

Intake:	2021 onwards								
Details of the Curriculum for BScHons (IT)									
Module Code	Module Name	Category C/E/O	Time allocation [Hours/Week]		Credits offered		Evaluation %		
			Lecture	Lab / Tute	GPA	NGPA	CA	WE	
Semester 1									
CM 1111	Fundamentals of Mathematics	C	2	1	2.5		30	70	
IN 1311	Digital System Design	C	2	2	3		40	60	
IN 1101	Programming Fundamentals	C	3	2	4		30	70	
IN 1321	Computer Organization	C	2	1	2.5		30	70	
IN 1611	Multimedia Technologies	C	2	1	2.5		30	70	
IN 1901	Microcontroller Based Application Development Project	C			4		100	0	
IS 1011	English	C	2	2		3	50	50	
		Total			18.5	3.0			
Semester 2									
CM 1131	Elements of Probability and Statistics	C	2	1	2.5		30	70	
IN 1401	Fundamentals of Databases	C	2	1	2.5		30	70	
IN 1501	Data Communication	C	2	1	2.5		30	70	
IN 1111	Data Structures and Algorithms 1	C	2	1	2.5		30	70	
IN 1621	Web Technologies	C	2	2	3		30	70	
IS 1101	Principles of Management	C	2	1	2.5		30	70	
		Total			15.5	0.0			
Semester 3									
CM 2131	Essentials of Mathematical Methods	C	2	1	2.5		30	70	
IN 2101	Object Oriented Programming	C	2	2	3		40	60	
IN 2211	Object-Oriented Analysis and Design	C	2	1	2.5		30	70	
IN 2201	Software Engineering	C	2	2	3		30	70	
IN 2321	Computer Architecture	C	2	1	2.5		30	70	
IN 2311	Operating System	C	2	1	2.5		40	60	
IN 2901	Software Development Project	C			4		100	0	
		Total			20.0	0			
Semester 4									
CM 2111	Statistical Inference	C	2	1	2.5		30	70	
IN 2601	Computer Graphics	C	2	2	3		30	70	
IN 2111	Data Structures and Algorithms II	C	2	1	2.5		30	70	
IN 2511	Computer Networks	C	2	1	2.5		30	70	
IN 2401	Database Management Systems	C	2	2	3		30	70	
IS 2211	Fundamentals of Business Economics	C	2	1	2.5		30	70	
		Total			16.0	0.0			
Semester 5									
CM 3311	Artificial Intelligence	C	2	1	2.5		40	60	
CM 3211	Automata Theory	C	2	1	2.5		30	70	
CM 3131	Applied Numerical Methods	E	2	1	2.5		30	70	
IN 3111	Network programming	C	2	1	2.5		30	70	
IN 3101	Enterprise Application Development	C	2	1	2.5		40	60	
IN 3700	Human Computer Interaction	C	2	1	2.5		40	60	
IN 3210	Mobile Applications Development	E	2	1	2.5		30	70	
IN 3510	Wireless Communication & Mobile Networks	E	2	1	2.5		30	70	
IN 3320	Embedded Systems	E	2	1	2.5		40	60	
IS 3610	Management Information Systems	C	2	1	2.5		30	70	
IS 3011	Communication Skills and Professional Conduct (Non GPA)	C	1	2		2	40	60	
		Total			25.0	2.0			
Industrial Training									
IN 3001	Industrial Training	C				6.0	100	0	
		Total			0.0	6.0			
Semester 6									
CM 3321	Logic Programming and Artificial Cognitive Systems	C	2	1	2.5		40	60	
IN 3901	Independent Study	C			2		100	0	
IN 3910	Research Methodology	C	2	2	3		30	70	
IN 3410	Data Mining and Data Warehousing	C	2	1	2.5		30	70	
IS 3450	Business and Entrepreneurship	C	2	1	2.5		30	70	
IS 3001	Scientific Communication	C	2	1	2.5		40	60	
		Total			15.0	0.0			

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Semester 7 & 8								
CM 4371	Machine Learning & Pattern Recognition	C	2	1	2.5		30	70
IN 4911	Comprehensive Group Project	C/E			10		100	0
IN 4210	Advanced Software Engineering	C	2	1	2.5		30	70
IN 4921	Individual Research Project	C/E			10		100	0
IS 3700	IT Project Management	C	2	1	2.5		40	60
CM 3121	Statistical Computing	E	2	1	2.5		30	70
CM 3331	Fundamentals of Bioinformatics	E	2	1	2.5		30	70
CM 4161	Advanced Topics in Statistics	E	2	1	2.5		30	70
CM 4151	Mathematical and Computational Modeling	E	2	1	2.5		30	70
CM 4141	Operational Research	E	2	1	2.5		40	60
CM 4211	Theory of Computability & Complexity	E	2	1	2.5		40	60
CM 4221	Theory of Compilers	E	2	1	2.5		40	60
CM 4231	Formal Methods and Software Verification	E	2	1	2.5		30	70
CM 4311	Artificial Neural Networks & Evolutionary Computing	E	2	1	2.5		30	70
CM 4321	Complex Systems & Agent Technology	E	2	1	2.5		40	60
CM 4331	Semantic Web and Ontological Modelling	E	2	1	2.5		30	70
CM 4341	Natural Language Processing	E	2	1	2.5		30	70
CM 4351	Fuzzy logic	E	2	1	2.5		30	70
CM 4361	Robotics	E	2	1	2.5		30	70
CM 4381	Deep Learning Architectures	E	2	1	2.5		30	70
CM 4391	Advanced Topics in Bioinformatics	E	2	1	2.5		30	70
CM 4411	Reinforcement Learning	E	2	1	2.5		30	70
CM 4131	Discrete Mathematics	E	2	1	2.5		30	70
CM 4171	Integral Transformations	E	2	1	2.5		30	70
IN 4770	Cloud Computing	E	2	1	2.5		30	70
IN 4330	Parallel Processing	E	2	1	2.5		30	70
IN 4740	UI/UX Engineering	E	2	1	2.5		50	50
IN 4750	Ubiquitous and Wearable Computing	E	2	1	2.5		30	70
IN 4320	Internet of Things	E	2	1	2.5		40	60
IN 4440	Advanced Database Management Systems	E	2	1	2.5		50	50
IN 4101	Theory of Programming Languages	E	2	1	2.5		30	70
IN 4550	Cyber Security	E	2	1	2.5		30	70
IN 4521	High Speed Communication Networks	E	2	1	2.5		40	60
IN 4531	Multimedia Communications	E	2	1	2.5		30	70
IN 4541	Performance Evaluation of Computer Networks	E	2	1	2.5		30	70
IN 4660	Digital Signal Processing	E	2	1	2.5		30	70
IN 4621	Digital Image Processing	E	2	1	2.5		30	70
IN 4640	Machine Vision	E	2	1	2.5		30	70
IN 4650	Audio Processing and Speech Synthesis	E	2	1	2.5		30	70
IN 4701	Distributed Systems and Cluster Computing	E	2	1	2.5		30	70
IN 4721	Geographic Information Systems	E	2	1	2.5		40	60
IN 4731	High Performance Computing	E	2	1	2.5		40	60
IN 4220	Software Architecture and Design Patterns	E	2	1	2.5		40	60
IN 4601	Multimedia Systems	E	2	1	2.5		30	70
IN 4760	Location Based Services and Systems	E	2	1	2.5		40	60
IN 4670	Digital Forgery Analysis	E	2	1	2.5		30	70
IN 4630	Game Theory	E	2	1	2.5		40	60
IN 4430	Digital Resource Archiving & Information Retrieval	E	2	1	2.5		30	70
IN 4411	Big Data Analytics	E	2	1	2.5		40	60
IN 4560	Information Security	E	2	1	2.5		30	70
IS 4600	IT Quality Assurance	E	2	1	2.5		40	60
IS 4650	Software Management	E	2	1	2.5		40	60
IS 4620	Information Systems Management	E	2	1	2.5		30	70
IS4720	Management of Sensitive Projects	E	2	1	2.5		40	60
IS 3200	Digital Business Management	E	2	1	2.5		50	50
IS 3720	Supply Chain Management	E	2	1	2.5		30	70
IS 4630	Cloud Infrastructure Management	E	2	1	2.5		50	50
IS 4640	Knowledge Representation and Management	E	2	1	2.5		40	60
IS 3120	Organizational Behaviour	E	2	1	2.5		40	60
IS 3300	Management Accounting	E	2	1	2.5		30	70
IS 4430	Social Aspects of IT	E	2	1	2.5		40	60
IS 4460	Social Entrepreneurship	E	2	1	2.5		40	60
IS 4000	Educational Technology	E	2	1	2.5		40	60
IS 4470	Business Intelligence	E	2	1	2.5		40	60
IS 3730	Talent Management	E	2	1	2.5		40	60
IS 4480	International Business	E	2	1	2.5		30	70
IS 3410	Forensic Accounting and Fraud Investigations	E	2	1	2.5		30	70
IS 4100	Corporate Governance and Social Responsibility	E	2	1	2.5		40	60
IS 4350	Financial Engineering	E	2	1	2.5		30	70
IS 3510	Fundamentals of Behavioural Genetics	E	2	1	2.5		30	70

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IS 4500	Advanced Topics in Behavioural Genetics	E	2	1	2.5		30	70
IS 3520	Fundamentals of Behavioural Science	E	2	1	2.5		40	60
IS 4530	Applied Behavioural Science	E	2	1	2.5		30	70
IS 3020	Human Communication & Language Structures	E	2	1	2.5		40	60
IS 3310	Accounting Information System	E	2	1	2.5		30	70
IS 4490	Information Technology Law	E	2	1	2.5		30	70
IS 4440	Professional Practice	E	2	1	2.5		40	60
		Total			197.5	0.0		

Total GPA Credits	135
Total Compulsory Non GPA Credits	11
Required Elective Non GPA Credits	4

Semester 5 credit limit for elective modules
Maximum of 5 credits are allowed

Semester 7 & 8	Min ¹	Max ²
Credit limit for elective modules from IN ad CM modules	10	*
Credit limit for elective modules from IS modules	2.5	7.5

* To be based on a minimum total GPA of 135 credits

1 - Minimum required

2 - Maximum allowed