Elective-III (Semester 5)	3 2	0	0	0	3
1 2 3 SN	Generative AI Internet of Things Computer Graphics Elective-III (Semester 5) Name of the Course	3 2 L	0 0 T	0 1 P	0 0 S	3 C
1 2 3 SN 1	Generative AI Internet of Things Computer Graphics Elective-III (Semester 5) Name of the Course Virtual Reality	3 2	0 0 T 0	0	0	3
1 2 3 SN	Generative AI Internet of Things Computer Graphics Elective-III (Semester 5) Name of the Course	3 2 L	0 0 T	0 1 P	0 0 S	3 C

Semester VII									
SNo.	Name of the Course	L	T	P	S	C	Н		
1	Problem Solving and Computer Programming	3	0	1	0	4	5		
2	Computational Mathematics and Statistics	3	0	0	0	3	3		
3	Database Management System	3	0	1	0	4	5		
4	Digital Computer Organization	3	0	0	0	3	3		
6	English Proficiency and Aptitude Building	0	0	2	0	2	4		
5	Introduction to IT [Bridge Course])	3	0	1	0	4	5		
	Total Credits (MCA & MCA IOP)	15	0	5	0	20	25		

Semester VIII									
SNo.	Name of the Course	L	T	P	S	C	H		
1	Object Oriented Programming with Java	3	0	1	0	4	5		
2	Machine Learning with Python	3	0	1	1	5	8		
3	Data Structures	3	0	1	0	4	5		
4	Verbal and Quantitative Reasoning	0	0	2	0	2	4		
5	Data Communication & Networking	2	0	0	0	2	2		
6	Operating Systems	2	0	0	0	2	2		
7	Elective-I	3				3	3		
8	Training-I	0	0	1	0	1	2		
	Total Credits (MCA)	16	0	6	1	23	31		

	Elective-I for VIII sem								
SNo.	Name of the Course	L	T	P	S	C	Н		
1	BlockChain	3	0	0	0	3	3		
2	Cognitive Computing and Modeling	3	0	0	0	3	3		
3	Internet of Things	3	0	0	0	3	3		
4	Data Science with R	2	0	1	0	3	3		

Semester IX									
SNo.	Name of the Course	L	T	P	S	C	H		
1	Mobile App Development	3	0	1	1	5	8		
2	Design & Analysis of Algorithm	3	0	1	0	4	5		
3	Elective-II	3	0	0	0	3	3		
4	Elective-III	2	0	1	0	3	3		
5	Professional Readiness	0	0	2	0	2	4		
6	Minor Project	0	0	2	0	2	0		
7	Internship	0	0	4	0	4	0		
8	Training-II	0	0	1	0	1	2		
	Total Credits (MCA)	11	0	12	1	24	25		

	Elective-II for IX sem						
SNo.	Name of the Course	L	T	P	S	C	Н
1	Software Engineering and Testing	3	0	0	0	3	3
2	Big Data	3	0	0	0	3	3
3	Digital Image Processing	3	0	0	0	3	3

	Elective -III for IX sem							
SNo.	Name of the Course	L	T	P	S	C	Н	
1	Advanced Java Programming	2	0	1	0	3	4	
2	Web Technology	2	0	1	0	3	4	

	Semester X								
SNo.	Name of the Course	L	T	P	S	C	H		
1	Major Project	0	0	0	0	20			
	Total Credits (MCA & MCA IOP)					20			