Curriculum & Credit Structure

The curriculum for the BIT has been developed through a series of meetings and workshops conducted by a group of IT experts from the industry and the academia. The following tables describe the Course Modules for the Bachelor of Information Technology External Degree programme. It also provides the information regarding the credit rating for each course module and the credits that the student is required to earn to complete the academic requirements for Level 1 (Table 01 and 02), Level 2 (Table 03 and 04) and Level 3 (Table 05 and 06) of the programme. Table 07 shows the overall requirements.

The following nomenclature is used through this document:

C – Compulsory Course Module

E – Elective Course Module

One credit is considered to be equivalent to about four study hours per week in a semester of 14 weeks.

Level 1

Level 01

Semester 01		Credits
ITE 1912	Communication Skills Development	C 2
ITE 1112	Visual Application Programming	C 4
ITE 1812	Mathematics for IT	C 4
ITE 1712	Web Design	C 4
ITE 1922	ICT Applications	C 2
Total Credits – Semester 01		**16**
Semester 02		
ITE 1122	Fundamentals of Programming	C 4
ITE 1932	Technical Writing	C 2
ITE 1412	Information Management	C 2
ITE 1212	Computer Systems	C 2
ITE 1222	System Analysis & Design	C 2
ITE 1942	ICT Project	C 2
Total Credits – Semester 02		**14**
Total Credits – Level 01 (Compulsory)		**30**

Table 01: Level 1 – Curriculum and Credit Structure

Credit Requirements	GPA Compulsory	GPA Elective	Total
Total Credits offered	30	0	30
Total Credits required to complete Level 1	30	0	30

Table 02: Level 1 –Credit Requirements

Level 2

Level 02

Semester 01		Credits
ITE 2132	Object Oriented Programming	C 4
ITE 2142	Data Structures and Algorithms	C 2
ITE 2232	Computer Networks & Operating Systems	C 4
ITE 2722	Web Programming	C 4
ITE 2422	Database Management Systems	C 4
Total Credits – Semester 01		**18**
Semester 02		
ITE 2732	Multimedia Development	C 2
ITE 2152	Mobile Application Development	C 2
ITE 2162	Software Engineering	C 4
ITE 2312	IT Quality Assurance	C 2
ITE 2612	IT Project Management	C 2
ITE 2952	Programming Group Project	C 4
Total Credits – Semester 02		**16**
Total Credits – Level 02 (Compulsory)		**34**

Table 03: Level 2 – Curriculum and Credit Structure

Credit Requirements	GPA Compulsory	GPA Elective	Total
Total Credits offered	34	0	34
Total Credits required to complete Level 2	34	0	34

Table 04: Level 2 –Credit Requirements

Level 3

Level 03

Semester 01 + Semester 02		Credits
ITE 3822 Discrete Mathematics	C	4
ITE 3322 Professional Practice	C	2
ITE 3242 Information Security	C	2
ITE 3962 Project **	C	10
ITE 3512 Fundamentals of Artificial Intelligence	E	3
ITE 3622 Business Processes & Accounting Systems	E	3
ITE 3632 Principles of Management	E	3
ITE 3172 Enterprise Application Development	E	3
ITE 3972 Research Methodology	E	3
ITE 3742 Web Services	E	3
ITE 3642 Marketing	E	3
ITE 3432 Data Mining	E	3
ITE 3832 Probability and Statistics	E	3
ITE 3442 Management Information Systems	E	3
ITE 3752 Human Computer Interaction	E	3
ITE 3332 Quality Assurance in Practice	E	3
ITE 3652 Organizational Behavior	E	3
ITE 3522 Essentials of Artificial Cognitive Systems	E	3
ITE 3532 Essentials of Machine Learning	E	3
Total Credits Requirement – Level 3		
Composition of Total Credits Requirement in Level 03 (Compulsory 18 & Elective S1: 6+ S2: 12)		**36**

Table 05: Level 3 – Curriculum and Credit Structure

Credit Requirements	GPA Compulsory	GPA Elective	Total
Total Credits offered	18	45	63
Total Credits required to complete Level 3	18	18	36

Table 06: Level 3 –Credit Requirements

** Note:

- Registration should be done in Level 3 Semester 1

- Distribution of work load 40% in Semester 1 and rest 60% in Semester 2

Note: At Level 3, a student must earn 36 credits (18 credits from compulsory course modules and 18 credits from elective course modules)

The overall credit requirements to complete the Levels and the degree are shown in Table 7.

Credit Requirements	GPA Compulsory	GPA Elective	Total
Credit Requirements (Level 1)	30	0	30
Credit Requirements (Level 2)	34	0	34
Credit Requirements (Level 3)	18	18	36
Total	82	18	100