



University of  
Colombo



**BIT**

# STUDENT HANDBOOK 2020

BACHELOR OF INFORMATION TECHNOLOGY

*(External Degree Programme)*



**ucsc** University of Colombo School of Computing



**University of Colombo  
Sri Lanka**



**BACHELOR OF INFORMATION  
TECHNOLOGY (BIT)  
External Degree**

*Student Handbook  
Academic Year - 2020*

Conducted by



**University of Colombo School of Computing**

## **Disclaimer**

*This handbook is compiled with information received up to December 2019, and is applicable to the students of all Levels of Academic Year 2020*

*It is hereby informed that this handbook is only for general information and is not for official purposes.*

*Any information contained herein should be confirmed by reference to the relevant authority.*

*For the latest version of the handbook please visit our website*

<http://bit.ucsc.cmb.ac.lk>  
<http://www.bit.lk>

# VISION & MISSION OF THE UCSC

## ***Vision***

Be a global leader in computing education, advancing the frontiers of knowledge through teaching, learning and research.

## ***Mission***

To advance and enhance computing studies, fostering global strategic alliances, promoting interdisciplinary research, producing socially responsible professionals with entrepreneurial skills, leadership qualities and integrity contributing to position the country as a knowledge hub in the region.

## MESSAGE FROM THE VICE CHANCELLOR



I extend to each and every one of you my sincere congratulations on being admitted as an external student for the Bachelor of Information Technology (BIT) degree programme conducted by the University of Colombo School of Computing (UCSC). The University of Colombo has a history dating back to 150 years and is the most prestigious university to read a degree programme in Sri Lanka. Although many students want to register as an internal student, it is not possible to provide such opportunities due to the limitation of resources and other regulatory issues. In such circumstances, the external degree programmes in the University of Colombo provide open distance learning opportunities for registered students to obtain their graduate or diploma level qualifications. The UCSC which is a proud feature of the University of Colombo, and is given the responsibility of managing the BIT degree programme since 2000. It is noteworthy that the commencement of this specific programme was by the Institute of Computer Technology (ICT), the predecessor of the UCSC. The ICT took the initiative to launch the external degree in Information Technology (BIT) with the anticipation of developing the human capital in information and communication technologies to meet the national demand of professionals in the country. The BIT provides a well-

defined syllabus that is well aligned with international standards. Its syllabus is reviewed and updated regularly to meet the changing requirements of the industry. You will be happy to note that this degree programme enables you to secure a wide range of job opportunities and has been redesigned according to the policy on Sri Lanka Qualification Framework (SLQF) introduced by University Grants Commission (UGC). In 2002, the UCSC was established by merging the Institute of Computer Technology (ICT) and the Department of Computer Science (DCS) of the Faculty of Science in order to expand the capacity of University of Colombo to contribute to the development of computing education and research. After 18 years, the UCSC has become the strongest learning facility for computing education with more than 35 academic staff who hold postgraduate qualifications. All staff of UCSC are actively engaged in and contribute to the development of the BIT programme which has become the most popular local external degree programme in Information Technology. Hence, it is a great opportunity in your career to become a student of this external degree programme. The student handbook is a useful document for you both regarding the degree programme and the operational mechanisms of the academic and administrative spheres. Nevertheless, it is important for you to self-explore and expand your awareness about the degree programme as well as the University of Colombo. Hence, I invite you to browse the University of Colombo website ([www.cmb.ac.lk](http://www.cmb.ac.lk)) to know about interesting activities that are happening in real-time. As students of the University of Colombo, I hope that you will derive the maximum benefits from the treasure trove of opportunities that will be bestowed upon you and work with commitment to become the responsible citizens whom Sri Lanka needs now and in the future. I wish you every success and a bright future in all your endeavors.

**Senior Professor Chandrika N Wijeyaratne**

Vice-Chancellor of the University of Colombo

## MESSAGE FROM THE DIRECTOR



I am honored to welcome all the new students of BIT degree programme of the University of Colombo on behalf of the management of the UCSC. Simultaneously I would like to congratulate all of them for being fortunate to get the admissions for the best higher education institute in computing in Sri Lanka. Since the beginning in 2002, UCSC has undertaken the responsibility of managing the BIT degree as one of its primary responsibilities. You have started a new era of higher education and it will be different from your school education. In university education, the role of the institute has been just to facilitate your learning. Thus UCSC is dedicated to a student centered education that encourages academic excellence through the well-defined and gradually updated syllabus. Moreover, we have a qualified academic staff to support all of you, by any means necessary to ensure that the students reach their fullest academic potentials. In that manner, since the beginning, UCSC has been gradually moving towards success by following the vision of the UCSC. Another significant fact that you have to keep in your mind is the importance of English for the successful completion of the degree. Since all the courses are conducted in English, certain challenges can be occurred when you are following the BIT programme. Therefore, it is essential to work hard

to overcome these barriers. The beginning of anything is hard. You might face problems trying to adjust to the study programme. But try to be strong and go towards your targets. Finally, I would like to remind all of you that it is your responsibility to maintain the dedication in your education and skill development since the future and the development of our country depends on you. Providing the curriculum path and learning resources cannot make you an outstanding graduate unless you become active learners and follow your studies properly and independently. Thus, I hope that all of the new BIT undergraduates will do their best and grow into locally and internationally renowned personalities with innovative and expert minds. Once again, I wish you all the best for the new journey that you are going to commence.

***Professor K P Hewagamage***

Director of the University of Colombo School of Computing



## ACRONYMS

ADMTC	:	Advanced Digital Media Technology Centre
A/L	:	Advanced Level
BIT	:	Bachelor of Information Technology
CSC	:	Computing Services Centre
DIT	:	Diploma in Information Technology
EDC	:	External Degrees Centre
eLC	:	e-Learning Centre
FIT	:	Foundation in Information Technology
G.C.E.	:	General Certificate in Education
GPA	:	Grade Point Average
GPV	:	Grade Point Value
HDIT	:	Higher Diploma in Information Technology
ICT	:	Information and Communication Technologies
IT	:	Information Technology
LMS	:	Learning Management System
MPhil	:	Master of Philosophy
MSc	:	Master of Science
O/L	:	Ordinary Level
PDC	:	Professional Development Centre
PhD	:	Doctor of Philosophy
R&D	:	Research and Development
UCSC	:	University of Colombo School of Computing
UGC	:	University Grants Commission
VLE	:	Virtual Learning Environment

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SECTION 1

# INTRODUCTION



## 1.1 THE UNIVERSITY OF COLOMBO

The history of higher education in Sri Lanka is closely linked to that of the University of Colombo established in the year 1870, as the Ceylon Medical College by the Government of that day under the leadership of Governor, Sir Hercules Robinson. The University of Colombo could claim to have been associated with higher education for over 100 years. This is an important legacy that all undergraduates who join the University of Colombo must be aware of and be proud of.

The vision of the University of Colombo, is to become a centre of excellence of international repute that contributes significantly to the national development and human resource development, particularly in the South Asian region. Conscious of its long traditions as a leading tertiary education institution in the Island, it promotes scholarship and research. It seeks to create and sustain a culture of learning and critical inquiry that respects viewpoint differences, inculcating a sense of social responsibility and service and commitment to democratic values in a plural society.

The University of Colombo is a metropolitan university and the students are at a distinct advantage of being at the hub of cultural, economic and political activities in the country. Since its establishment as a distinct university, it has expanded its departments and programmes, and acquired reputation within the country as well as abroad for academic excellence.

The university has many faculties and institutes which are in great demand for the programmes that they offer for undergraduate and postgraduate students, and for a wider community (<http://www.cmb.ac.lk>). The services of its staff are also increasingly used by the research community, international development agencies and the governmental and non-governmental sectors. Students should feel very privileged to belong to the University of Colombo with its long tradition of excellence in teaching, learning, research and contribution to the community. The University of Colombo started its computing activities in 1967 and today it is the most advanced higher educational institution, in the forefront of human resource development in Information and Communication Technologies in Sri Lanka.

You can find more details about the University of Colombo from its website at <http://www.cmb.ac.lk>.

## 1.2 THE UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

In September 2002, University of Colombo School of Computing (UCSC) was established by merging The Institute of Computer Technology and the Department of Computer Science both of the University of Colombo, as the first centre of higher learning of computing in Sri Lanka. Its main objective was to promote the computing studies at the University of Colombo, which was commenced in 1967 under the guidance of Late Professor Vidya Jothi V. K. Samaranayake who was the founding director of University of Colombo School of Computing.

Currently, UCSC offers degree programmes, both at the undergraduate and postgraduate levels in addition to specialized certificate courses. Carrying out research and development work in the computing is also one of the main key areas contributed by the UCSC. In addition, UCSC also contributes to the national development by contributing Information Communication Technology development in the country. All these activities are planned and carried out considering the following 6 goals under the strategic plan of the UCSC. More details about UCSC including its current activities are regularly published at the <http://www.ucsc.cmb.ac.lk>



## 1.3 GOALS OF UCSC

### GOAL 1

To be a centre of excellence in teaching and learning in computing

### GOAL 2

To promote research and development in computing while emphasizing interdisciplinary research.

### GOAL 3

To improve the qualities and responsibilities and professionalism of the students/ staff.

### GOAL 4

To enhance infrastructure facilities for higher productivity through development of physical resources and human capital.

### GOAL 5

To enhance the institutional image through good governance.

### GOAL 6

To contribute to the development of ICT in the society.

## 1.4 UNDERGRADUATE EDUCATION IN COMPUTING AT UCSC

The University Grant Commission has issued instructions to all public universities in the circular 995 (Revised) (<https://www.ugc.ac.lk/en/policy/commission-circulars/98-circulars-published-in-2012-973-997-/1090-commcircular-995-certification-of-computing-degrees-to-align-with-international-standards.html>) to align computing education according to the international classification of five disciplines. Hence, UCSC conducts 6 degree programmes according to the curriculum guidelines of IEEE-ACM namely, B.Sc. in Computer Science, B.Sc. (Honors) in Computer Science, B.Sc. (Honors) in Software Engineering, B.Sc. in Information Systems, B.Sc. (Honors) in Information Systems Bachelor of Information Technology (BIT). Except for BIT degree programmes, all other degrees are internal programmes based on the UGC intake policy and details of those programmes are available at <https://ucsc.cmb.ac.lk/academic-programmes/ug/>. It is important to mention that UCSC has followed UGC guidelines, including Sri Lanka Qualification Framework (SLQF) levels (<http://www.ugc.ac.lk/en/all-notice/1156-sri-lanka-qualifications-framework.html>) and IEEEACM curriculum guidelines for computing degrees (<https://www.acm.org/education/curricula-recommendations>) when developing all these internal and external degree programmes at the undergraduate levels. Hence, all these degrees are acceptable both at national and international level.

## 1.5 POSTGRADUATE EDUCATION IN COMPUTING AT UCSC

After completing your first degree, you can consider enrolling in a postgraduate degree programme in order to continue your computing education. UCSC offers masters level postgraduate programmes as well as research level postgraduate programmes. Masters degree in Computer Science at the UCSC was initiated in 1990 as a conversion degree programme, but it was later updated as a second qualification for those who have a computing degree as the first degree. Master of Information Technology degree is offered as a conversion degree for those who do not have their first degree in Computing. In addition to that, UCSC has started several specialized masters degree programme in Information Security, Cybersecurity, Business and Data Analytics. You can find further details on postgraduate degree programmes by visiting the UCSC website at [www.ucsc.cmb.ac.lk/pg](http://www.ucsc.cmb.ac.lk/pg) and those programmes are also listed below for your information.

### **1.5.1 | MASTER OF COMPUTER SCIENCE (SLQF LEVEL 9)**

The Master of Computer Science programme is designed for computing professionals who already possess a degree in computing and who wish to acquire a postgraduate qualification in Computer Science.

### **1.5.2 | MASTER OF SCIENCE IN COMPUTER SCIENCE (SLQF LEVEL 10)**

Master of Science in Computer Science Programme is designed for those who wish to acquire a Computer Science degree with a research focus.

### **1.5.3 | MASTER OF INFORMATION TECHNOLOGY (SLQF LEVEL 9)**

The Master of Information Technology programme is targeted at graduates in disciplines other than computing who wish to pursue a career in an Information Technology related area. This is also suitable for those who wish to specialize in a multi-disciplinary field.

### **1.5.4 | MASTER OF INFORMATION SECURITY (SLQF LEVEL 9)**

The Master of Information Security programme is designed for graduates who wish to acquire a postgraduate qualification in the area of information security. This programme offers mid-career opportunities for those working in the areas of information technology, information system audit and information security.

### **1.5.5 | MASTER OF BUSINESS ANALYTICS (SLQF LEVEL 9)**

The Master of Business Analytics Programme is designed for graduates who wish to acquire a postgraduate qualification in data science with the focus on business analytics.

### **1.5.6 | MASTER OF CYBERSECURITY (SLQF LEVEL 9)**

Master of Cybersecurity Programme is designed considering the network security and digital forensic. The first programme was offered in 2018 as a distance master programme to a group of international candidates funded by the European Union under the Asi@Connect project.

### **1.5.7 | MASTER OF SCIENCE IN BIOINFORMATICS (SLQF LEVEL 10)**

UCSC together with the Institute of Biochemistry, Molecular Biology and Biotechnology (IBMBB) offers a part time Master's degree Programme in Bioinformatics. This programme is administered by the IBMBB.

## 1.6 RESEARCH DEGREES AT UCSC

UCSC also offers research degrees to provide opportunities for candidates who are willing to continue their postgraduate studies through research and development activities. Graduates with first or second class level degrees or masters degree with very good academic record could consider applying those degrees. Current programmes are listed below and more details available in the UCSC website at <https://ucsc.cmb.ac.lk/academic-programmes/research-degrees/>

### 1.6.1 | MASTER OF COMPUTING BY RESEARCH (SLQF LEVEL 9)

It is a one year fulltime degree programme for graduates who have research experience in their first degree with very good academic records.

### 1.6.2 | MASTER OF PHILOSOPHY (MPHIL) IN COMPUTING (SLQF LEVEL 11)

Candidates who have research experience and good record of computing discipline could register for the Master of Philosophy degree programme fulltime (two years) or Part Time (three years). If they have a good performance after one year of study, they can request to upgrade the degree to Doctor of Philosophy (PhD) in Computing. Details at <https://ucsc.cmb.ac.lk/mphil-programme/>

### 1.6.3 | DOCTOR OF PHILOSOPHY (PHD) IN COMPUTING (SLQF LEVEL 12)

Candidates who have research degree at the level of MPhil or equivalent could register for PhD in computing for a period of 3 years fulltime. His academic records and research experience will be evaluated to determine the suitability of the candidate and there are scholarships for such candidates for these degrees at the UCSC. Details at <https://ucsc.cmb.ac.lk/phd-programme/>

## 1.7 STRUCTURE OF THE UCSC

The primary activity of the University of Colombo School of Computing is to deliver quality undergraduate and postgraduate degree programmes in computing. The UCSC has three academic departments, six administration divisions namely General Administration Division, Establishments Division, Academic, Publications and Welfare Division, Postgraduate, Research and Publications Division, Examination and Registration Division and Quality Assurance Cell, one finance division and six centres. The academic staff is allocated to the three academic departments based on their specialization and teaching expertise. The main administration and operational units of UCSC are shown in the Figure 1.

Following are the three academic departments based on the research interest.

- Department of Information Systems Engineering (ISE)
- Department of Computation and Intelligent Systems (CIS)
- Department of Communication and Media Technologies (CMT)

### 1.7.1 ORGANIZATIONAL STRUCTURE

#### Centres of the UCSC

Centres	Advanced Digital Media Technology Centre (ADMTC)
	Centre for Digital Forensics (CDF)
	Computing Services Centre (CSC)
	External Degrees Centre (EDC)
	e-Learning Centre (eLC)
	Professional Development Centre (PDC)

#### Board of studies at the UCSC

BoS: Board of Studies, which consists of IUD, RHD and EEP	Internal Undergraduate Degrees (IUD)
	Research and Higher Degrees (RHD)
	External and Extension Programmes (EEP)

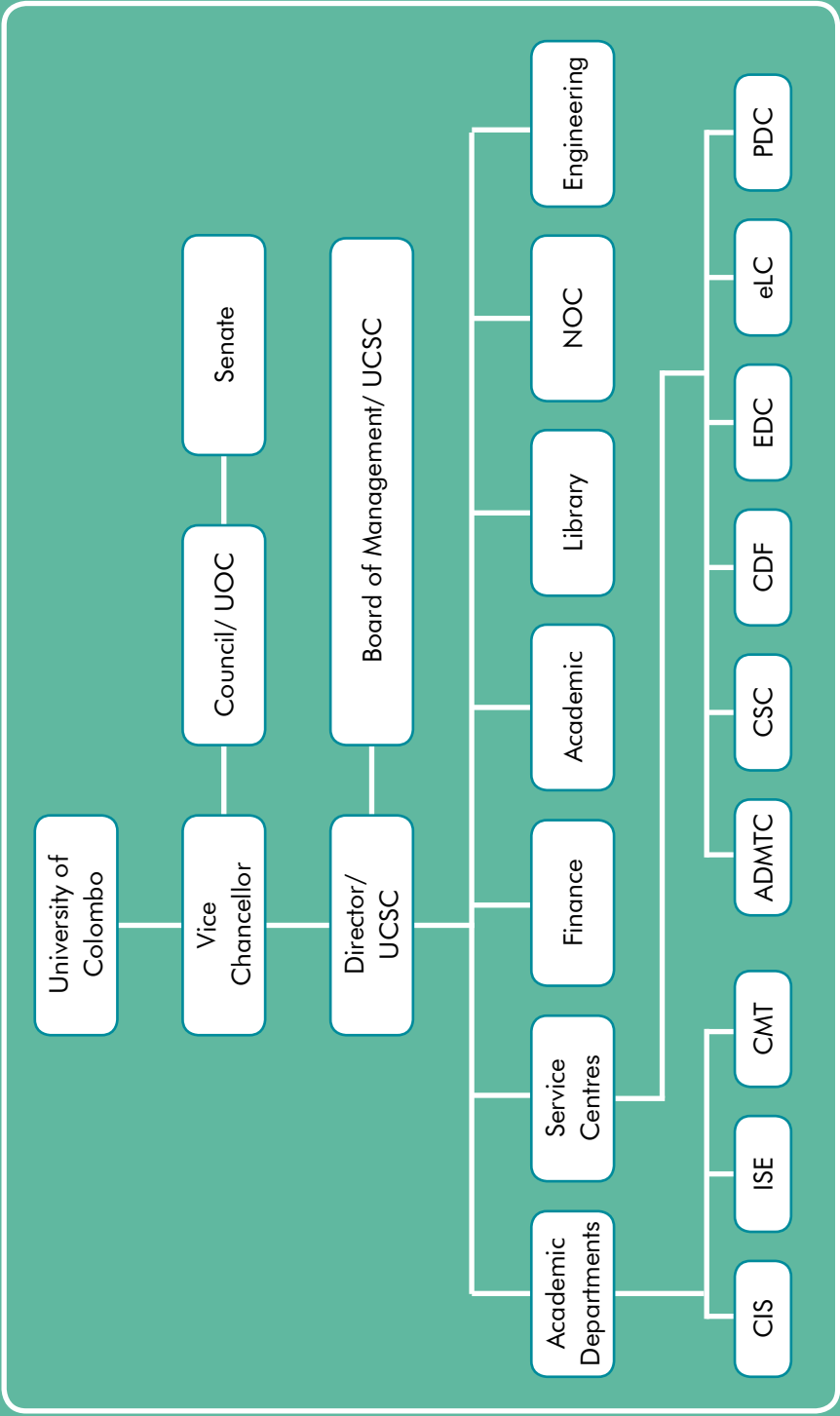


Figure 1: Main Administration and Operational Units of UCSC

### 1.7.2 | ADVANCED DIGITAL MEDIA TECHNOLOGY CENTRE (ADMTC)

Advanced Digital Media Technology Centre (ADMTC) was established with the support of JICA (Japan International Cooperation Agency) in order to implement the “Project for Human Resource Development in Information Technology through capacity building of the UCSC”. The centre is equipped with a state-of-the-art digital studio, a multimedia laboratory and an auditorium. Centre also conducts several training programmes in Multimedia, Web based Application development, and Digital Media Production. For more details visit the website: <http://www.ucsc.cmb.ac.lk/admtc>

### 1.7.3 | CENTRE FOR DIGITAL FORENSICS (CDF)

Centre for Digital Forensics (CDF) was established in 2011. The advisory panel consists of UCSC and foreign academics. UCSC has played a key role in assisting the Sri Lanka Police and the Criminal Investigation Department since 2003. The centre investigates evidence of digital crimes. For more details visit the website: <http://www.ucsc.cmb.ac.lk/dfc>

### 1.7.4 | COMPUTING SERVICES CENTRE (CSC)

*Training courses ranging from awareness to specific skills such as Java Application Developments using JavaSE, Dynamic Web Application Development with PHP and MySQL, Fundamentals of IT for beginners are conducted by the CSC during weekday evenings and weekends. Software development unit of the CSC provide assists in automating various processors of the BIT programme. For more details visit the website: <http://www.ucsc.cmb.ac.lk/csc>*



### 1.7.5 | EXTERNAL DEGREES CENTRE (EDC)

The main purpose of establishing the External Degrees Centre (EDC) is to facilitate managing the external degree programme, Bachelor of Information Technology (BIT), which is to widen the higher educational opportunities for the students who have been unsuccessful in meeting the competitive eligibility criteria for admission to the state university system. Another reason has been the massive demand from the ICT industry for high quality human resources far exceeding the number provided by the state universities. The BIT degree programme commenced in the year 2000 and has so far produced 2450 graduates and almost all graduates have been absorbed by the ICT industry. Internal students of all state universities have the right to follow BIT degree programme since it is a part time programme. For more details visit the website: <http://www.bit.lk>

### 1.7.6 | eLEARNING CENTRE (eLC)

The UCSC was identified by donor agencies such as Swedish International Development Agency (SIDA) and European Union Asia Link Programme as an ideal location for a centre of excellence in e-Learning. In 2003, e-Learning Centre (eLC) has established an online learning environment at UCSC. The centre provides necessary support in developing interactive e-Learning content and training. The online virtual learning environment of the BIT degree programme (<http://vle.bit.lk>) is managed by them. For more details visit the eLC website: <http://www.ucsc.cmb.ac.lk/elc>

### 1.7.7 | PROFESSIONAL DEVELOPMENT CENTRE (PDC)

The Professional Development Centre (PDC) was set up to keep a close liaison with IT industry and to improve the academic programmes through industry partnership. The PDC primarily concentrate on improving professional skills of the staff and the internal students, industrial placements and visits for internal undergraduates and promoting inter-cultural harmony. The mission of the Professional Development Centre (PDC) of the UCSC is to produce Computing graduates' having extra-curricular skills such as professional skills, business skills, communication skills, community service skills, innovative capacity and entrepreneurship to pursue successful careers thereby contributing to the socio-economic development of Sri Lanka. For more details visit the website: <http://www.ucsc.cmb.ac.lk/pdc>

SECTION 2

# BIT DEGREE PROGRAMME



## 2.1 OVERVIEW

Taking into consideration the job opportunities that exist for ICT graduates in Sri Lanka & overseas, the UCSC took the initiative to launch the three-year External Degree programme leading towards the award of Degree of Bachelor of Information Technology (External) in the year 2000. This degree programme has been redesigned according to ACM guidelines and Policy Framework for External and Extension programme introduced by the University Grants Commission in the year 2010.

The UCSC has advanced training resources and experience in Sri Lanka in the field of ICT education, and UCSC is the first to offer an External Degree in IT in Sri Lanka. The BIT syllabi are reviewed and updated regularly by considering the international standards such as ACM guidelines, and local and global demand of the IT industry. The BIT degree is awarded by the University of Colombo.

UCSC provides a well-defined detailed syllabus that would help to lay a solid foundation on which, a student can build his career in IT. The syllabi will be constantly updated to meet the industry requirements. Model and past question papers, a list of recommended textbooks are made available to the students. In the year 2003, e-learning was introduced to the BIT students through a Virtual Learning Environment (VLE). This was possible through the assistance given by SIDA (Swedish International Development Agency). VLE assists the students in learning through self-evaluating quizzes, learning material and activities.

The expertise of more than 29 PhD, 05 MPhil, 05 MSc drawn from the University of Colombo, other Sri Lankan and Foreign Universities, and the ICT industry are associated with the programme, which makes the BIT a first in Sri Lanka to benefit from such expertise. Currently, more than 50 training institutes spread over the country offer training programmes for the BIT degree. Among them, 17 training institutes have registered with the UCSC in year 2020. The list of the BIT registered teaching institutes are presented in the section 9 and also published in the BIT website.

[\(http://bit.lk/index.php/learning/training-institutes/\)](http://bit.lk/index.php/learning/training-institutes/)

BIT Programme is designed to:

- produce qualified IT professionals through external mode in addition to the traditional University output
- set professional standards and encourage students to obtain skills in commercial IT applications and in the usage of necessary tools
- enable those who could not enter into a state university to read for a degree in IT due to severe competition in obtaining such a degree from a state university.
- provide an opportunity to those non-graduates already working in the IT sector to obtain a formal qualification through self-study

The minimum duration of the BIT degree programme will be 3 academic years.

- **A Diploma in Information Technology (DIT)** will be awarded to a candidate who has obtained a "PASS" for all the Non-GPA courses, a minimum of a "C" grade for each GPA course, and passed all online assignments as specified in Section 4, in Level I.
- **A Higher Diploma in Information Technology (HDIT)** will be awarded to a candidate who has obtained a "PASS" for all the Non-GPA courses, a minimum of a "C" grade for each GPA course, passed all online assignments as specified in Section 4 in the Level II, and has obtained the Diploma in Information Technology (DIT)
- **BIT Degree Certificate** will be awarded on successful completion of Level I, Level II and Level III examinations and fulfilment of other requirements as specified in Section 4 and 6.

Over 40,000 candidates have enrolled for the BIT programme since its inception in the year 2000 and the 20th consecutive Academic year is about to commence. Statistics of Diploma/ Higher Diploma & BIT Degree Awardees of the last 19 years are summarized in Table 2a.

	1st Year	2nd Year	3rd Year
	DIT	HDIT	BIT
2000/01	171		
2001/02	299	70	
2002/03	596	148	63
2003/04	572	353	113
2004/05	259	164	103
2005/06	346	154	115
2006/07	532	128	108
2007/08	613	386	138
2008/09	438	310	161
2009/10	366	199	140
2010/11	581	309	129
2011/12	659	262	172
2012/13	618	305	194
2013/14	523	339	225
2014/15	379	227	262
2016	403	151	217
2017	337	110	133
2018	436	120	177
<b>Total</b>	<b>8128</b>	<b>3735</b>	<b>2450</b>

Table 2a: Statistics of Awardees

## 2.2 INTERNATIONAL RECOGNITION

The e-BIT programme of the UCSC won a Certificate of Commendation in the Education Planner and Administrator Category of the UNESCO ICT in Education Innovation Awards 2007-2008 and awards at NBQSA and e-Swabhimani.

The UCSC was chosen for this award owing to its innovative use of ICT to scale the output of ICT Professionals much needed by the industry. The e-BIT was designed to optimize the use of ICT for communication, registration, delivery of the curricular content, and examination through its website and associated Virtual Learning Environment. Today, it has become the student portal through which one can learn online, seek assistance from facilitators, and communicate with peers in addition to obtaining examination support material and retrieving results. For this reason, the BIT programme has become the premier 'open' and affordable IT degree programme in Sri Lanka. The success of the e-BIT can be attributed to the efforts of the e-Learning Centre of the UCSC through its Research and Development (R&D) activities. The curriculum was completely revamped taking into account a new online pedagogy based on a user-centric but collaborative learning model and the constructive alignment paradigm of learning. R&D work in setting up an appropriate Virtual Learning Environment resulted in the adoption and adaptation of the open-source Moodle framework which was customized and localized to form Vidupiyasa – UCSC's "Virtual Learning Environment (VLE) for BIT students". SCORM compatible online learning lessons have been developed based on the redesigned curriculum and made available through the VLE. Additional information regarding the registrations and examinations are made available through the BIT website. An e-assessment system for formative as well as some summative testing has also been developed and deployed.

## 2.3 JOB OPPORTUNITIES

The 21st Century would be dominated by ICT and there is a growing need for IT professionals and they are sought-after more than ever before, due to the fast-paced world of computer technology and the increasing dominance of IT skills. This, together with the critical shortage of IT professionals today, translates into opportunities for those who are in IT as well as those who are interested in entering the field. Software Development & ICT Services is one sector where Sri Lanka can do well and have highly satisfactory economic returns, which in turn will benefit the national economy. In this context, we need to heighten public awareness on the potential of IT and increase educational opportunities in the sphere.

Considering the above, from the very beginning, the BIT degree programme was designed and developed to cater to the rising demands of the IT industry. Thus, the courses were developed considering the knowledge and skills required to produce high quality IT professionals. As a result, during the last 19 years, the BIT degree programme has been able to maintain its employability rate which is around 90%. According to the latest statistics obtained from the BIT graduates of the year 2019, the employability rate is above 87%. Out of that, 71% are employed on a permanent basis. BIT graduates get an opportunity to work in different sectors such as industry and academia where 61% are employed in the private sector, and 15% are employed in the public sector. Some graduates have even obtained foreign employment opportunities. It shows that the BIT degree programme is capable of catering to the demands of the industry as the majority of the BIT graduates are employed as Software Engineers, QA/Test Developers, Front-end Developers, Business Analyst, Network Administrators, Project Managers, ICT/IT Lecturers, etc. which are among the most sought-out and high-demand areas. Also, a significant number of graduates who have followed the BIT degree programme was able to enter into postgraduate programmes in local as well as foreign universities because of the strength of the curriculum and some of them have even completed doctoral studies as well.

SECTION 3

# REGISTRATION

A decorative graphic featuring several overlapping blue geometric shapes, including a large downward-pointing chevron and a smaller upward-pointing chevron. In the bottom right corner, a close-up of a computer keyboard key is visible. The word "REGISTRATION" is written in large, white, bold, sans-serif capital letters across the bottom of the page, partially overlapping the blue shapes and the keyboard key.

REGISTRATION



## 3.1 ADMISSION REQUIREMENTS

The following admission requirements will be effective for Academic Year 2020.

No person may be registered as a candidate for the Examinations leading to the Degree unless he/she satisfies (A) and (B) below:

(A) he/she

(i) has obtained three passes in the G.C.E. Advanced Level Examination (New Syllabus) in one sitting;

**OR**

(ii) has obtained any other educational qualification deemed equivalent to the qualification referred to in paragraphs (i) above by the Senate on the recommendation of the Academic Syndicate of the UCSC and has passed a Selection Test\* conducted by the UCSC;

**OR**

(iii) has passed all the theoretical components of the Foundation in Information Technology (FIT) Programme conducted by the UCSC;

**AND**

(B) he/she

(i) has obtained at least six passes in G.C.E. Ordinary Level with three Credits including for Mathematics and English;

**OR**

(ii) has obtained any other educational qualification deemed equivalent to the qualification referred to in paragraph (B)(i) above by the Senate on the recommendation of the Academic Syndicate of the UCSC.

Note:

\* Selection Test = FIT

## 3.2 SELECTION PROCEDURE

Calling of applications for the Diploma in IT of the BIT degree programme will be published in the press, social media and the BIT website annually. In accordance with such notices, prescribed application forms should be completed online, from the BIT website and forwarded to the External Degrees Centre (EDC) of the UCSC with payment of appropriate fees and required documents in Section 8.1 (see Table 8a). Degree path is shown in Figure 3a.

## 3.3 REGISTRATION

The selected students will be informed to register for the Level I of the BIT degree programme. Initially students will be granted only a provisional registration.

Proper Registration would be given only after the qualifications (e.g. Advance Level, Ordinary Level and other) are verified by the EDC of UCSC. Registration is valid for a period of one academic year. The students have to pay the registration fee annually to keep their registration valid and sit for examinations.

The registration of a student is cancelled, if he/she is not registered for 3 consecutive academic years. This rule will be effective irrespective of the level of registration from 2018 onwards. The maximum period a student can attempt an evaluation in each level of study (Level I, II or III) shall not exceed three (3) consecutive years from the initial registration of a particular year of study. If a student fails to do so, he/ she should be registered as a new student.

Registering for BIT@UCSC will not disqualify any student from registering for any other internal or external degree offered in any other state university.

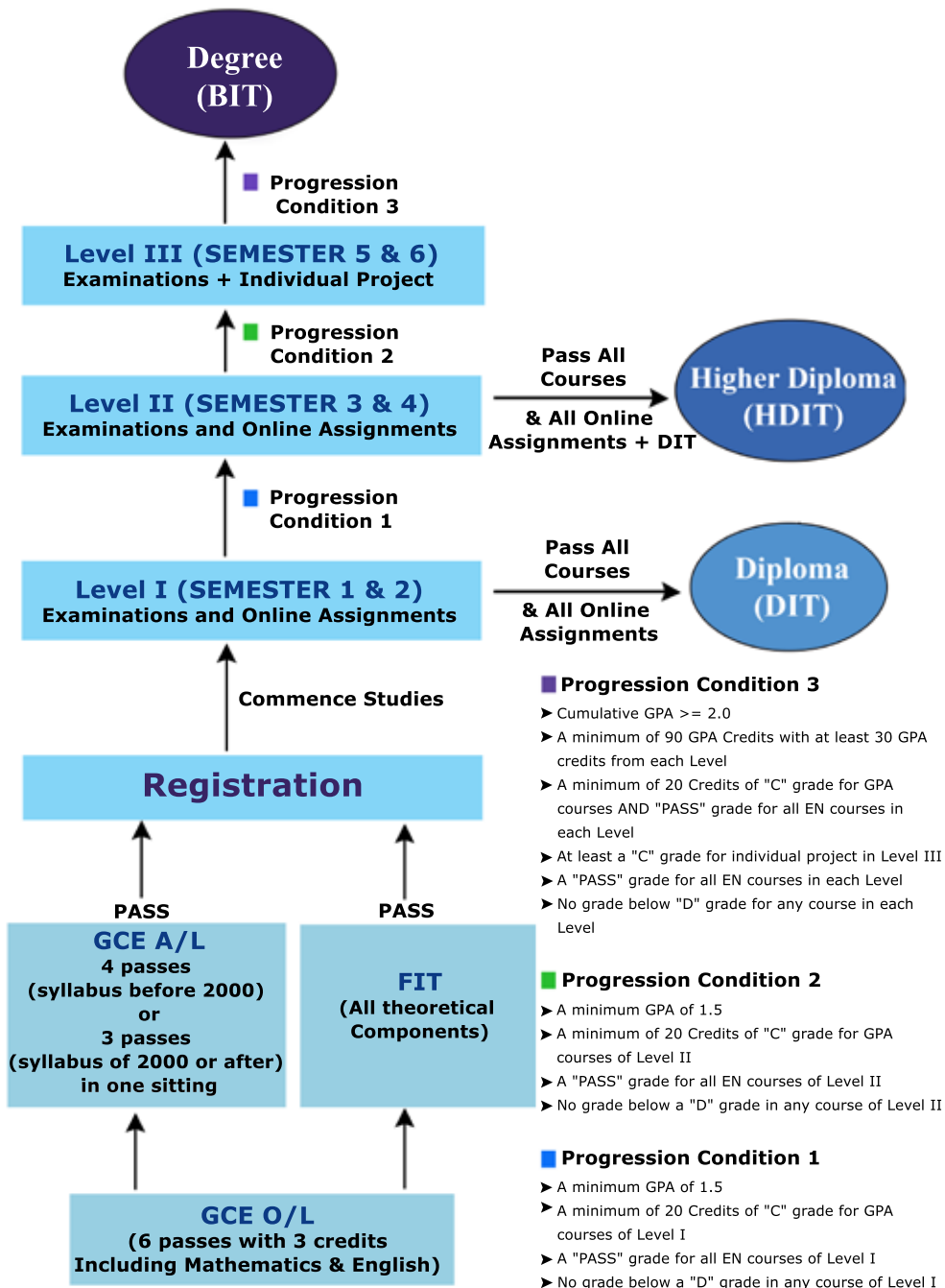


Figure 3a: Degree Path

### 3.3.1 | DOCUMENTS REQUIRED FOR PROVISIONAL REGISTRATION

#### Originals & Photo copies of the following:

- National ID Card (for Sri Lankan citizens)/valid Passport (for foreign nationals)
- Birth Certificate
- Marriage Certificate (Where necessary)
- Educational certificates
  - (a) For Candidates who have obtained three passes in the GCE Advanced Level examination in one sitting (New Syllabus) or four passes in the GCE Advanced Level examination in one sitting (Old Syllabus)
    - (i) GCE O/L Certificate
    - (ii) GCE A/L Certificate
  - (b) FIT Letter issued by University of Colombo School of Computing (for those who have not qualified through GCE A/L)
- Copies of colour photographs of passport size (on Red Background and Candidate's ears should be clearly visible in each and every photo )
- One attested photo (pasted on an A4 size paper and attested by an authorized person\*. The signature and the seal of the authorizing person should be placed across the photograph as not to cover the face of the candidate.
- Self Addressed Envelope of size 9"X4" with Rs. 50/= stamp.
- Affidavits (If the name appears in other Educational Certificates is different than that in the Birth Certificate)

*\*Head or Retired Head of a Government/Director Managed approved school, Grama Niladhari of the Division, Justice of Peace, Commissioner of Oaths, Attorney at Law, Notary Public, Commissioned Officer of the armed forces, Staff Officer of Govt./ Corporation, the Chief Incumbent of a Buddhist Vihara, A religious Dignitary of standing of any other religion*

### 3.3.2 | REGISTRATION NUMBER

The registration number will be given to the students at the registration and a BIT Identity Card will also be issued. All inquiries regarding any matter pertaining to the BIT degree programme must be accompanied by this registration number.

### 3.3.3 | BIT IDENTITY CARD

The BIT Identity Card remains as a property of the student until such time; the student obtains the Degree of Bachelor of Information Technology. Thereafter, the student should return it to the External Degrees Centre (EDC) of UCSC. If the BIT Identity Card is lost, a duplicate will be issued on payment. For payments refer Section 8. An affidavit should be produced to obtain the duplicate. Student should be physically presented for the ID photo which is taken by the UCSC on his/ her registration interview. **Students will not be allowed to sit for an examination without a valid BIT Identity Card.**

### 3.3.4 | CANCELLATION OF REGISTRATION

Any student may obtain cancellation of his student registration subjected to the approval of the Board of Study. In such an event the UCSC will retain only 25% of the registration fee if a written request is made with 30 days from the closing of registration. Otherwise no refund is made. No requests for cancellation will be entertained from students awaiting the results of an examination or pending disciplinary action in respect of any examination malpractice. To cancel a registration, the BIT ID card should be handed over to the EDC.

### 3.3.5 | RENEWAL OF REGISTRATION

All students are required to renew their registration within a prescribed period after the release of results of Level I, II and III examinations. Renewal process is done online and the generated payment voucher should be used to make the payment. No other mode of payment will be accepted. Already registered students need to renew their registrations before the 31st of December, unless their registration depends on the release of results. Students will be informed whether they have to register/re-register for the next academic year depending on their examination results. A student has no right to claim to sit any examination after expiry of the period of registration. Hence, a student whose registration has lapsed must request the EDC in writing in order to renew the registration. To access online material and to take part in online assignments and assessments, the renewal of registration must be done before 31st December.

If a registered student would not continue his/her registration for any academic year he/ she will have to renew student registration by paying a surcharge, [up](#)

to the current registration year.

The students should complete any academic year within three years. If a student fails to do so, he/ she should be registered as a new student.

## 3.4 VIRTUAL LEARNING ENVIRONMENT (VLE) FOR BIT

Students will be given a login (a username and a password) to the VLE for BIT at the registration, and this login account is renewed at the beginning of each academic year of the BIT programme. <http://vle.bit.lk> is the Virtual Learning Environment established for the BIT students. You are requested to refer/check the VLE frequently for the programme and course level information.

Course materials, online assessments, online assignments, past papers, course related notices, announcements, deadlines for various submissions, extensions, exam timetables, notices about exam applications, admission cards and many other useful information are available at the VLE.

When new students are registered, they will be given a Student Registration Number which will be the username to access the VLE for BIT. You will be given a password once the registration process completes successfully. You must have an email address to access the services of VLE for BIT.

Each course in the BIT programme has two or more online assignments. In order to obtain the Diploma/ Higher Diploma certificates, you should pass all the assignments in the relevant level of the degree programme.

The students, who are registered for the Level III Software Development Project, are given a separate login to the Project-VLE (<http://vle.bit.lk/project>) for project related studies/submissions.

If there is any issue with accessing the VLE, the students should contact the VLE Administrator through email ([admin@vle.bit.lk](mailto:admin@vle.bit.lk)), indicating his/ her registration number, index number, and the NIC number.

During the office hours, students could contact EDC, UCSC, and eLC using the email address and the contact numbers given in the Contact section.\*

Note:

\* For all email communications, a student should include his/ her registration number, index number, NIC, full name as it appears in the BIT Student ID, and a contact number on which the student can be reached.

## 3.5 BIT FREQUENTLY ASKED QUESTIONS (FAQ)

The BIT Frequently Asked Questions (FAQ) consist of common questions and answers related to the BIT Degree Programme. The questions are categorized into 13 areas of information covering all questions asked often by the students about the BIT Programme: general information, entry qualifications, BIT applications, BIT registrations, BIT Programme structure, VLE(LMS), BIT re-registration, BIT Identity card, BIT exams, VLE online assignments and assessments, courses, certificates/transcripts and other. It is available online on the BIT website and on the BIT VLE. The students are encouraged to refer to the BIT FAQ, prior to contact the staff directly via email, telephone or by visiting UCSC, for any question related to the degree programme.

## 3.6 BIT WEBSITE (WWW.BIT.LK)

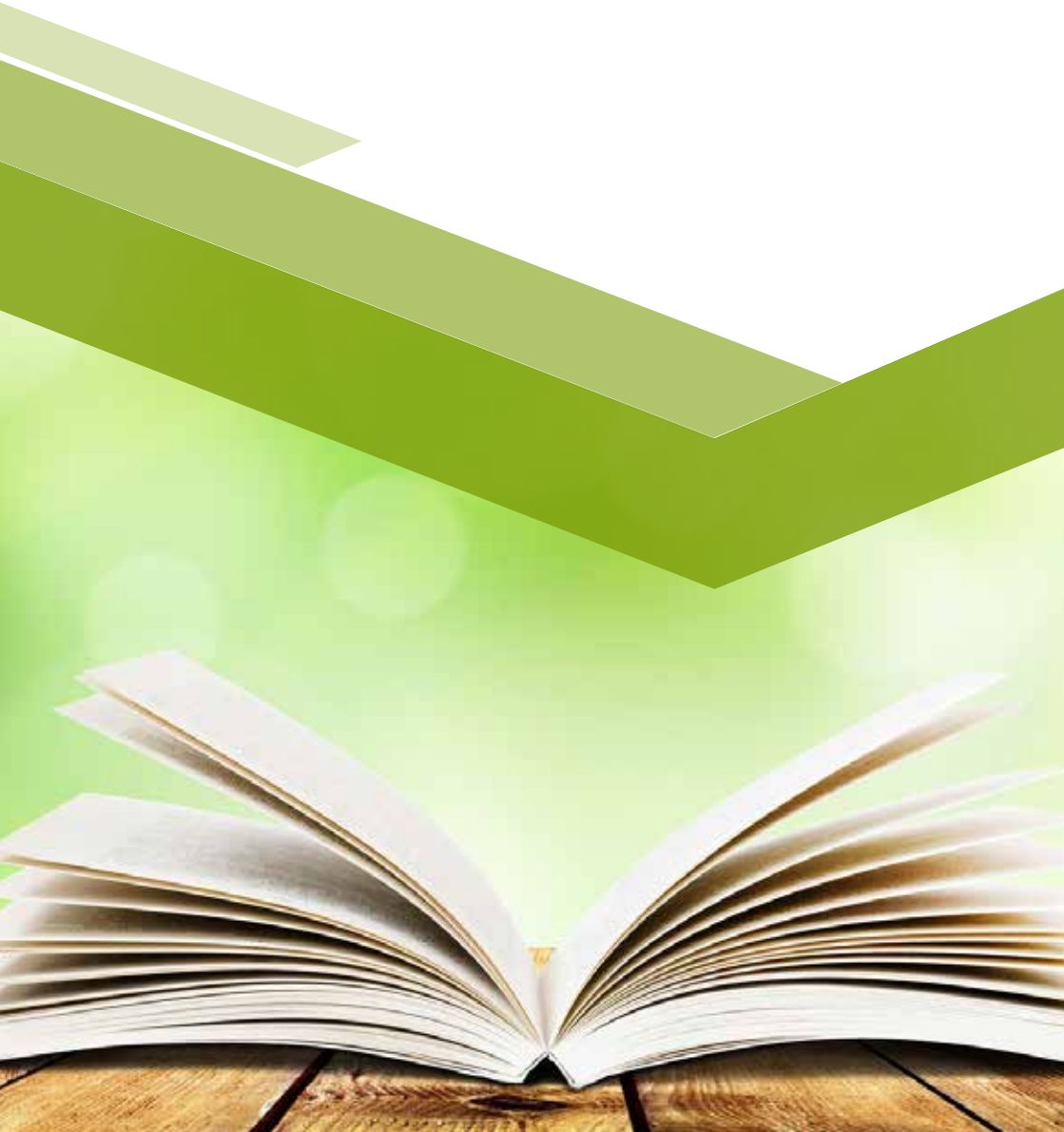
The official website for the BIT degree program is [www.bit.lk](http://www.bit.lk). All the information regarding your degree program can be found through the BIT website. Information on the website is organized under a few categories to maintain the simplicity of the site.

In the home page of the site, you can find the latest student handbook and all kinds of application forms as well as the bank vouchers which to be used in the registration process. Most importantly, all the general notices related to the degree program are published in the BIT website home page. That includes the BIT examination timetable, final year project schedule and any alternations for already published schedules.

Information like the history about the BIT degree program, statistics, employability and entry requirements for the program can be found under the "About BIT" page of the site. Registration details, examination process and the examination results are also accessible through the website. You are strongly advised to refer the BIT website frequently throughout your degree programme because the website will be the main communication channel between you and the UCSC.

SECTION 4

# COURSE STRUCTURE





## 4.1 OVERVIEW

This programme consists of three levels: Level I, Level II and Level III with two semesters in each level. All courses offered in the first two levels are compulsory whereas, in level three, optional courses are offered in addition to the compulsory courses. Some of the compulsory courses offered are Enhancement courses which are designed to strengthen students' communicational, and mathematical skills. Enhancement courses are identified using EN as the first two letters of course code. EN courses are non-GPA courses. Therefore, the credit value of an EN course is not considered for GPA calculation.

Candidate must select a minimum of 30 GPA credits from each level including all compulsory courses. All courses in Level I and Level II are compulsory and each of them has online assignments. All Enhancement courses in Level I, II and III consist of two compulsory components, and a candidate will need to pass **both online assessment AND the written examination paper at one sitting.**

## 4.2 LEVELS

### 4.2.1 | LEVEL I

All courses (Table 4a) are compulsory with online assignments  
**with effect from year 2020.**

LEVEL I (All courses are compulsory with online assignments)				
Code	Name	Semester	Credits	GPA Credits
EN1106	Introductory Mathematics	1	2	-
IT1106	Information Systems	1	4	4
IT1206	Computer Systems	1	4	4
IT1306	Free and Open Source Software for Personal Computing	1	3	3
IT1406	Introduction to Programming	1	4	4
EN2106	Communication Skills I	2	2	-
IT2106	Mathematics for Computing I	2	3	3
IT2206	Fundamentals of Software Engineering	2	4	4
IT2306	Database Systems	2	4	4
IT2406	Web Application Development I	2	4	4
<b>Total Number of Credits</b>			<b>34</b>	<b>30</b>

Table 4a: Level I Courses

## 4.2.2 | LEVEL II

Students registered in the academic years 2018 and 2019 should follow the courses given in Table 4b.

<b>LEVEL II</b>			
<b>Courses for Students registered in the academic years 2018 and 2019</b>			
<b>(All courses are compulsory with online assignments)</b>			
<b>Code</b>	<b>Name</b>	<b>Semester</b>	<b>Credits</b>
IT3105	Object Oriented Analysis & Design	3	3
IT3205	Fundamentals of Software Engineering	3	3
IT3305	Mathematics for Computing II	3	3
IT3405	User Interface Design	3	3
IT3505	Web Application Development II	3	4
IT4105	Programming II	4	4
IT4205	Information Technology Project Management	4	3
IT4305	Rapid Software Development	4	4
IT4405	Computer Networks	4	3
<b>Total Number of Credits</b>			<b>30</b>

Table 4b: Level II courses for students registered in the academic years 2018 and 2019

All courses (Table 4c) are compulsory with online assignments with effect from year 2021.

**(with effect from year 2021)**

<b>LEVEL II</b>				
<b>Courses for students registered in the academic year 2020</b>				
<b>(All courses are compulsory with online assignments)</b>				
<b>Code</b>	<b>Name</b>	<b>Semester</b>	<b>Credits</b>	<b>GPA Credits</b>
EN3106	Communication Skills II	3	2	-
IT3106	Object Oriented Analysis & Design	3	3	3
IT3206	Data Structures and Algorithms	3	3	3
IT3306	Data Management Systems	3	3	3
IT3406	Web Application Development II	3	4	4
IT4106	User Experience Design	4	3	3
IT4206	Enterprise Application Development	4	4	4
IT4306	Information Technology Project Management	4	3	3
IT4406	Agile Software Development	4	4	4
IT4506	Computer Networks	4	3	3
<b>Total Number of Credits</b>			<b>32</b>	<b>30</b>

Table 4c: Level II courses for students registered in the academic year 2020

### 4.2.3 | LEVEL III

Students registered in the academic years 2018 and 2019 should follow the courses given in Table 4d.

LEVEL III Courses for students registered in the academic year 2018 and 2019 (Select all Compulsory (C) and Optional (O) courses to complete 30 credits)				
Code	Name	Semester	Credits	Course Type
IT5105	Professional Issues in IT	5	3	C
IT5205	Information Systems Security	5	3	C
IT5305	Computer Systems II	5	3	O
IT5405	Fundamentals of Multimedia	5	3	O
EN5101	Fundamentals of Management	5	2	C
IT6105	Software Development Project	5 & 6	8	C
IT6205	Systems & Network Administration	6	3	C
IT6305	e-Business Application	6	3	O
IT6405	Database Systems II	6	3	C
IT6505	Middleware Architecture	6	3	O
EN6502	Introduction to Entrepreneurship	6	2	C
<b>Total Number of Credits</b>			<b>36</b>	

Table 4d: Level III courses for students registered in the academic years 2018 and 2019

Select all Compulsory (C) and Optional (O) courses to complete 30 GPA credits with effect from 2022.

**(with effect from 2022)**

<b>LEVEL III</b> <b>Courses for students registered in the academic year 2020</b> <b>(Select all Compulsory (C) and Optional (O) courses to complete 30 GPA credits)</b>					
Code	Name	Semester	Credits	GPA Credits	Course Type
EN5106	Fundamentals of Management & Entrepreneurship	5	2	-	C
IT5106*	Software Development Project	5 & 6	8	8	C
IT5206	Professional Practice	5	3	3	C
IT5306	Principles of Information Security	5	3	3	C
IT5406	Systems & Network Administration	5	3	3	C
IT5506	e-Business Technologies	5	3	3	O
EN6106	Advanced Concepts in Information Technology	6	2	-	C
IT6206	Software Quality Assurance	6	3	3	C
IT6306	Application Development for Mobile Environments	6	4	4	C
IT6406	Network Security and Audit	6	3	3	C
IT6506	Mathematics for Computing II	6	3	3	O
<b>Total Number of Credits</b>			<b>37</b>	<b>33</b>	

Table 4e: Level III courses for students registered in the academic year 2020

\* Software Development Project is an 8 GPA Credit course and offered in both Level III Semester 5 and 6 with 4 Credits for each semester.

EN courses are non-GPA. Therefore, the credit value of an EN course is not considered for GPA calculation.

Detailed Syllabus for each of the above courses are available at the:  
<https://vle.bit.lk/>

SECTION 5

# EXAMINATIONS



## 5.1 MEDIUM

Medium of Examinations is English. Any part of the answer script written in any other language will not be marked.

## 5.2 EXAMINATION DATES

Examinations will be held on Semester basis, twice within an Academic Year, starting during May/June and September/October respectively. The Level III project evaluation will be held in November/December. The Examinations shall be conducted in every academic year at the end of every Semester; however the University reserves the right to conduct the Examinations at any time during a year.

## 5.3 APPLICATIONS TO SIT THE EXAMINATIONS

Applications for examinations will be entertained from prospective candidates who possess all the requisite qualifications via the BIT website. Refer examination criteria (see Section 5.4) for eligibility. Examination application forms should be completed online and system generated application and the payment voucher should be printed and submitted to the BIT office. Examination fee will be non-refundable and non-transferrable. Applicants should download and print their examination admission cards and bring them to the examination centre with attestation. Students are requested to refer the BIT website regularly for examination schedule updates and notices.

### **Important**

**Examination Application may be rejected on the following grounds:**

- (i) Not possessing all the requisite qualifications for the examination concerned
- (ii) Not applying on prescribed online forms
- (iii) Not submitting the system generated application and payment voucher on or before the closing date of applications
- (iv) Invalid Registration
- (v) Non-payment of Registration and Examination fees
- (vi) Pending inquiries
- (vii) Incomplete or inaccurate application form

## 5.4 EXAMINATION CRITERIA

The Board of Examiners may test any candidate by means of written/ electronic/ oral/ practical examination or any other form of evaluation.

Each course (as set out in section 4 above) examination leading to the award of the Degree of Bachelor of Information Technology, carries a maximum mark of 100.

**A candidate shall not re-sit for a course examination, for which he/she has already obtained a grade of “C” or above in a GPA course or a “PASS” in Enhancement course.**

### 5.4.1 | ONLINE ASSIGNMENT AND ASSESSMENT CRITERIA

#### 1. Online assignments of all Level I and Level II courses (Semester 1, 2,3 and 4)

A candidate will have to obtain

- At least 40% from each assignment in a GPA course (i.e. assignment 1 **AND** assignment 2 of a particular GPA course) to successfully **PASS** the online assignment component of that course.
- At least 50% from each assignment in a non-GPA course (i.e. assignment 1 **AND** assignment 2 of the enhancement course) to successfully **PASS** the online assignment component of that course.

Successful completion of this online assignment component of each course (GPA or non-GPA) is a compulsory requirement to obtain the Diploma/ Higher Diploma at the end of the academic year.



## 2. Online assessments of all enhancement courses (Semester 1, 2, 3, 5 and 6)

A candidate will have to complete an “online assessment” (apart from the online assignments already conducted in the Level I and Level II VLE courses) for all the enhancement courses conducted in semester 1, 2, 3, 5 and 6.

A candidate will get 2 weeks and **only 1 attempt** to complete this online assessment on or before the given deadline. Deadlines will be published as “Announcements” in the BIT and VLE Websites.

Please note that in order to pass the enhancement courses (a compulsory requirement to obtain the BIT degree), a candidate will need to pass this **online assessment AND the written examination paper** at one sitting. When a candidate apply and pay for the examinations of the enhancement courses he/she will be eligible to take the online assessments. (No separate payment is required for online assessment.) Please note that **ONLY** those who apply and pay for the enhancement course exams are allowed to take the online assessments soon after the exams.

If a candidate do not pass any one of the components (online assessment **OR** the written exam paper) of the enhancement course examination, he/she will receive a **FAIL** grade for that particular enhancement course and he/she will have to apply and pay again for the online assessment **AND** the written examination paper to pass the course successfully. Marks of any of these components will not be released and will not be able to carry forward for the next academic year.

Therefore, even if a candidate has passed the online assignments of an enhancement course but failed the course in a previous attempt, he/she will have to request for VLE access when registering for an academic year to attempt the online assessments and to receive notices regarding these online components.

## **5.4.2 | LEVEL I EXAMINATION**

Each candidate shall sit during his Level I study, number of courses (as specified in section 4 above), relating to semester 1 and semester 2 and be subjected to online assignments.

Any candidate who obtained a minimum GPA (Grade Point Average) of 1.5 and other requirements, at the Level I course examinations may proceed to and register for the Level II.

Note that enhancement courses are Non-GPA.

## **5.4.3 | LEVEL II EXAMINATION**

Each candidate shall sit for number of courses (as specified in section 4 above), relating to semester 3 and semester 4 and be subjected to online assignments during his/ her Level II study.

Any candidate who obtained a minimum GPA (Grade Point Average) of 1.5 and other requirements (if any), at the Level II course examinations may proceed to and register for the Level III.

## **5.4.4 | LEVEL III EXAMINATION**

Each candidate shall sit for number of compulsory and optional courses (as specified in section 4 above), relating to semester 5 and semester 6 during his/ her Level III study.

## **5.4.5 | LEVEL III PROJECT EVALUATION**

A list of candidates who have submitted the Level III project dissertation on or before the defined deadline and whose dissertation satisfied the minimum requirements will be published as the eligible candidates at the end of October. The project evaluation for the eligible candidates will be done in two stages. In the first stage, the students should appear for the viva and code evaluation and in the second stage students should appear for the dissertation evaluation. Exact evaluation dates for each candidate will be published in the BIT website and the project VLE before the examination dates.

## 5.5 GRADING SYSTEM AND GRADE POINT AVERAGE

The Range of Marks and the corresponding Grades and Grade Point Values (GPV) of the Academic Courses and the Project is given below.

Range of Marks	Grade	Grade Point Values (GPV)
85-100	A+	4.00
70-84	A	4.00
65-69	A-	3.70
60-64	B+	3.30
55-59	B	3.00
50-54	B-	2.70
45-49	C+	2.30
40-44	C	2.00
35-39	C-	1.70
30-34	D+	1.30
25-29	D	1.00
00-24	E	0.00

The Grade Point Average (GPA) of a candidate shall be calculated using the following equation

$$\text{GPA} = \frac{\sum (\text{GPV of CC} \times \text{No. of credits of CC}) + \sum (\text{GPV of OC} \times \text{No. of credits of OC})}{\text{Total number of Credits for the program}}$$

Where CC stands for Compulsory Course and OC stands for required Optional Course. When calculating the GPA, additional optional courses taken are disregarded. The GPA is rounded to the second decimal place.

A student shall be deemed to have ‘completed’ a course or a component of a course if he/she has received a Grade in respect of the evaluation of the course or such component. The Enhancement Courses shall be graded in terms of the following scheme.

### Grading Scheme for Enhancement Courses

Range of Marks	Grade
50 - 100	PASS
00 - 49	FAIL

The Enhancement Courses shall **not** contribute to the calculation of GPA.

## 5.6 EXAMINATION ADMISSION CARDS

Before a minimum of one week prior to the commencement of the examination, the admission cards for the examination will be issued for all the eligible candidates through the BIT website. In the event of a candidate having any issue related to the admission he should inform the EDC of UCSC immediately. Failing that candidate will not be allowed to sit the examinations.

## 5.7 OTHER REQUIREMENTS

Those candidates who are referred or re-referred must of necessity obtain a pass in the relevant of such course examination in accordance with examination criteria. A candidate can appear for any course examination until either he/she obtains a pass in the course or completes the degree programme. However, a student shall not re-sit a course examination, for which he/she has already obtained a grade of “C” or above.

## 5.8 EXAMINATION PROCEDURE

### Rules to be followed in Examination

1. Students have to be **present** at the Examination Hall at least 30 minutes before starting the paper, but can't enter the hall until Supervisor gives permission.
2. Once admitted to the examination hall students are not allowed to leave the examination hall till the examination is over.
3. After entering the hall, students should go to the **seat** assigned to them and cannot change it without Supervisor permission.
4. Students must have their Student Identity Card and Admission Card (SIdC) for each paper. If students fail to bring their SIdC, they have to sign a declaration form provided by the invigilator. If a student loses SIdC they can obtain a new SIdC from the External Degrees Centre (EDC).
5. **Admission Cards** are signed in front of the Supervisor/Invigilator when a student sits for a paper.
6. Students have to bring their own pens, ink or any other approved equipment and **stationery**.
7. **Examination stationary** (i.e. Writing papers and MCQ answer sheets) will be supplied and only these papers can be used at the Examination. Answer books supplied to the students can not be torn or damaged. Only one MCQ Answer Sheet will be provided. All materials supplied, whether used or unused, have to be left behind and cannot be removed from the examination halls.

8. Students are prohibited to have any notes, formulae or any other **unauthorized material** with them during the examination. Books, handbags, electronic and communication devices etc. which students have brought with him/her should be kept at a place shown by the Supervisor/Invigilator.
9. Every student has to enter their **Index Number** on the answer book and on every extra sheet. A student who writes another student's index number on their answer sheet, can be considered as having attempted to cheat. The Supervisor/Invigilator has the authority to check the answer scripts of the student. An answer script that bears no Index Number or an Index Number which cannot be identified, might be rejected. Students can't write their names on the answer book.
10. Students are under the **authority** of the Supervisor and have to carry out their and invigilators instructions throughout the exam.
11. Absolute **silence** has to be maintained in the Examination hall and around it. A student cannot talk or to have any dealings with anyone other than the Supervisor/Invigilator. If a student needs to draw the attention of Supervisor/Invigilator they can raise their hand. A student can be excluded from the examination hall for causing disturbance.
12. After starting the exam, students cannot **leave** Examination hall even temporarily. In case of an emergency, the Supervisor/ Invigilator will grant them permission under constant surveillance.
13. Students have to **stop writing** immediately when Supervisor/Invigilator orders. If this instruction is not followed the Supervisor/Invigilator has the authority to make a statement on the answer book.
14. All calculations and **rough work** will be done only on given paper. Such work should not be done on admission cards, timetables, question papers or on any other paper. Any student who disregards these instructions can be considered as having written notes with the intention of copying.

15. Any answer or part of the answer which is not to be considered for the purpose of assessment, will have to be neatly crossed out. If the same question has been attempted in more than one place the answers that are to be disregarded has to be neatly crossed out.
16. Every student has to hand over the **answer scripts** personally to the Supervisor/Invigilator or remain in their seat until it is collected. They cannot hand over their answer scripts to an attendant, a minor employee or another student.
17. After **handing** over the paper, students cannot have it back.
18. Students cannot **remove** answer scripts from the Examination hall.
19. Students cannot **copy** from any material or from the answer scripts of another student. Nor can they help another student or get help from another student.
20. Impersonating students at the examination is not allowed.
21. The Supervisor/Invigilator can request a student to make a statement in writing due to an incident during the examination, and such statement will have to be signed by the student. Students cannot refuse to make such a statement or to sign it.
22. Students can not sit examination, if they have exhausted the number for that examination, unless they are granted special permission to do so by the senate.

## 5.9 EXAMINATION OFFENCES AND PUNISHMENTS

Students are strongly advised against committing plagiarism in the submission of assignments, assessments and thesis reports. In the case of other written examinations, the possession of unauthorized material is considered as an offence punishable under the University of Colombo rules on conduct of examinations.

1. Examination offences can be classified as follows:
  - (a) Possession of unauthorized documents or removal of examination stationery.
  - (b) Disorderly conduct.
  - (c) Obtaining or attempting to obtain improper assistance or cheating or attempting to cheat.
  - (d) Impersonation.
  - (e) Aiding and abetting the commission of any of these offences.
  - (f) Violation of any of the requirements or conditions stipulated in Part I.
2. There shall be an Examination Disciplinary Committee to inquire into and make recommendations (including punishments) regarding examination offences.
3. In all cases of examination offences, the Supervisor will take action and forward his/ her report to the Director/UCSC.
4. Having a prior knowledge of question paper is an examination offence.
5. If students possess unauthorized material at an examination hall, it will be presumed that they have used it until the contrary is proved by them.
6. In cases of disorderly conduct the Supervisor will in the first instance warn the student, and if the student persists in disorderly conduct, the Supervisor may exclude the student from the examination hall and issue him/her a letter cancelling their candidature from the examination.



7. In all other cases of examination offences, the Supervisor will take over the unauthorized documents and will obtain a statement from the student and write his report on the matter.
8. A student who is guilty of an examination offence is liable to following punishments.
  - (a) Removal of their name from the pass list.
  - (b) Cancellation of their candidature from whole or part of the examination.
  - (c) Suspension from any University examination.
  - (d) Suspension from the University for a period.
9. Any student found helping to commit an examination offence will receive the same punishment as the offender.

## 5.10 RE-SCRUTINIZATION

Provision is given for students to request for verification of their examination marks and grades if they wish to do so. However, the verification process will be limited only to check for accuracy of addition and computation and not for re-marking of scripts.

Requesting re-scrutinization of marks and grades shall be limited only during the first two weeks immediately following the release of result of an examination. Such request shall only be submitted through the designated form supplied by the EDC shall be given in the requested form. The cost of re-scrutinization process must be borne by the student and hence a fee of Rs.1000/= per examination paper has to be paid. If the marks and grades are not changed, the candidate shall be notified by the Director through Senior Assistant Registrar/ Examinations of the School. However, if the marks and grades are changed, the outcome of the verification shall be notified to the candidate(s) only after the ratification of results.

The results issued to the student(s) following the re-scrutiny of marks and grades shall be the final and no more requests shall be entertained thereafter.

SECTION 6

**DIPLOMA,  
HIGHER DIPLOMA AND  
DEGREE AWARDING  
CRITERIA**



## 6.1 CRITERIA FOR A PASS

A candidate shall be deemed to have passed the Degree of Bachelor of Information Technology Examinations if he/she has

- (a) completed a minimum of 90 Credits with at least 30 Credits from each of Level I, Level II and Level III;
- (b) has obtained a Cumulative Grade Point Average of not less than 2.00 in all Levels;
- (c) has obtained a Grade Point of not less than 2.00 and/or a Pass Grade for Courses aggregating to at least 20 Credits each in Level I, Level II and Level III;
- (d) has secured a Grade Point of not less than 2.00 for the Software Development Project in Level III;
- (e) has not obtained a Grade Point of less than 1.00 for any of the Courses; and,
- (f) has obtained a Pass Grade for each Enhancement Course identified in the Regulations.

If a candidate, who fails to obtain a pass in the Degree of Bachelor of Information Technology Examination as specified in section 6.1 above, may be allowed to re-sit any course examination subject to conditions specified elsewhere in By-Laws.

If the candidate does not pass at the Software Development Project, he/she shall be required to repeat the project report and/or re-appear for the defense as determined by the Board of Examiners of the UCSC.

A candidate who fails to satisfactorily complete any online assignment component in respect of each level may be required to repeat such component.

A candidate may withdraw any course for which he/she obtained a grade prior to C, before releasing his/her formal degree results by written request to the Coordinator EDC. Such course would not appear in his/ her transcript.

Each course examination and the project shall be graded according to a scheme and the details of that grading system will be available at the BIT website.

## 6.2 AWARD OF CLASSES

In the case of a candidate who passes repeat subject of any course examination, the percentage score to be taken into consideration in determining the award of class shall be limited to a C grade for a course examination unless the Senate decides otherwise.

### 6.2.1 | FIRST CLASS

A candidate is eligible to be placed in the First Class if he/she has passed the Degree of Bachelor of Information Technology as set out in Section 6.1 and has:

- (i) obtained a minimum overall Class GPA of 3.70; **AND**
- (ii) a minimum of a "A" grade for the Software Development Project.

### 6.2.2 | SECOND CLASS (UPPER DIVISION)

A candidate is eligible to be placed in the Second Class (Upper Division) if he/she has passed the Degree of Bachelor of Information Technology as set out in Section 6.1 and has:

- (i) obtained a minimum overall Class GPA of 3.30; **AND**
- (ii) a minimum of a "B" grade for the Software Development Project.

### 6.2.3 | SECOND CLASS (LOWER DIVISION)

A candidate is eligible to be placed in the Second Class (Lower Division) if he/she has passed the Degree of Bachelor of Information Technology as set out in Section 6.1 and has:

- (i) obtaining a minimum overall Class GPA of 3.00; **AND**
- (ii) a minimum of a "B" grade for the Software Development Project.



SECTION 7

# MEDALS AND AWARDS



## 7.1 OVERVIEW

The candidates have to apply to obtain examination transcripts and certificates. All certificates are awarded once a year during the respective awards ceremony. The candidates may apply for transcripts during anytime of the year using the online form and apply through post by paying transcript and postal fees.

## 7.2 TRANSCRIPTS

The University shall publish the names of candidates who are eligible to be awarded the Degree of Bachelor of Information Technology. Each candidate, whether he/she has passed or not, shall be provided with a transcript giving details of the grades, GPV and GPA that he/she had obtained and the final result including classes, if any, provided that, he/she makes an application for a transcript. Applications must be made using the online system. The transcript will be either posted or can be collected from the EDC. The transcript will be issued within a period of one to two weeks.

## 7.3 DEGREE

Degree certificates will be issued to graduates after the approval of the Senate of the University of Colombo, few months after the convocation ceremony.

## 7.4 DIPLOMAS AND HIGHER DIPLOMAS

A candidate who has obtained a PASS or a minimum C grade for each course and passed all the online assignment as specified in section 4 in Level I shall be awarded a Diploma in Information Technology.

A candidate who has obtained a PASS or a minimum C grade for each course and passed all the online assignment as specified in section 4 in Level II and has obtained the Diploma in Information Technology shall be awarded a Higher Diploma in Information Technology.

## 7.5 MEDALS & AWARDS

### 7.5.1 | MEDALS

#### *Prof. V.K. Samaranayake Memorial Medal for the best performance at the Bachelor of Information Technology (External) Degree*

1. The selection would be made by the examinations board that determines the award of the degree.
2. The award will be made to the student who is graduated at the first attempt with the highest overall class GPA among those who obtain a first or second class.
3. If there is no suitable candidate for the award, it will not be awarded in the respective convocation.
4. The award will consist of a gold medal and cash prize
5. The award is named “Prof. V. K. Samaranayake Memorial Gold Medal for the best performance at the BIT (External) degree”.

#### *Prof. G. N. Wikramanayake Memorial Medal for the best performance in Software Development Project*

1. This will be awarded at the BIT convocation to the student who graduated at the first attempt with the highest mark for the Software Development Project among those who obtain a first or second classes.
2. The selection would be made by the examinations board that determines the award of the degree.



### *Mr. M.J.P.U. Samanthilake Memorial Medal for the best e-Learner*

The Mr. M.J.P.U. Samanthilake Memorial Medal will be awarded to the candidate who,

1. obtains a First or Second Class  
AND
2. who has obtained the Diploma and Higher Diploma at the first attempt  
AND
3. Who has obtained the highest aggregate marks for the Level III online Courses

The selection would be made by the examinations board that determines the award of the degree and it will be awarded at the BIT convocation.

## **7.5.2 | AWARDS**

### *Best e-Learner award for Semester 1*

1. This award will be made to the candidate(s) who obtain the Diploma at the first attempt and their performance at the VLE assignments and the active participation in the VLE forum discussions in the first semester.
2. The award will consist of a certificate and a cash prize.
3. The selection will be made by the examinations board that determines the Diploma awardees.
4. This award will be presented at the Diploma Award Ceremony.

### *Best e-Learner award for Semester 2*

1. This award will be made to the candidate(s) who obtain the Diploma at the first attempt and their performance at the VLE assignments and the active participation in the VLE forum discussions in the second semester.
2. The award will consist of a certificate and a cash prize.
3. The selection will be made by the examinations board that determines the Diploma awardees.
4. This award will be presented at the Diploma Award Ceremony.

### *Best e-Learner award for Semester 3*

1. This award will be made to the candidate(s) who obtain the Higher Diploma at the first attempt and their performance at the VLE assignments and the active participation in the VLE forum discussions in the third semester.
2. The award will consist of a certificate and a cash prize.
3. The selection will be made by the examinations board that determines the Higher Diploma awardees.
4. This award will be presented at the Higher Diploma Award Ceremony.

### *Best e-Learner Award for Semester 4*

1. This award will be made to the candidate(s) who obtain the Higher Diploma at the first attempt and their performance at the VLE assignments and the active participation in the VLE forum discussions in the fourth semester.
2. The award will consist of a certificate and a cash prize.
3. The selection will be made by the examinations board that determines the Higher Diploma awardees.
4. This award will be presented at the Higher Diploma Award Ceremony.



SECTION 8

# FEES & PAYMENTS



## 8.1 PROGRAMME FEES

Programme fees for Sri Lankan Citizens (in Sri Lankan Rs.) are given in Table 8a.

	Year 1	Year 2	Year 3	TOTAL
Application Processing Fee (when applying)	1,500	--	--	1,500
Annual Registration/ Renewal Fee	3,500	4,200	4,800	12,500
Course examination Fee (Each course)	1,500	1,900	2,400	--
Year Examinations (minimum)	15,000	17,100	19,200	51,300
Project Examination Fee (Proposal & Dissertation submission)	--	--	10,000	10,000
<b>TOTAL (minimum)</b>	<b>20,000</b>	<b>21,300</b>	<b>34,000</b>	<b>75,300</b>

Table 8a: Programme Fees for Sri Lankan citizens

## 8.2 MISCELLANEOUS FEES

Miscellaneous fees for Sri Lankan Citizens (in Sri Lankan Rs.) are given in Table 8b.

Fee for letter issuing to certify the current registration status (per letter)	500
Fee to issue a duplicate BIT Identity Card	1,500
Fee for the Academic Transcript with Grades	1000
Fee for the Academic Transcript with Grades (Additional Copy)	500
Fee for the Academic Transcript with Grades & Marks (Sent only to Foreign Institutions named by the student)	1500
Fee for the Academic Transcript with Grades & Marks (Additional Copy)	750
Certificate fee for the Diploma in Information Technology	6,000
Certificate fee for the Higher Diploma in Information Technology	7,500
Certificate fee for the Bachelor in Information Technology	9,000
Resubmission of Final Report (major corrections)	4,000
Re-Project Evaluation (Medicals for Viva)	7,500
Re-Project Evaluation (Medicals for Dissertation)	5,000
Surcharge Fee (late submissions/payments)	Double the relevant fee

*Table 8b: Miscellaneous fees for Sri Lankan Citizens*

Fees and payments are subjected to revision each year when necessary by the UCSC.

## 8.3 FEES & PAYMENT FOR FOREIGN NATIONALS

Application Processing Fee for foreign nationals is Rs. 4,500/=.

Applications of the foreign students should be sent with the recommendation of the relevant foreign missions in Sri Lanka. All foreign students' applications will be especially scrutinized.

The course fee for the foreign students from SAARC countries will be Sri Lankan Rs. 75,000/= per academic year and for the students from other countries will be Sri Lankan Rs. 150,000/= per academic year. The foreign students who repeat the courses should pay the charges as follows.

For SAARC Countries:

	Year 1	Year 2	Year 3
Annual Registration/Renewal Fee	10,500	12,600	14,400
Course examination Fee (Each course)	4,500	5,700	7,200
Project Examination Fee (Proposal & Dissertation submission)	--	--	30,000

For Other Countries:

	Year 1	Year 2	Year 3
Annual Registration/Renewal Fee	21,000	25,200	28,800
Course examination Fee (Each course)	9,000	11,400	14,400
Project Examination Fee (Proposal & Dissertation submission)	--	--	60,000

*Table 8c: Fees and payments for foreign nationals*

Foreign applicant should contact the EDC staff for further information regarding the payments prior to do any payment.

SECTION 9

# TRAINING INSTITUTES





## 9.1 INTRODUCTION

Since BIT is an external degree programme, UCSC does not undertake any teaching. UCSC provides teaching and learning resources such as detailed syllabi with a list of recommended textbooks for each course, model and past question papers, interactive learning materials and self-evaluating quizzes through the Virtual Learning Environment (VLE) [<https://vle.bit.lk/>]. All registered students are given access to the VLE while promoting self-learning according to the BIT curriculum. This online learning environment of BIT might not be adequate for some students depending on their background and experience. Hence, students could decide to follow face to face teaching courses conducted by private teaching institutes according to their wish.

Private teaching institutes can also make use of the VLE resources to conduct teaching for the BIT degree programme. Currently, there is no restriction for any institute or individual to start BIT teaching institutes since UCSC does not undertake any responsibility for their activities. However, depending on the progression of a private institution, they can attain the status of a “Recognized BIT Teaching Institute” and then, proceed to become an “Accredited Institute of BIT Teaching”.

To become a “Recognized BIT Teaching Institute”, a teaching institute need to go through three (3) stages.

When a teaching institute commences teaching BIT courses, they need to register with the External Degrees Center (EDC) of the UCSC. At this stage, they are considered as an “Applied Institute”.

When a teaching institute informs the UCSC that they conduct courses for the BIT degree programme along with a list of their students who have registered for the BIT degree, UCSC verifies the records and if acceptable, those teaching institutes will be given the VLE access as readers (not as students or teachers) to see the learning content including interactive learning activities. At this stage, these teaching institutes are considered as an “Application Verified Institute”.

When BIT students apply for examinations, students are given an option to disclose the teaching institutes which they have followed the courses. If students of those teaching institutes, completed the BIT examinations successfully, then, UCSC publishes those institutes statistics on the BIT website, with the consent of the respective teaching institute. Only those teaching institutes that have satisfactory progress are offered the status of “Recognized BIT Teaching

*Institute*” and their institute details are included in the BIT handbook. As a Recognized BIT Teaching Institute, they are given access to the BIT VLE as readers (not as students or teachers). They are also eligible to use the BIT logo with the accompanying statement of “UCSC Recognized Teaching Institute” for their promotional materials.

In addition to getting their statistics published on the BIT website and BIT handbook, these institutes cannot claim themselves as accredited BIT teaching institutes of the UCSC. However, having accreditation from the UCSC provides added benefits to a teaching institute to attract students to follow the BIT degree programme at their institute, and obtain a higher recognition which will provide external benefits such as funds, loans, etc, which are beyond the purview of the UCSC. Also, this provides ease of mind for students to follow the courses at a UCSC recognized teaching institute.

The status of “**Accredited Institute of BIT Teaching**” is offered only to a limited number of UCSC recognized teaching institutes after a rigorous evaluation process conducted by the UCSC according to defined criteria. The teaching institutes who are successful in the evaluation will be considered as an accredited institute of BIT teaching for three (3) years. To maintain the highest quality of standards, the teaching institute needs to apply for the renewal of their status before the completion of three (3) year period. The names of the accredited teaching institutes will be published in the BIT website and the BIT VLE under the title of “*Accredited Institute of BIT Teaching*”. Only those teaching institutes are eligible to use the BIT logo with the accompanying statement of “*UCSC Accredited Teaching Institute*” for their promotional materials.

## 9.2 TRAINING INSTITUTES

Table 9a presents the **recognized BIT teaching institutes** for the year 2020.

DISTRICT	INSTITUTE NAME AND ADDRESS	CONTACT NO.
COLOMBO	AAT BUSINESS SCHOOL, 540, Ven. Muruththettuwe Ananda Nahimi Mawatha, Narahenpita, Colombo 05	0112559670 0768241162
	AURORA COMPUTER STUDIES, 135, Summerset College, DFCC Building, High Level Road, Maharagama	0115690290
	CFPS BUSINESS SCHOOL (PVT) LTD, No. 482/B, Suhada Mawatha, Millenium Drive, Off Chandrika Kumaratunga Mawatha, Malabe	0114325486 0704506410
	ESoft METRO CAMPUS, No. 235, Galle Road, Colombo 04	0117555550
	JMC JAYASEKERA MANAGEMENT CENTRE (PVT) LTD, No. 65/2A, Sir Chittampalam A Gardiner Mw, Colombo 02	0112430451 0714119719
	MATRIX INSTITUTE OF INFORMATION TECHNOLOGY (PVT) LTD, No. 04, Bambalapitiya Drive, Galle Road, Colombo 04	0112553331
	OPENARC SCHOOL OF BUSINESS & TECHNOLOGY, No. 87, Nawala road, Nugegoda	0112825306 0112825307 0704500777
	QUOTRO (PVT) LTD, 375, R A De Mel Mawatha, Colombo 03.	0114333250
	THE EARTH UNI COLLEGE (PVT) LTD, No. 912/A, Maradana Road, Colombo 08	0112684838
	WIDE AWAKE SOLUTIONS (PVT) LTD, No. 213, Colombo Road, Pepiliyana	0112818027

GAMPAHA	ESOFT METRO CAMPUS,GAMPAHA, No. 156/A/02, Colombo Road, Gampaha	0337388051 0337388054 0773785301
	THE EARTH UNI COLLEGE (PVT) LTD, No. 432, Colombo Road, Gampaha	0334942626
KANDY	ESOFT METRO CAMPUS, No.447, Peradeniya Road, Kandy	0817572572
MATARA	ESOFT METRO CAMPUS, No.04, Station Road, Matara	0412233550
GALLE	THE EARTH UNI COLLEGE (PVT) LTD, 3 <sup>rd</sup> Floor, Sanvick Plaza, Wakwalla Road, Galle	0914944488
PUTTALAM	HALLAM CITY CAMPUS, No. 128, Mannar Road, Puttalam	0322265744
JAFFNA	MCS IT CAMPUS, No. 34, Sir Pon Ramanathan Road, Near University of Jaffna, Jaffna	0212226373
	COLLEGE OF ICT, 50/2, K.K.S. Road, Jaffna	0718618015

Table 9a: Recognized BIT teaching institutes for the year 2020



SECTION 10

# CONTACT

CONTACT US



## 10.1 EXTERNAL DEGREES CENTRE

External Degrees Centre (EDC) is located at University of Colombo School of Computing UCSC Building Complex, 35, Reid Avenue, Colombo 7  
Refer Figure 10a for the location of the BIT office.

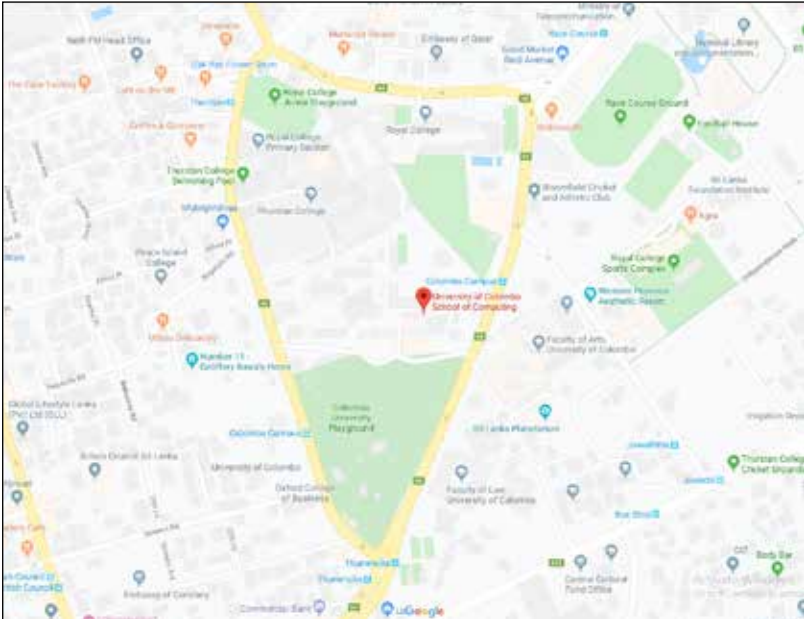


Figure 10a: External Degrees Centre (EDC) of the UCSC

<b>POSTAL ADDRESS</b>	Assistant Registrar, External Degrees Centre of UCSC, University of Colombo School of Computing UCSC Building Complex, 35, Reid Avenue, Colombo 00700
<b>TEL</b>	+94 -11- 4720511/12/13 +94 -11- 2581245/ 7
<b>FAX</b>	+94 -11-2587239
<b>BIT WEB SITE</b>	<a href="http://www.bit.cmb.ac.lk">http://www.bit.cmb.ac.lk</a> <a href="http://www.bit.lk">http://www.bit.lk</a>
<b>UCSC WEB SITE</b>	<a href="https://ucsc.cmb.ac.lk">https://ucsc.cmb.ac.lk</a>
<b>VLE WEB ADDRESS</b>	<a href="https://vle.bit.lk">https://vle.bit.lk</a>

## 10.2 STAFF

Following staff members are directly connected with the BIT programme. However, you may directly communicate only with those listed with email and it should be for appropriate purpose.

### Director, University of Colombo School of Computing

**Prof. K P Hewagamage**  
email : [director@ucsc.cmb.ac.lk](mailto:director@ucsc.cmb.ac.lk)



### Head, External & Extension Pogrammes

**Dr. D A S Atukorale**  
email : [eep@ucsc.cmb.ac.lk](mailto:eep@ucsc.cmb.ac.lk)



### Academic Coordinator of BIT

**Dr. (Ms.) K H E L W Hettiarachchi**  
email: [acc@ucsc.cmb.ac.lk](mailto:acc@ucsc.cmb.ac.lk)



### Coordinator, External Degrees Centre

**Mr. W V Welgama**  
email : [edc@ucsc.cmb.ac.lk](mailto:edc@ucsc.cmb.ac.lk)





## Project Coordinator of BIT

**Dr. H K T C Halloluwa**  
email: [bitpro@ucsc.cmb.ac.lk](mailto:bitpro@ucsc.cmb.ac.lk)



## Coordinator, e-Learning Centre/ FIT

**Dr. (Mrs) T A Weerasinghe**  
email : [elc@ucsc.cmb.ac.lk](mailto:elc@ucsc.cmb.ac.lk)



## Assistant Registrar, External Degrees Centre

**Ms. W M N K Weerasooriya**  
email : [aredc@ucsc.cmb.ac.lk](mailto:aredc@ucsc.cmb.ac.lk)



## 10.3 INSTRUCTIONS FOR REQUESTING BIT DEGREE RELATED INFORMATION

When requesting information regarding the DIT, HDIT and BIT degree related matters, please make sure to adhere to the following guidelines.

- **Each email should consist of the following information.**

- Name of the Student
- Index No
- Registration No
- NIC No.
- Inquiry
- Student Mobile Number

- **Contact only the relevant email address.**

Email addresses that should be contacted with respect to relevant matters are given below.

- All academic matters: [acc@ucsc.cmb.ac.lk](mailto:acc@ucsc.cmb.ac.lk)
- BIT project matters: [bitpro@ucsc.cmb.ac.lk](mailto:bitpro@ucsc.cmb.ac.lk)
- VLE/LMS registration and assignment matters: [admin@vle.bit.lk](mailto:admin@vle.bit.lk)
- Any other matters: [aredc@ucsc.cmb.ac.lk](mailto:aredc@ucsc.cmb.ac.lk)

## 10.4 OTHER PERSONNEL

### Web Master for [www.bit.lk](http://www.bit.lk) web site

**email :** [webmaster@ucsc.cmb.ac.lk](mailto:webmaster@ucsc.cmb.ac.lk)

### e-Testing Administrator (Online Examinations)

**email :** [etest@ucsc.cmb.ac.lk](mailto:etest@ucsc.cmb.ac.lk)

**Tel :** 011-2694391/ 011-2158949

### VLE Administrator (Access to VLE)

**email :** [admin@vle.bit.lk](mailto:admin@vle.bit.lk)

**Tel :** (+94) 011-2591080

### VLE Facilitator (VLE Content)

**Web site :** <http://vle.bit.lk/>

**Tel :** (+94) 011-2591080

**Note:** While all necessary information pertaining to students reading for the BIT degree is included in this handbook, the UCSC of the University of Colombo reserves the right to revise such information without prior notice.

## **APPENDIX A: APPRECIATION OF PROF. V. K. SAMARANAYAKE**

**An appreciation of the founder Director of the UCSC  
Vidya Jyothi Professor V. K. SAMARANAYAKE  
(1939 – 2007)**



Vanniarachchige Kithsiri Samaranayake was born on the 22<sup>nd</sup> of May 1939 and had his early education in Hewavitharana Vidyalaya, Rajagiriya where his father was the principal and his mother was a teacher. He entered Ananda College in 1948 and then Royal College through a competitive examination in 1950.

Prof. V.K.Samaranayake entered the University of Ceylon to read for a degree in Science in 1956 having completed his secondary education at Ananda and Royal Colleges. He was selected to do a Special degree in Mathematics and obtained a First Class Honours degree in 1961.

Prof. Samaranayake entered the Imperial College, London in 1963 on a state scholarship for his postgraduate studies and then moved on to University College, London to complete his PhD in record time before returning home in 1966. At the age of just 35, in recognition of his great scholarship, the University of Colombo appointed him to its highest Academic position of Professor of Mathematics in 1974. He was subsequently appointed Senior Professor of Mathematics in 1984, invited to be the first Senior Professor of the newly created Chair in Computer Science in 1996 and appointed Emeritus Professor of the University of Colombo after his retirement in 2004. In recognition of which the University honoured him with the title Professor Emeritus of Computer Science, and conferred on him the Degree of Doctor of Science, Honoris Causa at its subsequent Convocation.

As it is not possible to confine the appreciation of his enormous service to the nation and his illustrious career as an academic and an administrator to a few

pages, some of the significant milestones of his illustrious career are outlined below.

- 1987- He was appointed as Chairman of the Computer and Information Technology Council of Sri Lanka (CINTEC), which he served for 12 years. During this period he was also tasked with chairing the Presidential Task Force on Integrated R & D in Science & Technology 1997-2000 and the National Y2K Task Force in Sri Lanka 1998-2000.
- 1992 - He initiated the participation of Sri Lankan school children in Computer Programming by committing CINTEC funds for sending teams of 4 to the International Olympiad in Informatics (IOI). Sri Lanka has been able to secure 3 Gold, 5 Silver and 13 Bronze medals at successive IOI's with a record of never returning without a medal since 1994
- In 1995 he was instrumental in setting up intensive discussions with Sri Lanka Telecom, to commence Internet services in Sri Lanka. These discussions eventually brought LEARN and Internet connectivity to Sri Lanka in 1996.
- He was instrumental in forming associations for Computer Training Organizations (ACTOS), for the Software Industry (SLASI), and the Computer Vendors (SLCVA). He also created the umbrella organization for these associations in the form of the Federation of IT Industry Associations (FITIA) which recently hosted the largest ICT event in Sri Lanka – the ASOCIO ICT Summit. He has also been involved with the well known ICT Trade Exhibition organization, INFOTEL whose Chairmanship he has held from 1997. INFOTEL has in turn been the major funding organization for many industry and human resource development efforts in the field of ICT.
- In 1984 he had his first major breakthrough with the full backing of the then Chancellor, Dr. P. R. Anthonis and Vice Chancellor Prof. Stanley Wijesundera in the form of a substantial JICA grant from the Government of Japan. Almost simultaneously, the UNDP provided some much needed research funding to build up Academic Faculty in Computer Science at the University of Colombo. Starting with the Statistical Unit and the Statistical Computing and Data Processing Centre within the Mathematics Department, Prof. Samaranayake first convinced the University to set up a Department of Statistics and Computer Science in 1985, the first of its kind in Sri Lanka, and then went onto create the first

School in the university system in the form of the University of Colombo School of Computing (UCSC) in 2002.

- Commencing in the year 2000, Prof. Samaranayake initiated another major milestone in ICT HRD in Sri Lanka with the launch of the innovative Bachelor of Information Technology (BIT) External Degree programme which provides an ultimately scalable mechanism for affordable ICT education in a way that incorporates the private sector – a feat no other degree programme has been designed to do.
- Prof. Samaranayake’s involvement in the scientific community has been no less impressive with the Sri Lanka Association for the Advancement of Science (SLAAS) electing him to the office of General President in 1994 and the National Academy of Sciences of Sri Lanka electing him as a Fellow of the Academy, its Vice President and finally its President for 1998-99.
- Commencing with the meagre funding resources extended by donors in the 1970’s in an era when the developed countries themselves were just getting into the area of serious ICT human resource development, Prof. Samaranayake commenced his quest of directing all local and foreign funding to develop ICT Human Resource development at the University of Colombo.’ ’
- Prof. Samaranayak has been bestowed with several national awards in the form of the Lions’ Club Gold Medal for the Most Outstanding Citizen of Sri Lanka in 1986, the Vishva Prasadini Award in 1996 on the occasion of the 80th birthday of the then Prime Minister Sirimavo Bandaranaike and the VidyaJyothi Presidential Award in 1998.
- Prof. Samaranayake’s characteristic skill at excelling in multiple tasks is also demonstrated by his continuing involvement in research, being named a Fellow of the Kennedy School of Government at Harvard University, USA in 2001, Research Fellow at the National Centre for Digital Government at Harvard University, USA in 2003 and the impending appointment as Visiting Fellow in the Digital Vision Programme at Stanford University, USA in 2005. A particularly high point of this role was when he simultaneously chaired two International Conferences while playing a key role in the whole of the Government declared Information Technology Week in December 2004. He also continued as Chairman of the International Information Technology Conference till his untimely demise.

## APPENDIX B: MILESTONES IN THE PIONEERING EFFORTS IN COMPUTING OF THE UNIVERSITY OF COLOMBO

<b>1967</b>	First course in computer programming taught in a Sri Lankan University	<b>1986</b>	Introduction of the first ever Postgraduate Degree in Computing in Sri Lanka
<b>1968</b>	Establishment of the Statistical Unit	<b>1987</b>	Establishment of the Institute of Computer Technology (ICT) (Supported by JICA)
<b>1974</b>	Establishment of the Statistical Consultancy and Data Processing Service	<b>1988</b>	NEC 430 mainframe donated by Japan with 60 terminals for interactive computing
<b>1980</b>	Establishment of Computer Centre	<b>1989</b>	UNISYS minicomputer for student programming in Fortran, Pascal and Prolog installed through UNDP funds
<b>1981</b>	Procurement of the mini computer Data General Eclipse model S/140 with time sharing OS and 16 terminals for Fortran programming	<b>1989</b>	Next generation PC Labs with 80286/386 processors running Novell Netware 3.11/Widows 3.1 OS
<b>1982</b>	Processing and the release of the results to Sri Lanka Rupavahini corporation of the 1982 presidential election in Sri Lanka with using the BBC computers, considered the first ever computerization of a national event	<b>1990</b>	The first Bachelors and Masters degrees in Computer Science commenced by a Sri Lankan university
<b>1982</b>	Proliferation of BBC micro computers over Econet, the first LAN for file sharing, printing and Basic programming in a 30 machine PC lab	<b>1992</b>	Installation of Sun Microsystems Sun Workstation Lab with 10 machines with SunOS 4.1.2 and 10Mbps Ethernet for scientific computing
<b>1982</b>	Introduction of first generation personal computers – KayPro running CP/M	<b>1992</b>	Launch of the Third Country training programme with JICA collaboration
<b>1984</b>	Tandy Radio Shack TRS model 80 running XENIX for Unix and C programming	<b>1994</b>	UUCP dial up email service provided for University of Colombo
<b>1985</b>	Establishment of the Department of Statistics and Computer Science (DSCS)	<b>1997</b>	Internet access via Lanka Education and Academic Research Network via a 64kbps leased line by Sri Lanka Telecom
<b>1985</b>	IBM PC/XT standard PC based on 8086/88 running MSDOS introduced for Labs	<b>1997</b>	The British Computer Society accreditation was received for the Computer Science degree

1988	The research thematic International Information Technology Conference was organized by the UCSC and is now succeeded by the International Conference on Advances in ICT for Emerging Regions is technically sponsored by IEEE	2002	Commencement of Advanced M.Sc. (Research based) and Master of Information Technology
1998	Commencement of Graduate Training Programme	2002	Launch of the National e-learning centre project funded by SIDA
1999	ICT Presented with JICA President's award	2002	Implementation of Virtual Learning Environment for BIT (External Degree) using Software System called The Education
2000	Establishment of a Campus-wide fibre optic network for UoC through a Swedish Development Grant	2003	PAN Localisation research project for local language computerization with grants from IDRC, Canada
2000	Specialised servers like IBM RS/6000 (AIX OS) and Sun UltraSPARC (Solaris 7 OS) for graduates provided	2004	Introduction of the ICT degree programme for students following any of the streams at GCE A/L
2000	Introduction of the Bachelor of Information Technology (BIT) External Degree	2004	Implementation of Virtual Learning Environment for Internal Undergraduates using Moodle
2000	Joint PhD program in computing for academics of Sri Lankan universities with UCSC coordination at Swedish Universities	2005	Implementation of Virtual Learning Environment for all UCSC Students
2000	Sinhala and Tamil languages Unicode specified	2006	Launch of the UCSC International Journal on ICT for Emerging Regions
2001	Commissioning of Campus Wide Fiber Network (Supported by Sida)	2009	Commencement of Linneas-Palmer staff and student exchange program with Umeå University, Sweden
2001	Establishment of the Department of Computer Science (DCS) by splitting DSCS	2011	Establishment of the Center for Digital Forensic
2002	Establishment of the UCSC by merging the ICT & DCS	2012	Commencement of Masters in Bioinformatics jointly with IBMBB
2002	Establishment of the Advanced Media Technology Centre (ADMTC) (Supported by JICA)	2012	Software Engineering Specialization was added to the Computer Science Degree Programme
		2012	Changing the name of BICT Degree Programme in to Information System after the Curriculum Revision of BICT.



<b>2012</b>	Launch of the Master of Information Security degree
<b>2013</b>	Started Student Exchange Programme with Umea University, Sweden
<b>2013</b>	Computerization of the Registrar General's department, Land Registry and Police Fingerprint matching system
<b>2014</b>	Commencement of construction of the new auditorium building
<b>2015</b>	Commencement of BSc. (Hons) in Software Engineering Degree Programme
<b>2016</b>	Commencement of construction of Canteen, Library, and Administration building of the UCSC
<b>2017</b>	Celebrating the Golden Jubilee of Computing at University of Colombo
<b>2017</b>	Opening of the Vidya Jyothi Prof. V K Samaranyake Auditorium
<b>2017</b>	Restructuring of Master of Information Technology, Master of Computer Science, Master of Information Security (MIS) and Introduction of Master of Science in Computer Science (MSc. in CS)
<b>2018</b>	Introduction of Master of Cybersecurity course
<b>2018</b>	Opening of the Admin Block of the new building
<b>2019</b>	Introduction of Master of Business Analytics course



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