

Sri Lanka Institute of Information Technology

B.Sc. Honours in Information Technology - Specialization in Data Science

Module Code	Module Name	Credits	
		GPA	NGPA
<i>Year 1 Semester 1</i>			
IT 1010	Introduction to Programming	4	
IT 1020	Introduction to Computer Systems	4	
IT 1030	Mathematics for Computing	4	
IT 1040	Communication Skills	3	
<i>Year 1 Semester 2</i>			
IT 1050	Object Oriented Concepts	2	
IT 1060	Software Process Modeling	3	
IT 1080	English for Academic Purposes	3	
IT 1090	Information Systems and Data Modeling	4	
IT 1100	Internet and Web Technologies	4	

Module Code	Module Name	Credits	
		GPA	NGPA
<i>Year 2 Semester 1</i>			
IT2020	Software Engineering	4	
IT2030	Object Oriented Programming	4	
IT2040	Database Management Systems	4	
IT2050	Computer Networks	4	
IT2060	Operating Systems and System Administration	4	
<i>Year 2 Semester 2</i>			
IT2010	Mobile Application Development	4	
IT2070	Data Structures and Algorithms	4	
IT2080	IT Project	4	
IT2090	Professional Skills	2	
IT2100	Employability Skills Development –Seminar		1
IT2110	Probability and Statistics	3	

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<i>Year 3 Semester 1</i>			
IT3011	Theory and Practices in Statistical Modeling	4	
IT3021	Data Warehousing and Business Intelligence	4	
IT3030	Programming Applications & Frameworks	4	
IT3031	Database Systems and Data-Driven Application	4	
<i>Year 3 Semester 2</i>			
IT3110	Industry Placement		8
IT3041	Information Retrieval and Web Analytics	4	
IT3051	Fundamentals of Data Mining	4	
IT3061	Massive Data Processing and Cloud Computing	4	
IT3071	Machine Learning and Optimization Methods	4	

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<i>Year 4 Semester 1</i>			
IT4010	Research Project	16	
IT4070	Preparation for the Professional World		2
IT4021	Internet of Things and Big Data Analytics	4	
IT4031	Visual Analytics and User Experience Design	4	
<i>Year 4 Semester 2</i>			
IT4011	Database Administration and Storage Systems	4	
IT4041	Introduction to Information Security Analytics	4	