



Applicant Handbook for HNDIT (SLIATE) Students (New Syllabus)

For the 17th Intake (August 2019)

Bachelor of Information Technology (BIT)

External Degree Programme

Faculty of Information Technology

Administered by the

Centre for Open & Distance Learning (CODL)

University of Moratuwa

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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 (self-study mode) in open and distance learning (ODL).

2.Programme Structure

The BIT External Degree Programme allows multiple entry points and multiple exit points as shown in Figure 1. The programme work load 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.

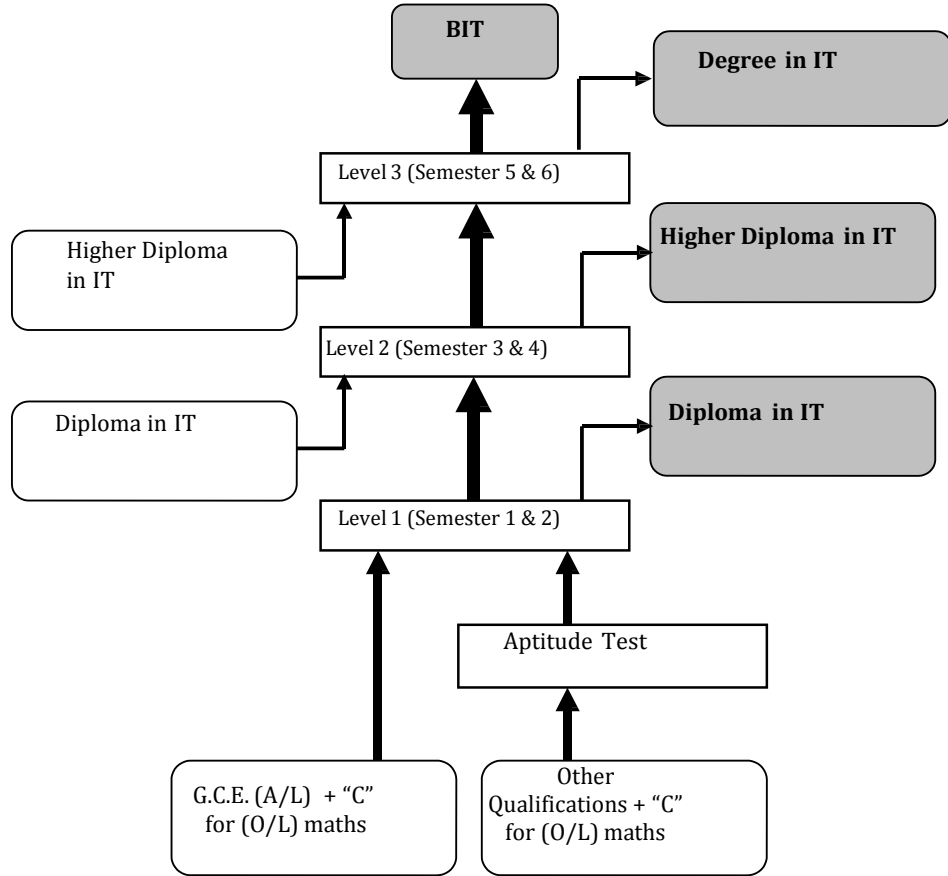


Figure 1: Progression Path of BIT

3. Lateral Entry to BIT (External) Degree

3.1 Exemptions for Common Modules in HNDIT (2014 HNDIT Curriculum)

A candidate who has completed all course modules listed below in the HNDIT curriculum can be exempted below tabled (16) modules of the BIT External Degree Programme under the revised curriculum with effect from January 2019.

Year 01 (Semester 1 & Semester 2)		
HNDIT Module Code	Module Title	Exempted Module Codes & Names in BIT
HNDIT1101	Personal Computer Applications	ITE 1912 Communication Skills Development ITE 1812 Mathematics for IT ITE 1712 Web Design ITE 1922 ICT Applications ITE 1122 Fundamentals of Programming ITE 1932 Technical Writing ITE 1412 Information Management ITE 1212 Computer Systems ITE 1222 System Analysis & Design ITE 1942 ICT Project
HNDIT1102	Computer Hardware	
HNDIT1103	Structured Programming	
HNDIT1104	Data Representation and Organization	
HNDIT1105	Database Management Systems	
HNDIT1106	Web Development	
HNDIT1107	Mathematics for IT	
HNDIT1108	English for Technology I	
HNDIT1209	Object Oriented Programming	
HNDIT1210	Graphics and Multimedia	
HNDIT1211	Data Structures and Algorithms	
HNDIT1212	Systems Analysis and Design	
HNDIT1213	Data Communications and Networks	
HNDIT1214	Statistics for IT	
HNDIT1215	English for Technology II	
HNDIT1216	Human Values and Professional Ethics	

Year 02 (Semester 03)		
HNDIT Module Code	Module Title	Exempted Module Code & Name
HNDIT2301	Operating Systems and Computer Security	ITE 2132 Object Oriented Programming ITE 2142 Data Structures and Algorithms ITE 2232 Computer Networks & Operating Systems ITE 2732 Multimedia Development ITE 2612 IT Project Management ITE 2952 Programming Group Project
HNDIT2302	IT Project Management	
HNDIT2303	Principles of Management and Applied Economics	
HNDIT2304	Project(Group)	
HNDIT2305	English for Technology III	

3.2 List of Exempted Modules for Different Specialization Tracks

Total number of exempted modules are varying from the track you were chosen at the HNDIT.

HNDIT Module Code	Module Title	Exempted Module Code and Name
Developer Track		
HNDIT2311	Rapid Application Development	ITE 1112 Visual Application Programming
HNDIT2413	Web Application Development	ITE 2722 Web Programming
HNDIT2417	Mobile Application Development	ITE 2152 Mobile Application Development
HNDIT2312	Principles of Software Engineering	ITE 2162 Software Engineering
HNDIT2313	Object Oriented Analysis and Design	
Administration Track		
HNDIT2321	Advanced Database Management Systems	ITE 2422 Database Management Systems

Analyst Track		
HNDIT2433	Software Quality Assurance	ITE 2312 IT Quality Assurance

3.3 Required Modules for Different Specialization Tracks

The list of **not exempted** modules in level 01 and level 02 are listed below.

Track	Level	Module Code	Module Name	No of Credits
Developer Track	2	ITE 2422	Database Management Systems	4
	2	ITE 2312	IT Quality Assurance	2
			Total	06
Administration Track	1	ITE 1112	Visual Application Development	4
	2	ITE 2722	Web Programming	4
	2	ITE 2162	Software Engineering	4
	2	ITE 2152	Mobile Application Development	2
	2	ITE 2312	IT Quality Assurance	2
			Total	16
Analyst Track	1	ITE 1112	Visual Application Development	4
	2	ITE 2722	Web Programming	4
	2	ITE 2422	Database Management Systems	4
	2	ITE 2162	Software Engineering	4
	2	ITE 2152	Mobile Application Development	2
			Total	18

Note:

1. Payment for Level 3 – Rs. 120,000/=
2. Payment for the rest of the subjects in L2 and L1 will be decided based on the no of credits per the module as listed below.
02 credits - Rs. 2250/=
03 credits - Rs. 2500/=
04 credits - Rs. 2750/=
3. Total credits requirement in Level 3 is 36 credits. It consists with 18 compulsories and 18 electives.

Exemptions for Common Modules in HNDIT (2010 -2014 HNDIT Curriculum)

A candidate who has completed all the course modules in the HNDIT(SLIATE) 2010 – 2014 curriculum including the final project can be exempted from Level 1 and Level 2 course modules of the BIT External Degree Programme listed in Below Table.

Level 01					
Semester 01				2010- 2014 HNDIT Curriculum	
Module Code	Module Name	Module Type	Credits	Exempted or Not	Reason
ITE 1912	Communication Skills Development	C	2	Exempted	IT 1006 , IT A003
ITE 1112	Visual Application Programming	C	4	<i>Exempted if IT 3101 is taken</i>	
ITE 1812	Mathematics for IT	C	4	Exempted	IT 3001, IT 1002
ITE 1712	Web Design	C	4	Exempted	IT 1007, IT A002
ITE 1922	ICT Applications	C	2	Exempted	IT A001
Total Credits - Semester 01			16		
Semester 02					
ITE 1122	Fundamentals of Programming	C	4	<i>Not exempted</i>	
ITE 1932	Technical Writing	C	2	Exempted	IT 2006, IT B002
ITE 1412	Information Management	C	2	Exempted	IT 1005
ITE 1212	Computer Systems	C	2	Exempted	IT 1001, IT 3002
ITE 1222	System Analysis & Design	C	2	Exempted	IT 2005
ITE 1942	ICT Project	C	2	Exempted	IT B001, IT 4004
Total Credits - Semester 02			14		
Total Credits - Level 01 (Compulsory)			30		
Level 02					
Semester 01				2010- 2014 HNDIT Curriculum	
Module Code	Module Name	Module Type	Credits	Exempted or Not	Reason
ITE 2132	Object Oriented Programming	C	4	Exempted	IT 2001
ITE 2142	Data Structures and Algorithms	C	2	Exempted	IT 2003
ITE 2232	Computer Networks & Operating Systems	C	4	<i>Not exempted</i>	
ITE 2722	Web Programming	C	4	<i>Exempted if IT 4103, IT 4101 is taken</i>	
ITE 2422	Database Management Systems	C	4	<i>Exempted if IT 3201 is taken</i>	
Total Credits - Semester 01			18		
Semester 02					
ITE 2732	Multimedia Development	C	2	Exempted	IT 2002
ITE 2152	Mobile Application Development	C	2	<i>Not exempted</i>	
ITE 2162	Software Engineering	C	4	<i>Exempted if IT3102 and IT 3103 are taken</i>	
ITE 2312	IT Quality Assurance	C	2	<i>Exempted if IT 4303 is taken</i>	
ITE 2612	IT Project Management	C	2	Exempted	IT 4001
ITE 2952	Programming Group Project	C	4	Exempted	IT B001, IT 4004
Total Credits - Semester 02			16		
Total Credits - Level 02 (Compulsory)			34		

Table :Exemptions for Common modules in HNDIT (2010 -2014 HNDIT CURICULUM)

4. 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, (A semester is typically of 14 weeks' duration) with end of semester examinations.

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

5. 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.

6. 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.

Revised Curriculum - BIT (External) Degree

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

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

Level 03			
Semester 01			Credits
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
Total Credits - Semester 01			27
Semester 02			
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
Total Credits - Semester 02			36
Total Credits - Level 03 (Compulsory 18 & Elective S1: 6+ S2: 12)			36

- **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

7. Credit requirements to complete the each level

Level 01					
Credit Requirements	GPA Compulsory		GPA Elective		Total
	S1	S2	S1	S2	
Total Credits required to complete Level 01	16	14	0	0	30

Level 02					
Credit Requirements	GPA Compulsory		GPA Elective		Total
	S1	S2	S1	S2	
Total Credits required to complete Level 02	18	16	0	0	34

Level 03					
Credit Requirements	GPA Compulsory		GPA Elective		Total
	S1	S2	S1	S2	
Total Credits required to complete Level 03	12	6	6	12	36

Total Credit Requirements to complete the degree			
Credit Requirements	GPA Compulsory	GPA Elective	Total
Credit Requirement - Level 1	30	0	30
Credit Requirement - Level 2	34	0	34
Credit Requirement - Level 3	18	18	36
Total	82	18	100

8. Charges and Student Fees

8.1 University Charges for Lateral Entry Students (HNDIT)

The registration and course fee of the (BIT) external degree is **Rs. 120,000** for third (03) year. Payments could be made either in full at the beginning of the of each academic year (Table 1) or in installments at the beginning of each academic semester (Table 2).

Payment for the rest of the subjects in L2 and L1 will be decided based on the no of credits per the module as listed below.

02 credits - Rs. 2250/=

03 credits - Rs. 2500/=

04 credits - Rs. 2750/=

	Registration Fee	Programme Fee	Total
Level 3	Rs. 400	Rs. 119,600	Rs. 120,000

Table 01: Fee Structure for the Bachelor of Information Technology (BIT) external degree for students paying at the beginning of the Academic Programme.

	Registration Fee	Programme Fee	Total
Level 3 Semester 1	Rs. 200	Rs. 59,800	Rs. 60,000
Level 3 Semester 2	Rs. 200	Rs. 59,800	Rs. 60,000
Total fees			Rs.120,000

Table 02: Fee Structure for the Bachelor of Information Technology (BIT) external degree for students paying at the beginning of each Semester

The above fees are 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.

In addition, if you have selected the partner organization mode to follow the programme, you are required to pay the lecture fee as per the fee structure of the selected partner organization which will be communicated to you by them. Your registration will be valid only after both payments are made.

1. Contact Details

Institute	Telephone	Website	email
CODL University of Moratuwa	011 308 2787 011 308 2788	www.codl.lk	info@codl.lk
OpenArc Campus	011 282 5306 072 722 3300	www.openarc.edu.lk	info@openarc.edu.lk
Horizon Campus	011 436 5555 071 662 3623	www.horizoncampus.edu.lk	info@horizoncampus.edu.lk

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