Intake: 2021 onwards

Details of the Curriculum for Bachelor of Science Honours in Information Technology and Management BScHons (IT&M)

Module Code	Module Name	Category C/E/O	Time Allocation (Hours / Week)		Credits offered		Evaluation %	
			Lecture	Lab/Tute	GPA	NGPA	CA	WE
Semester 1								
IN 1120	Structured Programming I	C	2	1	2.5		30	70
IN 1301	Digital Systems and Digital Computers	C	2	2	3.0		40	60
IN 1601	Multimedia Technologies and Web Design	C	2	2	3.0		30	70
IS 1901	Microcontroller based ICT Project	C			3.0		100	
IS 1101	Principles of Management	C	2	1	2.5		30	70
CM 1121	Essentials of Mathematics	C	2	1	2.5		30	70
IS 1011	English	C	2	2		3.0	50	50
			Total		**16.5**	**3.0**		
Semester 2								
IN 1130	Structured Programming II	C	2	1	2.5		30	70
IN 1401	Fundamentals of Databases	C	2	1	2.5		30	70
IS 1110	Business Foundation	C	2	1	2.5		30	70
IS 1910	Industry Reconnaissance and Engagement	C	1	2	2.0		100	
CM 1131	Elements of Probability and Statistics	C	2	1	2.5		30	70
			Total		**12.0**	**0.0**		
Semester 3								
IN 2110	Fundamentals of Object Oriented Programming	C	2	2	3		40	60
IN 2120	Web Programming	C	2	1	2.5		30	70
IN 2201	Software Engineering	C	2	2	3		30	70
IS 2901	Software Development Project	C			4		100	
IN 2211	Object Oriented Analysis and Design	C	2	1	2.5		30	70
IS 2200	Principles of Marketing & Consumer Solutions	C	2	1	2.5		40	60
IS 2240	Fundamentals of Accounting and Finance	C	2	1	2.5		30	70
CM 2121	Foundation of Mathematical Methods	C	2	1	2.5		30	70
			Total		**22.5**	**0**		
Semester 4								
IN 2610	Graphic Design and Development	C	2	1	2.5		30	70
IN 2410	Database Systems	C	2	1	2.5		30	70
IN 2301	Essentials of Computer Organization & Architecture	C	2	1	2.5		30	70
IN 2121	Data Structures and Algorithms I	C	2	1	2.5		30	70
IS 2310	Essentials of Business Law and Taxation	C	1	2	2		30	70
IS 2230	Economic Applications in Business	C	2	1	2.5		30	70
CM 2111	Statistical Inference	C	2	1	2.5		30	70
			Total		**17.0**	**0.0**		

Semester 5								
IN 3311	Operating Systems	C	2	1	2.5		30	70
IN 3530	Data Communication & Computer Networks	C	2	1	2.5		30	70
CM 3311	Artificial Intelligence	C	2	1	2.5		40	60
CM 3211	Automata Theory	C	2	1	2.5		30	70
IS 3610	Management Information Systems	C	2	1	2.5		30	70
IS 3920	Individual Project on Business Solutions	C			2.5		100	
IS 3700	IT Project Management	C	2	1	2.5		40	60
IS 3011	Communication Skills and Professional Conduct	C	1	2		2.0	100	
IN 3700	Human Computer Interaction	E	2	1	2.5		40	60
IN 3101	Enterprise Application Development	E	2	1	2.5		40	60
IN 3320	Embedded Systems	E	2	1	2.5		40	60
IN 3210	Mobile Applications Development	E	2	1	2.5		30	70
IS 3130	Strategic Management	E	2	1	2.5		40	60
IS 3020	Human Communication and Language Structures	E	2	1	2.5		40	60
IS 3120	Organizational Behaviour	E	2	1	2.5		40	60
IS 3200	Digital Business Management	E	2	1	2.5		50	50
IS 3300	Management Accounting	E	2	1	2.5		30	70
IS 3510	Fundamentals of Behavioural Genetics	E	2	1	2.5		30	70
IS 3520	Fundamentals of Behavioural Science	E	2	1	2.5		40	60
IS 3720	Supply Chain Management	E	2	1	2.5		30	70
IS 3730	Talent Management	E	2	1	2.5		40	60
		Total			**50.0**	**2.0**		

Industrial Training								
IS 3000	Industrial Training	C				6.0	100	
		Total			**0.0**	**6.0**		

Semester 6								
IS 3001	Scientific Communication	C	2	1	2.5		40	60
IS 3500	Research Methodology	C	1	2	2		100	
IS 3540	Cognitive Psychology of Consumer Decisions	E	2	1	2.5		40	60
IS 3320	Financial Analysis and Management	E	2	1	2.5		30	70
CM 3321	Logic Programming & Artificial Cognitive Systems	E	2	1	2.5		40	60
IN 3410	Data Mining and Data Warehousing	E	2	1	2.5		30	70
IS 4430	Social Aspects of IT	E	2	1	2.5		40	60
IS 4480	International Business	E	2	1	2.5		30	70
		Total			**19.5**	**0.0**		

Semester 7 and Semester 8								
IS 4650	Software Management	C	2	1	2.5		40	60
IS 4600	IT Quality Assurance	C	2	1	2.5		40	60
IS 4440	Professional Practice	C	2	1	2.5		40	60
IS 4660	Corporate Information Security Management	C	2	1	2.5		50	50
IS 4990	Comprehensive Group Project	C			10.0		100	
IN 4740	UI/UX Engineering	E	2	1	2.5		50	50
IN 4560	Information Security	E	2	1	2.5		30	70
IN 4770	Cloud Computing	E	2	1	2.5		30	70
IN 4750	Ubiquitous and Wearable Computing	E	2	1	2.5		30	70
IN 4440	Advanced Database Management Systems	E	2	1	2.5		40	60

IN 4531	Multimedia Communications	E	2	1	2.5		30	70
IN 4721	Geographic Information Systems	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 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 4320	Internet of Things	E	2	1	2.5		40	60
IN 4101	Theory of Programming Languages	E	2	1	2.5		30	70
IN 4701	Distributed Systems and Cluster Computing	E	2	1	2.5		30	70
CM 3111	Computational Methods	E	2	1	2.5		30	70
CM 3121	Statistical Computing	E	2	1	2.5		30	70
CM 3331	Fundamentals of Bioinformatics	E	2	1	2.5		30	70
CM 4111	Introduction to Numerical Optimization	E	2	1	2.5		30	70
CM 4161	Advanced Topics in Statistics	E	2	1	2.5		30	70
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 4311	Artificial Neural Networks & Evolutionary Computing	E	2	1	2.5		30	70
CM 4321	Complex Systems and 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 4371	Machine Learning and Pattern Recognition	E	2	1	2.5		30	70
CM 4381	Deep Learning Architectures	E	2	1	2.5		30	70
CM 4391	Advanced Bioinformatics	E	2	1	2.5		30	70
CM 4231	Formal Methods and Software Verification	E	2	1	2.5		30	70
CM 4411	Reinforcement Learning	E	2	1	2.5		30	70
CM 4141	Operational Research	E	2	1	2.5		40	60
IS 4620	Information Systems Management	E	2	1	2.5		30	70
IS 4720	Management of Sensitive Projects	E	2	1	2.5		40	60
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 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 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 4500	Advanced Topics in Behavioural Genetics	E	2	1	2.5		30	70
IS 4530	Applied Behavioural Science	E	2	1	2.5		30	70
IS 3310	Accounting Information Systems	E	2	1	2.5		30	70
IS 4490	Information Technology Law	E	2	1	2.5		30	70
IS 4730	Management Science	E	2	1	2.5		40	60
IS 4360	Risk and Portfolio Management	E	2	1	2.5		30	70
IS 4110	Business Scenario Planning	E	2	1	2.5		40	60
IS 4120	Business Change and Process Management	E	2	1	2.5		30	70
IS 3210	Consumer Solutions Designing and Management	E	2	1	2.5		40	60
IS 4220	Marketing Management	E	2	1	2.5		40	60
IS 4240	Product Management	E	2	1	2.5		40	60
IS 4520	Applied Market Research Methods	E	2	1	2.5		40	60

IS 4250	Business Architecture Modelling	E	2	1	2.5		40	60
		Total			**162.5**	**0.0**		

Total GPA Credits Requirement for Graduation	135.0
Total Compulsory Non GPA Credits Requirement	11.0
Total Elective Non GPA Credits Requirement	4.0

	Min [1]	**Max [2]**
Credit limit for elective modules from IN and CM modules	7.5	10
Credit limit for elective modules from IS modules	15	17.5

1 - Minimum required credits for graduation

2 - Maximum credits allowed to fulfill the graduation requirement

3 - A student may register for two extra modules over and above the maximum specified in IN and CM modules

Note - At least two elective modules must be taken at Semester 5 and 6