ELITE EDUCATION INSTITUTE

Course Overview of Bachelor of Information Technology (Software Development)

Course Structure

Title of the course of study:	Bachelor of Information Technology (Software Development)		
Course Description	The Bachelor Information Technology provides students with a solid grounding in the fundamental theories and applications of Information Technology, including programming, operating systems, databases, networking /cloud, security, and software project management. By completing this course, students will acquire essential knowledge and skills in Information Technology, creating a solid base to continue their progression in the IT industry. Upon completion, students may choose to further progress to higher-level courses such as a Master of Information Technology		
Structure of the course of study	The course structure is based on six semesters with 14 weeks duration. It comprises: • 19 core units (including 2 capstone units in Year 3) offered uniquely by BIT and 5 elective units from the Bachelor of Business over 3 years. • The elective units from the Bachelor of Business study will provide BIT graduates with the fundamental business knowledge and empower them to align their ICT knowledge and skills with an understanding of day-to-day business operations.		
	To qualify for the award of the Bachelor Information Technology, a candidate must: • Complete 24 units with accrued aggregate of at least 144 credit points, including satisfactory completion of the all core units (19 units of 114 credit points) noted below.		

Core / Elective Unit	Unit Code	Unit Name	Credit points
First Year			
Core Unit	ICT101	Communication for ICT Professionals	6
	ICT102	Programming Principles - Python	6
	ICT103	Introduction to Database Systems	6
	ICT104	Computer Systems	6
	ICT105	System Analysis and Design	6

	ICT106	Programming in Java 1 - Fundamentals (Prerequisite ICT102)	6
Elective Unit	ELE 1	Select from EEI's Bachelor of Business degree units	6
	ELE 2	Select from EEI's Bachelor of Business degree units)	6
Second Year			
Core Unit	ICT201	Data Structures and Algorithms (Prerequisite ICT106)	6
	ICT202	Programming in Java 2 – User Interface (UI) (Prerequisite ICT103, ICT106)	6
	ICT203	Software Design and Architecture	6
	ICT204	ICT Project Management	6
	ICT205	Software Development Practice (Prerequisite ICT202)	6
	ICT206	Networking Fundamentals (Prerequisite ICT104)	6
	ICT207	Web Programming (Prerequisite ICT103, ICT105)	6
Elective Unit	ELE 3	Select from EEI's Bachelor of Business degree units	6
Third Year			
Core Unit	ICT301	Ethics and Professional Practice	6
	ICT302	Software Development Project 1 (Prerequisite ICT105, ICT203, ICT204, ICT205, co-requisites ICT301)	6
	ICT303	Cloud Computing (Prerequisite ICT104)	6
	ICT304	Mobile Application Development - Android (Prerequisite ICT202, ICT207)	6
	ICT305	Software Development Project 2 (Prerequisite ICT302)	6
	ICT306	Cyber Security Management (Prerequisite ICT206 & ICT303)	6
Elective Unit	ELE 4	Select from EEI's Bachelor of Business degree units	6
	ELE 5	Select from EEI's Bachelor of Business degree units	6

Notes:

- **All elective unit selections must follow the EEI's Bachelor of Business degree's unit prerequisite requirements;**
- **ICT302 & ICT305 are related capstone units, which require the students to complete a real- world software development project.**

All existing EEI Bachelor of Business units are available for electives, subject to fulfilling the pre-requisite requirements.