



# **University of Moratuwa**

## **Faculty of Information Technology**

### **Bachelor of Information Technology (BIT)**

#### **External Degree Programme**

Administered by the

Centre for Open & Distance Learning (CODL)

**Mode 02 –Direct Mode**

**(Candidates employed by the government of Sri Lanka or with prior tertiary education experiences)**

### **APPLICANT HANDBOOK**

**For the 15<sup>th</sup> Intake (October 2018)**

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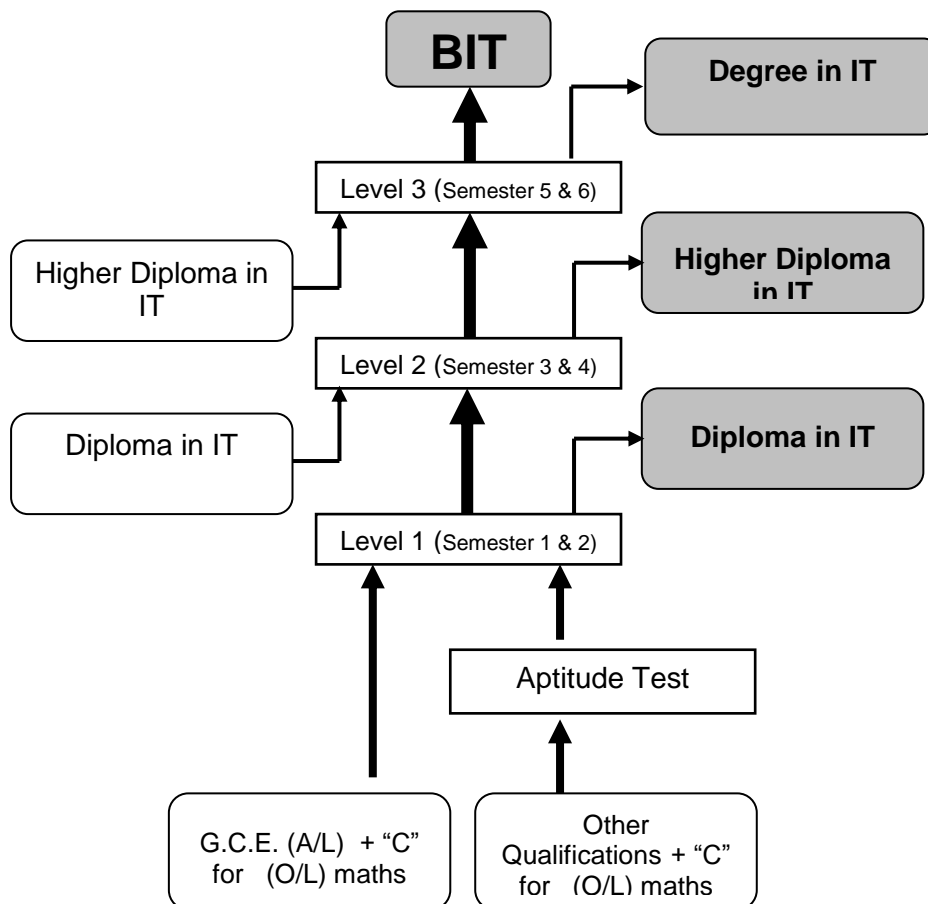
## 1. Introduction

The Faculty of Information Technology (FIT) of University of Moratuwa offers the **External Degree of Bachelor of Information Technology (BIT)** to produce graduates to meet the ever increasing demand for IT professionals. The programme is offered to allow higher educational opportunities for a wider audience of citizens in the country regardless of geographical locations.

The BIT Programme is delivered by the **Centre for Open & Distance Learning (CODL)** with two modes/options. One option is through a Partner Organization (PO) for collaborative provisions. The other option is for independent self-learning in open and distance learning (ODL) mode. (Independent self-learning opportunity is applicable only to candidates employed by the government of Sri Lanka or with prior tertiary education experiences.)

## 2. Programme Structure

The BIT External Degree Programme allows multiple entry points and multiple exit points as shown in Figure 1. The programme workload is divided into three different levels, Level 1, Level 2 and Level 3 which are also called the Diploma Level, the Higher Diploma Level and the Degree Level respectively. Each level consists of 2 semesters that end with examinations.



*Figure 1: Progression Path of BIT*

### 3. Entry Requirements

A student may enter the degree programme at different levels depending on the qualifications they have obtained as shown in Table 1.

<b>Level 1</b>	<p>An applicant may be considered for Admission to the BIT degree programme, if he/she has:</p> <ol style="list-style-type: none"> <li>1. Three passes in the G.C.E. (A/L) examination in one sitting and a credit pass for Mathematics in the G.C.E (O/L) examination.</li> <li>2. Any other academic qualification, equivalent to 1 or higher, approved by the Senate on the recommendation of the Faculty Board</li> <li>3. Any other qualification from a Professional Institution approved by the Senate on the recommendation of the Faculty Board</li> </ol> <p>A candidate who has obtained at least 6 passes in not more than two sittings and a credit pass in Mathematics at the GCE Ordinary Level Examination and a full-time Diploma/Certificate or higher qualification of at least 1 year duration from a recognized institution to have satisfied the entry criteria under section 2 above. (Applicants who do not qualify under section 1 must pass the Aptitude Test conducted by the Faculty)</p>
<b>Level 2</b>	To be considered for admission to the Degree programme at the Level 2 an applicant must successfully complete the Diploma Programme (i.e., the Level 1).
<b>Level 3</b>	To be considered for admission to the Degree programme at the Level 3 an applicant must successfully complete the Higher Diploma Programme (i.e., the Level 2).

**Table 1: Entry requirements**

The qualifications accepted by the university in place of (an alternative to) the 3 passes at G. C. E. (A/L) exam are:-

*At least 6 passes in not more than two sittings and a credit pass in Mathematics at the GCE (O/L) examination and a full-time Diploma / Certificate or higher qualification of at least 1 year duration from a recognized institution.*

The Senate has so far approved the following institutes / programs/ qualifications:

- Public sector universities
- National Institute of Business Management (NIBM)
- Training institute or programs accredited by the Tertiary and Vocational Education Commission (TVEC)
- Government technical colleges
- Recognized professional organizations (e.g., BCS, IESL, CIMA, CIM, PMI)
- Three E passes at the Edexcel Advanced GCE Examination
- Teacher's Diploma in Information Technology Program (1year ), Sri Lanka Institute of Information Technology (SLIIT)
- Professional in service English Teacher Training Program (1 year), National Institute of Education (NIE)
- *Trained Teachers' Certificate* (2 year, full-time) , Government Teacher Training Colleges
- *International Diploma in Computer Studies* of NCC Education, UK

#### 4. Exit Criteria

There are multiple exit points in the BIT degree programme. A student who successfully completes all academic and other requirements of each level will be awarded qualifications as indicated in Table 2.

Level 1	Diploma in Information Technology
Level 2	Higher Diploma in Information Technology
Level 3	Degree of Bachelor of Information Technology

**Table 2: Qualifications earned on completion of each Level**

#### 5. Programme Requirements

A candidate is considered to have successfully completed each level if he/she has completed the credit requirements at each level within the stipulated time period. Academic and evaluation activities will be carried out over two (02) semesters each year, with end of semester examinations.

The minimum period of study for each level of certification (Diploma, Higher Diploma, and Degree) is *Two Semesters*. A semester is typically of 14 weeks' duration.

The Course of study consists of:

- (a) Independent or guided study as per the course outline
- (b) Activities such as assignments, quizzes
- (c) Discussion forums
- (d) Projects

#### 6. Examinations

The Examinations for course modules conducted during a semester shall be held at the end of the Semester. Course Modules and project work shall be assessed on the basis of set-paper examinations, presentations and reports according to the curricula. The medium of examinations is English. The examination will be conducted in a selected center in Colombo.

#### 7. 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 conducted at present. However please note that the present curriculum has been revised to better meet the employment requirements. Curriculum provides the information regarding the credit rating for each module and the credits that a student is required to earn to complete the academic requirements for Level 1, Level 2 and Level 3 of the degree programme.

The following nomenclature is used through this document:

**C – Compulsory** Programme Modules

**E – Elective** Programme Modules

One credit is considered to be equivalent to one hour classroom teaching or about four self-study hours per week in a semester of 14 weeks.

Level 1			Credits
<b>Semester 01</b>			
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
<b>Semester 02</b>			
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

**Table 3: List of Course Modules in Level 1**

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

**Table 4: Credit Requirements for Level 1**

Level 2			Credits
<b>Semester 01</b>			
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
<b>Semester 02</b>			
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

Table 5: List of Course Modules in Level 2

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

Table 6: Credit Requirements for Level 2

Level 3			Credits
<b>Semester 01</b>			
ITE 3822	Discrete Mathematics	C	4
ITE 3322	Professional Practice	C	2
ITE 3242	Information Security	C	2
ITE 3962	Project **	C	4
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
<b>Semester 02</b>			
ITE 3962	Project **	C	6
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

**Table 7: List of Course Modules in Level 3**

- \*\*Note : 1. Registration should be done in Level 3 Semester 1  
2. Distribution of work load 40% in Semester 1 and rest 60% in Semester 2

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

**Table 8: Credit Requirements for Level 3**

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 09.

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
<b>Total</b>	82	18	100

**Table 9: Summary of Credit Requirements**

## 8. Student Assessment and Evaluation

The student progress evaluation of the BIT programme consists of the following:

### a) Continuous Assessment

Continuous assessments based on assignments, discussion forums, practical assessments and other forms as decided by the Faculty of Information Technology and the appointed examiners.

### b) Examinations

An examination will be conducted at the end of each semester for each course module offered in the semester.

### c) Final Project

The students will carry out an individual project during the Level 3 of the programme. Guidelines on the final project will be issued upon the student's registration for Level 3 of the programme.

### d) Repeat Examinations

Any student failing a course module examination at the first attempt will have opportunities to sit again at subsequent module examinations in later semesters.

## 9. Charges and Student Fees

The registration and course fee of the BIT programme is **Rs. 200,000** for all three years. Payments could be made either in full at the beginning of the Academic Programme (Table 10), at the beginning of each academic year (Table 11) or in installments at the beginning of each academic semester (Table 12).

	<b>Registration Fee</b>	<b>Course Fee</b>	<b>Total</b>
Level 1 -3	Rs. 600	Rs. 199,400	Rs. 200,000

**Table 10: Fee Structure for the Bachelor of Information Technology Degree Programme for students paying at the beginning of the Academic Programme**

	<b>Registration Fee</b>	<b>Course Fee</b>	<b>Total</b>
Level 1	Rs. 200	Rs. 89,800	Rs. 90,000
Level 2	Rs. 200	Rs. 59,800	Rs. 60,000
Level 3	Rs. 200	Rs. 49,800	Rs. 50,000
<b>Total fees</b>			<b>Rs. 200,000</b>

**Table 11: Fee Structure for the Bachelor of Information Technology Degree Programme for students paying at the beginning of each academic year**

	<b>Registration Fee (payable at the beginning of the Semester 1)</b>	<b>Semester 1</b>	<b>Semester 2</b>	<b>Total</b>
Level 1	Rs. 200	Rs. 49,800	Rs. 45,000	Rs. 95,000
Level 2	Rs. 200	Rs. 34,800	Rs. 30,000	Rs. 65,000
Level 3	Rs. 200	Rs. 29,800	Rs. 25,000	Rs. 55,000
<b>Total Fees</b>				<b>Rs. 215,000</b>

**Table 12 : Fee Structure for the Bachelor of Information Technology Degree Programme for students paying on installment basis at the beginning of each semester**

The above fee is payable direct to the University of Moratuwa, at any branch of the **Bank of Ceylon** to the credit of **Bank of Ceylon A/C No 70993353 of the University of Moratuwa** by using the paying-in-voucher available at the bank and a receipt obtained. Please ensure that **“Bachelor of Information Technology”** is stated as the Programme name. A copy of the receipt should be sent to the university along with other documents.

**Contact :-**

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