UNIVERSITY OF COLOMBO
SCHOOL OF COMPUTING

ANNUAL REPORT
2019

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

DIRECTOR'S REVIEW

It is with great pleasure and a sense of pride that I present the Annual Report 2019 of the University of Colombo School of Computing (UCSC). As a centre of excellence in teaching and learning in computing, which is the main goal of UCSC, this report presents the accomplishments as well as challenges faced during undergraduate, postgraduate, and external degree programmes conducted in the year 2019. 899 students, who got the opportunity to be enrolled in undergraduate programmes through the UGC selection process, continued their education similar to the last few years and 237 students were able to graduate at the end of the year. In addition, UCSC conducted computer science courses for 972 undergraduates of the Faculty of Science of the University of Colombo. This report describes the process of undergraduate education with collected statistics of students for your information. UCSC did not receive adequate funds from authorities, and it affected the implementation of many planned activities in the programme.

Since there is a huge demand for computing education, UCSC continues its most important national service of conducting Bachelor of Information Technology (BIT) external degree programme for which 4730 students got the opportunity to be registered in 2019. During the year, UCSC conducted all its BIT exams as scheduled. We were able to release the results of all examinations on time, allowing students to continue their studies in the next academic year. The diploma awarding ceremony and the convocation of BIT degree were held in the Prof. V.K. Samaranayake auditorium of UCSC.

The income of postgraduate and external degree programmes was a significant contribution for the sustainability of the organization due to inadequate government allocation for recurrent and capital expenditures. The progress of quality assurance activities in 2019 is also presented in the report. UCSC received approval for the revised cadre based on the zero cadre review conducted in 2016. Hence, the process of new recruitment was continued based on these guidelines in the organization.

Infrastructure development is another main focus in the year 2019. Both the government funds as well as the UCSC generated income were invested in phase II of the administrative, library and canteen building and completed in 2019. At the same time, several other infrastructure development activities such as water sump for drinking and fire fighting, transformer room, central AC system, the open pavilion of students also were also ongoing in 2019. Although all the works were planned to finish before the end of the Year 2019, due to several implementation issues, which were unforeseen during the planning, contractors, requested an extension to complete those projects during 2020.

Due to inadequate funding for the undergraduate programme, UCSC faced a significant issue in managing funds of the organization. All income-generating programmes were carried out as self-financing activities without using any government grants. 30% of the generated income is transferred to UCSC development fund as a policy of the organization and this amount was around 57 million in 2019. However, the deficit due to inadequate government grants in 2019 was around 124 million. Hence, UCSC had to use 124 million from generated funds allocated for other activities. This has been an issue during the last four years, losing around 378 million. This situation has been negatively affecting the sustainability of the organization. Cost per student does not show the actual situation since we were forced to cancel many activities due to inadequate funding. Although UCSC increased the student population by 10% during 2019, funds were not enough to finance the undergraduate programme.

Finally, I take this opportunity to express my gratitude to the Council, Senate, the Vice-Chancellor, the Board of Management, Academic Syndicate, Boards of Studies and Management Committee, and all other staff of UCSC for making 2019 – another landmark year on the timeline of UCSC.

Professor K. P. Hewagamage
Director
University of Colombo School of Computing (UCSC)

GOALS

1. To be a centre of excellence in teaching and learning in computing [**Education**]

2. To promote research and development in computing while emphasizing interdisciplinary research [**Research**]

3. To improve the qualities and responsibilities and professionalism of the students/staff [**Quality**]

4. Enhancement of infrastructure facilities for higher productivity through the development of physical resources and human capital [**Development**]

5. To Enhance the institutional image through good governance [**Governance**]

6. To contribute to the development of ICT in society [**Responsibility**]

Table of Contents

VISION i
MISSION i
DIRECTORS'S REVIEW ii
GOALS iii
OVERVIEW OF THE UCSC vii
AT A GLANCE- KEY PERFORMANCE INDICATORS (KPIs) OF UCSC (2015-2019)…… .ix
1. GOVERNANCE 2
1.1 OFFICERS OF THE UCSC 2
1.2 AUTHORITIES 3
1.2.1 BOARD OF MANAGEMENT (BOM) 3
1.2.2 FINANCE AND MANAGEMENT COMMITTEE (FMC) 4
1.2.3 AUDIT COMMITTEE (AC) 4
1.2.4 ACADEMIC SYNDICATE 4
1.2.5 BOARDS OF STUDY 6
1.2.6 DEPARTMENTS OF STUDY 10
1.2.7 CENTRES 11
2. EDUCATION 18
2.1 UNDERGRADUATE EDUCATION 18
2.1.1 INTERNAL UNDERGRADUATE DEGREE PROGRAMMES 18
2.1.2 ACADEMIC YEAR – 2018/2019 AND STUDENT ENROLMENT 19
2.1.3 STUDENT PERFORMANCES AT EXAMINATION 21
2.1.4 INDUSTRIAL PLACEMENT 22
2.1.5 UNDERGRADUATE STUDENT WELFARE 22
2.1.6 UCSC STUDENT UNION 28
2.1.7 STUDENT ACTIVITIES 28
2.1.8 STUDENT ACHIEVEMENTS 30
2.1.9 GRADUATION 2019 32
2.1.10 UNDERGRADUATE AWARDS 34
2.1.11 EMPLOYABILITY 36
2.2 POSTGRADUATE STUDIES 36
2.2.1 MASTER DEGREE PROGRAMME 36
2.3 EXTERNAL DEGREE & EXTENSION COURSES 43
2.3.1 BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL) DEGREE PROGRAMME 43
2.3.2 EXTENSION COURSES 45
2.3.3 ONLINE EXTENSION PROGRAMMES 46
2.4 FOREIGN STUDENTS 47

3. RESEARCH 49
3.1 RESEARCH, INNOVATION, AND PUBLICATIONS 49
3.1.1 UNDERGRADUATE LEVEL RESEARCH PROJECTS 49
3.1.2 MASTERS LEVEL PROJECTS 49
3.1.3 PROJECTS OF RESEARCH DEGREES 50
3.1.4 FUNDED RESEARCH PROJECTS 50
3.1.5 ALLOCATION FOR RESEARCH THROUGH POSTGRADUATE PROGRAMME AND UTILIZATION 53
3.1.6 RESEARCH GROUPS AT UCSC 53
3.1.7 RESEARCH PUBLICATIONS AND AWARDS 55
3.1.8 PROFESSOR VK SAMARANAYAKE ORATION – 2019 59
3.1.9 INTERNATIONAL CONFERENCE - ICTER2019 59
3.1.10 INTERNATIONAL JOURNAL – ICTER 62
3.1.11 RESEARCH PUBLICATIONS – 2019 63
4. HUMAN RESOURCES – ACADEMIC AND NON-ACADEMIC 70
4.1 UCSC CADRE 70
4.2 OVERALL PROFILE OF THE UCSC STAFF 73
4.3 RECOGNITION OF UCSC STAFF 74
4.4 STAFF DEVELOPMENT AND TRAINING 74
4.4.1 MEDICAL SUPPORT SCHEME 75
4.4.2 WELFARE SOCIETY OF UCSC 75
5. INSTITUTIONAL DEVELOPMENT 78
5.1 QUALITY ASSURANCE AND ACCREDITATION 78
5.2 INFRASTRUCTURE DEVELOPMENT 81
5.2.1 CAPITAL PROJECTS – 2019 81
5.3 DEVELOPMENT OF THE INSTITUTIONAL RECOGNITION 82
5.3.1. OUTSTANDING AWARDS FOR STAFF MEMBERS 82
5.3.2. CONTRIBUTIONS FROM UCSC STAFF MEMBERS 82
5.4 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDG) – 2019 .. 86
5.4.1 SUSTAINABLE DEVELOPMENT GOALS (SDG) 86
5.4.2 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SGD) FOR THE YEAR 2019 86
6. FINANCE 95
6.1 RECURRENT EXPENDITURE 95
6.2 CAPITAL EXPENDITURE 96
6.3 CONSULTANCY AND RESEARCH PROJECTS (EXTERNALLY FUNDED) 97
6.4 ANALYSIS OF FINANCIAL SUPPORT AND THE GENERATED INCOME 98
6.4.1 FINANCIAL PERFORMANCE ANALYSIS 99

6.4.2 ANALYSIS OF THE FINANCIAL DETAILS OF THE UNDERGRADUATE PROGRAMME 99

6.4.3 COMBINED STATEMENT OF FINANCIAL POSITION AS AT 31ST DECEMBER 2019 99

6.4.4 COMBINED STATEMENT OF FINANCIAL PERFORMANCE AS AT 31ST DECEMBER 2019 101

6.4.5 COMBINED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31ST DECEMBER 2019 102

6.5. STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31ST DECEMBER 2019 103

6.6 UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING- SRI LANKA - POLICIES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31ST DECEMBER 2019 104

6.6.1. REPORTING ENTITY 104

6.6.2. BASIS OF PREPARATION OF FINANCIAL STATEMENTS 104

6.6.3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES 105

7. UCSC HIGHLIGHTS 2019 – VISIBILITY, EVENTS AND ACTIVITIES 128

7.1 MONTHLY HIGHLIGHTS - ACTIVITIES, EVENTS, AND PROGRAMMES 128

8. AUDIT REPORT 2019 135

9. ANSWERS FOR AUDIT REPORT 2019 141

OVERVIEW OF THE UCSC

The University of Colombo School of Computing (UCSC) [http://www.ucsc.cmb.ac.lk] was established as a Centre of Higher Learning on 1st September 2002 by merging the Institute of Computer Technology (ICT) and the Department of Computer Science (DCS) of the University of Colombo, by an Order made under Section 24 A(1) of the Universities Act No. 16 of 1978 as last amended by the Universities (Amendment) Act No.1 of 1995, with the purpose of providing, promoting and developing higher education in Computer Science, Information and Communication Technology. It is a Higher Educational Institute within the University of Colombo established to develop and promote computing studies in the country as well as an international knowledge hub in computing. The UCSC was granted financial autonomy, and its operations have been described in the Ordinance Gazetted on 15th November 2002 (GZT NO. 1262/32) and amended to include the Centre for Digital Forensics on 22nd July 2011 (GZT NO. 1715/32).

According to the ordinance of UCSC, the University of Colombo School of Computing comprises 03 academic departments, namely;

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

According to the ordinance of UCSC, the University of Colombo School of Computing has 06 centers:

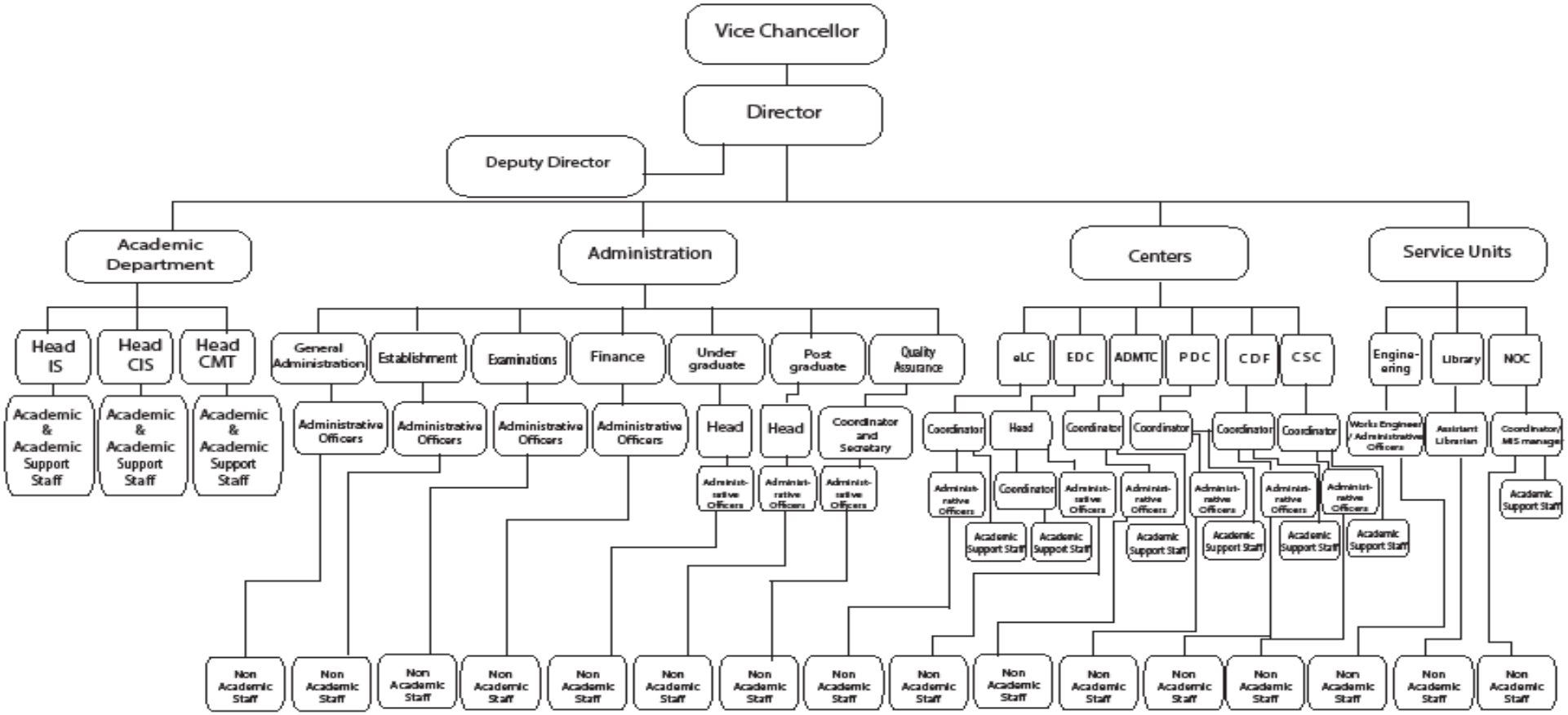
Advanced Digital Multimedia Centre (ADMTC);
Computing Services Centre (CSC);
External Degrees Centre (EDC);
E-Leaning Centre (e LC);
Professional Development Centre (PDC);
Centre for Digital Forensics (CDF)

More details about these departments and Centres are presented later in this annual report.

Organization Structure of UCSC - 2019

Based on the structure declared in the ordinance and current operational requirements, the organizational structure of UCSC has been established to carry out the management activities of the institute. The flow of authority and the allocation of staff have been coordinated according to the hierarchy given in the following diagram.

University of Colombo School of Computing – Organizational Structure



AT A GLANCE – KEY PERFORMANCE INDICATORS (KPIS) OF UCSC (2015-2019)

		2019	2018	2017	2016	2015
Education (Enrolled/Graduated)						
Internal Undergraduates	All	899	857	809	761	770
	In	297	301	261	250	256
	Out	237	244	193	236	247
Science Undergraduates		972	1043	924	1060	997
Diploma in Information Technology (DIT) (External)	All	2373	1975	2109	2188	4075
	In	2142	1461	1631	1602	1890
	Out	436	337	403	403	334
Higher Diploma in Information Technology (HDIT) (External)	All	1634	1240	1259	756	2509
	In	1365	463	511	490	690
	Out	120	110	151	149	226
Bachelor of Information Technology (BIT) (External)	All	862	1230	1282	1177	1651
	In	795	187	233	242	346
	Out	177	133	217	206	260
Postgraduates	All	426	556	533	454	452
	In	258	232	243	184	188
	Out	185	139	150	127	121
Extension Programmes		551	317	296	334	339
Research						
Research (MPhil/Ph.D.)	All	35/08	35/06	37/06	36/06	42/09
	In	03/03	04/00	11/02	01/07	08/01
	Out	03/01	00/01	03/04	00/01	03/1
Research Projects	All	21	20	27	34	11
	New	09	10	14	19	3
Publications		56	64	53	64	71
Consultancy/R&D Projects						
Local		15	15	21	24	23
Foreign		6	5	4	2	1
Social Responsibility Programmes		13	11	12	10	10

		2019	2018	2017	2016	2015
Governance						
Permanent Academic Staff	All	47	49	47	43	38
	Professors	03	02	03	03	03
	Ph.D.	27	26	27	24	23
	Masters	06	09	09	09	09
Permanent Academic Support Staff		06	07	08	04	04
Temp Academic Staff (Instructors & Asst. Lect.)		43	30	27	21	27
Permanent Admin and Non-Ac Staff		52	54	46	46	37
Contract Staff (including casual & trainee)		56	35	25	25	42
Research/Project Staff		16	26	18	18	24
Finance						
		2019	**2018**	**2017**	**2016**	**2015**
Annual Recurrent Expenditure (Millions SLR)		586	488	415	335	307
Treasury Grant (Recurrent) (Millions SLR)		337	199	165	160	122
Treasury Grant (Capital) (Millions SLR)		69	112	107	205	43
Generated Income		289	274	263	201	211
UCSC Contribution to UG (Millions SLR) (Generated %)		91 (18%)	126 (29%)	131 (50%)	147 (48%)	122 (58%)
UCSC Budget (Millions SLR)		679	498	424	622	577
Research/Project (Millions SLR)		9.8	9	11	11	14
Cost per Employee (SLR '000s) per annum		1,692	1,275	1,081	1,008	881
Cost per Student (SLR '000s) – Treasury Recurrent		450	356	310	269	195
Infrastructure						
Library Books		9,073	8,948	8,810	8,931	8,783
Computers: staff		1:1	1:1	1:1	1:1	1:1
Computers: students (General students) (Special students)		1:4 1:1	1:4 1:1	1:4 1:1	1:4 1:1	1:4 1:1
Space Utilization (employee) (sq. m.)		10.9	11.70	15.24	11.70	11.70
Space Utilization (student) (sq. m.)		4.5	4.77	4.39	4.77	4.77

1. GOVERNANCE

1. GOVERNANCE

During the year 2019, the organizational activities were carried out based on the corporate plan for 2019-2023 while focusing on the six (6) goals as given in the beginning of this report. The corporate plan was prepared based on the planned activities for the next five years together with an action plan for 2019.

The Management of the UCSC is coordinated by the Director of the UCSC with the assistance of the Deputy Director, Heads of the Departments, Deputy Registrars, the Deputy Bursar, Centre Coordinators, Programme Coordinators, and the administrative staff members of divisions. The Director chaired all UCSC Statutory and Selection Committees except the Audit Committee. The structure and progress of these statutory bodies are given below.

1.1 OFFICERS OF THE UCSC

Director	Prof. K.P. Hewagamage	
Deputy Director	Dr. D.A.S. Athukorala	
Heads	Dr. D.A.S. Athukorala	- Department of Computation and Intelligent Systems (CIS)
	Dr. G.D.S.P. Wimalaratne	- Department of Communication and Media Technologies (CMT)
	Dr. M.D.J.S. Goonetillake	- Department of Information Systems Engineering (ISE)
Deputy Registrars	Mr. K.K.K. Dharmathilaka & Ms. H.P. Henegama	
Deputy Bursar	Mr. E.M. Gunarathna	
Coordinators	Dr. S.P. Matara Arachchi	- Advanced Digital Media Technology Centre (ADMTC)
	Dr. K.L. Jayaratne	- Computing Services Centre (CSC)
	Mr. L.P. Jayasinghe	- External Degrees Centre (EDC) (till 3rd August 2019)
	Dr. T.A. Weerasinghe	- e-Learning Centre (eLC)
	Dr. L.N.C. De Silva	- Professional Development Centre (PDC)
	Dr. T.N.K. De Zoysa	- Centre for Digital Forensics (CDF)

1.2 AUTHORITIES

The Authorities of the School are the Board of Management; Academic Syndicate; Boards of Study; Departments of Study and Centres as described in the ordinance of UCSC. Respective administrative staff officers who reported to Director, Deputy Director, Heads, and Centre Coordinators according to the operational requirement to manage different administrative divisions of the organization.

1.2.1 BOARD OF MANAGEMENT (BOM)

Meetings of the Board of Management were held monthly during the year 2019. The first Thursday of each month is usually allocated for the BOM meetings. Minutes and memos are distributed before the meeting by the Deputy Registrar/Administration who shall be the secretary to the Board of Management. The composition of the Board of Management is given below, together with the statistics of the meeting participation (P – Participated, E-Excused, A-Absent, L-Leave). UCSC has conducted 14 BOM meetings, including two special BOM meetings held on 28.02.2019 and 12.03.2019 in order to table the Financial Statements for 2018 and to elect the Director/UCSC, respectively.

Ex- Officio Members	
• Director	Prof. K.P. Hewagamage (P-13 & E-1)
• Deputy Director & Head of CIS	Dr. D.A.S. Athukorala (P-13 & E-1)
• Nominee, Secretary of Higher Education	Mr. M. Dewasurendra (P-9, E-1 & A-2) (till October 2019) Mr. L. Waduge (P-02) (from November 2019 to December 2019)
• Nominee, Ministry of Finance	Mrs. K.A. Ramya Kanthi (P-13 & E-1)
• Dean, Faculty of Science	Prof. K.R.R. Mahanama (P-13 & E-1)
• Head of CMT	Dr. G.D.S.P. Wimalaratne (P-9, E-4 & A-1)
• Head of ISE	Dr. M.D.J.S Goonetillake (P-11, E-2 & A-1)
Appointed Members	
• Members, UOC Council (02)	Mr. Anil Rajakaruna (P-10, E-3 & A-1) Mrs. C. Mubarak (P-8 & E-6)
• Members, UOC Senate (02)	Prof. Sumedha Jayanetti (P-13 & E-1) Prof. Pavithra Kailasapathy (P-13 & E-1)
• Nominees, UGC (02)	Deshamanya Mr. M.D.D. Pieris (P-14) Prof. K.D. Gunawardana (P-11& E-3)
• Representatives, IT Industry (02)	Mr. Saman Perera (P-12 & E-2) Dr. Romesh Ranawana (P-12 & E-2)
• Nominees, Academic Syndicate (03)	Dr. K.L. Jayaratne (P-14) Dr. H.A. Caldera (P-13 & E-1) Dr. M.G.N.A.S. Fernando (P-10, E-2 & A-2)

1.2.2 FINANCE AND MANAGEMENT COMMITTEE (FMC)

The Finance and Management Committee (FMC) is a sub-committee which assists the Board of Management to discuss financial activities in detail before taking relevant decisions at the Board of Management. The committee was able to meet 1 times during the year 2019 and the Director/UCSC chaired the meetings.

Chairman	Prof. K.P. Hewagamage (P-1)
Deputy Director	Dr. D.A.S. Athukorala (P-1)
Board Nominees	Prof. K.R.R. Mahanama (P-1) Deshamanya Mr. MDD Pieris (P-1) Dr. Pavithra Kailasapathy (P-1) Mr. Athula Rajapaksha (P-1)
Deputy Bursar	Mr. E.M. Gunarathna (P-1)
Deputy Registrar	Mr. K.K.K. Dharmathilake (P-1)

P-Present, E-Excused, A-Absent & L-Leave

1.2.3 AUDIT COMMITTEE (AC)

The Audit Committee (AC) is a Subcommittee, which assists the Board of Management to discuss matters related to internal audit reports and the final audit report before taking appropriate decisions at the Board of Management. It is usually chaired by a special nominee of the Board of Management. The Director and the Deputy Director are invitees of the committee. The representatives of the Departments of Government Audit, the Departments of Internal Audit of the University of Colombo, and the Department of Internal Audit of the University Grants Commission are also invited to this meeting. The Representatives of Earnest and Young (Internal Auditors appointed by the Board of Management) are also invited to these meetings. The statistics of participation of the 03 meetings of the year 2019 are given with respect to each member.

Chairman	Prof. K D Gunawardena (P-3)
Board Nominees	Mr. M. Dewasurendra (P-3) Ms. K.A. Ramyakanthi (P-3)
Rep of Auditor General	Mrs. W A T G Weerakkody (P-3)
Internal Auditor/University Grants Commission	Mr. M M J R Bogamuwa (P-2 & E-1)
Internal Auditor/University Of Colombo	Mr. K.E.W. Jayasiri (P-2 & E-1)
Rep /Ernst &Young Auditors	Mr. Anjuna M Liyanage (P-2 & E -1)
Director (Observer)	Prof. K.P. Hewagamage (P-3)
Deputy Director (Observer)	Dr. D.A.S. Athukorala (P-3)

P-Present, E-Excused, A-Absent & L-Leave

1.2.4 ACADEMIC SYNDICATE

The Academic Syndicate was held monthly during the year 2019. The composition of the Academic Syndicate has been defined in the ordinance of UCSC. The Academic Syndicate takes the decisions recommended by three Boards of Studies, namely, the Board of Study (BOS) for Internal Undergraduate Degrees (IUD), the BOS for Research and Higher Degrees (RHD), and the BOS for External and Extension Program (EEP). Important academic related matters of the Board of studies are approved or recommended by the Academic Syndicate. Special matters are tabled by the Director based on the recommendation of respective academic and administrative staff related Board of Study.

Some of the important decisions recommended at the Academic Syndicate require to be approved at the Council of the University of Colombo, the Board of Management, and the Senate of the University of Colombo based on the regulation in the University. Minutes of all formal meetings held during 2019 are approved and documented. Formal members of the Academic Syndicate and their participation statistics are given below.

S.N.	Name	Attendance of 11 Syndicate Meetings				
		Present	%	Absent	Excused	Leave
1	Prof. K.P. Hewagamage, Director	10	91		1	
2	Dr. D.A.S. Athukorala, Deputy Director , Head/CIS and Senior Lecturer Gr.I	11	100			
3	Dr. G.D.S.P. Wimalaratne, Head/CMT & Senior Lecturer Gr. I	10	91	1		
4	Dr. (Mrs) M.D.J.S. Goonetillake, Head /ISE & Senior Lecturer Gr. I	11	100			
5	Prof. N.D. Kodikara, Senior Professor	6	55	5		
6	Prof. G.K.A. Dias, Professor	11	100			
7	Dr. A.R. Weerasinghe, Senior Lecturer Gr. I	6	55	2	1	2
8	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	4	36	7		
9	Dr. T. Sritharan, Senior Lecturer Gr. I	Sabbatical Leave				
10	Mr. G.P. Seneviratne, Senior Lecturer Gr. I	11	100			
11	Dr. D.D. Karunaratne, Senior Lecturer Gr. I	6	75	1		4
12	Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I	9	82		2	
13	Dr. C.I. Keppitiyagama, Senior Lecturer Gr. I	10	91			1
14	Dr. K.L. Jayaratne, Senior Lecturer Gr. I	9	82	1	1	
15	Dr. H.A. Caldera, Senior Lecturer Gr. I	11	100			
16	Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. I	9	82		1	1
17	Dr. (Mrs) S.M.K.D. Arunatileka, Senior Lecturer Gr. II	10	91		1	
18	Dr. M.D.R.N. Dayaratne, Senior Lecturer Gr. II	11	100			
19	Mr. K.P.M.K. Silva, Senior Lecturer Gr. II	6	55	1	2	2
20	Mrs. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II	7	64		4	
21	Mr. W.V. Welgama, Senior Lecturer Gr. II	9	82		2	
22	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr.II	7	64		4	
23	Dr. (Mrs) T.A. Weerasinghe, Senior Lecturer Gr. II	9	82		2	
24	Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II	10	91		1	
25	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II	8	73		3	
26	Dr. B.H.R. Pushpananda, Senior Lecturer Gr. II	10	91		1	
27	Dr.(Mrs) H.N.D. Thilini , Senior Lecturer Gr. II	6	55		2	3

28	Dr. (Mrs) L.N.C. De Silva, Senior Lecturer Gr. II	11	100			
29	Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II	9	82	1	1	
30	Dr. S.S.P. Matara Arachchi, Senior Lecturer (IUD/Representative) Coordinator/ADMTC	9	82		2	
31	Dr. Kasun Karunanayaka, Senior Lecturer Gr. II (Contract)	6	67		3	
32	Dr. (Mrs) M.G.D.K. Fernando, Senior Lecturer Gr. II (Contract)	3	100			
33	Dr. H.K.T.C. Halloluwa, Lecturer (on Invitation)	4	36			7
34	Mr. L.P. Jayasinghe, Coordinator/EDC Instructor, Gr. I (Retired in October)	2	29	3		6
35	Mr. S.T. Nandasara (on invitation)	9	82	2		
36	Prof. R.D. Wijesekara, Nominee/ Faculty of Science, UOC	7	64	1	3	
37	Mrs. H.P. Henegama, DR/ Academic Publication & Welfare	11	100			
38	Ms. J.A.M.S. Wijerathna, SAR/ Postgraduate Research and Projects	9	82	2		
39	Ms. D.K.M. Rathnayake, SAR/ Examination & Registration	10	91	1		
40	Ms. W.M.N.K. Weerasooriya, AR/ External Degrees Centre	9	82	1	1	
41	Ms. K. Prathayini, AR/ Academic Publication & Welfare	10	91	1		

1.2.5 BOARDS OF STUDY

According to the ordinance of UCSC, there are three Boards of Studies for Internal Undergraduate Degrees (BOS/IUD), Research and Higher Degrees (BOS/RHD), and External and Extension Programmes (BOS/EEP). The Director, UCSC chairs these boards of studies, and there is an academic staff member as the Secretary and an administrative staff member to coordinate the meetings.

1.2.5.1 BOARD OF INTERNAL UNDERGRADUATE DEGREES (BOS-IUD)

During 2019, 10 meetings of the BOS/IUD were formally held and minutes of all these meetings have been recorded by the academic representative with the help of an administrative staff member. All matters related to internal undergraduate degrees, such as teaching, learning, assessment and administrations, are discussed in detail at BOS/IUD. Nine student representatives also attended these meetings only during the first part of the meeting. The composition of the Board of Internal Undergraduate Degrees (IUD) and the participation statistics of the meetings are given below.

No	NAME	Attendance of 10 IUD Meetings				
		Present	%	Absent	Excused	Leave
1	Prof. K.P. Hewagamage, Director	10	100			
2	Dr. D.A.S. Athukorala, Deputy Director, Head/ CIS	9	90		1	
3	Dr. G.D.S.P. Wimalaratne, Head/ CMT	8	80		1	1
4	Dr. (Mrs) M.D.J.S Goonetillake, Head/ ISE, Head/ IUD	10	100			
5	Dr. T.N.K. De Zoysa, Coordinator/ IS Degree	10	100			
6	Dr. M.G.N.A.S. Fernando, Coordinator/ CS degree	10	100			
7	Mrs. M.W.A.C.R. Wijesinghe, Senior Lecturer, Secretary/IUD	7	70		3	
8	Prof. N.D. Kodikara, Senior Professor	4	40	2	1	3
9	Prof. G.K.A. Dias, Professor	10	100			
10	Dr. A.R. Weerasinghe, Senior Lecture Gr. I	7	70		1	2
11	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	5	50	3	2	
12	Mr. G.P. Seneviratne, Senior Lecturer Gr. I	10	100			
13	Dr. D.D. Karunaratne, Senior Lecturer Gr. I	5	50			5
14	Dr. C.I. Keppitiyagama, Senior Lecturer Gr. I	10	100			
15	Dr. K.L. Jayaratne, Senior Lecturer Gr. I	7	70	2	1	
16	Dr. H.A. Caldera, Senior Lecturer Gr. I	9	90		1	
17	Dr. (Mrs) S.M.K.D. Arunatilake, Senior Lecturer Gr. II	8	80	1	1	
18	Dr. M.D.R.N. Dayarathne, Senior Lecturer Gr. II	8	80		2	
19	Mr. K.P.M.K. Silva, Senior Lecturer Gr. II	6	60	4		
20	Mr. W.V. Welgama, Senior Lecturer Gr. II	9	90		1	
21	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr. II	9	90		1	
22	Dr. (Mrs) T.A. Weerasinghe, Senior Lecturer Gr. II	8	80		2	
23	Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II	10	100			
24	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II	9	90		1	
25	Dr.(Mrs) H.N.D. Thilini, Senior Lecturer Gr. II	5	50		3	2
26	Dr. B.H.R. Pushpananda, Senior Lecturer Gr. II	6	60		4	
27	Dr. (Mrs) L.N.C. De Silva, Senior Lecturer Gr. II	9	90		1	
28	Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II	4	40	1	5	
29	Dr. S.S.P. Mathara Arachchi, Senior Lecturer	9	90		1	
30	Dr.(Mrs) M.G.D.K.Fernando, Senior Lecturer (Contract)	3	75		1	
31	Mr. S.T. Nandasara, Lecturer (Contract)	6	60	1	3	
32	Mr. R.N. Rajapakse, Lecturer (Probationary)	5	50		1	4
33	Mr. R.M.U.A. Rathnayake, Lecturer (Probationary)	8	80		2	
34	Ms. D.N. Perera, Lecturer (Probationary)	4	40	2		4
35	Ms. R.A.Y.S. Ranasinghe, Lecturer (Probationary)	9	90		1	
36	Mr. K.V.D.J.P. Kumarasinghe, Lecturer (Probationary)	9	90		1	
37	Mr. R. J. Amaraweera, Lecturer (Probationary)	7	70		2	1
38	Mr. M.A.I.M. Dharmadasa, Lecturer (Probationary)	7	70		3	
39	Mr. S.J. Dissanayake, Lecturer (Probationary) Resigned in October	4	57		3	
40	Ms. A.L. Nanayakkara, Lecturer (Probationary)	10	100			
41	Ms. C.L. Ishani Fonseka, Lecturer (Probationary)	9	90		1	
42	Ms. G.K.K. Perera, Lecturer (Probationary)	8	80		2	
43	Mr. P.K.M.Thilakaratna, Lecturer (Probationary)	4	80	1		
44	Mr. L.P. Jayasinghe, Instructor Gr. I Retired in October	1	10	6	2	
45	Mr. G.P.N. Boteju, Instructor Gr. II	7	70	1	2	

46	Mr. R.S. Madanayake, Instructor	6	60		4	
47	Ms. B.D.L. Perera, Temp. Assistant Lecturer (by invitation) Resigned in February	1	100			
48	Ms. M.V.P.T. Lakshika, Temp. Assistant Lecturer (by invitation)	5	50	2	3	
49	Ms. D.A.S. Ruwanmini, Temp. Assistant Lecturer (by invitation)	7	70	3		
50	Ms. T.T. Kaluarachchi, Temp. Assistant Lecturer (by invitation)	7	70	3		
51	Ms. S.S. Thrimahavitharana, Temp. Assistant Lecturer (by invitation)	3	60	2		
52	Ms. D.T. Fernando, Temp. Assistant Lecturer (by invitation)	4	80	1		
53	Mr. B.S. Wickramathilaka, Temp. Assistant Lecturer (by invitation)	3	60	1	1	
54	Mr. S. Nimishan, Temp. Assistant Lecturer (by invitation)	2	67	1		
55	Ms. M.A.I. Perera, Temp. Assistant Lecturer (by invitation)	3	100			
56	Ms. H.N. Kegalle, Temp. Assistant Lecturer (by invitation)	3	100			
57	Ms. S.D. Gunawardhana, Instructor (by invitation)	5	50	1	4	
58	Mr. E.R.A.D. Bandara, Coordinator of Joint Special Degree Programme, Faculty of Science, UOC (By Invitation)	5	50	2	3	
59	Dr. T. Sritharan, Senior Lecturer Gr. I	Sabbatical Leave				
60	Dr. K.D. Sandaruwan, Lecturer (Probationary)	Study Leave				
61	Mrs. K.P.U. Jayasinghe, Lecturer (Probationary)	Study Leave				
62	Ms. R.M.P.N.Somaratne, Lecturer (Probationary)	Study Leave				
63	Mr. R.A.H.D. Perera, Lecturer (Probationary)	Study Leave				
64	Mr. A.P. Sayakkara, Lecturer (Probationary)	Study Leave				
65	Mr. W.I.A.R.P. Fernando, (2016/IS/025)	Student Representative				
66	Mr. S.P. Ranaweera, (2016/CS/117)	Student Representative				
67	Mr. B.M.S.B. Nawarathna, (2017/CS/115)	Student Representative				
68	Mr. M.H. Jawahir (2016/IS/036)	Student Representative				
69	Mr. M.F.F. Kamaldeen (2017/IS/040)	Student Representative				
70	Mr. W.C.D. Mendis (2017/CS/108)	Student Representative				
71	Mr. B. Kiruthiharan (2017/CS/086)	Student Representative				
72	Mr. D.C.H. Muthukumarage (2017/IS/056)	Student Representative				
73	Mr. O. Mudannayake (2015/CS/089)	Student Representative				
74	Mr. W.D. Wattearachchi (2015/CS/141)	Student Representative				
75	Ms. H.P. Henegama, DR/ Academic Publication & Welfare (In Attendance)	10	100			
76	Ms. D.K.M. Rathnayake, SAR/Examinations & Registration (In attendance)	10	100			
77	Ms. K. Prathayini, AR/ Academic Publication & Welfare (In Attendance)	9	90			1

1.2.5.2 BOARD OF RESEARCH AND HIGHER DEGREES (BOS-RHD)

The Board of Research and Higher Degrees (RHD) is a formal committee established under the ordinance of UCSC and there were 10 meetings held during 2019. All matters related to the research, postgraduate studies are discussed in detail on this board, and matters, which require approval, are forwarded to the Academic Syndicate.

No	Name	Attendance of 10 RHD Meetings			
		Present	%	Absent	Excused
1	Prof. K.P. Hewagamage, Director	10	100		
2	Dr. D.A.S. Athukorala, Deputy Director, Head/CIS & Senior Lecturer Gr. I	8	80	2	
3	Mr. G.P. Seneviratne, Senior Lecturer Gr. I, Rep./CIS	10	100		
4	Dr. D.D. Karunaratne, Senior Lecturer Gr. I	3	100		
5	Dr. G.D.S.P. Wimalaratne, Head/ CMT & RHD, Snr Lecturer Gr. I	8	80		2
6	Dr. (Mrs) M.D.J.S. Goonetillake, Head/ISE, Senior Lecturer Gr. I	10	100		
7	Dr. T.N.K. De Zoysa, Coordinator/MIS Cybersecurity, (Sec. RHD)	10	100		
8	Dr. H.A. Caldera, Coordinator/MIT Programme, Snr Lecturer Gr. I	9	90		1
9	Dr. H.E.M.H.B. Ekanayake, Coordinator/MCS Programme	1	33	1	1
10	Mr. S.T. Nandasara, Lecturer (on Contract)	1	100		
11	Mr. K.P.M.K. Silva, Senior Lecturer, Rep./CMT	10	100		
12	Dr. M.I.E. Wickramasinghe, Project Coordinator/MIS	7	70	2	1
13	Dr. P.V.K.G. Gunawardana,Project Coordinator/MCS	9	90	1	
14	Mrs. M.W.A.C.R.Wijesinghe, Coordinator/MSc in Bioinformatics	8	80	2	
15	Dr. S.S.P. Matara Arachchi, Coordinator/ADMTC	8	80	1	
16	Dr. T.A. Weerasinghe, Coordinator/MIT & e-Learning Centre	8	80	1	
17	Dr. M.G.N.A.S. Fernando, Rep/ISE	1	100		
18	Ms. M.S. Wijerathna, SAR/Postgraduate, Research & Projects (In attendance)	10	100		
19	Ms. D.K.M. Rathnayake, SAR/Examinations & Registration (In attendance)	10	100		

1.2.5.3 BOARD OF EXTERNAL AND EXTENSION PROGRAMMES (BOS - EEP)

The Board of External and Extension Programmes (BOS-EEP) is a formal committee defined in the ordinance of UCSC. Monthly meetings were held to discuss all the matters related to external and extension study programmes managed by the UCSC. It is chaired by the Director and there is a formal academic secretary and administrative staff officer to manage the meeting minutes and activities.

No	Name	Attendance of 10 EEP Meetings			
		Present	%	Absent	Excused
1	Prof. K.P. Hewagamage, Director	10	100		
2	Dr. D.A.S. Athukorala, Head /CIS & EEP	10	100		
3	Dr. G.D.S.P. Wimalaratne, Head/CMT & RHD	7	70	3	
4	Dr. (Mrs)M.D.J.S. Goonathilake, Head/ISE & IUD	2	20	4	4
5	Dr. D.D. Karunaratne/ Academic Coordinator – BIT (Former)	2	40		3
6	Dr. K.L.Jayaratne, Coordinator /CSC			7	3

7	Dr. T.N.K. De Zoysa , Coordinator /CDF	3	30	7	
8	Dr. M.G.N.A.S. Fernando, Nominee- CS Programme	10	100		
9	Mr. W.V. Welgama, Secretary EEP /BIT Project Coordinator	9	90		1
10	Dr. (Mrs) T.A. Weerasinghe, Coordinator, ELC	9	90		1
11	Dr. K.H.E.L.W. Hettiarachchi, Academic Coordinator BIT	4	67		2
12	Dr. (Mrs)H.N.D. Thilini, BIT/curriculum committee invitee	4	40		6
13	Dr. L.N.C. De Silva, Coordinator / PDC	9	90		1
14	Dr. S.S.P. Matara Arachchi, Coordinator/ ADMTC	8	89		1
15	Mr. L.P. Jayasinghe, Coordinator / EDC	3	100		
16	Mrs. R.P. Balasuriya, Instructor/ Invitee	9	90	1	
17	Mr. G.S. Hettiarachchi, BIT VLE Coordinator - Invitee	7	70	1	2
18	Ms. K.M.G.B. Nishakumari, BIT VLE Facilitator - Invitee	8	80	1	1
19	Mr. T.C. Galahena, Web Master – BIT Site - Invitee	8	80	1	1
20	Ms. M.B.P. Dissanayake, Asst.to Academic Coordinator/BIT - Invitee	10	100		
21	Ms. S.D. Gunawardena, BIT eLearning Centre - Invitee	3	30	4	3
22	Ms. D.K.M. Rathnayake, Examination and Registration (In-attendance)	10	100		
23	Ms. S.F. Imam, Examination and Registration (In-attendance)	10	100		
24	Ms. W.M.N.K.Weerasooriya, AR/EDC (In-attendance)	10	100		
25	Ms. P.M.K. Jayaratne, AR/Director's Office (In-attendance)	9	90	1	

1.2.6 DEPARTMENTS OF STUDY

1.2.6.1 DEPARTMENT OF COMPUTATION & INTELLIGENT SYSTEMS (CIS)

Department of Computation & Intelligent Systems (CIS) consists of permanent academic staff members who have a direct interest in computer Intelligent Systems. Most of these staff members teach courses of undergraduates as well as postgraduate programmes at the UCSC. The Head of the Department during 2019 was Dr. D.A.S. Athukorala. More details are given in the website of UCSC (www.ucsc.cmb.ac.lk).

1.2.6.2 DEPARTMENT OF COMMUNICATION & MEDIA TECHNOLOGIES (CMT)

The Department of Communication & Media Technologies (CMT) consists of permanent academic staff members who have a direct interest in computer graphics. Most of these staff members teach courses of undergraduates as well as postgraduate programmes at the UCSC. The Head of the Department during 2019 was Dr. G.D.S.P. Wimalaratne. More details are given in the website of UCSC (www.ucsc.cmb.ac.lk).

1.2.6.3 DEPARTMENT OF INFORMATION SYSTEMS ENGINEERING (ISE)

The Department of Information Systems Engineering (ISE) consists of permanent academic staff

members who have a direct interest in information engineering. Most of these staff members teach courses of undergraduates as well as postgraduate programmes at the UCSC. The Head of the Department during 2019 was Dr. (Mrs..) M.D.J.S. Goonetillake. More details are given in the website of UCSC (www.ucsc.cmb.ac.lk)

1.2.7 CENTRES

Advanced Digital Media Technology Centre (ADMTC)

The Advanced Digital Media Technology Centre (ADMTC) was established in order to implement the "Project for Human Resource Development in Information Technology through Capacity Building of UCSC" supported by the Japan International Cooperation Agency (JICA) from June 2002 to May 2005.

Following are the main activities carried out by ADMTC during 2019:

- Managing and maintaining the UCSC Auditorium
- Managing and maintaining the Digital Studio of UCSC
- Producing digital and printed materials of UCSC
- Maintaining UCSC Website
- Conducting courses on Graphics Design and Creativity Development and Advanced Multimedia Web Design and Development.
- Coordinating activities of the Web and News Committee of UCSC and preparing the UCSC Newsletter.
- Facilitating to host UCSC conference – ICTer 2019 (www.icter.org/conference)
- Publishing UCSC Journal – International Journal on Advances in ICT for Emerging Regions (ICTer 2019) – www.icter.org/journal

ADMTC has commenced (completed or ongoing) the Graphic Design and Creativity Development course in the year 2019 for five batches of 90 students and the Advanced Multimedia Web Design and Development for two batches of 42 students to disseminate the knowledge. The certificates was distributed and the awarding ceremony was published at http://ucsc.cmb.ac.lk/events/completion-short-course-graphics-design-creative-development/.

UCSC Auditorium managed and maintained by ADMTC was active throughout the year 2019 and their financial contribution to UCSC and ADMTC are as mentioned below. Further, the below mentioned table lists out the events sponsored by UCSC as well.

Event	Total Cost of the Event	Income from External Parties	UCSC Sponsored Amount
YOGO on 24th February 2019	272,000/-	272,000/-	N/A
"Scientia'18" Science Day of Ananda College, Colombo on 26th February 2019	80,000/-	80,000/-	N/A
Good Intern Programme by Government Medical Officers' Association (GMOA) on 13th and 14th July 2019	700,750/-	700,750/-	N/A
Brotherhood Day of Alethea International School on 17th October 2019	141,157/-	141,157/-	N/A
Xians Got Talent by 99X on 22nd October 2019	151,157/-	151,157/-	N/A
Members' Orientation Ceremony by Association of Accounting Technicians of Sri Lanka (AAT) on 24th November 2019	141,157/-	141,157/-	N/A

Events Sponsored by UCSC			
Undergraduate Inauguration on 17th January 2019	180,000/-	N/A	180,000/-
Symposium on Wildlife Trafficking by Wildlife Conservation Department on 15th March 2019	262,250/-	172,250/-	90,000/-
Postgraduate Inauguration on 22nd June 2019	180,000/-	N/A	180,000/-
BIT Convocation on 10th and 17th August 2019	210,000/-	120,000/-	90,000/-
IHRA Award Ceremony on 22nd August 2019	135,700/-	90,700/-	45,000/-
Oration and ICTer Conference from 2nd to 5th September 2019	630,000/-	315,000/-	315,000/-
UCSC Career Fair on 28th October 2019	105,400/-	60,400/-	45,000/-
Asian Universities Alliance from 22nd to 29th November 2019	1,227,100/-	N/A	1,227,100/-
9th Annual Sinhala Studies Symposium by Department of Sinhala on 4th December 2019	104,800/-	59,800/-	45,000/-
SLAAS on 8th,9th,10th,12th and 13th December 2019	986,307/-	558,807/-	427,500/-
Science of Docker and Kubernetes on 8th January 2019	90,000/-	N/A	90,000/-
South Asian Economic Students' meet up on 21st January 2019	90,000/-	N/A	90,000/-
Guest speech on Machine Learning & Deep Learning on 10th April 2019			
Lecture by Mr Suresh Surenthiran of Swaziland on 4th October 2019			
Invited Speech- Prof. Aruna Senevirathne 18th October 2019			
UCSC/Oracle Academy Session on 25th October 2019			
Enhancement sessions for UCSC undergraduates from 29th August 2019 to 18th December 2019	1,890,000/-	N/A	1,890,000/-
5 no. of health seminars during 2019 for UCSC staff in collaboration with University of Colombo	450,000/-	N/A	450,000/-

Award Ceremony Graphic Design and Creativity Development Course

Computing Services Centre (CSC)

The Computing Services Centre, which is the consultancy arm of the UCSC was established in 1990 to provide Consultancy Services to both public organizations as well as private institutes.

The activities undertaken by the CSC are in three folds.

- Carry out Short Term Training Courses
- Provide Software Development and Consultancy Services
- Coordinate outside parties to hire UCSC resources

Short Term Training Courses conducted by CSC

The UCSC conducts specialized, short-term training programmes in the most advanced and up to date topics that are in demand in the industry. These programmes are designed with the aim of enabling the participants to learn a particular programming language, a design methodology, new technologies or the use of specialized packages in small groups with a close supervision. These courses, which have been designed by the staff of UCSC, follow the industrial requirements and standards. Many of these courses are conducted over 7 to 10 days. Special programmes for individual groups of companies were also arranged on demand. Certificates issued at CSC could be verified at http://www.ucsc.lk/verify using the certificate numbers.

Consultancy Services conducted by CSC

CSC undertakes the following consultancy services both in the Public and Private sectors

- Tender Evaluation
- Systems Recommendation
- Software Project Consulting and Development
- Feasibility Studies
- Acceptance Testing for Computer Hardware & Software
- Planning and Conducting of Recruitment Testing

CSC also facilitates hiring UCSC resources to outside parties when such resources are not used for UCSC activities considering the market rates. All such requests are evaluated to protect the reputation of the University of Colombo before offering them and they are monitored to protect the resources.

External Degrees Centre (EDC)

The External Degree Centre (EDC) was established in order to manage the external and extension programmes of UCSC in order to provide effective and efficient service to the general public. Currently, EDC coordinates the Bachelor of Information Technology (BIT) as an external degree programme of the University of Colombo and the Foundation of Information Technology (FIT) as the extension programme to facilitate students who do not have a minimum requirement to register programme. The EDC was relocated at UCSC premises during 2019. The Assistant Registrar carries out the overall management of the Centre and the Coordinator facilitates the coordination between academic staff and related matters. There is a dedicated staff to carry out activities of the external degree Centre.

EDC Activities during 2019:

The registration of new BIT Students (more than 1600), Re-registration of current students (more than 3300), Manage Semester 1,3, and 5 Exams during June/July 2019 (more than 3000) in Colombo, Kandy, Galle and Jaffna, organizing the BIT Award Ceremony for Diploma in Information Technology (DIT) and Higher Diploma in Information Technology (more than 550), Conducting the convocation of BIT External Degree (more than 170), conducting the BIT Semester, 2,4, and 6 Exams during October/November (more than 2500 students) in Colombo, Kandy, Galle and Jaffna. EDC also carries out many activities related to the promotion of BIT degree programme.

Details of EC is published and maintained at http://ucsc.cmb.ac.lk/academic-programmes/edc/

E-Leaning Centre (eLC)

E-Learning Centre (eLC) is one of the six centers of the University of Colombo School Of Computing. Its main goal is to facilitate the digital transformation of the teaching-learning process by integrating e-learning practices. Although it is a service Centre of the UCSC to support undergraduate, postgraduate and external and extension degree programmes, it has become a national Centre during the last decade by providing services for both local and international organizations (www.e-learning.lk). eLC has a dedicated staff who conducts research and development work in e-Learning.

Online courses administered by eLC

- 30 online courses of BIT degree programme (http://vle.bit.lk)
- 218 online/blended learning courses of the internal undergraduate degree programmes of UCSC (http://ugvle.ucsc.cmb.ac.lk)
- 75 online courses of the postgraduate degree programmes of UCSC available in the http://pgvle.ucsc.cmb.ac.lk
- 11 online courses for the FIT certificate programme (http://fit.bit.lk/vle)
- 40 free-online courses for the general public (http://www.e-learning.lk/vle)

Activities carried out during 2019

- Supported conducting the short-term training programme on "Computing for Career Development" of CSC
- Conducted LMS Bootcamp: Moodle (LMS based learning content development course for South Eastern University) on 3rd & 4th of April 2019
- Organized a Google Workshop for Academic Staff of the University of Colombo 28th of June 2019 from 8.30AM to 01.00 PM
- Organized a Google Workshop for Administrative Staff of the University of Colombo 28th of June 2019 from 2.00 PM to 5.00 PM
- Conducted FIT Revision Workshop on 18th July 2019.
- Conducted FIT Revision Workshop on 24th July 2019.
- Conducted NWSDB (National Water Supply and Drainage Board) workshop on 02nd August 2019.
- Conducted the confirmation test of Management Assistants and Library Assistants for University of Colombo on 05th August 2019.
- Conducted FIT Practical Test on 07th & 08th August 2019.
- Facilitated online course development work of the NWSDB (National Water Supply and Drainage Board) on 09th August 2019.
- Organized FIT workshop for syllabus reviewing on 20th August 2019.
- Conducted FIT e-Test from 26th to 28th of August 2019.
- Conducted a Moodle LMS-based e-activity development workshop for NWSDB (National Water Supply and Drainage Board) on 06th September 2019.
- Conducted an LMS-based Online Course development workshop for Rajarata University from 16th to 19th September 2019.
- Conducted Articulate based online course content development workshop for NWSDB (National Water Supply and Drainage Board) on 20th September 2019
- Conducted a workshop for reviewing FIT syllabi on 03rd October 2019.
- Evaluated the progress of the online course development work of the NWSDB (National Water Supply and Drainage Board) on 18th October 2019.

BIT Award Ceremony 2018

Professional Development Centre (PDC)

The Professional Development Centre (PDC) is one of the centers at UCSC, established to keep a close liaison with the IT industry to improve the academic activities through industry-academia partnership. The mission of the Professional Development Center is to produce socially responsible professionals with entrepreneurial skills, leadership qualities, and integrity. The center facilitates training programs to improve the professional skills of both the academic staff and the undergraduates. The PDC invites the IT industry to conduct awareness programs such as current trends in the IT industry, industrial practices, career paths in various disciplines, and, thus, creating value addition to enhance overall graduate quality and employability.

Activities for the year 2019

- The final industry placement evaluations were carried out for the academic year 2018/2019.
- Student feedback was collected with respect to industry placements carried-out in 2018.
- A selection committee was appointed and facilitated the evaluation to select the best candidate for the award of "Best Performance in Industrial Placement – 2018."
- The PDC staff members visited the newly registered companies under the UCSC internship program.
- Undergraduate internship placements were handled, and a total of 245 students were placed in 71 IT companies and 9 UCSC Projects.
- Fifteen (15) different professionals were invited from the IT industry to conduct tech talks for the 3rd-year undergraduates.
- The PDC assisted the organizing committee of the UCSC career fair – 2019, in organizing the event.
- Industry placement monitoring visits were organized to monitor the progress of the interns and to discuss any issues on industry placement.
- Staff members participated in the "Quality engineering industry meetup with the academia" organized by Pearson Lanka.
- Several students/interns were nominated to participate in events organized by the industry (Tech Summit 2019 & Quality Quest 2019, Pearson Quality Quest 2019, Quality Engineering Professional - University Student Workshop, Pearson TechSummit 2019)

- An industrial visit to Cambio Labs was organized and around twenty-five (25) 4th-year students participated in the visit.
- several meetings were conducted with professionals of the IT industry to enhance the industry-academia partnership.
- Several students issues and inquiries were handled throughout the year.

Centre for Digital Forensics (CDF)

The Centre for Digital Forensics (CDF) was established in 2011 by modifying the ordinance of UCSC by a special announcement since UCSC was requested to support respective law and order institutes in the digital forensic activities. During the last 15 years, these authorities in the country have requested the UCSC to carry out investigations due to the absence of a proper mechanism in the country. With lots of difficulties, UCSC has been supporting these institutes. Key organizations, which are requesting services, are different Courts, Criminal Investigation Department and Terrorist Investigation Units.

Finding pieces of evidence in digital offensive activities is a sensitive as well as a difficult process, which requires research and development approach. In the past, several supporting tools have been developed by academic and academic support staff at UCSC to carry out these investigations and some of them have been published in International Conferences

UCSC received more than 600 requests from different legal organizations during the last two decades, but it was very difficult to provide the required support due to the complexity and lack of funding and infrastructure. With the help of the Korean Government, UCSC helped the Government to expand the capacity of Government Analysis Department and the Criminal Investigation Department to establish separate units for these operational tasks. Hence, CDF now focus as more on research and development in digital forensics.

In 2019 based on the experience Digital Forensics, UCSC has now developed a specialized masters program in computing forensics, Master of Cyber Security and Cyber crime investigation with the support of European Union funding. It offers postgraduate qualifications for staff members of NRENs and developing country universities in the domain of network security and digital forensics.

Income of CDF totally inadequates to cover these Expenses and it has directly affected the operation of the Centre.

CDF has been spent Rs. 1,844,001.35 as salaries and wages for the staff of the CDF, and Rs. 53,742.00 as recurrent cost.

CDF has been providing consultancy services for the Government Organizations, different Courts, Criminal Investigation Department as well as the Private Organizations, Through these consultancy programs CDF is excepted to provide better service in the field of Digital Forensics from the year 2020 by expanding its infrastructure facilities.

2. EDUCATION

2. EDUCATION

According to the corporate plan of UCSC, the major responsibility of the organization is to promote computing education according to the relevant standards under the University of Colombo. Hence, UCSC manages the computing education with respect to undergraduate programmes (internal), postgraduate programmes, and external or extension programmes. The three Boards of Studies (described in previous sections) are responsible for the operational processes of these educational programmes.

2.1 UNDERGRADUATE EDUCATION

Computing studies at the undergraduate level were first introduced back in 1967 as a part of the courses offered by the Faculty of Science, at the University of Colombo. UCSC, which is the computing faculty of the University of Colombo, still continues to offer courses at the Faculty of Science and 972 students of the Faculty of Science followed courses conducted by the UCSC. Degree programmes in Computing were started in 1990 at the University of Colombo under the Faculty of Science but after establishing UCSC, undergraduate degrees in Computing became the main responsibility of UCSC. In 2019, 300 students selected by the UGC were given the opportunity to follow the courses in Computer Science (CS) degree, Information System (IS) degree and Software Engineering (SE) degrees at UCSC.

2.1.1 INTERNAL UNDERGRADUATE DEGREE PROGRAMMES

UCSC currently offers five undergraduate degree programmes in Computer Science, Software Engineering and Information systems considering both **SLQF Level 5** and **SLQF Level 6** declared by the University Grants Commission. The curriculum of these degree programmes was designed and developed based on the IEEE/ACM international guidelines for computing degrees. UCSC has also established an academia-industry advisory board to obtain the feedback of the local industry to improve the relevance of all its computing degrees in order to maintain the **employability rate of UCSC graduates over 90%.** Those five degrees are depicted below with respect to SLQF levels.

Table: 2.1.1. - A: SLQF Levels of Undergraduate Programmes

Degree Programme	Duration (Academic Years)	SLQF Level
Bachelor of Science in Computer Science (BSc in CS)	3 Years	Level 5
Bachelor of Science **Honours** in Computer Science (BSc Hons. in CS)	4 Years	Level 6
Bachelor of Science **Honours** in Software Engineering (BSc Hons. in SE)	4 Years	Level 6
Bachelor of Science in Information Systems (BSc in IS)	3 Years	Level 5
Bachelor of Science **Honours** in Information Systems (BSc Hons. in IS)	4 Years	Level 6

The selection for the four-year degree programme is carried out based on the students' performances of the first two years. Students who earn more than 2.75 GPA are eligible to apply for the honours degree but the current intake size for CS stream is 40 and IS stream is 20. CS students were given the opportunity to select BSc Hons in CS or BSc Hons in SE. Results of the first two years of examination were released before the commencement of the first semester of the third year of studies. The revised curriculum is now active for all degree programmes. A/L students who have at least a Credit Pass (C) in Combined Mathematics or Physics or Higher Mathematics AND at least a Pass (S) in TWO other subjects from Combined Mathematics, Higher Mathematics, Physics, Chemistry, Information & Communication Technology or Mathematics are eligible to apply for CS stream at UCSC. A selection

test (aptitude test) was held for IS degree programme in April 2019 **where 1537 applicants applied and 314 were qualified** to apply for IS stream. The actual number of students registered for degree programmes are given below.

2.1.2 ACADEMIC YEAR – 2018/2019 AND STUDENT ENROLMENT

Table 2.1.2. - A: Enrolment - Distribution of UCSC Intake – 2019

Steam of Study	Intake Size	Number enrolled	Male	Female
CS Stream	200	200 (100%)	134 (67%)	66 (33%)
IS Stream	100	97 (97%)	49 (51%)	48 (49%)
Total	**300**	**297 (99%)**	**183 (61)**	**114 (39%)**

An academic year usually consists of two semesters where each semester comprises of 15 weeks. A mid-semester break is one week and there will be one week of study leave after the semester before commencing the examination. The calendar for the academic year 2019 is given below. The inauguration for the new undergraduate students selected for UCSC was held on 17th January 2019 and followed by the orientation programme from 21st January 2019 to 1st February 2019 before the commencement of the academic year.
https://ucsc.cmb.ac.lk/events/inauguration-ceremony-undergraduate-academic-year-20172018/

Academic Time Table for the Year 2019

DURATION		WEEKS	14/15	15/16	16/17	17/18
From	To					
31/12/2018	03/02/2019	5	New Year Vacation, Paper Marking and 1st Year Orientation Programme			
04/02/2019	07/04/2019	9	4S1	3S1	2S1	1S1
08/04/2019	21/05/2019	6	Sinhala & Hindu New Year Vacation			
22/05/2019	07/07/2019	6	4S1	3S1	2S1	1S1
08/07/2019	14/07/2019	1	Study Leave			
15/07/2019	04/08/2019	3	First Semester Exams			
05/08/2019	25/08/2019	3	Vacation			
26/08/2019	01/09/2019	1	4S2	3S2	2S2	1S2
02/09/2019	08/09/2019	1	Mid Semester Break/ ICTer Conference			
09/09/2019	13/10/2019	5	Trade Union Action			
14/10/2019	22/12/2019	10	4S2	3S2	2S2	1S2
23/12/2019	29/12/2019	1	Christmas Vacation			
30/12/2019	26/01/2020	4	4S2	3S2	2S2	1S2

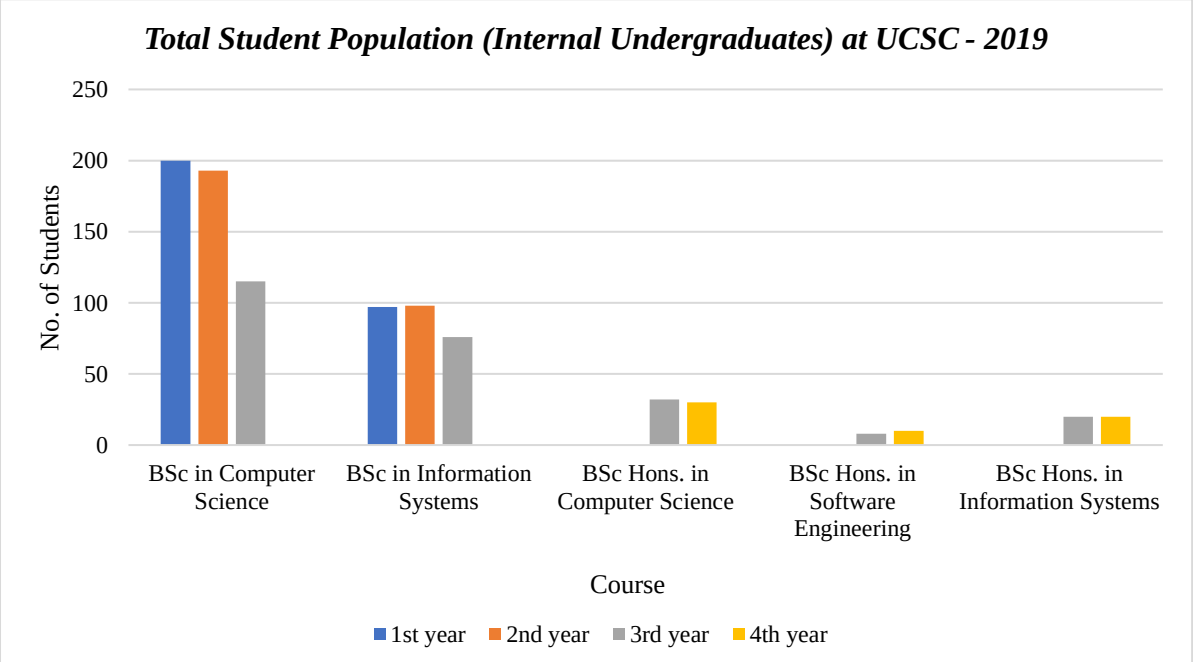
27/01/2020	02/02/2020	1	Study Leave
03/02/2020	16/02/2020	2	Second Semester Exams
17/02/2020	01/03/2020	2	Project Evaluations (Including vivas')
02/03/2020	22/03/2020	3	Vacation, Paper marking, Special Selection and 1st Year Orientation Programme
23/03/2020	-	-	Commencement of the New Academic year

** No Academic activities from 09/09/2019 to 13/10/2019 due to trade union actions of non-academic staff.*

UCSC faces several administrative problems when synchronizing teaching courses of both the Faculty of Science and UCSC. Inadequate lecture halls deeply affected managing teaching, practical and tutoring activities of undergraduate programmes.

Table 2.1.2. - B: Enrolment of Internal Degree Programmes – 2019
Total Student Population (Internal Undergraduates) at UCSC

Course	Intake 2017/18	1st Year Students	2nd Year Students	3rd Year Students	4th Year Students	Total
BSc in Computer Science	200	200	193	115		508
BSc in Information Systems	100	97	98	76		271
BSc Hons. in Computer Science				32	30	62
BSc Hons. in Software Engineering				8	10	18
BSc Hons. in Information Systems				20	20	40
UCSC Undergraduates (Total)	**300**	**297**	**291**	**251**	**60**	**899**
Faculty of Science - BSc (General)		503	384	46	39	**972**



All courses at UCSC are conducted only in the Medium of English.

2.1.3 STUDENT PERFORMANCES AT EXAMINATION

Table 2.1.3. - A: Study Programme: CS Stream

Academic Year	Registered Students	No of Students Sat for Exam	No. of Students – GPA>=2.00	No. of Students 2.0>GPA>=1.5	GPA<1.5	Pass Rate % [No. students >=1.5 / No. of students Sat Exams
2017/2018 (1st Year)	200	200	180	12	6	96%
2016/2017 (2nd Year)	193	193	182	6	5	97.4%
2015/2016 (3rd Year General)	120	122	120	2	-	100%
2015/2016 (3rd Year Special)	40	40	-	-	-	100%
2014/2015 (4th Year)	40	40	39	-	-	97.5%

Table 2.1.3. - B: Study Programme: IS Stream

Academic Year	Registered Students	No of Students Sat for Exam	No. of Students – GPA>=2.00	No. of Students 2.0>GPA>=1.5	GPA<1.5	Pass Rate [No. students >=1.5/No. of students Sat Exams
2017/2018 (1st Year)	97	92	84	4	4	95.65%
2016/2017 (2nd Year)	98	97	95	1	1	98.97%
2015/2016 (3rd Year General)	76	76	71	3	1	97.36%
2015/2016 (3rd Year Special)	20	20	-	-	-	100%
2014/2015 (4th Year)	20	20	20	-	-	100%

Students are supposed to complete both continuous assessments and semester exams in order to get through respective academic courses based on the curriculum of degree programmes. The blended learning is practiced in all degree programmes and the Virtual Learning Environment (VLE) for the degree programme http://ugvle.ucsc.cmb.ac.lk

2.1.4 INDUSTRIAL PLACEMENT

In order to improve the relevance of the degree programme with respect to national and industrial requirements, the industrial placement has been introduced as a compulsory requirement for all the students of UCSC. The Professional Development Centre (PDC) was set to address these requirements and also to keep a close liaison with the IT industry and for the improvement of the academic programmes with the help of the industry. The second semester of the third year of studies is allocated for industrial placements. UCSC has also established an academia-industry advisory board to obtain the feedback of the local industry to improve the relevance of all its computing degrees in order to maintain the employability rate of UCSC graduates over 90%. The statistics of 2019 placement is given below.

Table 2.1.4. - A: Distribution of Industrial Placement with respect to organizations

Type of Organizations – Placement	Number of Students Placed	Number of Organization
Major IT companies	154	37
Small IT companies	51	30
Government Institutes	17	4
Research and consultancy projects at UCSC	23	9
Total	**245**	**80**

PDC also organized a series of guest lectures for companies to take part voluntarily. Through these lectures, it was expected to make the undergraduates aware of the role that they have to play as professionals after being graduated. Apart from the industrial training, this year PDC arranged the visits with respect to the companies that offered internship opportunities for the students, organised Tech-talk sessions, mock interviews, professional skills development, while providing the passed out students with employment opportunities.

2.1.5 UNDERGRADUATE STUDENT WELFARE

2.1.5.1 UNDERGRADUATE STUDENT WELFARE

(a) Hostel Facilities

In the year 2019, the UCSC provided the neediest 1st year as well as final year undergraduates with residential facilities in keeping with the UCSC policy and according to the progress of the University Grants Commission (UGC). Since there are no dedicated hostel facilities, UCSC rented two private properties for Boys' Hostel in Battaramulla (which could accommodate around 35 students) and Girls' Hostel in Kohuwala (which could accommodate 36 students). The Warden and Sub-Wardens who are staff members of UCSC, were appointed to monitor the management of hostels and the Academic Publication and Student Welfare (APW) division manages both hostels under the supervision of the Deputy Registrar. The detailed statistics of 2019 are given in the table below.

Boys Hostel:

Hostel Address: 474/B, Kaduwela Road, Deniyawatta, Battaramulla
Academic Warden: Dr. K.L. Jayarathne
Academic Sub-Warden: Dr. M.I.E. Wickramasinghe
Capacity: 35

Girls Hostel:

Hostel Address: 76/16A, Sunethradevi Mawatha, Kohuwala, Nugegoda
Academic Warden: Dr. (Mrs.) T.A. Weerasinghe
Academic Sub-Warden: Ms M.G.A. Srimalee
Capacity: 36

Table 2.1.5.1. – A: Hostel Facilities Requested and Granted in 2019

Hostel	Applied for hostel facilities	1st Year students		Final year (3rd and 4th) students			Total
		CS Stream	IS Stream	CS Stream	IS Stream	SE Stream	
Boys Hostel	68	28	7				35
Girls Hostel	54	21	15				36
Total	**122**	**49**	**22**	**-**	**-**	**-**	**71**

Table 2.1.5.1. - B: Funds spent on Hostel facilities

Hostel	Capacity	Rent for 12 Months	Utility Cost	Management Cost	Registered Students	Cost per student Rs.
Boys' Hostel	35	1,348,200.00	Other: 150,168.75 Water: 78,363.40 Electricity: 36,799.60	Warden Allowance =500*12 = 6,000.00 Sub Warden Allowance = 750*12 = 9,000.00 Caretaker Salary: 506,093.01	35	**60,989**
Girls' Hostel	36	720,000.00	Other: 39,765.00 Water: 73,972.11 Electricity: 84,555.70 Telephone: 4,750.90	Warden Allowance = 500*12 = 6,000.00 Sub Warden Allowance = 750*12 =9,000.00 Caretaker Salary: 383,320.00	36	**36,705**
Total					**71**	**48,676**

(b) Canteen facilities

UCSC has to provide its students with canteen facilities since the canteens of other faculties are congested during the lunch hours and not in the vicinity of UCSC premises. The new canteen which was opened in 2015 faced several operational problems due to the unavailability of a kitchen to prepare foods. However, the canteen was running under the temporary arrangement and a permanent kitchen for the canteen will be given in the future.

UCSC student canteen is usually opened at 7.00 am and the service is available until 6.00 pm during the academic semesters. The management of the canteen is monitored by a canteen committee which comprises senior academics, administrative staff members and student representatives. The committee meets at regular intervals to discuss as well as take actions to improve the canteen service of UCSC.

Mr. S. Amarasinghe was selected as the Canteen Contractor for the student canteen for a period of one year under the government procurement procedure. UCSC provides the electricity, water, and utilities required to operate the kitchen free of charge. The owner of the canteen is supposed to provide their service according to the agreement. During 2019, UCSC has spent around **Rs. 23,055.00** to purchase materials required for the student canteen. According to internal monitoring, UCSC spends around Rs. 15,000 per month for electricity of the canteen.

Since the student canteen is congested during regular hours of operations, a small staff canteen is maintained at the rooftop of the building. Only staff and visitors are allowed to use this cafeteria and the lunch area is also located at the rooftop of the building complex.

(c) Counseling for Undergraduates

The student counseling is a service provided free of charge by the UCSC for all undergraduate students. Our experience over the past decades has shown that the level of stress resulting from various incidents of life such as family matters, relationships, learning, and career decisions, is increasing. The UCSC Counselling service focuses on providing a conducive environment for students who seek help at the early stage of their particular psychosocial problem. Our Counsellors are qualified to give a listening ear to the students and to assist them to help themselves in dealing with issues that they are facing. However, the Counsellors are also trained to make a decision whether a particular problem requires further help, and so to refer such a student to a Professional Counsellor who visits the UCSC on an hour basis. A separate room has been allocated for student counseling since the year 2016 and services are offered to the persons who need help.

It is important to note that all information that students communicate with student counselors will be kept confidential and will only be communicated to the Professional Counsellor if the student agrees. Similarly, the Professional Counsellor will only communicate back to the UCSC if there is any action required by the UCSC with respect to any impact on the issue of the study program that the student is engaged in. If the Professional Counsellor determines that further help is needed, he/she will refer the student, with his/her consent, to a Clinical Psychologist or Psychiatrist.

The Services of two Student Counsellors, namely Dr. (Mrs) T.A. Weerasinghe and Mr. G.P. Seneviratne were provided for all students in 2019. The service of a Professional Counsellor Mrs. Nilani Thushanthika a for the duration of 2 -3 hrs a day to facilitate the students who required counseling. UCSC paid for the service of Professional Student Counsellors on an hourly basis. In general, around 30-40 students took regular consultations from these Counsellors and during a certain period such as the examination period.

(d) Financial Assistance for Undergraduate Students

Financial assistance was given to students in the form of Mahapola Scholarships, Bursaries, Industry Scholarships, and student welfare and distress fund.

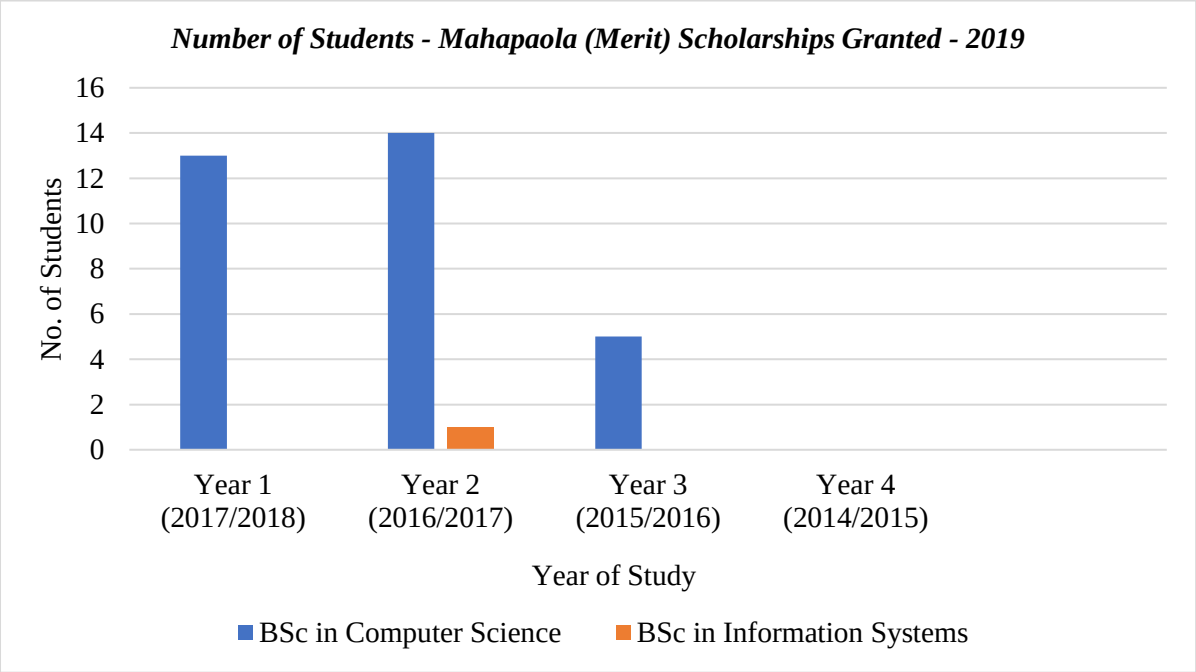
Mahapola Scholarships

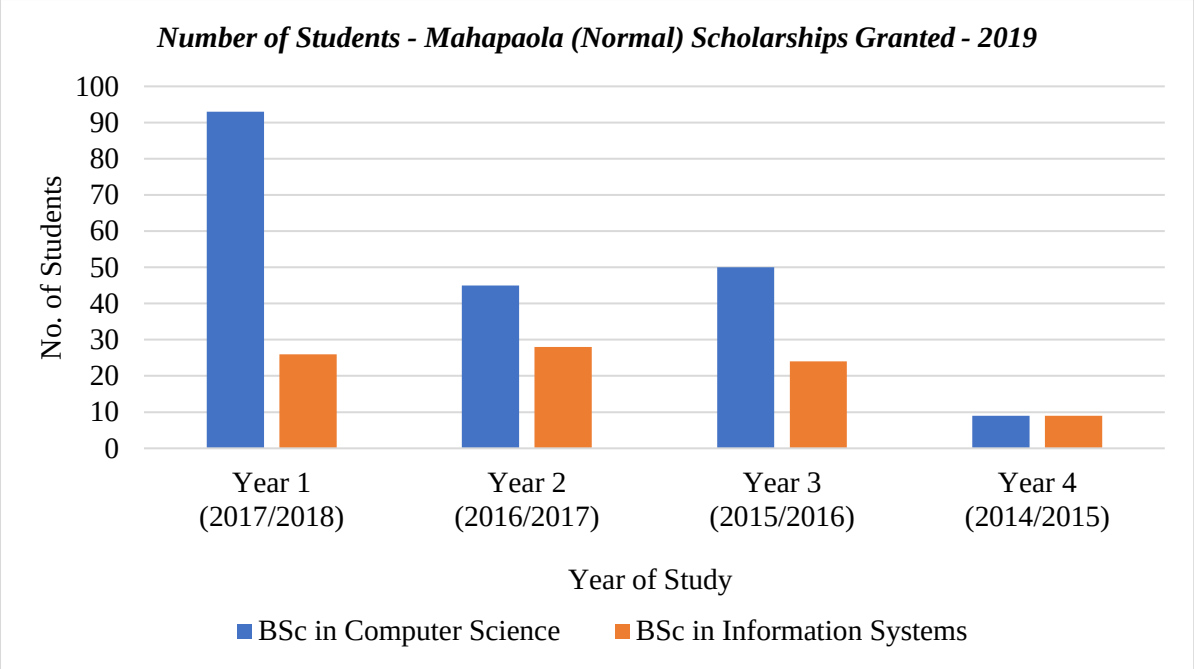
The Mahapola scholarships sponsored by the Mahapola Trust Fund of the Ministry of Commerce & Consumer Affairs were awarded to 317 students during the year 2019. The value of Merit and Ordinary

scholarships were Rs. 5,050 and 5,000 respectively (Computer Science [CS] + Information System [IS]).

Table 2.1.5.1. – C: Number of students - Mahapola Scholarship Granted – 2019

Year of Intake	Year of Study	Merit scholarship (CS+IS)	Normal scholarship (CS+IS)	Total
2017/2018	Year 1	13(13+00)	119(93+26)	132 (106+26)
2016/2017	Year 2	15(14+01)	73(45+28)	88 (59+29)
2015/2016	Year 3	05(05+00)	74(50+24)	79 (55+24)
2014/2015	Year 4	00(00+00)	18(09+09)	18 (09+09)
All	**Total**	**33**	**284**	**317**



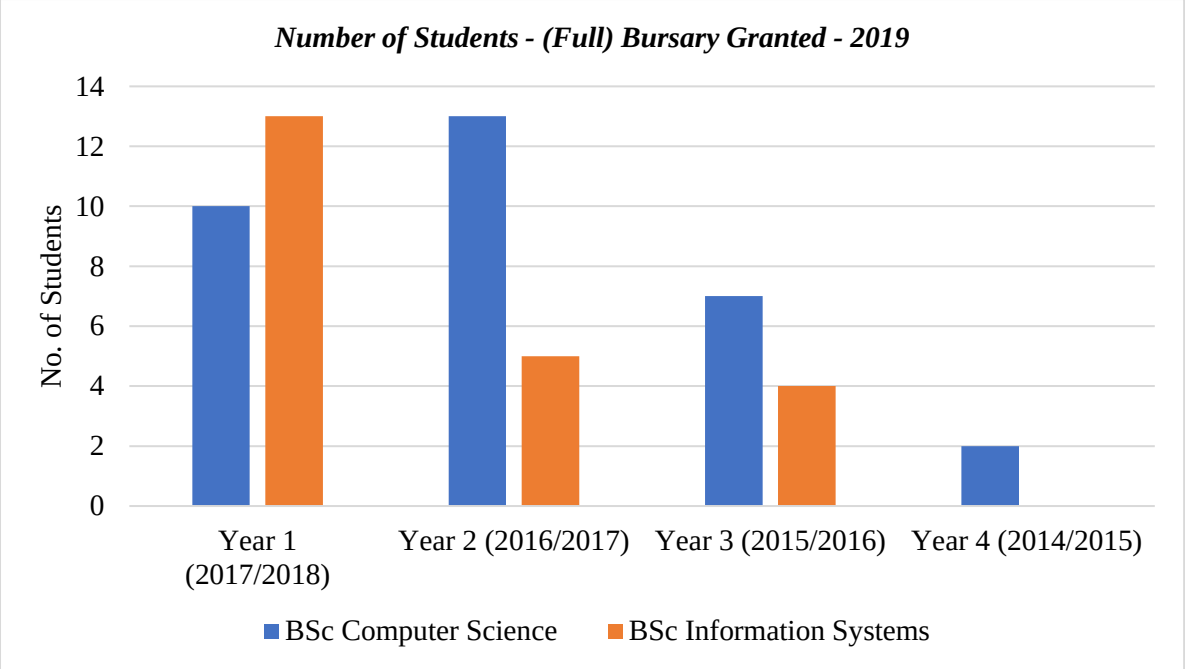


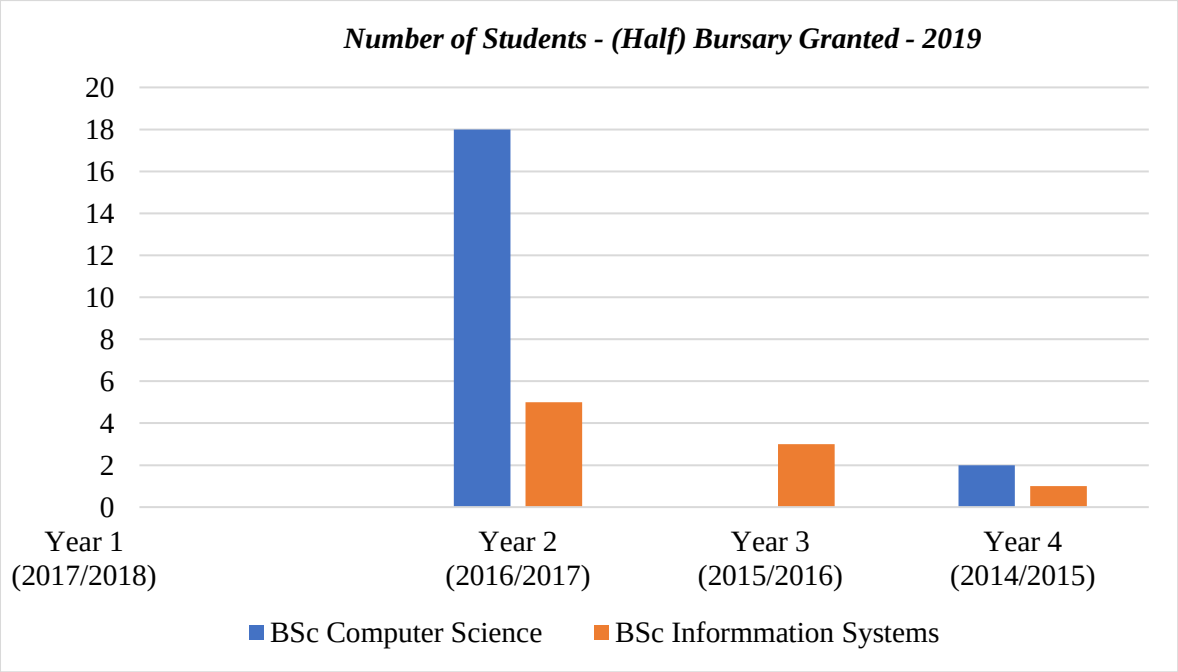
Bursaries

Bursaries were awarded in accordance with UGC Circulars, which governs the selection of students for Bursaries. 49 students were awarded Bursaries during 2019. The breakdown of the Bursary recipients for the year 2019 is shown in the following table (Computer Science [CS] + Information System [IS]).

Table 2.1.5.1. – D: Number of students -Bursary Granted – 2019

Year of Intake	Year of Study	Full **B**ursary (Rs. 4000) **(CS+IS)**	Half Bursary (Rs. 3900) **(CS+IS)**	Total
2017/2019	Year 1	23(10+13)	00(00+00)	23 (10+13)
2016/2017	Year 2	18(13+05)	05(05+00)	23 (18+05)
2015/2016	Year 3	11(07+04)	03(00+03)	14 (07+07)
2014/2015	Year 4	02(02+00)	03(02+01)	05 (04+01)
All	**Total**	**28**	**21**	**49**





Industry Scholarships

Private organizations are invited to sponsor scholarships for needy students every year. **IFS R&D Ltd. sponsored 8 scholarships** at Rs. 5000/= per month for a period of 12 months. The Student Counsellor and the Head of the Department directly involved in selecting these students after interviewing them

UCSC Student Distress and Welfare Allocation

A few years ago, UCSC academic staff monitored the requirements of the students in order to support students who were suffering from financial difficulties and unexpected personal problems such as sudden loss of parents, health problems etc. Hence, the academic staff decided to allocate 2% of the

income of master's and external degree programmes to utilize them for student distress and welfare activities. In 2019, the following activities were carried out utilizing funds available in this allocation.

In 2019, 28 students were offered scholarships from the Student Welfare and Distress Fund. Among them, there were 09 scholarships at Rs. 5,000/- and 19 scholarships at Rs. 3,000/- for a period of 12 months. Hence, **over 2 million** from **UCSC generated income** was spent on special scholarships for students who had financial difficulties.

Table 2.1.5.1. – E: Special Financial Supports 2019

Utilization Category	Event	No. of students	Paid Amount (Rs.)
Allowance for students representing UCSC at International Event	The HackZurich competition in Zurich, Switzerland	01	Rs. 15,000

2.1.6 UCSC STUDENT UNION

According to the progress of the Sub–Paras 25 and 26 of the Ordinance, University of Colombo School of Computing No. 01 of 2002, of the Student Union election was held for the year 2019 and following members were elected for the Student Union.

Name of the Student	Reg. Number	Office Bearer
P.K. Sirisena	2016/CS/138	President
H.M.N. Tennakoon	2017/IS/084	Vice-President
W.C.D. Mendis	2017/CS/108	Secretary
B. Kiruthiharan	2017/CS/086	Committee Member
K.H. Guruge	2017/CS/052	Junior Treasurer
A.O.K. Mendis	2017/IS/052	Committee Member
D.N. Devapriya	2017/IS/021	Committee Member
M.F.M. Faiz	2017/CS/037	Committee Member
D.C.H. Muthukumarage	2017/IS/056	Editor
B.P. Alahendra	2018/CS/010	Committee Member
R.R.C.S. Medawela	2018/CS/103	Committee Member
S.N. Liyanaarachchi	2018/IS/045	Committee Member
H. Harukshan	2018/IS/028	Committee Member

Many activities of students are coordinated by the Student Union, although there are several student clubs and societies. They have also collected funds from alumni members, industry and other sponsors and also carried out activities to generate funds. Depending on the recurrent expenditure allocation, UCSC also partially sponsors all these major activities of undergraduates using both government grants and generated income from master's and external degree programmes.

2.1.7 STUDENT ACTIVITIES

Student activities are carried out through the Student Union of UCSC mainly to promote cultural and recreation activities. The relevant details are stated below.

Table 2.1.7.: A: Timeline of Key Student Activities – 2019

Event	Date
Annual Pirith ceremony	18th January 2019
CEST LA VIE 2019 - Going Down Event (350 Students)	9th February 2019
Annual General Meeting of IEEE Computer Society of UCSC (100 Students)	8th February 2019
Annual General Meeting of UCSC ISACA Student Group (100 Students)	9th February 2019
Girl's Talk February Meetup organized by Women Techmakers - Sri Lanka in collaboration with IEEE WIE Student Branch Affinity Group of UCSC (50 Students)	9th February 2019
Annual General Meeting of UCSC IEEE Student Branch (100 Students)	1st March 2019
Annual General Meeting of UCSC IEEE WIE Student Branch Affinity Group (100 Students)	1st March 2019
Hackaholics 3.0 Pre-hack (60 Students)	16th March 2019
Annual General Meeting of the ACM Student Chapter of UCSC (100 Students)	20th March 2019
UCSC CRICKET ENCOUNTER 2K19 (150 Students)	20th March 2019
Hackaholics 3.0 (100 Students)	23rd March 2019
Talent show for 1st years (400 Students)	27th March 2019
IEEE student branch hackathon Organizing committee meeting	10th June 2019
E-club session for 1st years regarding Arduino basics	13th June 2019
Buddhabhiwandana 2019	19th June 2019
Career Guidance and Awareness session was organized by the UCSC ISACA Student Group	20th June 2019
Annual general meeting of Computer Society - University of Colombo	24th June 2019
Annual General Meeting of PAHASARA පැහැසර - UCSC STUDENTS' GROUP	27th June 2019
IEEE workshop in University of Moratuwa	27th June 2019
Introduction to Computer Society for 1st years	1st July 2019
The 1st workshop related to Game Rush 2019, the 24-houre game development Hackathon organized by IEEE Student Branch of the University of Colombo School of Computing	6th July 2019
UCSC ගම්මැද්දව - 2019	16th August 2019
The 2nd workshop related to Game Rush 2019, the 24-hour game development Hackathon organized by IEEE Student Branch of the University of Colombo School of Computing	31st August 2019

Pre-Hacktoberfest 1.0 - Workshop	17th October 2019
iHack 5.0 which was organized for the fifth consecutive year by the UCSC ISACA Student Group was a 24-hour software development competition	26th and 27th October 2019
Hacktoberfest 2019 in UCSC is a day of celebration of open source contributions organized by the UCSC Mozilla Club	26th October 2019
UCSC Career Fair 2019	28th October 2019
"Road to success with WIE", the IEEE WIE International Leadership Summit (ILS) awareness session, organized by IEEE WIE Student Branch Affinity Group of UCSC	31st October 2019
IntelliHack 2019, the first-ever machine learning hackathon in Sri Lanka, organized by the IEEE Computer Society Student Branch Chapter of UCSC	9th and 10th November 2019
GameRush is a 24-hour inter-university gaming hackathon organized by the IEEE Student Branch of University of Colombo School of Computing	30th November and 1st December 2019
Vaani Vizha 2019	6th December 2019

Details of these events are available at the http://ucsc.cmb.ac.lk/events/ and they are announced using the public calendar of UCSC at http://ucsc.cmb.ac.lk/ucsc-calendar/.

2.1.8 STUDENT ACHIEVEMENTS

2.1.8.1 EXTRACURRICULAR

Students are encouraged to participate in many extracurricular activities to enhance their knowledge, skills, attitude and mindset. At the same time, such participation provides a better external reputation for the UCSC and its students. Following list provides the details of the achievements in 2019

No	Competition	Achievement
01.	DigiEduHack - Overnight Hackathon Organized by Open University of Sri Lanka	Winners
02.	SLIIT Codefest Overnight Hackathon - Overnight Hackathon Organized by SLIIT.	Winners
03.	Code with WIE	Best Creative Idea
04.	Hackaholics 3.0	Winners
05.	IEEE Extreme	4th place in Sri Lanka
06.	Google Summer of Code 5 UCSC undergraduates completed the summer of code 2019 successfully	5 students

07.	RB GLOBAL CHALLENGE Organized by Reckitt Benckiser Group	1st runners up
08.	Shecoderess 3.0 Coding competition organized by WIE of Uva Wellassa University	1st runners up and 2nd runners up
09.	Pre-Hacktoberfest	Winners
10.	SLIIT Codefest - Capture the flag Overnight Hackathon Organized by SLIIT	2nd runners up
11	Cyber Security Quiz	Runners Up
12	National Best Quality ICT Awards (NBQSA) 2018 by British Computer Society, Lanka Section	Silver medel

2.1.8.2 STUDENT ACHIEVEMENTS - SPORTS

UCSC students are encouraged to participate in sports activities organised by the Department of Physical Education. Following are the key activities and achievements of 2019.

A. W. K. B. Gunathilaka	UoC Colours - Basball
C. B. Ekanayake	UoC Colours - Basketball (Men)
D. M. Samarasinghe	UoC Colours - Basketball (Men)
D. C. H. Muthukumarage	UoC Colours - Basketball (Men)
D. R. Kodagoda	UoC Colours - Carrom (Men)
M. L. A. S. Yapa	UoC Colours - Carrom (Men)
D. A. C. Madusanka	UoC Colours - Carrom (Men)
J. M. S. K. Jayawardane	UoC Colours - Carrom (Men)
M. H. U. Rathnapala	UoC Colours - Carrom (Women)
L. C. S. De Silva	UoC Colours - Chess (Women)
B. H. R. Cooray	UoC Colours - Elle (Men)
W. M. D. Shashimina	UoC Colours - Elle (Men)
W. A. R. Prasad	UoC Colours - Elle (Men)
W. C. D. Mendis	UoC Colours - Football
E. B. P. Perera	UoC Colours - Football
A. R. R. M. Madhahi	UoC Colours - Football

M. H. Jawahir	UoC Colours - Football
R. Aksshar	UoC Colours - Hockey (Men)
D. M. C. Ponnamperuma	UoC Colours - Hockey (Men)l
M. M. Y. S. Y. Thilakasiri	UoC Colours - Hockey (Men)
D. N. Perera	UoC Colours - Hockey (Women)
H. M. Hettigoda	UoC Colours - Rowing (Men)
P. K. K. Dias	UoC Colours - Rowing (Men)
T. N. S. Thammita	UoC Colours - Rugby
G. H. S. Chandimal	UoC Colours - Rugby
D. N. S. P. Deraniyagala	UoC Colours - Rugby
S. I. N. Fernando	UoC Colours - Rugby
C. L. Biyanwila	UoC Colours - Swimming (Men)
U. U. Kumarasinghe	UoC Colours - Table Tennis (Men)
W. R. D. Fernando	UoC Colours - Table Tennis (Men)
O. A. Amarasiriwardena	UoC Colours - Table Tennis (Women)
W. M. U. Fernando	UoC Colours - Taekwondo(Women)
H. S. H. Perera	UoC Colours - Taekwondo(Women)
A. H. D. T. S. De Silva	UoC Colours - Tennis (Men)
M. H. M. Hisan	UoC Colours - Tennis (Men)
P. D. R. Thathsaranie	UoC Colours - Tennis (Women)
N. Sathyamoorthy	UoC Colours - Tennis (Women)
L. C. S. De Silva	UoC Colours - Tennis (Women)
T. Ekanayake	UoC Colours - Track & Field (Women)
D. T. Athukorala	UoC Colours - Volleyball (Men)
Charith Biyanwila	SLUG 2019 – Swimming – 2nd Runner Up
Tamasha Seneviratne	SLUG 2019 – Badminton – 1st Runner Up
Sandali Perera	SLUG 2019 – Taekwondo – Runner Up
Michelle Fernando	SLUG 2019 Taekwondo – Runner Up
Dumindu Muthukumarage	SLUG 2019 – Basketball – Quarter Finalist

2.1.9 GRADUATION 2019

The convocation or the graduation ceremony was held on 24th July 2019 for 237 students from 5-degree programmes in Computer Science, Information Systems and Software Engineering streams. Students of the BSc in Information Systems and BSc Hons. in Information Systems degree programmes are analysed with respect to their A/L study stream (Tables 2.1.09 B and 2.1.09 C).

Table 2.1.9. – A: Final Academic Performance of UCSC Graduates – 2019

Programme of Study	Main/ Repeat	No. of students Sat for the Final Exam		Total no. of students Graduated											
				First Class		Second Upper		Second Lower		Pass		Total		Pass Rate %	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
B.Sc. in Computer Science (A/Y 2014/2015)	Main	88	30					9	7	73	22	82	29	93	97
B.Sc. in Information Systems (A/Y 2014/2015)	Main	35	32		1	2	1	2	8	24	22	28	32	80	100
B.Sc. (Hons) in Computer Science (A/Y 2013/2014)	Main	19	11	10	6	7	5	1				18	11	95	100
B.Sc. (Hons) in Information Systems (A/Y 2013/2014)	Main	9	10	8	8	1	2					9	10	100	100
B.Sc. (Hons) in Software Engineering (A/Y 2013/2014)	Main	6	4		2	4	2	2				6	4	100	100
B.Sc. in Computer Science (A/Y 2012/2013)	Repeat	7								2		2		29	
B.Sc. in Computer Science (A/Y 2013/2014)	Repeat	3	2							2	2	2	2	67	100
B.Sc. in Information Systems (A/Y 2011/2012)	Repeat	3	1							1	1	1	1	33	100

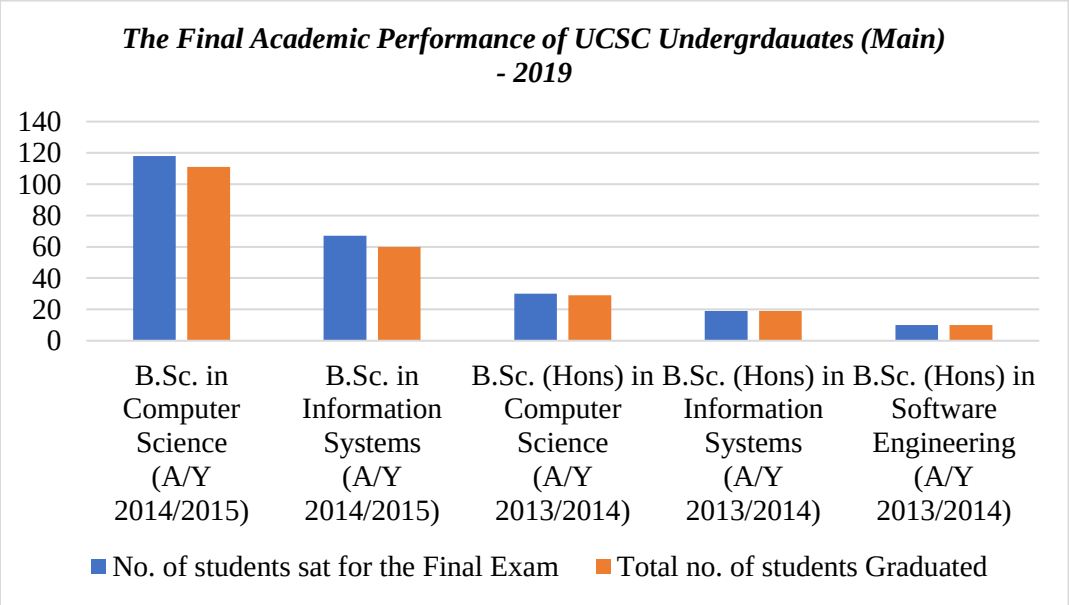


Table 2.1.9. – B: Performance of BSc in IS Graduates with A/L study streams

Class		First			Second Upper			Second Lower			Pass			Total
Gender		M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot	
Stream	M					1	1	2	3	5	14	5	19	25
	B				1		1		1	1	2	4	6	8
	C		1	1	1		1		4	4	8	12	20	26
	A										1	2	3	3
Total		2	1	1	2	1	3	3	8	10	25	23	48	62

M – Mathematics, B – Biology, C- Commerce, A – Arts

Table 2.1.9. – C: Performance of BSc (Hons) in IS Graduates with A/L study streams

Class		First			Second Upper			Second Lower			Pass			Total
Gender		M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot	
Stream	M	8	7	15	1	1	2							17
	B					1	1							1
	C		1	1										1
	A													
Total		8	8	16	1	2	3	0	0	0	0	0	0	19

M – Mathematics, B – Biology, C- Commerce, A – Arts

2.1.10 UNDERGRADUATE AWARDS

Several convocation awards are declared for all degree programmes at UCSC. There is a pre-defined criterion for these awards and all selections are approved by the Senate of the University of Colombo. The following tables describe the awards given at the convocation was held on 24th July 2019 at BMICH. Prof. V.K. Samaranayake Memorial Medal, which is open for all the study streams at UCSC was given to Mr. S.S. Withanage. Also, Mr. S.S. Withanage won the student of the year award, which belongs to one category of Open Awards and is open for all the faculties of the University of Colombo. The following tables provide details of awards in the stream of Computer Science, Information Systems and Software Engineering awarded at the convocation held in July 2019.

Table 2.1.10. – A: Convocation Awards for Information Systems Degree Programme – 2019

Name of the Award	Name of the Awardee
Zebra Technologies Academic Excellence Award for the Best Performance in three year degree – 2018	J.N.F. Arafa
IFS Academic Excellence Award for the Best Performance in four year degree – 2018	M.S. Ratnadiwakara
Sampath Bank Award for the Best Final Year Project – 2018	M.T. De Silva

Table 2.1.10. – B: Convocation Awards for Computer Science Degree Programme – 2019

Name of the Award	Name of the Awardee
Virtusa Academic Excellence Award for the Best Performance in three year degree - 2018	D.H.L.R. Ariyasinghe
Professor Mohan Munasinghe Award for Computer Science – 2018	D.T. Fernando
ICTA Award for the Best Computer Science Final Year Project – 2018	B.W. Kothalawala

Name of the Award	Name of the Awardee
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2018	H.G.N.C. Somasiri
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2017	A.S. Arukgoda D.J.N. Costa

Table 2.1.10. – C: Convocation Awards for Software Engineering Degree Programme – 2019

Name of the Award	Name of the Awardee
IFS Award for the Best Performance in B.Sc. (Hons) in Software Engineering – 2018	A.A.T.G. Abeysinghe
Soma Goonetillake Memorial Award for the Best Final Year Project in B.Sc. (Hons) in Software Engineering – 2018	S.D.S.H. Dissanayake S.D.M.H. Siyambalapitiya R.M.R. Wanigasekara
Wimala Jayaratne Memorial Award for the Best Performance in Software Engineering in B.Sc. (Hons) in Software Engineering - 2018	A.A.T.G. Abeysinghe

Table 2.1.10. – D: Convocation Award for all streams – 2019

Name of the Award	Name of the Awardee
Prof. V.K. Samaranayake Memorial Medal for the Most Outstanding Graduate of the UCSC - 2018	S.S. Withanage

Table 2.1.10. – E: Convocation Award for all faculties (Open Awards) – 2019

Name of the Award	Name of the Awardee
Student of the Year – 2018	S.S. Withanage

Table 2.1.10. – F: Special Awards - 2019

Name of the Award	Project Title	Name of the Awardees
Cyber Security Quiz – Runners Up	Cyber Security Quiz organized by CERT, ICTA & the Ministry of Telecommunication, Digital Infrastructure and Foreign employment	A Group of Fourth year undergraduates
Silver medel for the National Best Quality Software Awards (NBQSA)	National Best Quality ICT Awards (NBQSA) 2018 by British Computer Society, Lanka Section	A group of IS-4th year undergraduates
Several Awards	SHECODERees 3.0 and Codefest 2019 by Sri Lanka Institute of Information Technology	UCSC undergraduates

General Convocation 2018

2.1.11 EMPLOYABILITY

It was observed that most of the students were recruited by reputed firms in the IT industry on lucrative contracts, even during their 3rd-year industrial placement. The employability details of graduates were collected at the time of convocation using a small questionnaire. Following table provides the details of employability of UCSC graduates with respect to each study stream. The employability rate of **all study programmes at UCSC is over 90%.**

Table 2.1.11. – A: Employability of UCSC undergraduates - 2019

Programme	Number Graduated	Number Responded	Employed	Waiting for Jobs / Not interested
Bachelor of Computer Science	156	135	93%	7%
Bachelor of Information Systems	81	80	94%	6%
Total	**237**	**215**	**93%**	**7%**

2.2 POSTGRADUATE STUDIES

2.2.1 MASTER DEGREE PROGRAMME

All master degrees at UCSC are taught masters in SLQF level 9 except one master degree called MSc in Computer Science which is SLQF level 10 with a 15 credits research project. Details of these degrees together with performance in 2019 are presented in the next few sections.

2.2.1.1 MASTERS DEGREES

UCSC offered six Master Degree programmes in 2019. A selection test was held to shortlist suitable candidates and interviews were held to identify more suitable candidates, using a structured marking scheme.

- **Master of Computer Science (MCS)**
  Those who have a Computing Degree or equivalent qualification are selected for this degree programme since the curriculum was designed considering basic courses in Computing Degree programmes. The intake size for the programme for the year 2019 was 102 students. The students were selected based on their first-degree qualification, performance at the selection test and selection interviews.

- **Master of Science in Computer Science (MSc in CS)**
  Master of Science in Computer Science degree is designed for those who wish to acquire a Computer Science degree with a research focus. A student who satisfies the specified minimum academic performance in the first two semesters of the Master of Computer Science degree is eligible to register in the second year for the Master of Science in Computer Science degree programme (third and fourth semesters). The intake size for the programme for the year 2019 was 14 students.

- **Master of Information Technology (MIT)**
  Those who are interested in changing their career path into Computing or obtaining a postgraduate qualification in Computing are offered this programme. Any graduate with working experience in a computing environment is encouraged to apply for this programme. The intake size of the programme for the year 2019 was 88 and a selection test and interviews were held to select suitable candidates for the programme.

- **Master of Information Security (MIS)**
  The Master of Information Security, which has been designed for graduates who wish to acquire a postgraduate qualification in the area of Information Security. This programme offers mid-career opportunities for those who work in the areas of Information Technology, Information System Audit, and Information Security. The intake size of the programme for the year 2019 was 30 and a selection test and interviews were held to select suitable candidates for the programme.

- **Master of Cybersecurity**
  Master of Cybersecurity is a distance International Master Program in Cybersecurity launched in 2018 in collaboration with Asi@Connect TEIN Cooperation Centre, European Commission, which covers a broad spectrum of subjects in Network Security and Cybercrime Investigation. The programme is administrating online (distance learning) and the students are required to be present at the UCSC for hands-on practical sessions and for the semester examinations.

  The programme is specifically designed for 16 participants from National Research and Education Networks (NREN) in Afghanistan, Bangladesh, Bhutan, Cambodia, Laos, Myanmar, Nepal, and other South East Asian countries. The Master of Cybersecurity Degree programme is the successor to the existing taught Master programme in Information Security at UCSC, which has been successfully continuing since 2008.

  The intake size of the programme for the year 2018/2019 was 14 and interviews were held to select suitable candidates for the programme.

- **Master of Business Analytics**
  The UCSC has identified Business Analytics as an emerging and futuristic discipline that blends Data Science with the needs of modern-day businesses with its primary focus on understanding business performance and developing new strategies based on data. Accordingly, the Master of Business Analytics has been designed to cater to the emerging trends of Data Science. The intake size of the programme for the year 2019 was 38. The students were selected based on their first-degree qualification, performance at the selection test and selection interviews.

All the masters' programmes consist of two years and four academic semesters, and lectures except the lectures for the Information Security programme are held only on weekends. According to workload and the number of credits for the programme, they are equivalent to full time programmes although the students enrolled are full-time employees of private or public organizations. Since the programme starts annually, there are two batches of students at any time of the year. One batch of students is following the first-year courses and the other batch is in the second year of study.

2.2.1.2 ENROLMENT

The courses for MIT, MCS, MIS and MBAnalytics commenced in June 2019 for the 2018/2019 intake, but the recruitment of students was started in 2018. The academic time table for the programme was announced at the beginning of the course and blended learning culture was promoted through the virtual learning environment http://pgvle.ucsc.cmb.ac.lk for all courses in the programme. Therefore, it was possible to promote learning activities before and after the lectures in addition to communicating with the students instantly although they were not on the UCSC premises on working days. Enrolment details for the Master programme for 2019 are given below. The student handbook for Master Degree programme was published in 2019 and its online version is available at the UCSC website http://www.ucsc.cmb.ac.lk/pg.

Table 2.2.1.2. – A: Postgraduate Enrolment in 2019

Degree Programme	Intake 2018/19	1st Year Students		2nd Year Students		Total
		New	Repeaters	New	Repeaters	
Master of Computer Science	100	102	55	56	32	**245**
Master of Science in Computer Science			8	14	8	**30**
Master of Information Technology	100	88	33	74	26	**221**
Master of Information Security	30	30	1	21		**52**
Master of Business Analytics	40	38				**38**
Degree Programme	**Intake 2018/19**	**1st Year Students**		**2nd Year Students**		**Total**
		New	**Repeaters**	**New**	**Repeaters**	
Master of Cybersecurity	16	14				**14**

Total						**600**

Student registration fees for the master's degree programme is the main source of generated income of the UCSC. Therefore, it is very important to obtain active participation and contribution from the academic staff to conduct the programme on time and deliver a quality service. Several private organizations have started a similar master's programme. There is a threat to UCSC postgraduate programmes since those organizations are offering high rates of lecture fees for resource persons. Hence, the programme budget was developed to motivate the academic staff to get their contribution to the programme and UCSC activities by considering market rates for resource persons, support for the research and development, staff training and welfare and institutional development. It is important to note that the participation in postgraduate programmes is not compulsory for the academic staff according to the present work norms and regulation of the university system.

Masters Inaugaration Ceromoney 2019

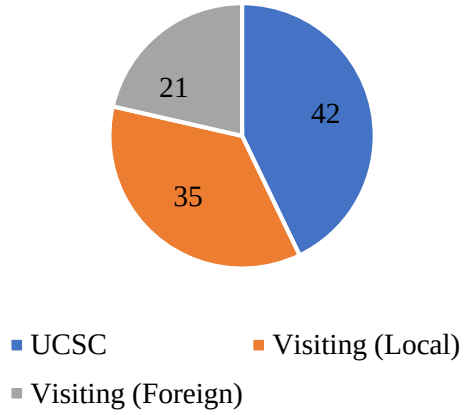
2.2.1.3 STAFF PARTICIPATION

Table 2.2.1.3. – A: Direct Staff Participation in Masters Programme 2019

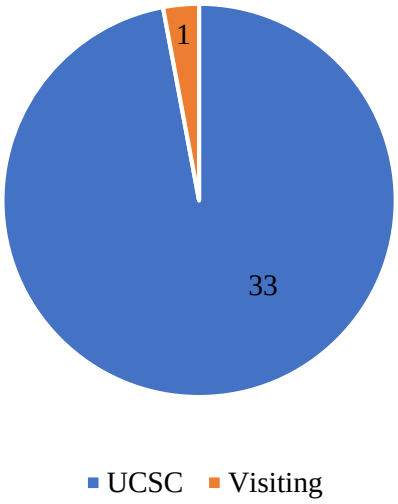
Degree Programme	Academic			Supervision		Administration	Non-Academic
	UCSC	Visiting (Local)	Visiting (Foreign)	UCSC	Visiting		
MCS	33	17	3	12		2 (Exams/	**5**

MIT		12	1	18		Postgraduat	
MIS		5	6	3	1	e)	
MBAnalytics		1	1				
MC	9		10				
Total	**42**	**35**	**21**	**33**	**1**	**2**	**5**

Direct Staff Participation in Masters Programme (Academic) - 2019



Direct Staff Participation in Masters Programme (Supervision)- 2019

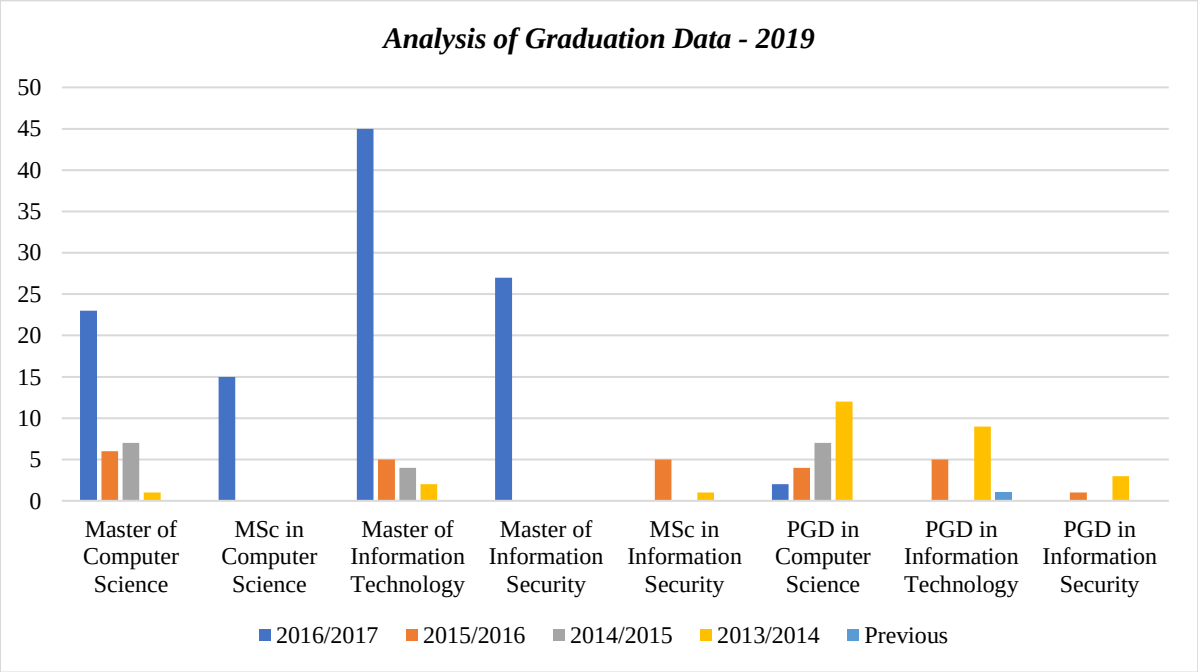


2.2.1.4 GRADUATION OF MASTERS PROGRAMME

Postgraduate Convocation for Master's Degree was held on 5th & 6th of December 2019 at BMICH for the students who were registered for the programme 2016/17. Some repeat students were also graduated at this convocation and some other students requested the postgraduate diploma if they have satisfied the minimum requirements to be qualified. Details are given below.

Table 2.2.1.4. – A: Analysis of Graduation Data of 2019

Course	Intake 2016/2017	Graduated					Previous	Total
		2016/2017	%	2015/2016	2014/2015	2013/2014		
Master of Computer Science	90	23	41%	6	7	1		37
MSc in Computer Science	29	15	52%					15
Master of Information Technology	94	45	60%	5	4	2		56
Master of Information Security	30	27	90%					27
MSc in Information Security				5		1		6
PGD in Computer Science		2		4	7	12		25
PGD in Information Technology				5		9	1	15
PGD in Information Security				1		3		4
Total	**243**	**112**	**46%**	**26**	**18**	**28**	**1**	**185**



At this convocation the below-mentioned graduates received special awards based on their performances in the programme.

Name of Award/Medal	Name of Recipient
Kingslake award for the best student for Master of Computer Science Degree Programme – 2018	R.H.R. Perera

JICA award for the best student for Master of Information Technology – 2018	L.D.J.K. Chathurangani
Mr. T.H.A. De Zoysa Award for the Best Student in Master of Information Security – 2018	R.A.D.K. Rupasinghe
Award for the Best Student in Master of Science in Computer Science - 2018	M.H.D.Y. Gunasiri

2.2.1.5 MASTERS PROGRAMME DEVELOPMENT

By considering the experience of the last few years and requirement of aligning Master's Degree programme with Sri Lanka Qualification Framework (SLQF), the syllabus of all Master's degree programmes were revised in 2018. Initiatives have been taken to introduce a new Master's programme in 2020 as Degree of Master of Computing by Research. By-laws and Regulations of the programme has already been sent to the approval of the Senate, University of Colombo.

2.2.1.6 RESEARCH DEGREES – MPHIL AND PHD PROGRAMMES

UCSC offers two research degree programmes, namely PhD and MPhil research degrees in Computing. Registrations are open throughout the year and possible candidates are encouraged to identify the potential supervisors by matching their research interests with research areas/groups/interests of the UCSC senior academic staff. Although UCSC has a pool of 30 senior lecturers with 29 of them having doctoral degrees in Computing. Details of registration and graduating for research degrees are given in the table below.

Table 2.2.1.6. – A: Research Degree Registration and Completion

Research Degree	Year 1 (Registration 2019)	Year 2 (Registration 2018)	Year 3 (Registration 2017)	On Extension (Registered before 2016)	Total	No of Graduated in 2019
PhD						1
Full Time			1	2	3	
Part Time			1		1	
PhD – Total			**2**	**2**	**4**	
MPhil						3
Full Time	1		5		6	
Part Time	2	4	5	4	15	
MPhil – Total	**3**	**4**	**10**	**4**	**21**	
Total Research Degrees	**3**	**4**	**12**	**6**	**25**	**4**

By considering the experience of the last few years, the bylaws and regulations of both the MPhil and PhD degree programmes were revised in 2019. The revised By-laws and Regulations of the programme have already been sent to the approval of the Senate, University of Colombo.

2.3 EXTERNAL DEGREE & EXTENSION COURSES

2.3.1 BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL) DEGREE PROGRAMME

In the past, BIT programme alone has attracted more than 40,000 students and has produced 2390 graduates; 3735 higher diploma holders and 8128 diploma holders up to the end of 2019. In 2019 (19th Batch) had 1,655 new enrolments and the process for new intake commenced in late 2018 and kept open until March 2019 to cater to the advanced level students of 2018. The following table shows the details of the student registration for the year 2019.

Table 2.3.1. – A: BIT Student Registration - 2019

Course	New Registration	Re-registration	Total
First Year Registration	1655	362	2017
Second Year Registration	586	733	1319
Third Year Registration	251	1143	1394
Total	**2492**	**2238**	**4730**

2.3.1.1 STUDENT PERFORMANCE – 2019

Table below highlights the performances of the BIT students over the last three years identifying number of registered and graduated students along with targets.

Table 2.3.1.1. – A: External Degree Performance over the last Three Years

External Undergraduates	Expected	2019	2018	2017
DIT - New Intake	**1500**	1098	1602	1890
DIT – Registered	2000	2373	2188	4075
DIT – Diplomas	**400**	436	403	379
[DIT/Registered]%	**26%**	**18%**	**18%**	**9%**
HDIT - Higher Diploma Intake	**600**	401	490	690
HDIT - Higher Diploma Registered	1200	1634	756	2509
HDIT - Higher Diplomas	**300**	120	151	227
[HDIT/Registered]%	**25%**	**7%**	**20%**	**9%**
BIT - Degree Intake	**300**	174	242	346
BIT - Degree Registered	1500	862	1177	1651
BIT – Graduates	**200**	177	217	262
[BIT/Registered]%	**15%**	**20%**	**18%**	**16%**

2.3.1.2 BIT TEACHING INSTITUTES

BIT is conducted in the public-private-partnership mode since UCSC is not directly involved in the teaching process. Hence, a meeting with BIT teaching institutes was held to brief the academic plan for 2019, changes for conducting Exams and obtain institute feedback on 29th November 2019. Many training institutes have offered face to face classes and learning support for the BIT candidates in 2019

too. UCSC does not accredit any of these institutions but have recognized their contribution to the success of the programme. Each year, UCSC publishes the summary of the examination results of each institute so that the candidates can identify the available institutions and plan their learning mode. More than half of the candidates study on their own (self-study) with the help of the VLE and online/recommended material. In 2019, 41 institutions from 12 districts conducted training for five or more candidates. Among them, 14 institutes were involved in all three years and details are available at the BIT website (www.bit.lk). BIT examinations were held at the centres in Colombo, Kandy, Galle and Jaffna.

2.3.1.3 BIT EXTERNAL DEGREE GRADUATION AND DIPLOMA AWARDS

BIT External degree graduation was held on 17th August 2019 at the Prof. V.K. Samaranayake Auditorium of UCSC for graduates of 2018 and Diploma & Higher Diploma award ceremony was held on 10th August 2019 at the Prof. V.K. Samaranayake Auditorium of UCSC for those who satisfied the relevant conditions in 2018. The number of graduates, 177 were conferred the degree at this Convocation. Parents and representatives of BIT teaching institutes also participated in the event. Detailed statistics are given in the table below.

Table 2.3.1.3. – A: Performance of External Degree Programme - 2019

Course	New registration	Repeaters	Total	No of Graduated
Diploma in Information Technology	1098	1275	2373	436
Higher Diploma in IT	491	2233	1634	120
Bachelor of Information Technology	174	688	862	177
All	**1673**	**4196**	**4869**	**733**

Table 2.3.1.3. – B: Analysis of Results – BIT at the Convocation held in 2019

Intake	First	Second Upper	Second Lower	Pass	Total
BIT		**7**	**15**	**155**	**177**

2.3.1.4 CONVOCATION AWARDS

At this convocation and the award ceremony the below mentioned students received special awards based on their performances in the programme.

Name of Award/Medal	Name of Recipient
Prof. V.K. Samaranayake Medal for the best performance at the Bachelor of Information Technology (External) Degree - 2018	D.S.D. Kaluarachchi
Prof. G.N. Wikramanayake Memorial Medal for the best performance in Software Development Project - 2018	K.H.J.M. Ranasinghe

Mr. M.J.P.U. Samanthilake Memorial Medal for the best e-Learner - 2018	D.S.D. Kaluarachchi
Best e-Learner awards for the 1st and 2nd semesters - 2018	L.P.S.S. Kumara

2.3.1.5 EMPLOYABILITY

At the time of convocation, the employability details of graduates were collected using a small questionnaire. The following table provides the details of the employability of UCSC external graduates for the last three years.

Programme	**2019**	**2018**	**2017**
Bachelor of Information Technology	90%	87%	85%

2.3.2 EXTENSION COURSES

The Computer Service Centre (CSC) was established to coordinate and manage extension courses, which are based on specialized areas. In 2019, UCSC offered seven extension certificate courses and attracted over 550 students. The below table shows the details of those courses which are normally conducted on weekends either on Saturday or Sunday. Certificates were offered based on the active participation in the courses and they could be verified at http://www.ucsc.lk/verify.

Table 2.3.2. A: CSC and ADMTC Training Programmes - 2019

Course	Division	Duration (weeks)	No. Batches	Participants
Java Application Development Using JavaSE	CSC	8	8	250
Computing for Career Development	CSC	8	1	25
Software Quality Assurance Using Test Automation Frameworks	CSC	7	2	52
Fundamentals of IT for Beginners	CSC	10	3	69
Dynamic Web Application Development With PHP & MySQL	CSC	10	1	23
Graphic Design and Creativity Development	ADMTC	8	5	90
Advanced Multimedia Web Design and Development	ADMTC	8	2	42
		Total	**22**	**551**

Certificate awarding ceremony URL
http://ucsc.cmb.ac.lk/events/completion-short-course-graphics-design-creative-development/

Table 2.3.2. B: CSC Consultancy Projects - 2019

Reporting Authority	Name of the Project

Department of Registration of Persons	Electronic National Identity Card Project
National Dangerous Drugs Control Board	Precursor Control Authority Project
North Western Provincial Council (NWPC)	1. Consultation for Preparing Request For Proposal (RFP) for the Project Appraisal and Management Software 2. Project on Overall System Study of Transport Authority and the Transport Ministry for private Transportation Management, a Traceable System to detect the running time of the Buses on Routes and Issuing the Running charts and Annual Licenses to the Buses, Three Wheelers and Schools Vans.
Attorney General Department	Consultancy Services for the Information Technology, Networking and Data Storage for Establishment of the Proposed Multi Storied Office Building for the Attorney General Department

e-Learning Centre conducted several workshops and examinations to several organizations and the details are as follows.

Programme	No. Batches	Participants
A Capacity Development Programme on Blended and Online Learning for Rajarata University	4	32
Establishment of Online Learning System at Manpower Development and Training Division of National Water Supply and Drainage Board	6	98
LMS Training for South Eastern University of Sri Lanka	2	23
Online Examinations for KPMG	11	113
Examination for Recruitment of Management Assistants (Grade III)	1	5
Computer Test for Confirm in the Post – University of Colombo	1	18
Examination for Recruitment of Tactical Officer-IT	1	6
Total	**26**	**295**

2.3.3 ONLINE EXTENSION PROGRAMMES

E-Learning Centre of UCSC was established to promote online learning for existing programmes as well as to start new online programmes based on the national requirements. The Foundation of Information Technology (FIT), http://fit.bit.lk was established as an online foundation programme for ICT and also as an alternative certification path to be registered for the BIT degree programme if a student does not have adequate A/L marks. The following table provides the details of the FIT programme in 2019.

Table 2.3.3. A: Statistics of Foundation of Information Technology Programme

Programme	Registration	Applied for * e-Testing	Passed e-Testing	Passed Practical Tests
FIT	622	507	183	20

2.4 FOREIGN STUDENTS

As a centre of excellence in the region, UCSC believes that it is important to provide opportunities for foreign students to follow programmes at the UCSC. Although the foreign student category to enroll students (2%) had been there for a while, there was no significant demand from such students. In 2019, UCSC had **13 foreign students from Afghanistan, Nepal, India, and Bangladesh for the Master of Cybersecurity programme and 01 student from Bangladesh is following the Bachelor of Information Technology External Degree programme.**

3. RESEARCH

3. RESEARCH

3.1 RESEARCH, INNOVATION, AND PUBLICATIONS

Research culture is the most important and distinguished area to showcase the achievements of UCSC. In 2019, several activities were carried out to enhance the research programmes at the UCSC. Some of these research activities are linked to research degree programmes and others relate to external organizations that have directly funded research projects at UCSC. The importance of collaborative research was promoted among the academic staff to expand the research activities by allowing them to form research groups at UCSC. Since external funding varies due to competition, internal research and development allocation was maintained to sponsor research activities. A significant percentage of the income of masters and external degree programme was used for this allocation. At the beginning of 2019, a policy document was updated to increase the utilization based on the previous year experience. At the same time, UGC did not allocate funds for research and development activities in 2019 since the capital grant was utilized for infrastructure development.

3.1.1 UNDERGRADUATE LEVEL RESEARCH PROJECTS

All students of honours degree programme are supposed to carry out a project with a research component in their final year. The duration of the project is one year and it is usually supervised by one or more senior academic staff members of UCSC. In the Computer Science degree programme, the final year project is an individual project but it is a group project in the other two degree programmes (Information System and Software Engineering). These projects are evaluated independently considering three milestones, namely proposal defense, interim evaluation, and final evaluation, all of which contain a presentation and viva by the staff members who were not involved in the supervision of the project. There are three academic coordinators with respect to degree programmes and there are guidelines to manage the evaluation process.

Table 3.1.1 A: Undergraduate Level Research projects conducted in 2019

Degree Programme	Project Coordinator	Number of Students	No. of Projects	Number of Supervisors	Number of Examiners
BSc Honours in Computer Science	Dr. H.E.M.H.B. Ekanayake	30	30	19	28
BSc Honours in Information Systems	Dr. (Mrs) T.A. Weerasinghe	20	8	13	16
BSc Honours in Software Engineering	Dr. M.I.E. Wickramasinghe	10	3	7	6

3.1.2 MASTERS LEVEL PROJECTS

In all master degree programmes, students are supposed to carry out an individual project or independent study as a primary requirement to complete the degree programme. The individual project expands over two semesters (one calendar year) and a supervisor who is usually a senior academic staff member of the UCSC is appointed to supervise each student. Project coordinators are appointed at the beginning of the academic year to manage the evaluation process. The individual projects can be categorized as research type projects and implementation type projects. In MCS programme, most of the projects are research types. In other programmes such as MIT, MIS and MBAnalytics, individual projects are implementation types. However, some projects have a research component. Details of Masters Projects in 2019 are given below.

Table 3.1.2. A: Evaluation of Masters Level Projects

Degree Programme	Academic Year	Registered Students (First Time + Repeaters)		Completed Successfully	Pass Rate %
		2016/2017	Repeaters		
MCS	2018/2019	56	32	37	**42%**
MSc in CS		25	0	15	**60%**
MIS		3	7	9	**90%**
MIT		56	14	56	**80%**

3.1.3 *PROJECTS OF RESEARCH DEGREES*

In the MPhil and PhD programme, research project is the main component and students are supposed to defence them to an independent examination panel which consists of local and foreign examiners depending on the degree programme. In 2019, several applicants registered for research degree projects and details are presented below.

Table 3.1.3. A: Projects of Research Degrees

Degree Programme	Number of Applicants	Registered
MPhil	5	3
Total	**5**	**3**

3.1.4 FUNDED RESEARCH PROJECTS

3.1.4.1 INTERNAL RESEARCH AND DEVELOPMENT PROJECTS

In 2019, UGC did not allocate funds for research and development activities and the capital grant was not enough to cover the infrastructure development activities of the UCSC. Hence, it was decided to utilize the research allocation of postgraduate programmes to fund research projects carried out by the senior academic staff. All staff members were invited to submit proposals based on their planned research activities during 2019 and 9 proposals were selected for financial assitance. Following table shows to the details of each project

Table 3.1.4.1. – A: Allocation, Utilization and Outcome of Funded Research Projects

Research Project/Activity	Principal Investigator/ Research Group	Allocation Rs	Utilization Rs
A comprehensive study of Oncogenic Signatures	Dr. A.R. Weerasinghe	500,000	480,000.00
Analysis of tumour genomic marker to define pathway deviation in the pathogenesis of advanced prostate cancer	Ms. C.R. Wijesinghe	500,000	450,000.00
Framework for Anomaly Detection using Recurrent Natural Network and its Variants	Dr. M.I.E. Wickramasinghe	500,000	320,000.00

Investigate Relationship Between Behavioral and Thought Processes in Human	Dr. H.E.M.H.B. Ekanayake	500,000	320,000.00
Performance Analysis of Permissioned Distributed Ledgers	Dr. D.N. Ranasinghe	500,000	58,770.49
Smart Shopper	Dr. K.L. Jayaratne	500,000	10,000.00
Modeling and Prediction of Solid waste Generation using Machine Learning Approaches in Sri Lanka	Dr. M.G.N.A.S. Fernando	500,000	409,400.00
Build Security in Via Visualization of Security Artifacts in Software Analytics	Dr. G.D.S.P. Wimalaratne	500,000	170,000.00
Gesture-Based Direct Manipulation 3D User Interface Metaphor for Large Data Visualization; Vector Borne Disease Dataset as a Case Study	Dr. G.D.S.P. Wimalaratne		

Permanent academic staff of UCSC comprising both senior and junior staff, were supported to attend both local and foreign conferences/ symposium and workshops using the generated income of the postgraduate programme. Details of their participation are given below.

Table 3.1.4.1. B: Participation of Conferences/Symposium and Workshops - 2019

Staff Level and Type of Conference	Participated Only	Published/ Presented	Total
Senior Academics – Conferences held in Sri Lanka	1	15	16
Senior Academics – Conferences held outside Sri Lanka	5	38	43
Junior Academics – Conferences held outside Sri Lanka		8	8
Total	**6**	**61**	**67**

3.1.4.2 RESEARCH PROJECTS FUNDED BY EXTERNAL PARTIES

UCSC staff directly submitted proposals to local and foreign authorities to obtain funds for research and development activities of the UCSC. Following table shows the details of projects carried out in the year 2019

Table 3.1.4.2. - A: Utilization and outcome of research projects funded by external parties -2019

Project Name	Principal Investigator	Donor Agency or Sponsoring Organization	Type of Grant (Local or Foreign)	Granted Amount as at 31.12.2019
Enhance English language learning through m-learning in different learning communities - NSF (TG/2013/Tech-D/02)	Prof. K.P. Hewagamage	National Science Foundation	Local	387,564.49
Language Technology Research Laboratory (Sinhala Encyclopaedia Project & TTS & ASR Project)	Dr. A.R. Weerasinghe	LTRL	Local	1,211,460.00

Interaction design for tablet based edutainment systems for primary mathematical education - UGC/DRIC/QUT2015/CMB/02		Dr. H.K.T.C. Halloluwa	QUT Scholarships 2015- University Grants Commission	Local	131,793.82
Linking Exogaming and Long term healthcare monitoring for children with motor disabilities in Sri Lanka UGC/VC/DRIC/PG2016(I)/UCSC/01		Ms. K..P.U. Jayasinghe	Higher Studies 2016-University Grants Commission	Local	1,411,581.60
Electronic National Identity Card Project		Dr. K.L. Jayaratne	eNIC-Department of Registration of Persons (DRP)	Local	1,113,750.00
Entity Resolution in Multimedia Databases		Mr. S.C. Premaratne, Dr. K.L. Jayaratne	National Science Foundation	Local	724,362.00
Google summer of code Project		Dr. T.N.K. De Zoysa	Google LLC	Foreign	585,840.35
Master of Cybersecurity		Dr. T.N.K. De Zoysa	Asi@Connect TEIN Cooperation Center, European Commission	Foreign	14,032,541.15
AHEAD project's Research & Innovation Commercialization (RIC) grant scheme.	Prof. N D Kodikara Dr. T.N.K. De Zoysa (co- coordinators)		World Bank	Foreign	8,645,436.00
	Sub Project 1: Conversational Interfaces for Local Languages	Dr. A.R. Weerasinghe			
	Sub Project 2: Genomics Lab	Ms. C.R. Wijesinghe/ Dr. A.R. Weerasinghe			
	Sub Project 3: Cost Effective Modeling and Simulation Solutions	Prof. N.D. Kodikara			
	Sub Project 4: Blockchain and dApps	Dr. T.N.K. De Zoysa			

3.1.5 *ALLOCATION FOR RESEARCH THROUGH POSTGRADUATE PROGRAMME AND UTILIZATION*

It is essential to maintain the research and development activities for the sustainability of the masters and research degree programmes at UCSC. Government allocation for research and development is very unpredictable and in some years, for example 2018, there was zero allocation for research and development. Hence, a part of the income of the master's degree and external degree programme was allocated during the last 16 years to establish the sustainability of research activities at UCSC. This allocation has been used to support research projects as well as research publications in journals and conferences using a quota system based on the seniority of the staff members. There are two types of allocation known as "Individual Quota" (IQ) and "Open Quota" (OQ). At the beginning of the year, all permanent academic staff was given a fixed allocation to promote publishing their research outcome in international conferences, journals and book chapters. At the same time, they were supported to attend both local and foreign conferences within the allocated limit of each staff member.

Staff members were also supported to utilize the allocation to cover their research expenses directly related to their research work such as acquiring goods and services including access to the internet, subscription of professional organizations, and partial support for externally funded projects, etc. Journal publications in web of science indexed journals were supported through the "open quota" allocation. The following table shows the utilization of Research allocation during 2019.

Table 3.1.5. A: Utilization of Research Allocation during 2019

Staff Members	Utilization (Rs.)	Average Utilization (Rs.)
Senior Staff (30)	3,775,731.76	125,857.73
Junior Staff (17)	689,025.97	40,530.94
Total Staff – (47)	4,464,757.73	94,994.84

It is important to note that the UCSC Research allocation has been built using the generated income and donations of external parties during the last 16 years. The continuity of research and development irrespective of less government funding and academic and administrative workload is an essential requirement for the sustainability of UCSC.

3.1.6 RESEARCH GROUPS AT UCSC

In order to promote the collaborative research culture, UCSC staff are invited to carry out research and development activities as small teams comprising one or more senior staff members, junior staff members, full or part-time research assistants and students. Some groups also invite external parties to collaborate to carry out activities of research groups by funding fully or partially as well as contributing to their expertise in the respective area. The following table presents the details of active research groups in 2019.

Table 3.1.6. A: Research Groups in 2019

Group Name	Goal of Research Group	Members of Research Group	URL of Research Group
Social Life Networks (SLN)	Providing real-time information to support the activities related to livelihood delivered using mobile phone applications	Dr. (Mrs) M.D.J.S. Goonatillake & Dr (Mrs) L.N.C. De Silva	http://ucsc.cmb.ac.lk/social-life-networks/

	targeted to meet the needs of people in developing countries		
Sustainable Computing Research Group (SCoRe)	To generate computing solutions through identifying low cost methodologies and strategies that lead to sustainability.	Dr. T.N.K. De Zoysa, Dr. C.I. Keppitiyagama, Dr. M.I.E. Wickramasinghe, Dr. P.V.K.G. Gunawardana, Mr. Chathura Suduwella, Mr. Charith Elvitigala & Mr. Asanka Sayakkara	http://ucsc.cmb.ac.lk/research-groups/sustainable-computing-research/
The modeling and simulation group	To work on a Ship Handling Simulator (ViduSayura) for the Sri Lankan Navy	Prof. N.D. Kodikara & Dr. K.D. Sandaruwan	http://ucsc.cmb.ac.lk/research-groups/modelling-simulation-group/
Language Technology Research Laboratory (LTRL)	To address the growing need of local language computing in Sri Lanka by doing Localization and Language Processing research and development	Dr. A.R. Weerasinghe, Mr. W.V. Welgama & Dr. B.H.R. Pushpananda	http://ucsc.cmb.ac.lk/research-groups/language-technology-research-laboratory/
Distributed Computing	The development of novel middleware architectures and parallel algorithms based on shared persistent space and the emergent behaviour of large scale distributed systems	Dr. D.N. Ranasinghe	http://ucsc.cmb.ac.lk/research-groups/distributed-computing-group/
The Bioinformatics and Computational Biology (BCB)	Involves conducting quantitative studies, such as pattern recognition and network analysis, to discover biological knowledge; and developing computational techniques, algorithms, tools and statistical models to analyze various biological data and make predictions.	Dr. A.R. Weerasinghe & Ms. C.R. Wijesinghe	http://ucsc.cmb.ac.lk/research-groups/bioinformatics-and-computational-biology-bcb-research-group/

3.1.7 RESEARCH PUBLICATIONS AND AWARDS

The following table shows the summary of research publications in 2019 and details of all the publications are given at the end of this section.

Table 3.1.7. – A: Publication Summary - 2019

Type of publication	Held/Published in Sri Lanka	Held/Published outside Sri Lanka	Total
Conferences	5	30	**35**
Journals	1	15	**16**
Total	**6**	**45**	**51**

The Academic staff plays the role of facilitating publishing research articles by guiding students and research assistants. They hardly find enough time to be the first author due to teaching and administrative workloads. The following table shows the profile of publications with respect to each staff member in 2019.

3.1.7. - B: Detail Analysis of Publications - 2019

Name of Staff Member	Conferences	Journals	Total
Prof. K.P. Hewagamage	2		**2**
Prof. N.D. Kodikara	1	1	**2**
Prof. G.K.A. Dias	2		**2**
Dr. A.R. Weerasinghe	9		**9**
Dr. A.S. Athukorala	2		**2**
Dr. G.D.S.P. Wimalaratne	1	2	**3**
Dr. M.D.R.N. Dayaratne	1		**1**
Dr. D.D. Karunaratne		1	**1**
Dr. (Mrs) M.D.J.S. Goonatilake	3		**3**
Dr. K.L. Jayaratne	5	6	**11**
Dr. (Mrs) S.M.K.D. Arunathilake	1		**1**
Dr. C.I. Keppitiyagama	1		**1**
Dr. D.N. Ranasinghe	1	1	**2**
Dr. H.A. Caldera	2	1	**3**
Dr. M.G.N.A.S. Fernando		2	**2**
Mrs. C.R. Wijesinghe	5		**5**
Dr. M.I.E. Wickramasinghe	2		**2**
Dr. K.D. Sandaruwan		1	**1**
Dr. (Mrs) T.A. Weerasinghe	2	1	**3**
Dr. P.V.K.G. Gunawardana	1		**1**
Dr. (Ms) K.H.E.L.W. Hettiarachchi	4		**4**
Dr. S.S.P. Matara Arachchi		1	**1**
Mr. R.A.H.D. Perera	2		**2**
Mr. R.J. Amaraweera	1		**1**
Ms. K..P.U. Jayasinghe	1		**1**

Mr. K.V.D.J.P. Kumarasinghe	1		**1**
Mr. A. Sayakkara	2		**2**
Ms G.K.K. Perera		1	**1**
Dr. H.K.T.C. Halloluwa	1		**1**
Dr. B.H.R. Pushpananda	1		**1**
Mr. W.V. Welgama	1		**1**
Dr. K.T. Karunanayake	1		**1**
Dr. (Mrs) Dinuni K. Fernando	2		**2**

3.1.7.1 AWARDS FOR RESEARCH DURING 2019

UCSC continued to encourage students and staff to submit their research and development work for external evaluation to obtain national and international recognition. In 2019, **6 awards** were received for research work from different external organizations. Details are given below.

Table 3.1.7.1. – A: Awards for Research and Development Projects – 2019

Name of the awards	Awarding Agency	Publication or Project	Team members
Senate Award for Research Excellence	University of Colombo	NA	Dr. G.D.S.P. Wimalaratne
Vice Chancellor's Award of Research Excellence at 2018	University of Colombo	NA	Dr. G.D.S.P. Wimalaratne
ICT Researcher of the year	CSSL, Sri Lanka	NA	Dr. G.D.S.P. Wimalaratne
CSSL ICT Educator of the Year	CSSL, Sri Lanka	NA	Prof. G.K.A. Dias
Best Student Paper award	DFRWS-USA Special Issue in Elsevier Digital Investigation, DFRWS2019, USA	Leveraging Electromagnetic Side-Channel Analysis for the Investigation of IoT Devices	Mr. Asanka Sayakkara
Best Presentation Award	Learning Methods and Modes session at the 11th International Conference on Education Technology and Computers (ICDLE 2019) held in Amsterdam, Netherland.	Analyzing the Impact of Introducing Active Learning in a Blended Educational Environment	Dr. (Ms) K.H.E.L.W. Hettiarachchi

3.1.7.2 KEYNOTE/INVITED SPEECHES OF UCSC STAFF

3.1.7.2. - A: Detail of Keynote / Invited speeches of UCSC staff - 2019

Name of the staff	Event	Topic
Dr. A.R. Weerasinghe	Keynote Speaker of ICTer 2019	Navigating Our Way through the Challenge of Artificial Intelligence

3.1.7.2. - B: Detail of UCSC staff as Resource Persons at Workshops/Tutorial/Seminars – 2019

Name of the staff	Event	Topic
Dr. A.R. Weerasinghe	Resource Person of ICTer 2019	Building your own chatbot: the hard way made easy
Ms. C.R. Wijesinghe	Running a stall in ShilpaSena exhibition by Bioinformatics Group	Applications of Bioinformatics in Biotechnology
Ms. C.R. Wijesinghe	SLAAS (The Sri Lanka Association for the Advancement of Science) - 2019	presentation on Using workflow systems in bioinformatics at the symposium 05: " Research and applications of Nanobiotechnology & Bioinformatics in Sri Lanka: past perspectives, current status & future trends"

3.1.7.3 VISITING RESEARCHERS AT UCSC

Table 3.1.7.3. – A: Visiting Researchers at UCSC – 2019

Visiting Researcher	Duration	Activity
Dr. Rafiul Ahad, Vice President, Software Development – Oracle Corporation, USA	8th January 2019	Resource person
Dr. Primal Wijesekara Research Scholar University of California, USA	8th January 2019	To deliver Lecture series for MIS, MIT and Cybersecurity students
A delegation from Kyoto University, Japan	19th March 2019	For a seminar on Informatics Asia in Sri Lanka
Dr. B. Chandra, adjunct Professor school of IT, Indian Institute of Technology, Delhi	9th / 8th April 2019	For a discussion on research collaboration
Mr. C.J. Kumarage, Assistant Professor, Saint Cloud State University, Saint Cloud MN, USA	13th July 2019	To deliver Lecture series for MCS students
Dr Mohomad Nabeel Yoousf, Scientist at Qatar Computing Research Institute/ Purdue University, USA	24th July 2019	To deliver Lecture series for MIS students

Delegation from Peking University, China	26th July 2019	For a discussion on research collaboration
Dr. Dhaval Vyas, Senior Lecturer in the Co-Innovation Group, School of Information Technology and Electrical Engineering, at the University of Queensland	3rd - 4th September 2019	Keynote Speaker of ICTer 2019
Prof. Mahendran Velauthapillai, Computer Science Department, Georgetown University Washington, USA	2nd - 4th September 2019	Keynote Speaker of ICTer 2019 and Prof. V.K. Samaranayake Memorial Oration 2019
Dr. Nuwan Goonasekara, Academic Specialist, Medicine, Dentistry and Health Sciences, The University of Melbourne, Australia.	5th September 2019	Resource person for ICTer 2019
Dr. D.P. Liyanage Information Security Manager, Thames Water, UK	5th September 2019	Keynote Speaker and Resource person for ICTer 2019
Mr. Charitha Goonetilleke, Founding member of Entgra, part-time lecturer at the Open University of Sri Lanka.	2nd September 2019	Resource person for ICTer 2019
Mr.Lasantha De Zoysa, Member of Entgra.	2nd September 2019	Resource person for ICTer 2019
Prof. Abhaya Induruwa Principal Lecturer Canterbury Christ Church University, UK	6th October 2019	To deliver Lecture series for MIS students
Professor Shervanthi Homer-Vanniasinkam BSc MD FRCSEd FRCS	14th October 2019	For a discussion on research collaboration
Dr. Chamari Edirisinghe, Post - Doctoral Research Fellow Imagineering Institute, Malaysia	2nd to 9th November 2019	To deliver Lecture series for MCS students
Anu A. Gokhale, Ph.D. Professor and Coordinator Computer Systems Program Department of Technology Illinois State University Normal, IL 61790	8th December 2019	For a discussion on research collaboration
Dr. Asangi Jayatilaka, Lecturer at School of Computer Science and a post-doctoral researcher at the Centre for Research on Engineering Software Technologies, University of Adelaide.	16th December 2019	For a discussion on research collaboration

Asanga Wickramasinghe, Data scientist at Fivecast Ltd, which is a spinoff and a continuation of Data to Decisions Collaborative Research Centre, USA	16th December 2019	For a discussion on research collaboration

3.1.8 PROFESSOR VK SAMARANAYAKE ORATION – 2019

Prof. V.K. Samaranayake Memorial Oration 2019 was conducted on 2nd September 2019 at the Professor V K Samaranayake Auditorium of the UCSC by Prof. Mahendran Velauthapillai, Computer Science Department, Georgetown University, Washington, USA. The topic of the oration was "Support Profile Leads to a Pattern among Natural Languages". The details of this event are available at;

https://ucsc.cmb.ac.lk/events/12th-annual-vidya-jyothi-professor-v-k-samaranayake-memorial-oration-2019/

3.1.9 INTERNATIONAL CONFERENCE - ICTER2019

The 19th International Conference on Advances in ICT for Emerging Regions (ICTer2019) was held from 03rd to 04th September 2019 in Colombo, Sri Lanka. ICTer provides a platform where research done in ICT is presented by both local and foreign computer scientists and IT professionals. ICTer is the successor to the seminal IITC held in Sri Lanka since 1998. The Conference was initiated to mark the year of IT declared by the government of Sri Lanka in 1998. Initially, it was organized by Infotel Lanka Society and managed by the Council for Information Technology. The Management was taken over by the University of Colombo School Of Computing in 2003. Infotel Lanka Society organized the conference until 2006 under the name International Information Technology Conference (IITC). Currently, the University of Colombo School of Computing organizes and manages the conference.

In order to get international participation and recognition and to promote the researches in Computer Science and Information and Technology in the region, all selected papers will be published in the special issue of the ICTer Journal. Also, the proceedings of the conference will be published in a book and all the selected papers and abstracts will be submitted to IEEE Xplore. Based on the reviews of the technical committee of the conference. These papers are selected from submitted papers for the conference.

Over 200 researchers and students attend the conference. Conference focuses on areas including Natural language processing and text analytics, Cybersystems, Big data analytics, Image processing, Cloud computing, E-Science in social science, health, climate and education, Cybersecurity and application security, Internet of Things, Mobile and sensor networks, ICT for Development, E-Learning, ICT Innovation, Blockchain technology and Cryptocurrencies.

The conference includes presentation of selected papers. Additionally it includes keynote addresses by leading personalities of International repute in the Ares of Computer Science and Information and Technology. This year Dr. Dhaval Vyas , School of Information Technology and Electrical Engineering, at the University of Queensland; Prof. Mahendran Velauthapillai , McBride Professor of Computer Science, Computer Science Department, Georgetown University, Washington, DC ; Dr. A.R. Weerasinghe at University of Colombo School of Computing ; Dr. D.P. Liyanage, Information Security Manager, Thames Water, UK; Mr.Sujith Christy at MAS Holdings will be delivering the keynote addresses on the topics "Grounded

Design: An approach to design for underserved communities", "Establishing Communication, Non-Destructive Monitoring and the complexity of an Inverse Problem in a Sensor Network" , "Navigating our way through the challenge of Artificial Intelligence " , "The risks and opportunities of Big Data in the modern world" respectively. It also includes pre and post conference workshops by experts in the areas of current interests in Computer Science and Information and Technology. Dr. A.R. Weerasinghe, University of Colombo School of Computing; Mr. Charitha Goonetilleke, founding member of Entgra, part time lecturer at the Open University of Sri Lanka with Mr. Lasantha De Zoysa , member of Entgra, Having Worked at the WSO2 prior; Dr. D.P. Liyanage , Cyber Security Manager, Thames water, United Kingdom and Dr. Nuwan Goonasekara, | Research Fellow, Melbourne Bioinformatics & EMBL Australia Bioinformatics Resource, University of Melbourne; ISACA will be conducting the workshops on "Building your own chatbot: the hard way made easy" , "Hands-on Guide to Building an IoT Enabled Architecture" , "Big Data – Managing risks and opportunities " , "Installing and configuring the Galaxy Platform for Bioinformatics data analysis " and Resilience through Privacy in Cyberspace respectively.

ICTer2019 has received 110 submissions. Each of these papers was blind reviewed by at least three local and international reviews and only 22 full papers, 3 posters with extended abstracts were accepted.

The details and the keynote speeches of this event are available at:

- http://www.icter.org/conference/icter2019/keynote-speakers/

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Prof. G K A Dias, University of Colombo School of Computing, Sri Lanka

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Dr. (Ms) K.H.E.L.W. Hettiarachchi, University of Colombo School of Computing, Sri Lanka
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Ms. Anjalee Srimalee, University of Colombo School of Computing, Sri Lanka

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Mr. E.M. Gunarathne, Deputy Bursar, University of Colombo School of Computing, Sri Lanka.

Conference Secretariats

Ms .D.A.S. Ruwanmini, University of Colombo School of Computing, Sri Lanka.
Ms. Nimali Wasana, University of Colombo School of Computing, Sri Lanka.

The conference website is http://www.icter.org/conference/icter2019/

3.1.10INTERNATIONAL JOURNAL – ICTER

The International Journal on Advances in ICT for Emerging Regions (ICTer) aims to promote journal level publications through a peer-review process. This journal was initiated as a project by the University Of Colombo School Of Computing in order to promote Computing publications in 2008. The journal welcomes researchers in ICT related fields, particularly from emerging regions, to disseminate knowledge through an international network to an international audience by way of an internationally acclaimed journal. ICTer will expose its writers to prominent research institutions and funding organizations like SIDA, SPIDER, JAICA, KOICA, World Bank, etc. Its ISBN No. is ISSN 2550-2794 and available at the http://journal.icter.org/. In 2019, the Google Scholar h-index of ICTer Journal is 10. The following members were appointed as the staff of ICTer Journal.

Editor in Chief

Prof. Abhaya Induruwa, Canterbury Christ Church University, United Kingdom

Associate Editor

Prof. G.K.A. Dias, University of Colombo School of Computing, Sri Lanka
Prof. K.P. Hewagamage, University of Colombo School of Computing, Sri Lanka
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Web Master

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The statistics of ICTer Journal as follows:

1. Number of submissions (2019) = 11
2. Number accepted = 3
3. Number published = 3
4. Number of issues = 2 – available at http://journal.icter.org/index.php/ICTer/issue/archive

Major activities of ICTer Journal during 2019

4 Published – 2019 Special Issue, Vol 12, No 1
5 Published – 2019 December Issue, Vol 12, No 2

3.1.11 RESEARCH PUBLICATIONS – 2019

3.1.11.1 JOURNAL PUBLICATIONS – 2019

01	M.D.S. Seneviratne, K.S.D. Fernando, D.D. Karunaratne (2019), "*Generation of relation - extraction - rules based on Markov Logic Network for Document Classification*", International Journal of Advanced Computer Research (IJACR), Vol. 9, No. 41, pp 94-111, ISSN: (print) 2249- 7277, ISSN (online) 2277 - 7970. http://accentsjournals.org/journals.php?journalsid=103, DOI:10.19101/IJACR.2018.838015.
02	C.P. Wijesiriwardhana, G.D.S.P. Wimalaratne (2019), "*Software Engineering Data Analytics: A Framework Based on a Multi-Layered Abstraction Mechanism*", IEICE TRANSACTIONS on Information and Systems, Vol. E102-D, No. 3, pp 637-639, ISSN: 1745-1361. http://search.ieice.org/bin/index.php?category=D&lang=E&curr-1.
03	Chathurika S. Silva, G.D.S.P. Wimalaratne (2019), "*Fuzzy Logic Based Walking Context Analysis for Visually Impaired Navigation*", Sensors and Materials, Vol. 31, No.4., pp 20. ISSN; 0914-4935, http://myukk.org/SM2017/index.php.
04	Zuha Samsudeen, Dhanushka Perera, M.G.N.A.S. Fernando (2019), "*Behavioral Analysis of Bitcoin Users on Illegal Transactions*", Advances in Science, Technology and Engineering Systems Journal (ASTESJ), USA, Vol. 4., No. 2. ISSN; 2415-6698. www.astesj.com.
05	K.D. Sandaruwan, Mangalika Jayasundara, N.D. Kodikara, Sachintha Pitigala, *"Machine Learning Based Approach to Simulate Drone Dynamics Related To Figure of Eight Maneuvering Pattern"*, European Journal of Computing Science and Information Technology, VOL.07, No.05, pp.16 – 25,October 2019, Published by ECRTD – UK, ISSN 2054 – 0957

	print 0254 -0965 Online, Issue No – 10, 13 Duncan Rd, Gillingham Kent ME7 4LA United Kingdom. www.eujournals.org,
06	P. De Silva, C. Imalika, T.A. Weerasinghe, H.A. Caldera (2019). "*Impact of Students' Position in the Online Discussion Network on their Learning Performance*", International Journal of Soft Computing and Artificial Intelligence (IJSCAI)- IJSCAI, Vol. 7, No.1 (May, 2019) , http://iraj.in/journal/IJSCAI/.
07	D.D. Amarasekera, D.N. Ranasinghe (2019), "*Consensus models for permissioned distributed ledgers*', European Journal of Computer Science and Information Technology, Vol 7, No. 3, https://www.eajournals.org/journals/european-journal-of-computer-science-and-information-technology-ejcsit/vol-7-issue-3-june-2019/.
08	S.A.D.P. Subasingha, S.C. Premaratne, K.L. Jayaratne and P. Sellappan (2019): *a Novel Method for Cricket Match Outcome Prediction using Data Mining Techniques.* International Journal of Engineering and Advanced Technology (IJEAT), 8(6S3):15-21.
09	R.H.R. Perera and K.L. Jayaratne (2019): An Intelligent Product Suggestion Algorithm Using Predictive Analysis for Personalized User Interface Building. European Journal of Computer Science and Information Technology (EJCSIT) by European Centre for Research Training and Development UK, 7(5):1-15
10	S.C. Premaratne, K.L. Jayaratne and P. Sellappan (2019): Event Resolution in Cricket Videos: A Review. International Journal of Scientific & Engineering Research (IJSER), 10(1):131-139.
11	M.G.N.A.S. Fernando , "Migration and Mitigation of effect from migration", International Journal of Scientific Research and Management (IJSRM), SSN (e): 2321-3418, Volume 07;Issue10, Pages 544-556,2019, Article Published Date: 23 October 2019 https://www.ijsrm.in/index.php/ijsrm/article/view/2399/1928
12	G.K.K.Perera, Champi Thusangi Wannige, "A hybrid algorithm for identifying partially conserved regions in multiple sequence alignment", International Journal of Computers and Applications, https://doi.org/10.1080/1206212X.2019.1628468
13	W.L.D. Perera, K.L. Jayaratne, "Anomalous Note Change Detection of Unknown Monophonic Melodies.", European – American Journals, European Center for Research, Training and Development (ECRTD), Vol. No.07, ISSUE No. 06, Pages. 18 and 25, 13 Duncan Rd, Gillingham Kent ME7 4LA, United Kingdom (UK), http://www.eajournals.org/journals.
14	W.L.D. Perera, K.L. Jayaratne, "Automatic Accompaniment Music Generation and Singing Skill Evaluation for Vocal Melodies.", European – American Journals, European Center for Research, Training and Development (ECRTD), Vol. No.07, ISSUE No. 06, Pages. 18 and 25, 13 Duncan Rd, Gillingham Kent ME7 4LA, United Kingdom (UK), http://www.eajournals.org/journals.
15	S.S.P. Matara Arachchi, Siong Choy Chong, Alik Kathabi, "System Implementation Failures in the ERP Development Process", ISSN Print :2327 – 5219, ISSN Online: 2327 – 5227, Scientific Research Publishing (SCIRP), Vol.07, Issue No.12 Building 5, Headquarters Space of Optical Valley, Tangxun Lake North Road #38, EaseLake High – Tech Development Zone, Wuhan430223, Hubei Province, China, 2013 – 2019, Publication Count:798. https://www.scirp.org/journal/JCC/,
16	G.A.G.S. Karunarathna, K.L. Jayaratne, P.V.K.G. Gunawardana, (2019), "Classification of Voice Content in the Context of Public Radio Broadcasting", in the International Journal on Advances in ICT for Emerging Regions.

3.1.11.1 CONFERENCE PUBLICATION – 2019

01	K.H.E.L.W Hettiarachchi (2019), "Enhance Undergraduate Learning Experience by Taking a Leap into Active Learning", 13th Annual International Technology, Education and

	Development Conference (INTED2019)", https://iated.org/inted/, Valencia, Spain., 11th - 13th March 2019.
02	Akhila Wijewardena, N.D. Kodikara (2019), "*Medical Prescription Identification Solution*", 21st International Conference on Computer Vision, Imaging and Computer Graphics (ICCVICG 2019), Singapore 1st - 4th May 2019. https://waset.org/conference/2019/05/Singapore/ICCVICG.
03	M.T. De Silva, T.A. Weerasinghe, G.K.A. Dias (2019). "*Designing an Information Technology Based Voting Solution for Persons with Visual Impairment in Sri Lanka*", 12th International Conference on Advances in Computer-Human Interactions Athens (ACHI), Athens, Greece, https://www.thinkmind.org/download.php?articleid=achi_2019_7_10_20011, 24th -28th February 2019.
04	M. De Silva, T.A. Weerasinghe, G.K.A. Dias. (2019). "*Information Technology Based Usable Ballot Interface Design for Persons with Visual Impairment in Sri Lanka*". 21st International Conference on Human-Computer Interaction (pp. 211-228). Walt Disney World Swan and Dolphin Resort, Orlando, Florida, USA, Springer, Cham. 26th -31st July 2019. http://2019.hci.international/index.html
05	S.C. Premaratne, K.L. Jayaratne, P. Sellappan (2019),"*A Novel Hybrid Adaptive Filter to Improve Video Keyframe Clustering to support event resolution in cricket videos*", The 8th International Conference on Computer Science and Computational Mathematics (ICCSCM2019), Asian Resort Langkawi, Simpang 3, Jalan Pantai Tengah, Mukim Kedawang, Langkawi, Kedah Darul Aman, Malaysia. 04th to 05th July 2019. http://www.iccscm.com/cms,
06	R.J. Amaraweera, K.P. Hewagamage, K.H.E.L.W. Hettiarachchi (2019), "*An Intelligent Interactive Visualizer to Improve Blended learning in higher education*", Ubi -Media 2019, Bali, Indonesia. 06th to 09th August 2019. http://2019.umediaconf.com,
07	Wasura D. Wattearachchi, K.H.E.L.W. Hettiarachchi, K.P. Hewagamage (2019), "*Critical Success Factors of Analysing User Emotions to Improve the Usability of Systems*", http://2019.umediaconf.com, Ubi -Media 2019, Bali, Indonesia. 06th to 09th August 2019.
08	K.H.E.L.W. Hettiarachchi (2019), "*Analyzing the Impact of Introducing Active Learning in a Blended Educational Environment*", 10th International Conference on Distance Learning and Education (ICDLE 2019), Amsterdam, Netherlands, 28th – 31st October 2019. http://icdle.org/.
09	H.K.T.C. Halloluwa, Dhaval Vyas (2019), "Dhana Labha: "*A Financial Management Application to Underbanked Communities in Rural Sri Lanka*", http://interact2019.org/, The 17th IFIP TC.13 International Conference on Human-Computer Interaction – INTERACT 2019. Paphos, Cyprus, 02nd to 06th September 2019.
10	C.R. Wijesinghe, A.R. Weerasinghe(2019), "Experience on Workflow Management Systems for Data-intensive Bioinformatics among Sri Lankan Scientists", Asia International Conference on Multidisciplinary Research 2019 (AIMR'19), Grand Oriental Hotel, Colombo. 10th to 11th May 2019. www.aimrconference.com
11	D.T. Fernando, D.N. Ranasinghe, "Permissioned Distributed Ledgers for Land Transactions; A Case Study", 17th International Conference on Business Process Management (BPM 2019), Vienna, Austria, 01st to 06th September 2019. https://bpm2019.ai.wu.ac.at/
12	Asanka Sayakkara, Le-Khac, N-A., and Scanlon, M., "Leveraging Electromagnetic Side-Channel Analysis for the Investigation of IoT Devices", DFRWS-USA Special Issue in Elsevier Digital Investigation, 17th July 2019. (Best Student Paper Award)

13	Asanka Sayakkara, Le-Khac, N-A., and Scanlon, M., "A survey of electromagnetic side-channel attacks and discussion on their case-progressing potential for digital forensics", Elsevier Digital Investigation,USA 17th July 2019.
14	Muditha Tissera and A.R. Weerasinghe (2019). "Auto Generation of Gold Standard, Class Labeled Data Set and Ontology Extension Tool". In Proceedings of the Second International Conference on Advanced Computational and Communication Paradigms, Sikkim Manipal Institute of Technology, 25th to 28th February 2019, Sikkim, India.
15	V.U. Wickrmarchchi, C.I. Keppttiyagama, P.V.K.G. Gunawardana,(2019), "Efficiently Transform Contracts Written in Peyton jones contract descriptive language to solidity", 2019 International Conference on Advances in ICT for Emerging Regions (ICTer), UCSC, Colombo 07, 3rd - 4th September 2019. http://www.icter.org/conference/,
16	C.R. Wijesinghe, A.R. Weerasinghe, "Mining frequent patterns in bioinformatics workflows", 6th International Conference on Biomedical and Bioinformatics Engineering (ICBBE 2019), 13 - 15th November 2019, Shanghai, China. www.cbees.org
17	Isura Nirmal, H.A. Caldera, "Classification of web-based recipes using random forests algorithm", International Conference on Science Technology and Management (ICSTM -19), 12th -14th December 2019, Paris, France. https://www.iierd.org/,
18	W.A.S.C. Perera, H.A. Caldera, "Predicting an Optimal Sri Lankan Cricket Team for one-day international matches according to the nature of the game", International Conference on Science Technology and Management (ICSTM -19), 12th -14th December 2019, Paris, France. https://www.iierd.org/.
19	K.P.U. Jayasinghe, D.A.S. Athukorala "Tracking Emotions through Facial Expressions in Online Education Systems Based on Transient Emotion Peak", World Conference on Future Education (WCEFEducation), 12-14th September 2019, Rome, Italy.. https://www.wcfeducation.org/,
20	K.M.H.B. Abeyratne and K.L. Jayaratne (2019), "Classification of Sinhala Songs Based on Emotions", Proceedings of IEEE International Conference on Advances in ICT for Emerging Regions (ICTer 2019), Sri Lanka.
21	S.D.M.H. Siyabalapitiya, R.M.R. Wanigasekera, S.D.S.H. Dissanayake, K.L. Jayaratne and M.I.E. Wickramasinghe (2019), "*Generate Navigations to Guide and Automate Endotracheal Intubation Process*", Proceedings of IEEE International Conference on Advances in ICT for Emerging Regions (ICTer 2019), Sri Lanka.
22	S.S. Thrimahavithana, V.N. Yasodha, M.U. Kannangara, W.V. Welgama and A.R. Weerasinghe (2019), "*Empowering the Text Based Understandability of Students with Hearing Impairments*", Proceedings of IEEE International Conference on Advances in ICT for Emerging Regions (ICTer 2019), Sri Lanka.
23	Nilushan Costa, Malith Jayasinghe, D. A. S. Athukorala, Supun Abeysinghe, Srinath Perera, Isuru Perera (2019), "ADAPT-T: An Adaptive Algorithm for Auto-Tuning Worker Thread Pool Size in Application Servers", Proceedings of IEEE Symposium on Computers and Communications (ISCC 2019), June 30- July 3, 2019, Barcelona, Spain.
24	M.D.R.N. Dayaratne, Thisura Seniya Rathnayake, *"Activity Monitor: A Personal Informatics Application"*, CloudCom 2019, 11th International conference on cloud computing, Sydney, Australia, 11 – 13, 12, 2019 , http://www.swinflow.org/confs/2019/cloudcom/camera.htm ,
25	Dushani Perera, Manisha Rajaratne, S.M.K.D. Arunathilake, K.T. Karunanayake, D.P. Liyanage, "A Critical Analysis of Music Recommendation Systems and New Perspectives", IHIET 020 – 2nd International Conference on Human Interaction & Emerging Technologies: Future Applications, Center Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland,, 23rd - 25th April 2020. http://www.ihiet-ai.org/index.html,

26	R.A.H.D. Perera, "*Towards Human Values Traceability in Software: A Goal Modeling Approach*," 2019 IEEE 27th International Requirements Engineering Conference (RE), Jeju Island, Korea (South), 2019, pp. 446-451. doi: 10.1109/RE.2019.00060 , http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8920551&isnumber=8920391
27	R.A.H.D. Perera, W. Hussain, D. Mougouei, R.A. Shams, A. Nurwidyantoro and J. Whittle, "*Towards Integrating Human Values into Software: Mapping Principles and Rights of GDPR to Values*", 2019 IEEE 27th International Requirements Engineering Conference (RE), Jeju Island, Korea (South), 2019, pp. 404-409. doi: 10.1109/RE.2019.00053, http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8920447&isnumber=8920391
28	L.C. Liyanage, O.S. Weerakoon, S.T. Palliyaguru, G.D.S.P. Wimalaratne, "T*owards Prediction of Landslide Susceptibility using random forest for Kalutara District, Sri Lanka*", 2019 IEEE R10 Humanitarian Technology Conference (R10 – HTC), Depok City, Indonesia, 12th - 14th November 2019. http://r10htc2019.org,
29	Anupama Arukgoda, A.R. Weerasinghe, B.H.R. Pushpananda (2019), *"Improving Sinhala-Tamil Translation through Deep Learning Techniques"*, Proceedings of the 3rd Workshop on Natural Language for Artificial Intelligence co-located with the 18th International Conference of the Italian Association for Artificial Intelligence (AIIA 2019), November 19th-22nd, 2019, Rende, Italy, http://ceur-ws.org/Vol-2521/paper-01.pdf
30	Buddhi Kothalawala, A.R. Weerasinghe, K.V.D.J.P. Kumarasinghe (2019), "*Online Learning for Solving Data Availability Problem in Natural Language Processing*", Proceedings of the 3rd Workshop on Natural Language for Artificial Intelligence co-located with the 18th International Conference of the Italian Association for Artificial Intelligence (AIIA 2019), November 19th-22nd, 2019, Rende, Italy, http://ceur-ws.org/Vol-2521/paper-04.pdf
31	R.S.I. Wilson, A. Ginige, and M.D.J.S. Goonetillake, 2019, *"User Needs-driven Enrichment of Ontology: A case study in Sri Lankan Agriculture*,", ICIT 2019, Shanghai, China, ACM, p. 7, Dec. 20–23,2019, doi: 10.1145/3377170.3377279
32	Janagan Sivagnanasundaram, Athula Ginige and M.D.J.S.Goonetillake, 2019, "*Achieving Agriculture Biotic Sustainability through Mobile-based Information System: Adapting the characteristics of Geographical Information Systems (GIS)*". In 30th Australasian Conference on Information Systems (ACIS 2019), Perth, Australia.
33	Janagan Sivagnanasundaram, Athula Ginige and M.D.J.S. Goonetillake, 2019, "Application of IoT and Crowdsensing to Better Manage Agriculture Pest Outbreaks", In International Conference on Internet of Things Research and Practice (iCIOTRP 2019), Sydney, Australia.
34	Dinuni K. Fernando, Siddharth Kulshrestha, J. Dinal Herath, Nitin Mahadik, Yanzhe Ma, Changxin Bai, Ping Yang Guanhua Yan, and Shiyong Lu (2019), "SciBlock: A Blockchain-Based Tamper-Proof Non-Repudible Storage for Scientific Workflow Provenance", IEEE International Conference on Collaboration and Internet, Los Angeles, CA, USA, December 2019.
35	Dinuni K. Fernando, Jonathan Terner, Kartik Gopalan, Ping Yang (2019), "*Live Migration Ate My VM: Recovering a Virtual Machine after Failure of Post-Copy Live Migration*", in Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2019), Paris, France, April 2019

3.1.11.2 ABSTRACT/POSTER PAPERS PUBLICATION – 2019

01.	S.P.B.M. Senadheera, A.R. Weerasinghe and C.R. Wijesinghe (2019). "Human nervous system cancer mutation analysis from protein sequences and structures". Abstract presented at the 11th Annual Scientific Sessions of the Institute of Biochemistry Molecular Biology and Biotechnology of the University of Colombo, Sri Lanka, 14th June 2019.
02.	S.P.B.M. Senadheera, A.R. Weerasinghe and C.R. Wijesinghe (2019). "Genomic Data Annotation Workflow For SNP Mutations Via Bioinformatics Tools". Abstract presented at the 11th Annual Scientific Sessions of the Institute of Biochemistry Molecular Biology and Biotechnology of the University of Colombo, Sri Lanka, 14th June 2019
03.	S.U. Liyanage, K.L. Jayaratne, M.I.E. Wickramasinghe and A. Munasinghe (2019): Towards an Affordable Virtual Reality Solution for Cardiopulmonary Resuscitation Training, Proceedings of IEEE International Conference on Virtual Reality and 3D User Interfaces (VR), Osaka, Japan, 1054-1055.
04.	Akarshani Amarasinghe, Viraj B. Wijesuriya, Dilshan Ganepola and K.L. Jayaratne (2019): "A swarm of crop spraying drones solution for optimising safe pesticide usage in arable lands": poster abstract, Proceedings of the 17th Conference on Embedded Networked Sensor Systems, New York, NY, USA, 410–411
05	S.P.B.M. Senadheera, A.R. Weerasinghe, C.R. Wijesinghe (2019). Association Rules Identification in Nervous System Tumors Mutation Data. In proceedings of the 3rd SLAAI - International Conference on Artificial Intelligence, 12th December 2019, Belihuloya, Sri Lanka

ICTer 2019

4. Human Resources – Academic and Non-Academic

4. HUMAN RESOURCES – ACADEMIC AND NON-ACADEMIC

Human resources of an organization are the key foundation as well as the most important asset for its development. The University Grants Commission (UGC) and the Department of Management Services (DMS) wanted to conduct the zero cadre review to identify the actual human resource requirement considering the workload of both academic and non-academic staff in the institute. In the past, this was determined based on the number of students. Accordingly, the UCSC Cadre was reviewed and the approval was received for the revised Cadre in 2017.

4.1 UCSC CADRE

In 2016, zero cadre review was carried out and the cadre review manual of the organization was developed for the first time in the history of the organization. Accordingly, the new Cadre manual was approved for the UCSC in 2017. The UCSC annually admits 275 undergraduate students based on UGC Z-Score cut-off marks for two degree programs of 3 years duration. In 2017, UCSC increased the intake by 10% considering the request made by the UGC and the intake size became 300 students. Accordingly, the intake consisted of 200 students for Computer Science Degree and 97 students for the Information Systems Degree in the year 2019. Out of the 200 computer science students, at the end of the second year, the best 40 academically performing students are given the opportunity to be specialized in Computer Science or Software Engineering in the 4th year of study. At the end of the second year, the best 20 academically performing students are provided with an opportunity to be specialized in Information Systems in the 4th year of study.

Simultaneously, UCSC admitted 272 postgraduate students for the Master's Degree programmes as 102 students for Master of Computer Science, 88 students for Master of Information Technology, 30 students for Master of Information Security, 14 students for Master of Cybersecurity and 38 students for Master of Business Analytics. UCSC has over 30 MPhil and Ph.D. Computing Research students under the supervision of the UCSC academic staff members.

The Bachelor of IT (BIT) External degree programme annually attracts around 1500-2000 new students while another 3000 re-sit for the examinations. UCSC conducts short term extension courses and provides expertise in Computing for the organizations of government and private sectors to develop software solutions and solve their problems related to the requirements of Information Technology.

The University of Colombo School of Computing (UCSC) currently has 273 cadre positions attached to twenty (20) units/centres/departments. 105 positions have been filled on a permanent basis and another 86 positions are filled on a temporary basis such as contract, assignment, and daily-paid basis. In the zero cadre review process, UCSC has suppressed some unwanted positions. Although the UCSC requires several nominal positions such as Deputy Director, Department Heads and Centre Coordinators which have been defined in the ordinance of UCSC, those nominal positions do not require fulltime staff members and the permanent academic staff members covers those services.

The salaries for staff, who directly involved in generating income, are paid from the respective funds of those programmes and they are identified in those budgets of projects. The Government budget allocation is used to cover the salaries of staff who engage in undergraduate programmes. However, since the government allocation was not adequate to cover overall fund requirements, the UCSC has to spend its generated income (including previous years savings) to cover 40% - 30% of both recurrent and capital expenditure in 2019.

Table 4.1. A: Summary of UCSC Staff Distribution

Designation Department/ Division/ Unit/ Centre	Approved Cadre	Existing Cadre	
		Permanent	Contract/ Temp/ Assignment *
(1) Director's Office	5	3	1
(2) Establishment Division	8	3	3
(3) General Administration Division	13	3	5
(4) Academic & Publication (Undergraduate) Division	15	8	3
(5) ISE Department (Academic)	55	23	39
(6) CIS Department (Academic)	41	12	
(7) CMT Department (Academic)	50	12	
(8) Finance Division	14	12	4
(9) Examination Division	11	7	4
(10) Advanced Digital Media and Technology Centre (ADMTC)	7	-	3
(11) Centre for Digital Forensic (CDF)	4	1	3
(12) Library	6	3	-
(13) Postgraduate Division	3	3	3
(14) Engineering & Maintenance	11	5	4
(15) Network Operating Centre (NOC)	15	5	6
(16) External Degree Centre (EDC)	11	5	5
(17) Professional Development Centre (PDC)	2	-	1
(18) Computer Service Centre (CSC)	2	-	2
Total	**273**	**105**	**86**

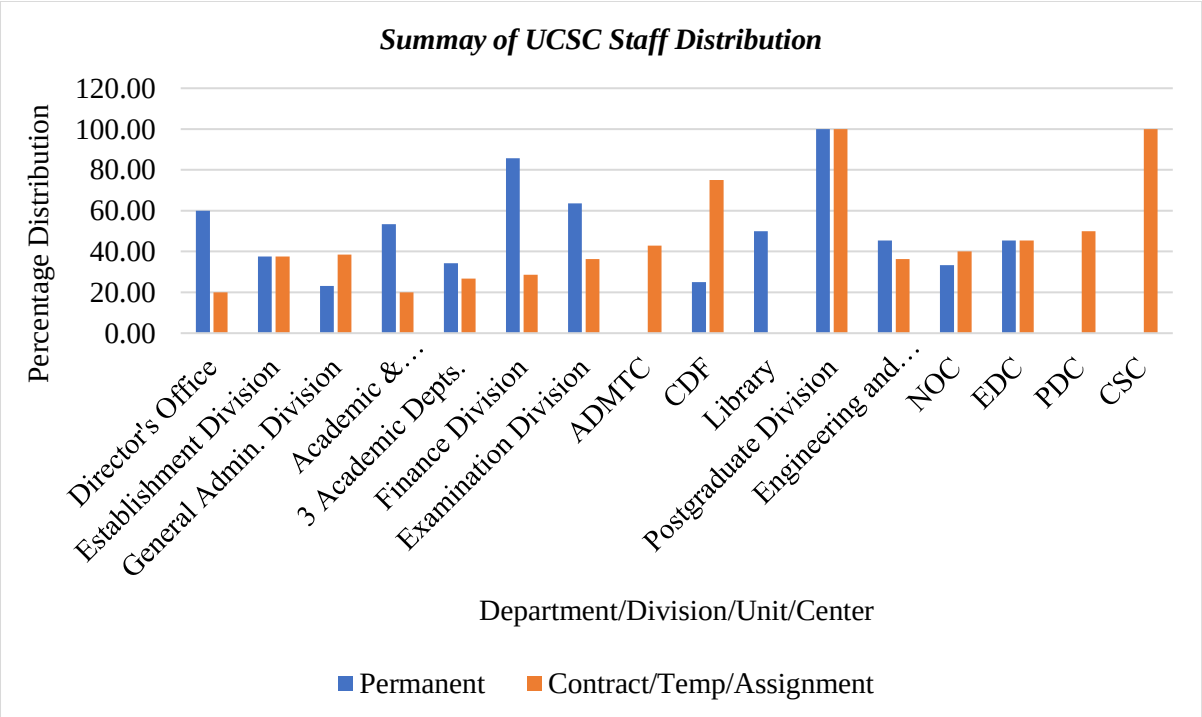
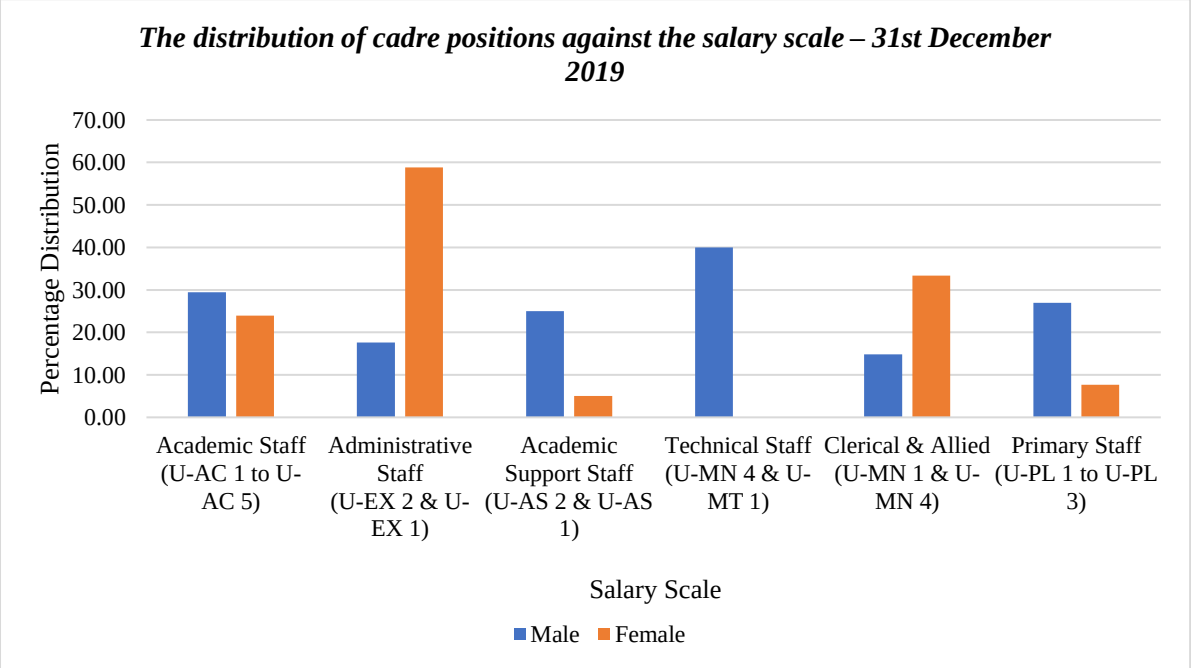


Table 4.1. B: The distribution of cadre positions against the salary scale – 31st December 2019

Staff category	Salary Scale	Approved Cadre	Existing Cadre		
			Male	Female	Total
Academic Staff	U-AC 2 to U-AC 5	93	33	14	47
	U-AC 1	53	10	21	*31
Administrative Staff - Senior	U-EX 2 (a),U EX2(II) & U-EX 1	**13**	**1**	**8**	**9**
Financial Administrative-Senior	U-EX 2 (a),U EX2(II) & U-EX 1	**04**	**02**	**02**	**04**
Academic Support Staff	U-AS 2 & U-AS 1	20	5	1	6
Technical Staff *1	U-MN 4		1		1
	U-MT 1	10	3		3
Clerical & Allied	U-MN 4			4	4
	U-MN 1	54	8	14	22
Primary Staff	U-PL 3	5	0	0	0
	U-PL 2	4	1	0	1
	U-PL 1	17	6	2	8
Total		**273**	**70**	**66**	**136**



In 2019, some vacancies were filled in the Academic cadre appointing Temporary Instructors, Temporary Assistant Lectures and Senior Lecturers & Lecturers on contract basis. Since permanent

non-academic cadre positions were also not filled, UCSC employed temporary staff on contract or assignment basis to cover the duties of different divisions. According to the table 4.1.A, there were 191 staff members working in the organization and there are 82 vacancies existing according to the cadre manual.

Staff	Permanent			Temp./Cont. /Assign.		
	Male	Female	Total	Male	Female	Total
Senior Professor	1	0	1			
Professor	2	0	2			
Senior Lecturer	18	7	25	1	1	2
Lecturer	2	0	2			
Prob. Lecturer	10	7	17	02	0	02
Temporary Lecturer/ Asst. Lecturer				01	10	11
Temporary Instructor				8	20	28
Total	**33**	**14**	**47**	**12**	**31**	**43**

4.2 OVERALL PROFILE OF THE UCSC STAFF

Highest Computing Qualification of the Academic Staff

No. of Staff	PhD	MPhil	MSc	BSc (Hons)
47	27	5	1	14

Highest Academic Qualifications of the Administrative and Finance Staff

No. of Staff	PhD	MPhil	MSc/MBA	Bachelor	Diploma
13	-	1	5	6	0

In 2019, one Academic staff member obtained study leave to read a doctoral degree in a foreign university. Two Academic staff members obtained sabbatical leave.

4.3 RECOGNITION OF UCSC STAFF

In 2019, the Long Service Award was conducted to recognize the staff who have completed more than 25 years of service in the university system. The following staff members received the long service award in 2019.

Table 4.3. A: Long Service Award

Staff Member	Designation	Date of First Appointment	Date of Completion of 25 years or more	Total Service at the University System as at 31.12.2019
Prof. G.K.A. Dias	Professor	01.06.1984	31.05.2019	35 Years
Prof. K.P. Hewagamage	Professor	15.07.1994	14.07.2019	25 Years
Dr. T. Sritharan	Senior Lecturer Gr. I	23.05.1990	22.05.2015	25 Years
Mr. K.P.M.K. Silva	Lecturer	07.04.1994	06.04.2019	25 Years
Mrs. H.D.J. Karunarathna	Senior Staff Management Asst.	01.01.1994	02.01.2019	25 years

4.4 STAFF DEVELOPMENT AND TRAINING

Staff development and training are regarded as an important policy of the human resource development of the organization. Depending on the grade of staff and job requirements, relevant staff was supported using both funds of generating income as well as from government grants. In 2019, the Board of Management approved a new policy on staff development and training to formalize the process.

1. Permanent Academic was supported by the Research and Development allocation to attend the International Conferences, Workshops and Seminars subject to a limit determined based on the seniority of the staff member. Details of all such participants are given in the research section of this report.
2. Depending on the job requirements, the staff was given special training in local organizations during 2019. 21 Staff members were given such opportunity during 2019 and Rs.443,600/- was spent on such training requirements.
3. 11 no. of Senior Academic staff and 4 no. of Junior Academic Staff of UCSC attended the National Information Technology Conference organized by Computer Society of Sri Lanka (CSSL) and Rs. 259,100/- was spent for their participation.
4. In house training programmes were conducted as a group training during 2019. Hence, minutes writing workshop, Google Apps were conducted using both internal and external resource persons.
5. Academic staff who were not permanent were supported to attend ICTer2019 and NICT2019 conferences in order to improve their research and development awareness. Permanent academic staff was also supported to attend those conferences.
6. An outbound training programme together with the development of the strategic plan for 2019-2023 was conducted in September 2019. Three days workshop was organized with the help of welfare society in order to complete the Standard Operating Procedure (SOP) for all the divisions of the UCSC and to improve the social harmony and friendship among the staff. It was a very productive workshop and relevant allocation of generated income was used to finance the activity.
7. In 2019, one administrative staff member was supported to participate in an international workshop in Dubai. Relevant allocation of generated income was used to sponsor for this activity.

4.4.1 MEDICAL SUPPORT SCHEME

The Medical Support Scheme was introduced to the UCSC as a part of the organizational policy of health and safety of the organization. In this Medical Support Scheme, the staff has been given an opportunity to subscribe to one of three schemes that have different supporting limits when medical expenses are incurred. The objective is to support the staff to maintain a good profile of their health conditions by conducting medical camps and partially supporting their medical expenses. The UCSC hopes that this would motivate its employees to increase their productivity in the workplace and provide full cooperation to generate additional income for the organization, specially during working hours. UCSC has also partially supported employees who are interested to obtain Agrahara insurance scheme to face tragic situations in their life, especially in unexpected critical illness. Further, UCSC organized 5 no. of health seminars for all staff during 2019, with the support of Faculty of Medicine, UoC and they are as mentioned below.

1. Dr. Ranil Jayawardena, Faculty of Medicine, UOC were held on 1st January 2019.

2. "Exercise for Healthy Life" by Dr. Chathuranga Ranasinghe, MBBS, Diploma in Sport Medicine, PhD, Senior Lecturer, Specialist in Exercise and Sport Medicine, Faculty of Medicine, UoC on 1st February 2019.

3. "Stress Management" by Prof. Priyanjali de Zoysa, Professor in Clinical Psychology, Faculty of Medicine, UoC on 1st March 2019.

4. Cardiovascular Risk Reduction by Dr. Priyanga Ranasinghe, Faculty of Medicine, UoC on 18th July 2019.

5. Menopause and sexual dysfunction and women's health by Dr. P M Athapaththu, Faculty of Medicine, UoC on 13th December 2019.

4.4.2 WELFARE SOCIETY OF UCSC

The welfare society of UCSC has been a volunteer society for all staff members irrespective of the type and grade of employees. Its main mandate is to support the management when carrying out staff welfare related activities. When an immediate family member of an employee passed away, the welfare society organizes transport facilities to the other staff members to attend it as well as represent the institute in order to support him during such a situation. It also supports the staff member financially or some other ways in such situations. The membership of the welfare society is open for all staff members who have completed at least one year of service at the UCSC and they have to pay a membership fee in order to be a member.

The Welfare Society of UCSC organized several activities to enhance the welfare of UCSC staff members and few of the major activities are as mentioned below.

1. Celebration of the dawn of the year 2019 on 1st January 2019.

2. Organized "Erabadu Vasanthaya" on 11th April 2019.

3. Organized an outbound training programme at Amari, Galle, where the staff of UCSC initialized the preparation of Standard Operating Procedures (SOPs) for their relevant divisions/departments.

4. Organized welfare ceremonies to commemorate the retired and transferred staff members.

5. The staff members' whose close family members passed away were given financial assistance.

Outbound Training Programme

5. Institutional Development

5. INSTITUTIONAL DEVELOPMENT

5.1 QUALITY ASSURANCE AND ACCREDITATION

According to the guidelines given by the University Grant Commission, the University of Colombo established the Internal Quality Assurance Unit (IQAU) as the main centre to coordinate the quality assurance of all faculties and institutes in the university. The Quality Assurance Cell (QAC) of UCSC officially commenced its activities in June 2015 and the initial task was the preparation of the Institutional Review Report. In 2016, a physical place was allocated for the QAC and the first board meeting of the QAC was held on 7th October 2016. The purpose of the QAC of UCSC is to create a culture that seeks to continually improve the quality of all academic and other activities in the Institute.

QAC Committee Members 2019

i. Director - Prof. K.P. Hewagamage, Director/UCSC

ii. Chairperson/Head of the Institute QA Cell - Prof. N.D. Kodikara, Coordinator/QAC

iii. Secretary/QAC – Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II/Secretary/ QAC

iv. Senior Assistant Registrar/QAC - Ms. J.A.M.S. Wijerathna, Senior Assistant Registrar/ PRP

v. Chairperson of the Curriculum & Academic Development Committee - Dr (Mrs) M.D.J.S. Goonetilleke Head/Department of Information and Systems Engineering (ISE), Senior Lecturer Gr I

vi. Heads of Departments

Dr. D.A.S. Athukorala - Department of Computation and Intelligent Systems (CIS)

Dr. G.D.S.P. Wimalaratne - Department of Communication and Media Technologies (CMT)

Dr. (Mrs) M.D.J.S. Goonetillake - Department of Information Systems Engineering (ISE)

vii. Coordinators of the Undergraduate/Postgraduate/External degree programmes

Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. II, Coordinator/Computer Science (CS) Degree Programme

Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Coordinator/Information Systems (IS) Degree Programme

Mr. W.V. Welgama, Senior Lecture Gr. II, Coordinator/Software Engineering (SE) Degree Programme

Ms. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II, Coordinator/CS – Faculty of Science

Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Coordinator/Master of Cybersecurity (MC) Degree Programme

Dr. H.A. Caldera, Senior Lecturer Gr. I, Coordinator/Master of Information Technology (MIT) Degree Programme

Mr. K.P.M.K. Silva, Lecturer, Coordinator/Master of Computer Science (MCS) Degree Programme

Dr. P.V.K.G. Gunawardena, Senior Lecturer Gr. II, Coordinator/Master of Information Security (MIS) Degree Programme

Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II, Coordinator/Master of Business Analytics (MBAnalytics) Programme

Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II, Academic Coordinator/BIT External Degree Programme

viii. Coordinators of the Centres (E-Learning and Professional Development,)

- Dr. (Mrs) T.A. Weerasinghe, Senior Lecturer Gr. II, Coordinator/ e-Learning Centre (eLC)
- Dr. (Mrs) L.N.C. De Silva, Lecturer, Coordinator/ Professional Development Centre (PDC)

ix. DRs/SARs of the school, representing degree programmes, and examination

x. System Developer - Mr. R.J. Amaraweera, Lecturer (Prob)

xi. Assistant System Developer - Mr. S.B. Wickramathilaka, Assistant Lecturer

xii. Management Assistant - Ms N.S. Gajasinghe

The QAC activities carried-out in 2019:

- Undergraduate Programme Review (PR) activities recommenced on 4th April 2019 since the Self-Evaluation Reports (SERs) of Bachelor of Computer Science and Bachelor of Information Systems degree programmes need to be submitted in March 2020. A Programme Review committee comprising of domain coordinators and members for each criterion were composed and relevant evidence is being maintained in both electronic and printed format. SERs were also drafted and several meetings were carried out to review and modify the content of the reports.

- Graduate Profile of the UCSC was modified.

- Dr. (Ms) K.H.E.L.W. Hettiarachchi attended the 15th Biennial International Network for Quality Assurance Agencies in Higher Education (INQAAHE) and the Asia Pacific Quality Network (APQN) conferences held at BMICH-Colombo from 25th to 30th March 2019. This conference enabled us to learn the best QA practices that are being used by the other QA organizations and universities, which can also be adapted to the UCSC QA process.

- Mr. R.J. Amaraweera participated in the workshops of the UOC mentoring establishment program organized by the Faculty of Medicine, University of Colombo.

- Prof. N.D. Kodikara, Dr. (Mrs) M.D.J.S. Goonetillake, Mr W.V. Welgama attended the Programme Review Workshop on Computing and the SER writing workshop conducted by the UGC on 16th August 2019 and 26th November 2019 respectively.

- The peer-review process was implemented from Semester 1- 2019 for undergraduate degree programmes. Two reviewers were appointed for each course. For the first reviewer, the 2nd examiner of each course was appointed, and the second reviewer was nominated by the relevant lecturer of the course after obtaining the consent of the relevant staff member.

- An overall Employability Survey Summary Report was prepared based on the data obtained from the students who graduated with a Bachelor of Information Systems and a Bachelor of Computer Science in the year 2019. Based on the data, it shows that the overall employability rate is 91%.

- Student feedback summary reports for both Undergraduate and Postgraduate courses were prepared and delivered to the relevant lecturers after the reviews carried out by the QAC committee and the Heads/Coordinators of the Undergraduate and Postgraduate degree programmes.

- Student feedback was collected with respect to industry placement carried-out in 2018. The prepared summary reports were reviewed by the QAC committee and shared with the Head/Internal Undergraduate Degree programmes and the Coordinator/Professional Development Centre.

- Student feedback was obtained to evaluate the overall quality of the Postgraduate degree programmes and individual projects.

- Student feedback was obtained from the students who graduated in the year 2019 to evaluate the overall quality of the Bachelor of Information Technology (BIT) degree programme. According to the data, the employability rate of BIT graduates is 87%.

- Associate Prof. Prasad Sethunga was appointed as a Consultant for Quality Assurance to assist in improving the quality assurance and accreditation process of the degree programmes of the UCSC. Several workshops were held with respect to the revision of the graduate profile, and the preparation of the upcoming Programme Reviews.

- The following decisions were taken with respect to 80% attendance of students for the undergraduate lectures.

    - If a student has less than 80% attendance for the 1st time – a letter of advice will be sent
    - If a student has less than 80% attendance for the 2nd time – a letter of warning will be sent
    - If a student has less than 80% attendance for the 3rd time - A suspended punishment by the Director and informs the Council.

5.2 INFRASTRUCTURE DEVELOPMENT

5.2.1 CAPITAL PROJECTS – 2019

The commenced and completed projects of UCSC in 2019 are given in the table below.

Name of the Project	Project Cost (Rs.)	Estimated Cost (Rs.)	Date of Commencement	Actual Date of Completion	Remarks
Construction of outdoor pavilion Procumbent No: UCSC/PROC/W/2018/002	10,385,260.20	9,882,901.00	9/6/2018	10/1/2019	Project Completed
Constructions of internal road @ UCSC premises. UCSC/ENG/C/2019/38	1,207,259.06	2,000,000.00	30/10/2019	30/11/2019	Project Completed
Landscaping work near the medical center @ ucsc UCSC/ENG/C/2019/33	228,881.58	233,000.00	30/10/2019	15/11/2019	Project Completed
Supply, Installation, Testing, Commissioning and maintenance of VRV/VRF air conditioning and ventilation system for the office area and lecture halls of University of Colombo school of computing. Procumbent No: UCSC/PROC/W/2018/003	30,436,687.00	31,248,500.00	21/08/2018	7/5/2019	Project Completed
Supply, delivery, laying and commissioning of electrical cables (stage 2) from MDB to all panel boards of UCSC. Procumbent No: UCSC/PROC/W/2018/001	11,765,245.00	13,404,250.00	14/05/2018	26/10/2019	Project Completed
Supply, Installation, Testing, Commissioning and maintenance of split type air conditioning units for the administrative building office area. Procumbent No: UCSC/PROC/W/2019/001		4,252,975.05	23/09/2019	-	Ongoing project

5.3 DEVELOPMENT OF THE INSTITUTIONAL RECOGNITION

Since the initiation, the UCSC has been providing consultancy services for both public and private organizations. Through these consultancy progammes, it is expected to provide a service to the other government and non-government institutes as well as to make the public aware of our capacities in addition to being the higher education institute for computing studies in Sri Lanka. The following staff members of UCSC was contributed during 2019 to achieve the above objective.

5.3.1. OUTSTANDING AWARDS FOR STAFF MEMBERS

Organizer	Award Name	Awardee
Computer Society of Sri Lanka (CSSL)	Elite Award of ICT Researcher of the year	Dr. S.P. Wimalaratne
Computer Society of Sri Lanka (CSSL)	Elite Award of ICT Educator of the year	Prof. G.K.A. Dias
Lanka Education and Research Network (LEARN)	30 years of continuous service	Dr. D.A.S. Athukorala
Lanka Education and Research Network (LEARN)	30 years of continuous service	Dr. A.R. Weerasinghe
National Science Foundation (NSF)	Technology Awards of Excellence	Prof. K.P. Hewagarnage, Dr. (Mrs) A.Y. Ekanayaka & Ms. J.F. Fazeena
International Conference on Education Technology and Computers (ICDLE 2019), Netherland	Best Presentation Award	Dr. (Ms) K.H.E.L.W Hettiarachchi
Digital Forensic Research Workshop 2019, USA	Best Student Paper award	Mr. A. Sayakkara
Government of Sri Lanka	Local Patent: Smart Distortion Correction Unit for Mobile Projection	D.M.R. Kulasekara, Dr. C.I. Keppitiyagama, Prof. N.D. Kodikara and Dr. K.D. Sandaruwan

5.3.2. CONTRIBUTIONS FROM UCSC STAFF MEMBERS

Name	Organization
Athukorala D.A.S. (Dr.)	• Visiting Lecturer - University of Ruhuna • Technical Evaluation Committee Member ✶ Dept. of Information Technology Management, Ministry of Finance ✶ Sri Lanka Customs ✶ Sri Lanka Tea Board • Coordinating co-chair – International Symposium on Innovative Banking
Botheju N.	• Consultant - Paddy Marketing Board

Dayaratne R.N. (Dr.)	• Technical Evaluation Committee Member ✶ Ministry of Education ✶ Sri Lanka Inventors Commission ✶ Institute of Bankers of Sri Lanka ✶ Telecommunications Regulatory Commissioner of Sri Lanka • Technical Assistant ✶ Online Grant Management System of National Research Council ✶ Sri Lanka Police • Member – Cabinet Sub Committee, Import and Export Control Department
Dias G.K. (Prof.)	• Recruitments – University of Colombo
Fernando M.G.N.A.S. (Dr.)	• Member, Technical Evaluation Committee, Ministry of Education • Member of the program review panel, Ministry of Higher education, technology, and innovation
Halloluwa T. (Dr.)	• Technical Evaluation Committee Member ✶ Ministry of Education • Consultant – Education Employees Co-operative Thrift and Credit Society Ltd. • Recruitments – University of Colombo
Hewagamage K.P. (Prof.)	• Member of Council, University of Colombo • Member of the Board of Management ✶ NILIS ✶ IBMBB • Director - LEARN • Selection Committee Member – UGC Postgraduate Grants 2019 • Selection Committee Member – UOC Selection Boards • Committee Member – Obtaining Tablet Computers for the Census of Population and Housing 2021, Ministry of Economic Reforms and Public Distribution
Jayarathna H.K.	• TEC Member – Postgraduate Institute of Archeology
Jayaratne K.L. (Dr.)	• Member of the Board of Directors, Export Development Board, Ministry of Industrial Export & Investment Promotion, December 2019. • Consultant, Lanka Sathosa Limited, Sri Lanka, December 2019. • Member of the Technical Evaluation Committee, Ministry of Education, Sri Lanka, November 2019. • Chairman of the Technical Evaluation Committee, Ministry of Education, Sri Lanka, September 2019. • Expert Advisor, Counter-Terrorism and Investigation Division (CTID), Sri Lanka Police, August 2019. • Consultant, Postgraduate Institute of Medicine, University of Colombo, Sri Lanka, August 2019. • Member of the Expert Committee, The Implementation of Integrated Tourism Digital Platform (ITDP) to improve Sri Lanka Tourism Industry Growth and Global Security image through a zero cost to the Government of Sri Lanka via Strategic Public-Private Partnership (PPP), Ministry of

	Tourism Development, Wildlife & Christian Religious Affairs, Sri Lanka, July 2019. • Consultant, Dehiwala-Mount Lavinia Municipal Council, Sri Lanka, July 2019. • Consultant, Smallholder Agribusiness Partnership Programme, Sustainable Development Division, Presidential Secretariat, Sri Lanka, July 2019. • Member of the Technical Evaluation Committee, Sri Lanka Police, July 2019. • Member of the Technical Evaluation Committee, Development Lotteries Board, Sri Lanka, July 2019. • Member of the Technical Evaluation Committee, Sri Lanka Police, June 2019. • Member of the Project Committee, Ministry of Transport & Civil Aviation, May 2019. • Member of the Technical Evaluation Committee, Samurdhi Development Department, May 2019. • Member of Interview Panel, People's Bank, April 2019. • Member of the Technical Evaluation Committee, Ministry of Education, Sri Lanka, March 2019. • Member of the Technical Evaluation Committee, People's Bank, February 2019. • Member of the Technical Evaluation Committee, The National Film Corporation of Sri Lanka, February 2019. • Member of the Technical Evaluation Committee, Attorney General's Department, January 2019.
Karunanayake K. (Dr.)	• Consultant – National Insurance Trust Fund Board
Matara Arachchi S.S.P. (Dr.)	• Technical Evaluation Committee Member ✶ Ministry of Education ✶ Gem and Jewellery Research and Training Institute ✶ Department of Labour
Perera D.	• Consultant – Sri Lanka Mahaweli Authority • Member of the Technical Evaluation Committee – Buddhist and Pali University
Ranasinghe D.N. (Dr.)	• Member, Editorial Board of JNSF (upto May 2019) • Member, Steering Committee of the Faculty of Engineering, UoC
Seneviratne G.P.	• Visiting Lecturer – Rajarata University of Sri Lanka
Silva K.P.M.K.	• Visiting Lecturer – Rajarata University of Sri Lanka
Vishwajith M.	• Technical Evaluation Committee Member ✶ University of Kelaniya
Weerasinghe T.A. (Dr.) (Mrs)	• Committee Member of Digital Education Transformation Programme in the Department of Technical Education & Training • Member of Interview Board – SL Accreditation Board for Conformity Assessment
Weerasinghe A.R. (Dr.)	• Member, Local Language Working Group, ICT Agency of Sri Lanka • Member, ICT/BPM Advisory Board, Export Development Board Member, LK • Domain Registry

	• Member, Prof. V. K. Samaranayake Grant Board, LK Domain Registry • Reviewer, Research Grants, National Science Foundation • Reviewer, Research Grants, National Research Council • Chairman, Board of Study for Bioinformatics, IBMBB • Member, Academic Committee, IBMBB • Member, Management Committee, Center for Data Science, Faculty of Science, University of Colombo • Visiting Lecturer, IBMBB • Visiting Lecturer, Faculty of Graduate Studies, University of Colombo • Visiting Lecturer, University of Ruhuna • Co-Founder, Colombo Machine Learning Meetup
Wickramasinghe M.I.E. (Dr.)	• Visiting Lecturer - University of Ruhuna • Technical Evaluation Committee Member • Department of Registration of Persons • Coconut Cultivation Board • Smallholder Tea and Rubber Revitalization Project • Ministry of Education • Greater Colombo Water & Wastewater Management Improvement Investment Programme
De Zoysa T.N.K. (Dr.)	• Member of the Technical Evaluation Committee, Election Commission Council • Consultant – Development Lotteries Board • Consultant – State Mortgage Bank • Visiting Lecturer - University of Ruhuna

5.4 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDG) – 2019

5.4.1 SUSTAINABLE DEVELOPMENT GOALS (SDG)

United Nations Development Programme (UNDP) has identified 17 Sustainable Development Goals (SDG) for improving the living standard of human beings and ensure a green environment with the economic development of the World. In line with the 17 SDGs of UNDP, the Government of Sri Lanka has implemented SDGs for the upliftment of Sri Lanka economy, society, and environment. UCSC management discussed the contribution to SDGs having focused on the Strategic Plan 2019-2023 and the action plan 2019.

5.4.2 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SGD) FOR THE YEAR 2019

GOAL 1: No Poverty

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 Progress	Target by 2030
01	End poverty in all its forms everywhere	UCSC admits undergraduate students including low-income families and contributes to the free education system with a view to reducing the poverty in this country. Both the government funds and generated income of UCSC are used to improve undergraduate education. Students in low-income families follow the programme and UCSC carries out many activities to address their wellbeing including hostels and using its distress funds in order to facilitate their higher education.	300 New students enrolled and the student population of the internal undergraduate programme is over 900. A significant amount of funds were spent to address the welfare of students to facilitate their education	to increase student intake over 500

GOAL 2: Zero Hunger

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
02	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	Subsided canteen for students to provide good quality food at a low price. UCSC established the canteen committee to ensure and monitor the quality of food.	The capacity of students canteen was increased Fund for student distress and welfare was established using a	Improve existing canteen facilities and provide high-quality food for students and staff. Provide financial assistance for low-

		Conduct meetings to solve issues raised by students against the canteen owner and improved awareness of both the staff and students. Promote a paperless environment to reduce solid waste and manage the least plastic waste daily.	percentage of generated income Mahapola and bursary programmes have been introduced for students to meet their day to day meals	income students and in distress situations. Provide loan facilities for the staff who are in distress. Improve activities with respect to staff welfare. Become a paperless organization (at least 90%) Improve the greenery environment in the organization. Carry out ICT research related to e-agriculture.

GOAL 3: Good Health and Well-being

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
03	Ensure healthy lives and promote well-being for all at all ages	UCSC has implemented a Medical scheme for its staff and arranged awareness programmes. The medical center provides medical assistance for UCSC students free of charge and UCSC provides free transport facilities for students up to National Hospital Colombo if required depending on the circumstances. Distress loan scheme facilitates staff to seek funds when they are at distress. Improve the environment safe while maintaining a clean environment to ensure Dengue free and mosquito-free environment. Conduct seminars to improve the knowledge of healthy practices and lifestyle and conducted 5 medical workshops in collaboration with Medical Faculty, UoC. Counselling service to staff and students	UCSC could improve health conditions due to the medical scheme implemented and facility extended by the medical center and awareness programmes among staff and students. The number of Dengue affected persons was decreased in 2019.	Improve the level of satisfaction of staff and students. Enhance current health care facilities for all students & staff by 2030. Improve the counseling service and reduce the number of student and staff obtaining the counseling facilities

GOAL 4: Quality Education

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
04	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	UCSC provides free education, equitable and quality education. Offer followings. 1. Certificate, Diploma and Higher Diploma courses 2. BIT degree for external students 3. FIT programme as the foundation programme for those who are willing to improve their ICT knowledge and skills 4. BSc. Degree programmes for areas in computing (5 degrees) 5. Postgraduate degree programmes in 6 areas of specialization UCSC has fulltime professors and senior academic staff to deliver high-quality teaching and research to students and it has over 90% employability rate among students. Most of the senior academic staff possess PhDs	UCSC has accommodated 300 undergraduates for 2019 from UGC allocation. The current internal undergraduate population is over 900. There are more than 4500 external students registered for the BIT degree programme and there are around 550 following postgraduate degrees in the UCSC during 2019.	Meet quality assurance indicators introduced by UGC from time to time to ensure high-quality education and international standards

GOAL 5: Gender Equality

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
05	Achieve gender equality and empower all women and girls	No gender discrimination in admission and given equal opportunity for higher learning and enjoying any facility of UCSC at all Actions have been taken to empower all women same as male population of UCSC	All women are given equal opportunity for admission and employment	Maintain gender equality policy as existed by 2030

GOAL 6: Clean Water and Sanitation

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
06	Ensure availability and sustainable management of water and sanitation for students and staff	All students and staff were given drinking water facility and sanitary facilities by spending recurrent and generated an income of UCSC	UCSC had given water and sanitary facilities for all staff and students and maintained clean environment. Regular checking of drinking water has been carried out. Refurbishment of washrooms was included in procurement plan of 2020	Ensure drinking water for all students and staff and sanitation facility for all including differently-abled students

GOAL 7: Affordable and Clean Energy

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
07	Ensure access to affordable, reliable, sustainable and modern energy for all	Introduce energy-saving activities and make use of efficient energy. Consider energy saving when acquiring new computers and lab equipment for students and staff	According to the energy saving policy, low consumption bulbs (LED) were used to replace when it is necessary. Monitor the energy usage and was able to save more than 1 million rupees by reducing the energy consumption of 2018.	Save energy by 15% introducing new technology

GOAL 8: Decent Work and Economic Growth

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 Progress	Target by 2030
08	Promote sustained, inclusive and sustainable economic growth, full and productive	Produce quality graduates to contribute to national	The present employability rate of UCSC graduates is over 90%.	Maintain 100% employability and produce competitive, innovative, creative and high-quality graduates

	employment and decent work for all	development of the country. Employability of UCSC graduates to maintain at 100%. Improve the working standard of students and staff.	UCSC has a sustainable growth with respect to its finance in 2019. UCSC has provided a very good working environment to become the best HEI.	through Research & Development (R& D) Stable economical growth in the UCSC irrespective of government funds

GOAL 9: Industry, Innovation and Infrastructure

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
09	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	Upgrade the infrastructure with modern technologies to provide high-quality education for IT graduates based on the industry demand Develop the curriculum of current programmes and start new programmes based on the market requirement Promote innovation as a curriculum as well as extra curriculum activity among students and staff	During 2019, significant funds were allocated for capital expenditure based on the procurement plan. Curriculum development of several degree programmes were carried out New degree programmes in postgraduate studies were started Students have organized several competitions to promote innovative ideas in computing	Innovation will be considered when assessing student performance-based evaluation. Establish environment-friendly sustainable physical and IT infrastructure in the organization. Contribute to the national innovation in Sri Lanka

GOAL 10: Reduced Inequality

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
10	Reduce inequality within and among countries	Conduct English classes for students who are weak in English Conduct tutorial classes among weak students in studies	The current failure rate has reduced from 15% to 10%	Increase the student performance where the majority of students get GPA 2.5 or more

GOAL 11: Sustainable Cities and Communities

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
11	Make cities and human settlements inclusive, safe, resilient and sustainable	Improve the safety of the working environment in all aspects. Facilitates students from rural areas by providing hostels and scholarships. Students and staff conduct workshops for rural schools.	Student society called the exploration club has carried out several projects targeting rural schools. Safe facilities of UCSC building complex have been improved	Improve the e-Learning and blended learning infrastructure to promote distance education through BIT programme

GOAL 12: Responsible Consumption and Production

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
12	Ensure sustainable consumption and production patterns	UCSC follows waste management policies and sends waste for recycling. UCSC considers e-waste disposal process to minimize the environment damages	UCSC monitors the consumption of water, electricity, and resources to minimize the wastage and improve productivity. UCSC was in the process of selecting a collector of e-waste	Manage the consumption of energy and other resources. Obtain the maximum usage of goods/assets before its disposal. Develop policies to manage consumption and practice them. Maintain good waste management and recycling system.

GOAL 13: Climate Action

Goal No.	Description of goal	UCSC activity in line with SDGs	2019 progress	Target by 2030
13	Take urgent action to combat climate change and its impacts	Control usage of goods which have a direct effect on climate change such as different electronic devices, papers, and plastics	Have adopted the policy of using LED over CFL bulbs Actions were taken to minimize the use of papers Actions were taken to minimize the	Achieve the status of green campus

			use of plastic bottles	

GOAL 14: Life Below Water

Goal No.	Description of goal	UCSC activity in line with SDGs	2019 progress	Target by 2030
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	This goal is not related with UCSC Strategic Plan and Action Plan	Not applicable	Not applicable

GOAL 15: Life on Land

Goal No.	Description of goal	UCSC activity in line with SDGs	2019 progress	Target by 2030
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	This goal is not related with UCSC Strategic Plan and Action Plan	Not applicable	Not applicable

GOAL 16: Peace and Justice Strong Institutions

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	Zero tolerance for ragging, sex or gender based violence and staff and students could make necessary complaints if they are victims of such events	All complains about ragging and other types of violence, actions have been taken to maintain the rules and regulations.	Establish the violence free and friendly environment through proper awareness and monitoring system all stakeholders

GOAL 17: Partnerships to Achieve the Goal

Goal No.	Description of goal	UCSC activities in line with SDGs	2019 progress	Target by 2030
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	UCSC has established partnerships with IT industry/organizations locally and globally for the betterment of its students and staff UCSC adopts policies to promote sustainable development	A dedicated center called Professional Development Centre PDC carried out several activities to establish better cooperation with the industry Management of UCSC carried out several activities to promote sustainable development	Achieve the status of green campus with respect to sustainable development goals

6. FINANCE

6. FINANCE

According to the financial regulations, it is required to submit the 2019 annual financial statements within first two months of 2020 after obtaining Board of Management approval. Following extracts in this section are prepared based on those financial statements submitted to the Auditor General and any subsequent changes recognized. Financial Statement was submitted to the Auditor General with the approval of the Board of Management. In this section, we describe and analyze the financial status of the document.

6.1 RECURRENT EXPENDITURE

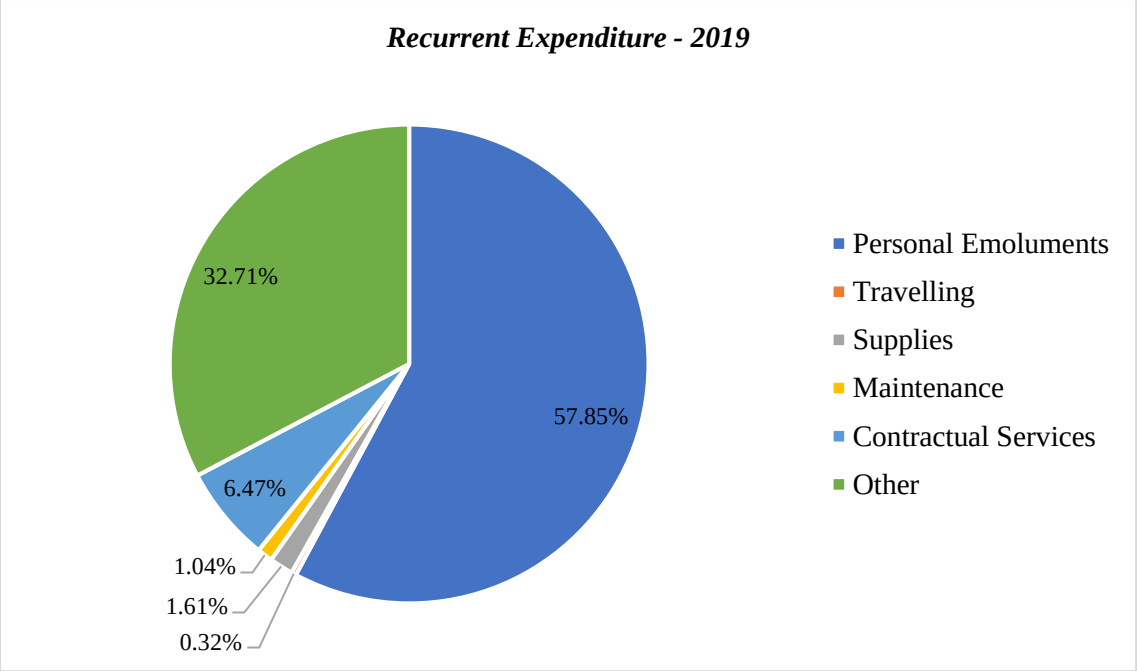
Since the treasury funds are not adequate to meet the requirements of day-to-day operations of the organizations, the generated income has become a vital source of income to carry out the operations of the institute. The main business of the institute is to manage the internal undergraduate programmes, for which 5 days out of 7 days of a week are allocated. Hence, the bulk of recurrent expenditure is directly related to activities linked to undergraduate programme. In 2019, the recurrent expenditure of Rs 449,979/= has been spent per student basis.

In general, the recurrent expenditure is 585.09 million, out of which 248 million was the generated income of UCSC. In other words, 42.36% of the total recurrent expenditure is from UCSC generated income. The major classification of recurrent expenditure is given below in the table (Recurrent Expenditure).

Table 6.1. A: Total Recurrent Expenditure ***Rs. 000'***

Subject	2019	2018	2017
Personal emoluments	338,452	234,711	194,627
Travelling	1,900	533	632
Supplies	9,403	7,411	8,673
Maintenance	6,093	6,525	8,428
Contractual Services	37,836	37,775	38,216
Other	191,415	200,847	164,319
Total	**585,099**	**487,802**	**414,895**
Government Allocation	**337,200**	**198,785**	**164,723**

Due to government decision on increasing the salary, the personal emoluments (salaries of staff) were increased significantly in 2019. Since government, allocation for recurrent expenditure was not enough to cover the personal emoluments, the management was very careful and controlled all the other expenses as you see when you compare figures of 2019 with 2018 in the table of Recurrent Expenditure.

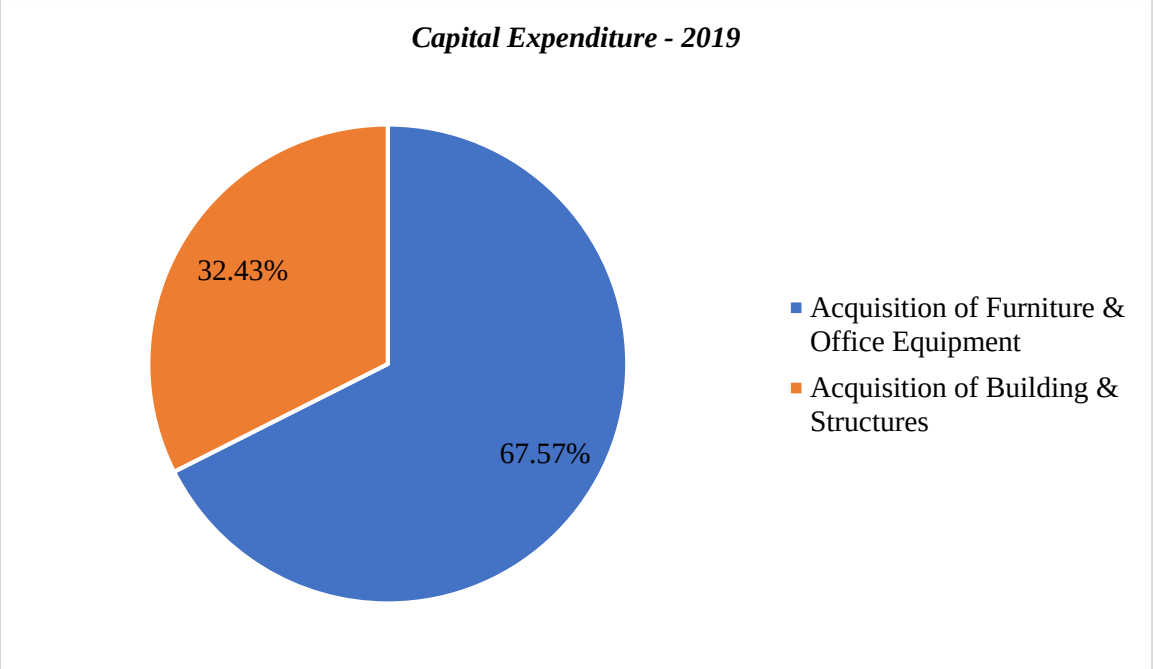


6.2 CAPITAL EXPENDITURE

Due to Government capital grant is insufficient, UCSC generated funds were used to carry out planned activities. During the year capital expenditure is 102.03 million, out of which 33.03 million was the generated income of UCSC. In general, the capital expenditure per student is Rs 113,492/=. Details of capital expenditure are given in the table below (Capital Expenditure).

Table 6.2. A: Capital Expenditure ***Rs. 000'***

Subject	2019	2018	2017
Acquisition of furniture & Office Equipment	68,939	61,579	86,917
Acquisition of Machineries	-	-	-
Acquisition of Building & Structures	33,091	85,628	111,222
Other	-	-	2,681
Total	**102,030**	**147,207**	**200,820**
Government Allocation	**69,000**	**112,250**	**107,450**



6.3 CONSULTANCY AND RESEARCH PROJECTS (EXTERNALLY FUNDED)

All projects are classified as consultancy projects or research projects of the UCSC. Consultancy projects were carried out to provide a service to an outside party. 30% of income generated from consultancy projects are contributed to the UCSC development activities and the balance funds were used to cover the project expenses. If the project amount is large and the principal investigator is requested to contribute to 2-3% of the project funds to staff welfare allocation to cover the indirect contribution of staff members.

Research projects funded by external parties, are carried out based on the agreed objectives. The outcome is usually shared by both institutes and they are published in joint papers. 10% of research projects are charged as the administration charges and the balance is utilized according to the budget prepared by the Principal.

All software development projects are considered as consultancy type projects. Some of these projects are coordinated directly by the individual senior staff members as the principal consultant for those projects. The principal consultant, who is a permanent staff member of UCSC, could obtain the service of anyone on a fulltime or part time basis but the cost of such work should be financed only within the budget of consultancy. The principal consultant should directly report the progress to the Director who is the overall coordinator of those consultant projects since the director signs the relevant service agreement with those external parties subject to concurrence of the Board of Management, UCSC. The software development unit under the computer service centre is the dedicated location for such activities.

Table 6.3. A: Financial Progress of Projects *Rs. 000'*

Type of Project	Budgeted	Invoiced	Received	Expenditures
Research Projects (locally funded)	3,200	3,163	3,163	2,872
Research Projects (foreign funded)	2,500	2,322	2,322	1,026
Consultancy & Software Dev. Type of Projects	6,500	6,484	5,705	2,417
Total	**12,200**	**11,969**	**11,190**	**6,315**

Service Assignments Given by the Government Authorities

According to different parliament acts and government requirements, UCSC was asked to offer services from time to time. The Centre for Digital Forensic (CDF) was supposed to carry out investigations based on the court orders or directives received from other parties. A nominal fee is paid for some assignments but the actual cost incurred by the UCSC is higher than the income of service assignments

6.4 ANALYSIS OF FINANCIAL SUPPORT AND THE GENERATED INCOME

The support of the Government is given only for undergraduate studies but this support is not enough to meet all the requirements of the undergraduate programme. Funds are directly collected from the students of postgraduate and external degree programmes to carry out respective academic activities. Consultancies, projects and service type of assignments given by external parties are charged by issuing invoices. Following table describes the budgeted and received income from different activities of UCSC.

Table 6.4. A: Financial Progress (Budgeted, Invoiced, Received) *Rs. 000'*

Major Income Sources	Budgeted	Invoiced	Received	Variance
Undergraduate Studies	5,875	7,603	7,603	1,728
Postgraduate Studies	80,000	74,066	74,066	(5,934)
Consultancies	5,567	6,484	5,705	138
External Degree	70,036	83,216	83,216	13,180
Other	125,000	118,581	118,581	(6,419)
Total	**286,478**	**289,950**	**289,171**	**2,693**

6.4.1 FINANCIAL PERFORMANCE ANALYSIS

Table 6.4.1. A: Financial Performance Analysis – 2019 *Rs. 000'*

Subject	Formula	Exp. per Student
Recurrent Expenditure per Student (RE)	RE / Total No of Student strength	449,979
Capital Expenditure per Student (CE)	CE Total / No of Student strength	113,492
	Cost per Student	**563,471**

6.4.2 ANALYSIS OF THE FINANCIAL DETAILS OF THE UNDERGRADUATE PROGRAMME

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	2019	%	2018	%	2017	%	2016	%
Personal Emoluments	329,637		228,297		183,495		163,513	
Other Recurrent	66,441		62,666		67,728		51,739	
	396,078		290,963		251,223		215,252	
Recurrent Grant Received	337,200	85	198,785	68	167,862	67	160,000	74
Generated Funds for Recurrent Activities	**58,878**	**15**	**92,178**	**32**	**83,361**	**33**	**55,252**	**26**
Capital Expenditure	102,030		146,829		195,033		175,269	
Capital Grant Received	69,000	68	112,250	76	153,714	79	149,258	85
Generated Funds for Capital Activities	**33,030**	**32**	**34,579**	**24**	**41,319**	**21**	**26,011**	**15**
Total Expenditure (Recurrent + Capital)	498,108		437,792		446,256		390,521	
Total Government Grant	406,200	82	311,035	71	321,576	72	309,258	79
Generated funds for Undergraduate Programme	**91,908**		**126,757**		**124,680**		**81,263**	
Generated Funds utilization as a % of total Expenditure		**18**		**29**		**28**		**21**

6.4.3 COMBINED STATEMENT OF FINANCIAL POSITION AS AT 31ST DECEMBER 2019

		2019	2018
ASSETS	**Note**	**Rs.**	**Rs.**
Current Assets			
Cash & Cash Equivalents	1	127,867,705	83,380,078
Receivables, Deposits & Pre-payments	2	108,909,663	94,312,393
Inventories	3	2,084,031	2,988,578
Total Current Assets		**238,861,400**	**180,681,049**

Intangible Assets	4	19,476,401	4,492,911
Non-Current Assets			
Investments	1.1	870,293,203	748,616,266
Rehabilitation and Improvement of Capital Assets	5.1	39,093,231	38,273,299
Construction Work in Progress		12,395,552	152,000,649
Property, Plant & Equipment	5	691,212,399	556,768,660
Total Non-Current Assets		**1,612,994,384**	**1,495,658,874**
TOTAL ASSETS		**1,871,332,185**	**1,680,832,834**
EQUITY & LIABILITIES			
Current Liabilities			
Accruals & Other Payables	6	140,330,153	110,627,418
Creditors		879,794	20,220,499
Retention		8,795,775	8,536,210
Total Current Liabilities		**150,005,722**	**139,384,127**
Non-Current Liabilities			
Retirement Benefits	7	102,455,503	45,991,433
Total Non-Current Liabilities		**102,455,503**	**45,991,433**
TOTAL LIABILITIES		**252,461,225**	**185,375,560**
TOTAL NET ASSETS / EQUITY		**1,618,870,960**	**1,495,457,275**
Capital and Reserves			
Capital Grant Unspent	8 (A)	943,629	3,458,277
Capital Grant Spent	9 (A)	801,602,353	762,472,881
Project Grants Unspent	8 (B)	9,389,299	12,067,546
Project Grants Spent	9 (B)	8,425,828	8,614,242
Contribution from University of Colombo		8,155,714	8,155,714
Total Grants		**828,516,823**	**794,768,660**
Reserves	10	537,148,315	468,413,542
Revaluation Reserve		35,505,497	35,505,497
Restricted Funds	11	217,700,325	196,769,576
TOTAL NET ASSETS / EQUITY		**1,618,870,960**	**1,495,457,275**

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E.M. Gunarathna
Deputy Bursar

The accounting policies and notes on pages 103 to 125 form an integral part of these Financial Statements. The Members of the Board of Management is responsible for the preperation and presentation of these Financial Statements. These Financial statements were approved by the Board of Management and signed on their behalf.

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Prof. K. P. Hewagamage
Director

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Dr. Ajantha Athukorale
Deputy Director

6.4.4 COMBINED STATEMENT OF FINANCIAL PERFORMANCE AS AT 31ST DECEMBER 2019

	2019	2018
Undergraduate Programme	**Rs.**	**Rs.**
Income		
Government Grant	338,091,970	201,404,530
Generated Fund – Project Income	27,654,735	11,517,430
Deferred Income	62,388,941	49,912,357
Mahapola & Bursary	8,452,750	14,199,000
Other Income	8,923,874	4,706,673
Disposal Profit	155,649	-
	445,667,919	**281,739,990**
Expenditure		
Personnel Emoluments	233,907,111	189,144,829
Traveling Expenses	1,098,450	349,851
Supplies	7,831,693	5,808,036
Contractual Services	41,051,666	39,288,888
Retirement Benefits	95,730,331	39,151,808
Other Recurrent Expenses	16,459,188	17,218,993
Mahapola & Bursary Payments	8,452,750	14,199,000
Total Expenditure before Depreciation	**404,531,188**	**305,161,404**
Add: Depreciation	88,037,171	71,290,059
Total Expenditure after Depreciation	**492,568,359**	**376,451,464**
The deficit from Undergraduate Programme	**(46,900,440)**	**(94,711,474)**
Extension Programme		
Postgraduate Programme-(MSc)	28,791,758	35,931,494
External Degrees Centre -(EDC)	61,417,568	52,964,021
Computing Services Centre-(CSC)	6,909,423	8,623,936
eLearning Centre-(eLC)	13,943,727	10,985,293
Professional Development Centre-(PDC)	(61,216)	(50,158)
Advanced Digital Media Technology Centre-(ADMTC)	2,018,950	(707,228)
Surplus from Extension Programmes	**113,020,210**	**107,747,358**
Projects		
Common Projects	2,436,058	6,649,668
ICTer Conference	1,399,041	(174,216)
Surplus from Projects	**3,835,099**	**6,475,452**
Net Surpluses/(Deficits)	**69,954,870**	**19,511,337**

6.4.5 COMBINED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31ST DECEMBER 2019

	2019	2018 Restated
	Rs.	Rs.
Cash Flows From/ (Used in) Operating Activities		
Surplus / (Deficits) for the Year	69,954,870	19,511,337
Adjustment for:		
Depreciation	91,289,902	75,146,326
Provision for Gratuity	61,491,930	11,490,540
Deferred Income	(63,220,716)	(50,811,647)
Profits /(Losses) from sales of Property, Plant & Equipment	(155,649)	117,535
Interest Income	(80,762,869)	(71,884,936)
WHT Deductions	108,611	136,038
Operating Surplus Before Changes in Working Capital	**78,706,079**	**(16,294,807)**
(Increased) / Decreased in Inventories	943,298	(63,987)
(Increased) / Decreased in Inter Unit Current Accounts	(33,226,000)	(55,133,591)
(Increased) / Decreased in Receivables & Pre- Payments	(5,927,543)	14,008,893
Increased / (Decreased) in Accruals & Other Payables	10,800,584	21,330,616
Increased / (Decreased) in Inter Unit Current Accounts	33,292,890	54,251,031
Net Cash Flow from Operating Activities After Working Capital Changes	**84,589,308**	**18,098,156**
Gratuity Paid	(5,027,861)	(7,638,272)
Paid to UOC	(764,500)	-
Net Cash Generated / (Used) from Operating Activities	**78,796,946**	**10,459,884**
Cash Flows From/ (Used In) Investing Activities		
Acquisition of Property, Plant & Equipment	(68,938,516)	(61,957,497)
Work in Progress- Construction	(29,479,630)	(83,055,582)
Proceeds from Sales of Property, Plant & Equipment	253,160	214,560
Rehabilitation & Maintenance of Property Plant & Equipment	(3,611,326)	(2,193,736)
Received in Interest	71,553,818	64,172,433
Funds Invested in Fixed Deposits	(172,381,198)	(149,319,150)
Withdrawals of Fixed Deposits	50,704,260	61,037,198
Transfer Fixed Deposit to Short Term Investments	-	1,341,153
Net Cash Generated/ (Used) from Investing Activities	**(151,899,432)**	**(169,760,621)**
Cash Flows From / (Used In) Financing Activities		
Capital Grant Received- Government Funds	69,000,000	112,250,000
Capital Grant Received-Generated Funds	30,861,805	36,206,563
Project Grant Received	17,594,765	38,073,429
Transfer to Income from Project Grant Received	(19,595,722)	(30,455,310)
Transfer from Capital Grant to Operating Revenue	(891,970)	(2,679,530)
Net Receipts / Payments from Restricted Funds	20,621,235	12,320,362
Net Cash Generated/ (Used) from Financing Activities	**117,590,113**	**165,715,514**
Net Increase/Decrease in Cash and Cash Equivalents	**44,487,626**	**6,414,776**
Cash and Cash Equivalent at the Beginning of the Year	83,380,078	76,965,300
Cash and Cash Equivalent at the End of the Year	**127,867,705**	**83,380,078**

6.5. STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31ST DECEMBER 2019

Description	Capital Grant Unspent	Capital Grant Spent	Project Grants Unspent	Project Grant Spent	Contribution from University of Colombo	Reserves	Revaluation Reserve	Restricted Funds	Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs
Balance as at 31st December 2017	**4,314,513**	**665,748,903**	**4,917,110**	**9,797,612**	**8,155,714**	**444,634,019**	**35,505,497**	**184,449,217**	**1,357,522,588**
Excess of Income over Expenditure for the Year	-	-	-	-	-	19,511,337	-	-	**19,511,337**
Prior Year Adjustments	25,000	(25,000)	-	(748,696)	-	4,268,186	-	-	**3,519,490**
Deferred Income (Amortization)	-	(49,909,289)	-	(902,358)	-	-	-	-	**(50,811,648)**
Grant Received during the Year	148,456,563	-	37,903,780	-	-	-	-	-	**186,360,343**
Transfer during the Year	(149,337,798)	146,658,268	(30,753,345)	467,685	-	-	-	12,320,359	**(20,644,832)**
Balance as at 31st December 2018	**3,458,277**	**762,472,881**	**12,067,545**	**8,614,243**	**8,155,714**	**468,413,543**	**35,505,497**	**196,769,576**	**1,495,457,276**
Excess of Income over Expenditure for the Year	-	-	-	-	-	69,954,870	-	-	**69,954,870**
Prior Year Adjustments	-	-	-	-	-	(1,220,098)	-	-	**(1,220,098)**
Deferred Income (Amortization)	-	(62,355,011)	-	(865,705)	-	-	-	-	**(63,220,716)**
Grant Received during the Year	99,861,804	-	17,594,765	-	-	-	-	-	**117,456,570**
Transfer during the Year	(102,376,452)	101,484,482	(20,273,012)	677,290	-	-	-	20,930,749	**443,057**
Balance as at 31st December 2019	**943,629**	**801,602,353**	**9,389,299**	**8,425,828**	**8,155,714**	**537,148,315**	**35,505,497**	**217,700,325**	**1,618,870,960**

6.6 UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING- SRI LANKA - POLICIES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31ST DECEMBER 2019

6.6.1. REPORTING ENTITY

Legal and Domicile Form

University of Colombo School of computing (UCSC) is Center of higher learning of the University of Colombo, established under the UCSC Ordinance No. 01 of 2002, and domiciled in No.35, Reid Avenue, Colombo 07, Sri Lanka.

Principal Activities & Nature of operation

To provide computing degree programs to internal undergraduate, external degree and postgraduate programs, conduct research & developments and Consultancy in the field of computing.

Financial Period

The Financial period of the UCSC represent twelve months period from 01st January to 31st December 2019.

6.6.2. BASIS OF PREPARATION OF FINANCIAL STATEMENTS

Statement of Compliance

The financial statements of the UCSC have been prepared in accordance with Sri Lanka Public Sector Accounting Standards (SLPSASs) issued by the Institute of Chartered Accountants of Sri Lanka.

The financial statements comprise the Statement of Financial Position, Statement of Financial Performance, Statement of Changes in Equity, Cash Flow Statement and Notes to the Financial Statements.

The principal accounting policies applied in preparation and presentation of financial statements are set out below. These policies have been consistently applied to all periods presented in the financial statements unless otherwise stated.

Basis of Measurement

The Financial Statements have been prepared on historical cost basis except where appropriate disclosures are made with regard to the fair value clarified by relevant notes.

Comparative Information

Comparative information including quantitative, narrative and descriptive information is disclosed in respect of the previous period for all amounts reported in the financial statements in order to enhance the understanding of the financial statements of the current period and to improve comparability. Comparative figures have been restated to conform to the current year presentation wherever necessary.

Functional and Presentation Currency

The financial statements are presented in Sri Lankan Rupees, which is the functional and presentation currency of the Institute.

Significant Accounting Estimates and Judgements and Assumptions

The preparation and presentation of financial statements in conformity with SLPSASs, requires management to make judgements, estimates and assumptions that affect the application of accounting policies and reported amounts of assets, liabilities, income and expenses. Uncertainty about these assumptions and estimates could result in outcomes that require material adjustments to the carrying amount of assets or liabilities affected in future periods.

Estimates and underlying assumptions are reviewed on an on-going basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

Going Concern

The Financial Statements have been prepared on a going concern basis.

6.6.3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

6.6.3.1 Assets and the Basis of their valuation

1. Property, Plant and Equipment.

a. Recognition and Measurement

(I) Basis of Recognition

Property, plant and equipment are recognized if it is probable that future economic benefits associated with the asset will flow to the university and the cost of the assets can be measured reliably.

(II) Basis of Measurement

All items of property, plant and equipment are initially recorded at cost. Subsequently it will be measured at cost less accumulated depreciation and impairment. Significant components of asset are identified and depreciated separately.

b. Cost

The cost of property, plant and equipment comprises its purchase price and any directly attributable cost of bringing the asset to working condition for its intended use. As previously mentioned Property, plant and equipment are stated at cost, excluding the costs for day-to-day servicing, less accumulated depreciation. Such cost includes the cost of replacing part of the property, plant and equipment when that cost is incurred, if the recognition criteria are met. When significant parts of property, plant and equipment are required to be replaced at intervals, the institute recognizes such parts as individual assets with specific useful lives and depreciates them accordingly.

c. Subsequent Expenditure

Subsequent expenditure incurred for the purpose of acquiring, extending or improving assets of a permanent nature in order to carry on or increase the earning capacity of the assets has been treated as capital expenditure. Expenditure incurred to replace a Component of an item of property, plant and equipment that is accounted for separately, including major inspection and overhaul expenditure, is

capitalized. Other subsequent expenditure is capitalized only if it is probable that the future economic benefits embodied within the part will flow to the University and its cost can be measured reliably.

d. Fair Value

Assets received under the grants have been recognized at fair value.

Impairment of Property, Plant & Equipment

Carrying values of Property, Plant and Equipment are reviewed for impairment when events or changes in circumstances indicate that the carrying value may not be recoverable. The identifiable assets of UCSC are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, the recoverable amount of the asset is estimated and shown in the Statement of Financial Position. The impairment loss is taken to the statement of profit or loss and other comprehensive income.

Gain or Loss on disposal of Property, Plant & Equipment

Gains or losses on disposals of an item of property, plant & equipment are determined by comparing disposal proceeds with carrying amount and related selling expenses. These are included in the income statement.

Revaluation of Property Plant & Equipment

Any revaluation surplus is recognized in other comprehensive income and accumulated in equity in the asset revaluation reserve, except to the extent that it reverses a revaluation decrease of the same asset previously recognized in the income statement, in which case the increase is recognized in the income statement.
A revaluation deficit is recognized in the income statement, except to the extent that it offsets an existing surplus on the same asset recognized in the asset revaluation reserve. Accumulated depreciation as at the revaluation, date is eliminated against the gross carrying amount of the asset and the net amount is restated to the revalued amount of the asset. Upon disposal, any revaluation reserve relating to the particular asset being sold is transferred to retained earnings.

During the year, 2016 UCSC has revalued fully depreciated Office Equipment, Furniture and Fittings and Lab and Teaching Equipment by three internally appointed revaluation committee by the Director. Revalued values are shown in both Financial Statement and Fixed Assets Register. Even though Sri Lanka Public Sector Accounting Standard - 07 Property, Plant and Equipment said that the entire class of Property, Plant and Equipment to which asset belongs shall be revalued, due to practical difficulties only fully depreciated assets were revalued in year 2016.

Depreciation

Depreciation is recognized on all Property, Plant & Equipment on a straight-line basis over the estimated useful lives of such assets. Depreciate all the assets when they are available for use, and depreciation of asset cease when the assets are de-recognized" in accordance with the Sri Lanka Public Sector Accounting Standards (SLPSAS7). If the date of purchasing of asset is not known depreciation is provided for the whole year of the asset acquired or based on most recent month of the assets acquired. The annual rates of depreciation are as follows.

Description	Rate per annum	Useful lives
Buildings & Rehabilitations	5%	20 Years
Office Equipment	20%	05 Years
Laboratory & Teaching Equipment	20%	05 Years
Furniture& Fittings	10%	10 Years
Library books & periodicals	20%	05 Years
Motor Vehicles	20%	05 Years
Electricity	10%	10 Years
Water	10%	10 Years

Capital Work- in- Progress

Capital work-in-progress is stated at cost. These are expenses of a capital nature directly incurred in the construction of property, plant and equipment awaiting capitalization. Capital work-in-progress would be transferred to the relevant asset category in property plant and equipment, when it is available for use. I.e. when it is in the location and condition necessary for it to be capable of operating in the manner intended by the University.

Intangible Assets

As per the requirement of public sector accounting, standard No. 20 (SLPSAS 20) recognized software as intangible assets that are already included in Office Equipment, Lab and Technical Equipment and Rehabilitation and Improvement of Capital Assets account. The Value of Rs.16, 863, 111.25 Software were transferred from previously mentioned accounts to Software account in year 2018. The annual rate of software amortization is as follows.

Description	Rate per annum	Useful lives
Software	20%	05 Years

3. Inventories

Inventories have been valued at cost and the cost was determined based on first in first out (FIFO) method. The cost includes expenditure incurred in acquiring the inventories and bringing them to their existing location and condition.

4. Cash and Cash Equivalents

Cash and cash equivalents are defined as cash in hand, demand deposits and short-term highly liquid investments, readily convertible to known amounts of cash and subject to insignificant risk of changes in value. For the purpose of Statement of Cash Flow, cash and cash equivalents consist of cash in hand, deposits in banks and banks overdrafts. Investments with short maturities i.e. one year or less from the date of acquisition are also treated as cash equivalents.

6.6.3.2. Liabilities & provisions

a. Liabilities

All known liabilities as at the date of statement of financial position are included in the financial statements and adequate provisions are made for liabilities which are known to exist, but the amount of which cannot be determined accurately.

Obligations payable on demand or within one year of the date of statement of financial position are treated as current liabilities in the statement of financial position. Liabilities payable after one year from

the date of statement of financial position are treated as non-current liabilities in the statement of financial position.

b. Provisions

A provision is recognized in the statement of financial position when the Institute has an obligation as a result of a past event, it is probable that an outflow of assets will be required to settle the obligation and the obligation can be measured reliably. No provision has been made in the accounts with regard to liabilities arising out of litigation for which outcome is uncertain.

c. Provision for Retiring Gratuity

Provision for gratuity was made in accordance with Gratuity Act No.12 of 1983. Although employees should complete a minimum period of five years of continued employment to qualify for gratuity payments.

Under the above act, provision has been made from the commencement of the employment by assuming that all employees intend to continue in employment to at least five years. The policy for the calculation of Gratuity has been changed based on UGC commission circular 05/2019 on 04th June 2019. Accordingly, Academic Allowance of the academic Staff and Monthly Compensation Allowance (MCA) of the Non-Academic Staff have been considered in addition to the basic Salary and Cost of Living allowance of the Employee. Hence, Gratuity Expenses for the year has been increased by approximately Rs.52.30 Mn. with compare to the previous year.

d. University Provident Fund (UPF)

The University and employees contribute 15% or 07% and 10% respectively, on the salary of each employee to the approved provident fund.

e. Employees' Trust Fund (ETF)

The University contributes 3% of the salary of each employee to the Employees' Trust Fund.

f. University Pension Fund
The University contributes 08% of the salary of eligible employees to the University Pension Fund.

6.6.3.3. Accounting for the receipt and utilization of funds, grants and reserves

Revenue consists of Government Grant, UGC Grants, income generated from internal sources and external grants provided by various donors and Institutes. Restricted funds are invested on fixed in state banks. Usage is restricted for the specific purpose for which the fund was established.

6.6.3.4. Statement of Financial Performance

Revenue Recognition

Revenue is recognized to the extent that it is probable that the economic benefits will flow to the university that it can be reliably measured.

Government Grant (Recurrent)

All government grants pertaining to recurrent expenditure are recognized at the time of actual funds received. Rs. 337,200,000.00 received as Recurrent Grant during the year.

Government Grant (Capital)

Grant relating to construction of buildings and purchase of property, plant and equipment are included in non-current liabilities as deferred income and are credited to the income statement on a straight-line basis over the expected life of the related activities. During the year, Rs. 69 Mn. received as Capital Grant and out of this grant, Rs. 891,970.00 has been transferred to Recurrent Grant due to incurred recurrent nature Research expenses.

Course Fee

Course fee is recognized over the period of academic program. Where adequate information is not available to make such allocation to different financial periods, fees are recognized as income on cash basis. Postgraduate intake 2019/2020 academic program commencement was delayed till end of June 2019. Hence, course fee of the previously mentioned batch was recognized only two quarters (03rd and 04th Quarter) for the financial year 2019.

Fees on Computing Service

Fees on computing services provided are recognized only on the completion of work.

Investment Income

Interest Income related to UCSC fixed deposits are accounted on accrual basis.

Hostel Fee

Hostel fee collected from student were accounted on cash basis as logically impracticable to apportion among financial years.

Expenditure Recognition

The expenditure has been analyzed by Program /project/object wise and all expenses incurred in respect of undergraduate education have been charged to the government recurrent grant.

All expenditure incurred in the acquisition, or improvement of assets of a permanent nature in order to carry on or increase the learning capacity of the students has been treated as capital expenditure.

6.6.3.5. Statement of Cash Flows

The statement of cash flows has been prepared in accordance with SLPSAS. The method used to prepare cash flow is "indirect Method".

6.6.3.6. Events after the Reporting Period

The materiality of events occurring after the reporting period has been considered and appropriate adjustments, wherever necessary, have been made in the accounts. Accordingly, Rs. 420,000.00 (Rs.30, 000 x 14) which was include on Advanced Course Fee Account as at 31.12.2019 has been returned during the month of January and February due to canceled short course name “Ruby on Rails”.

6.6.3.7. Foreign Currency Transaction

Transaction currencies other than Sri Lankan rupees are converted in to Sri Lankan rupees at rates, which are prevailing at the date of transactions. Gain and losses resulting from the settlement of such translation and from the translation of monetary assets and liabilities denominated in foreign currencies

are recognized in the income statement. Monetary assets and liabilities denominated in foreign currencies are translated at exchange rate prevailing on the balance sheet date.

6.6.3.8. Receivables

Receivables are stated at the amounts that they are estimated to realize.

6.6.3.9. Combined Financial Statements

UCSC has prepared its combined financial statements by combining all its accounts of units/ centers established under Ordinance No. 01 of 2002.

6.6.3.10. Other Disclosures

13.1 UCSC is an Institute that established under Ordinance No. 01 of 2002 and located inside the premises of University of Colombo.

13.2 Two ex- employees namely, Mr. S A D S P Jayathilaka and Mr. S D Muthukudaarachchi have filed cases against UCSC and UCSC filled a case against Mr. S J Paheerathan. Court proceedings are being continued.

S/N	Name of the Complainer	Case	Case Filed by	Court	Current status
1	Mr. SADSP Jayathilaka Lecturer (Probationary)	LT2/ 473/2014	Mr. SADSP Jayathilaka	Labour Tribunal	Case Lay-by
2	Mr. SADSP Jayathilaka Lecturer (Probationary)	SC Spl LA Application No. 77/2019	Mr. SADSP Jayathilaka	Supreme Court	This case was called 27th September 2019 in the Supreme Courts, Mr. Prasanna EkenayakeI appeared on behalf of Director/UCSC. Counsel for the UOC informed that he has not received the Court of Appeal brief filed by the Petitioner, accordingly the petitioner was directed to serve these documents on all respondents. The next date 17th February 2020.
3	Mr. S D Muthukudaarachchi Electrician Gr. II	LT8/857/2015	Mr. SD Muthukudaarachchi	Labour Tribunal	Case lay – by

4	Mr. S D Muthukudaarachchi Electrician Gr. II	1. MC204024/01/2015 2.. 41685/01/2015 3. 41686/01/2015	Fraud Bureau	Colombo Chief Magistrate's Courts	Case is handled by Fraud Bureau. Mrs. PKC Senerath, SAR/Legal appeared before the courts on behalf of the UCSC on 25th September 2019. Next hearing date will be 29.01.2020
5	Mr. S J Paheerathan Lecturer (Probationary)	DMR/07902/10	UCSC	District Court Colombo	Had the consultation with Attorney General Department on 09.12.2019, next hearing date of this case is 26.01.2020

13.3 Following academic staff members have violated the bond agreements as mentioned below and at present UCSC has taken steps to recover outstanding.

S/N	Name & Designation of Bond Violator	Nature of Termination & Date of Termination	Bond Value (Rs.)	Total Value of Bond & Other Dues to the UCSC (Rs.)	Amount Received as at 31.12.2019 (Rs.)	Due amount as at 31.12.2019 (Rs.)
1.	Mr. SJ Paheerathan Lecturer	Vacation of Post 11.01.2004	3,221,250.55	3,615,837.00 (included UPF loan of Rs. 389,880.00+ Distress loan Rs. 137,648.00+ salary lieu in notice Rs. 46710.00+Library books Rs.128,551.25)	1,949,094.59 (After deducting UPF loan of Rs.389,880.00, the amount UCSC received)	1,666,742.41 (without interest)
2.	Mr. R Senanayake Lecturer (Probationary)	Vacation of Post 01.01.2006	641,007.15	798,588.54 (Revised bond value according to the personal file - Rs. 716,831.40+ salary lieu in notice Rs.81,757.14)	Rs. 510175.01	288,413.53 (without interest)
3.	Mr.HM Siriwardhana Lecturer Probationary	Vacation of Post 01.01.2018	2,619,437.40	Rs.3,932,672.43	Gratuity was calculated and amount of Rs.271,650.00 has kept under UCSC.	Rs.3,932,672.43

14. Related Party Transaction

No related party transaction was identified during the year except inter unit current account transactions.

15. Segment Reporting

Undergraduate Programme- This consists undergraduate academic activities of the institute.

Postgraduate Programme (MSc.) - This consists postgraduate course activities and research fund activities of the Institute.

External Degree Programme (EDC) - This consists Bachelor of information Technology external degree activities of the institute.

Computing Service Center (CSC) - This consists training program, consultancy services and related activities.

E Learning Center (e LC) - This unit facilitates the digital transformation of teaching-learning process by integrating e-learning practices. It is a service Centre of the UCSC to support undergraduate, postgraduate and external and extension degree programed.

Advance Digital Multimedia Center (ADMTC) - This consists of activities and training programs related to advanced multimedia Technologies and web design.

ICTer Conference - International Conference of Advances in ICT for Emerging Regions (ICTer) will be held on every year by UCSC. Aim of the conference is the presentation of selected papers. In addition, the conference will include several keynote addresses by leading personalities of International repute in the domains of Computer Science and ICT. The conference will include several pre and post-conference workshops conducted by top experts in the innovative areas of Computer Science and Information and Communication Technology.

Professional Development Center (PDC) - This unit established to ensure the quality of career competencies of UCSC undergraduates by enhancing professional skills, morality, ethical awareness and ethical behaviour. The center will offer training/awareness programs for UCSC undergraduates on current trends in the IT industry, industrial practices and career paths in various disciplines.

Common Projects- This unit consists of various external project related activities**.**
Total Assets and Total Liabilities of the segment report included intercompany current Account Balances.

16. Payment of Mahapola Scholarship

Under the re- structuring of Mahapola Scholarship monthly installment payment directly credited to student bank A/C by Mahapola Trust Fund form April 2019 based on information submitted by University of Colombo School of Computing. Hence, UCSC has not made any Mahapola Payment since April 2019.

15.1 Segment Information **Rs.**

Year Ended 31st December 2019	Undergraduate	M.Sc.	EDC	CSC	eLC	ADMTC	PDC	Projects	ICTer	Total
Revenue	338,091,970	74,066,000	83,216,463	9,869,000	5,678,245	3,200,000	-	19,595,722	710,075	**534,427,475**
Interest Income	1,320,478	25,290,773	35,130,218	3,813,135	9,703,260	1,246,388	-	3,623,749	634,868	**80,762,868**
Deferred Income	62,388,941	-	4,215	-	71,855	-	-	755,705	-	**63,220,716**
Other Income	43,866,530	4,371,725	3,211,357	7,201,276	3,970,322	3,331,053	-	5,237	1,975,513	**67,933,013**
Total Revenue	**445,667,919**	**103,728,498**	**121,562,253**	**20,883,411**	**19,423,682**	**7,777,441**	**-**	**23,980,412**	**3,320,457**	**746,344,073**
Personnel Emoluments	233,907,111	703,780	2,886,926	1,273,706	1,844,106	1,345,208	-	9,238	-	**241,970,074**
Travelling	1,098,450	707,819	24,653	30,940	8,406	6,083	100		23,487	**1,899,938**
Supplies	7,831,693	172,856	815,055	218,872	63,380	117,395	13,481	94,000	76,689	**9,403,421**
Contractual Services	41,051,666	580,615	1,508,449	262,621	296,543	228,915	-	-	-	**43,928,810**
Retirement Benefits	95,730,331	-	338,674	195,063	217,749	-	-	-	-	**96,481,817**
Other Recurrent Expenditure	24,911,938	72,251,243	54,117,501	11,909,520	2,760,001	2,962,171	47,635	20,684,095	1,771,140	**191,415,244**
Depreciation	88,037,171	520,427	453,427	83,265	289,771	1,098,719	-	757,021	50,100	**91,289,901**
Total Expenses	**492,568,359**	**74,936,741**	**60,144,685**	**13,973,988**	**5,479,955**	**5,758,491**	**61,216**	**21,544,354**	**1,921,416**	**676,389,204**
Surplus/ (Deficit)	***(46,900,440)***	***28,791,758***	***61,417,568***	***6,909,423***	***13,943,727***	***2,018,950***	***(61,216)***	***2,436,058***	***1,399,041***	***69,954,870***
Total Assets	**833,234,725**	**609,014,698**	**512,235,917**	**83,513,717**	**128,160,172**	**19,742,848**	**98,474**	**85,851,070**	**8,819,394**	**2,280,671,015**
Total Liabilities	**483,524,690**	**87,722,525**	**23,430,664**	**9,713,293**	**5,762,270**	**11,426,946**	**4,699,086**	**35,348,535**	**172,050**	**661,800,060**

NOTE -01 CASH AND CASH EQUIVALENTS

	2019	2018
Short Term Investment	Rs.	Rs.
Fixed Deposit - Undergraduate	10,000,000	-
Fixed Deposit -ADMTC	14,200,196	10,600,057
Fixed Deposit - Postgraduate	25,007,789	6,720,994
Fixed Deposit - eLC	37,186,764	33,622,540
Fixed Deposit - ICTer	4,496,471	4,150,432
Fixed Deposit - Common Projects	4,208,498	11,192,652
Sub Total	**95,099,719**	**66,286,675**
Bank Current Accounts		
Balance as per Cash book - Undergraduate	16,158,777	1,414,231
Balance as per Cash book - EDC	1,288,572	2,214,742
Balance as per Cash book - Postgraduate	3,497,587	3,463,810
Balance as per Cash book - CSC	3,330,405	1,046,282
Balance as per Cash book - PDC	98,474	46,209
Balance as per Cash book - ADMTC	2,633,780	2,178,397
Balance as per Cash book -eLC	1,834,084	3,854,382
Balance as per Cash book -ICTer	500,000	1,083,647
Balance as per Cash book -Common Projects	3,426,307	1,791,703
Sub Total	**32,767,986**	**17,093,403**
TOTAL	**127,867,705**	**83,380,078**

	2019	2018
NOTE 01.01 LONG TERM INVESTMENT	Rs.	Rs.
Undergraduate	13,373,583	3,173,866
Postgraduate	345,999,384	315,043,168
EDC	341,272,444	287,444,247
CSC	37,756,755	34,249,470
eLC	64,002,074	51,159,465
Common Projects	65,524,412	55,313,950
ICTer	2,364,551	2,232,100
TOTAL	**870,293,203**	**748,616,266**

NOTE - 02 RECEIVABLES, DEPOSITS AND PRE-PAYMENTS

	2019 Rs.	2018 Rs.
Loans & Advances		
Staff Loans	25,160	20,740
Distress Loans	17,129,750	14,135,378
Vehicle Loans	360,322	323,501
Computer Loans	76,500	39,000
Festival Advances	22,900	27,900
Salary Advance	16,000	-
Special Advance	4,400	4,000
Supplies Advance	953,083	-
Rent Receivable	-	700,000
Mahapola Receivable	-	1,301,050
Bursary Receivable	-	193,900
Student Union A/C	-	110,000
Deposits		
United Motors Ltd.	15,000	15,000
Associated Motorways Ltd	5,000	5,000
Lanka Communication Services (Pvt) Ltd	15,000	15,000
Sri Lanka Telecom - IDD - Telephone NO. 587239	20,000	20,000
Refundable Deposit -ANCL	97,500	97,500
Rent Deposit -Battaramulla Hostel	945,000	451,500
Rent Deposit -Kohuwala Hostel	120,000	120,000
Rent Deposit - External Degree Centre	-	810,000
Felix Perera & Sons- Fuel	85,275	85,275
Refundable Deposits	4,144,000	4,105,000
Other Refundable Deposits	-	9,000
Water Mart Systems (Pvt) Ltd	16,000	16,000

Other Receivables

Stamps	107,936	67,436
Interest Receivable	78,915,599	64,982,393
Sundry Receivable	3,314,633	3,587,692
UCSC Medical Scheme A/C	-	14,284
Welfare Receivable	605,351	113,539
National Science Foundation	747,500	747,500
Dept. of Examination	900,025	900,025
Registrar General's Department	50	50
University Grant Commission	100,000	100,000
Registration Fee Receivable	3,000	972,303
Pre-payments	164,679	222,427
TOTAL	**108,909,663**	**94,312,393**

NOTE - 03 INVENTORIES

	2019 Rs.	2018 Rs.
Stationery - Central stores	2,017,760	2,742,624
Stock of fuel	66,271	245,954
TOTAL	**2,084,031**	**2,988,578**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING
NOTES TO THE COMBINED FINANCIAL STATEMENTS AS AT 31ST DECEMBER 2019

NOTE - 04 INTANGIBLE ASSETS

	2019 Rs.	2018 Rs.
Software		
Cost:		
Balance as at 01.01.2019	**16,863,111**	**-**
Acquire/ Transfer During the Year	19,241,235	16,863,111
Disposal During the Year	-	-
Balance as at 31.12.2019	**36,104,346**	**16,863,111**
Amortization:		
Balance as at 01.01.2019	**12,370,200**	**-**
Acquire/ Transfer During the Year	-	10,189,028
Amortize During the Year	4,257,745	2,181,172
Disposal During the Year	-	-
Balance as at 31.12.2019	**16,627,945**	**12,370,200**
Net Value as at 31.12.2019	**19,476,401**	**4,492,911**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

NOTES TO THE COMBINED FINANCIAL STATEMENTS AS AT 31ST DECEMBER 2019

NOTE - 05 PROPERTY, PLANT AND EQUIPMENT

Description	Laboratory & Technical Equipment	Library Books & Periodicals	Furniture & Fittings	Office Equipment	Motor Vehicles	Buildings	Electricity Connection	Water Supply System	Total
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Cost:									
Balance as at 01.01.2019	**311,587,881**	**11,156,413**	**64,808,724**	**222,717,893**	**12,204,894**	**444,948,011**	**-**	**-**	**1,067,423,816**
Add:									
Purchases During the Year									
- Government Grant	24,863,728	358,163	4,021,547	19,895,853	-	-	-	-	**49,139,291**
- Projects/ Other	-	-	-	557,990	-	-	-	-	**557,990**
Transfer from Working Progress	-	-	-	35,975,682	-	85,552,427	24,748,216	22,808,402	**169,084,728**
Less:									
Disposals During the Year	(3,277,912)	-	(274,189)	(5,970,389)	-	-	-	-	**(9,522,490)**
Balance as at 31.12.2019	**333,173,697**	**11,514,576**	**68,556,082**	**273,177,029**	**12,204,894**	**530,500,439**	**24,748,216**	**22,808,402**	**1,276,683,336**
Provision for Depreciation:									
Balance as at 01.01.2019	**246,132,610**	**9,279,816**	**24,686,906**	**157,164,491**	**9,979,895**	**63,411,440**	**-**	**-**	**510,655,157**
Prior Year Adjustment	86,767	(86,767)	-	-	-	-	-	-	-
Add:									
Depreciation During the Year									
- Government Grants	26,406,580	679,593	5,138,437	19,942,242	600,000	26,370,914	318,676	2,280,840	81,737,282
- Projects/ Other	513,716	6,162	695,618	1,287,984	-	-	-	-	2,503,480
Less:									
Disposals During the Year	(3,277,912)	-	(235,752)	(5,911,315)	-	-	-	-	(9,424,979)
Balance as at 31.12.2019	**269,861,761**	**9,878,804**	**30,285,210**	**172,483,401**	**10,579,895**	**89,782,354**	**318,676**	**2,280,840**	**585,470,938**
Net Book Value as at 31.12.2019	**63,311,936**	**1,635,773**	**38,270,873**	**100,693,628**	**1,624,999**	**440,718,085**	**24,429,541**	**20,527,562**	**691,212,399**
Net Book Value as at 31.12.2018	**41,726,120**	**1,277,609**	**34,523,514**	**50,234,492**	**1,624,999**	**355,165,658**	**-**	**-**	**484,552,392**

NOTE 5.01 REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS

Rs.

Cost:	**UCSC**	**MSc**	**EDC**	**ADYTA**	**Total**
Balance as at 01.01.2019	**47,820,879**	**5,033,170**	**7,190,242**	**7,794,779**	**67,839,070**
Add: Purchases During the Year	3,611,326	-	-	-	3,611,326
Balance as at 31.12.2019	**51,432,205**	**5,033,170**	**7,190,242**	**7,794,779**	**71,450,396**
Provision for Depreciation:					
Balance as at 01.01.2019	**14,963,732**	**5,033,170**	**3,235,608**	**6,333,259**	**29,565,770**
Add: Depreciation During the Year	2,042,144	-	359,512	389,739	2,791,395
	17,005,877	**5,033,170**	**3,595,120**	**6,722,998**	**32,357,166**
Net Book Value as at 31.12.2019	**34,426,328**	**-**	**3,595,122**	**1,071,780**	**39,093,231**
Net Book Value as at 31.12.2018	**32,857,146**	**-**	**3,954,634**	**1,461,519**	**38,273,298**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

NOTES TO THE COMBINED FINANCIAL STATEMENTS AS AT 31ST DECEMBER 2019

NOTE -06 OTHER CURRENT LIABILITIES

	2019 Rs.	2018 Rs.
Stamp duty Payable	19,300	16,050
Prof. Athula Ginige A/C	389,911	389,911
PAYE Tax Payable	46,230	24,447
WHT Payable	12,200	86,399
Amalgamated Club Fee	304,900	177,325
Student Union	781,251	653,676
Student Charter Fee	29,500	11,500
DF Lab Project Balance	-	81,000
VSS Grant Received	21,000	21,000
Advance Received on Courses	64,953,500	33,804,751
Refundable Library Deposits- M.Sc.	5,857,500	6,230,000
Library Fee Received in Advanced	3,656,250	2,283,750
Refundable Library Deposits - M.Phil.	77,500	77,500
Refundable Deposits	129,000	129,000
Refundable Registration fee	-	72,975
Refundable Bid Security	25,000	52,000
Refundable Deposit- S Manamperi	-	75,000
Wijaya Construction	-	1,092,748
Career Fair	98,349	208,349
NOC Payable	423,500	423,500
Student Distress Allocation Payable	-	300,000
Provision for Audit Fee	2,279,675	1,559,303
Salaries Payable	3,126,089	2,120,560
Other Accrued Expenses & Payables	19,898,870	16,605,219
University Provident Fund Payable	803,734	508,059
Staff Insurance Recovery	16,370	167,350
Contribution to Medical Scheme	8,359,489	7,370,061
Medical Fee	1,711,801	1,397,701
Staff Development	12,273,305	11,650,702
UCSC Infrastructure Development	8,131,384	9,131,505
HETC Payable - DMUI Dissanayake	-	6,502
HETC Payable - S Thadchanamoorthy	-	27,579
HETC Project Advance	3,616,245	3,621,767
CDF Allocation	81,000	-
Consultancy Fee payable	-	967,437
Employees' Provident Fund payable	-	19,021
Employees' Trust Fund Payable	96,448	60,967
Provision for Electricity	2,400,000	8,706,485
Cancelled Cheque	195,088	185,820
Provision for Cleaning Service	440,762	310,000
Canteen Deposit	75,000	-
Provision for Hostel Telephone Charges	-	500
TOTAL	**140,330,153**	**110,627,418**

NOTE - 07 RETIREMENT BENEFITS

	Undergraduate Rs	EDC Rs	CSC Rs	eLC Rs	Total Rs
Balance as at 01.01.2018	**41,815,305**	**196,397**	**557,657**	**734,002**	**43,303,361**
Additions During the Year	11,384,186	24,986	15,040	66,328	11,490,540
Payments During the Year	(6,692,085)	-	(420,897)	(525,290)	(7,638,272)
Over/ Under Provision	(957,441)	(10,333)	(136,760)	(59,662)	(1,164,196)
Balance as at 31.12.2018	**45,549,966**	**211,050**	**15,040**	**215,378**	**45,991,433**
Additions During the Year	61,326,810	103,048	20,554	41,518	61,491,930
Payments During the Year	(5,027,861)	-	-	-	(5,027,861)
Balance as at 31.12.2019	**101,848,916**	**314,098**	**35,594**	**256,896**	**102,455,503**

NOTE 08

NOTE 08 (A)

	2019 Rs.	2018 Rs.
CAPITAL GRANT - 101 ACCOUNT -UNSPENT	-	-
Rehabilitation and Improvement of Capital Assets		
Opening Balance	**-**	**25,008**
Capital Grant Received	36,750,000	66,000,000
	36,750,000	66,025,008
Expenditure incurred	(33,090,957)	(63,345,478)
Transfer to Acquisition of Property, Plant & Equipment	(2,767,073)	-
Transfer to operating Revenue	(891,970)	(2,679,530)
SUB TOTAL	**-**	**-**
CAPITAL GRANT - 102 ACCOUNT-UNSPENT	-	-
Acquisition of Fixed Assets and Constructions		
Opening Balance	**169,650**	**212,467**
Grant Transferred	2,767,073	-
Capital Grant Received	32,250,000	46,250,000
	35,186,723	46,462,467
Expenditure Incurred	(35,186,723)	(46,292,817)
SUB TOTAL	**-**	**169,650**
GENERATED FUNDS FOR CAPITAL- UNSPENT		
Opening Balance	**3,288,627**	**4,077,038**
Prior Year Adjustment	-	25,000
Capital Grant Received	30,861,804	36,206,563
	34,150,431	40,308,601
Expenditure Incurred	(33,206,802)	(37,019,973)
SUB TOTAL	**943,629**	**3,288,627**
GRAND TOTAL OF GOVT. GRANT AND GEN. FUND CAPITAL GRANT UNSPENT AS AT 31.12.2019	**943,629**	**3,458,276**

NOTE 08 (B)

PROJECT GRANTS - UNSPENT	2019 Rs.	2018 Rs.
Opening Balance	12,067,546	4,917,110
Grant Received during the year	17,594,765	37,903,779
	29,662,311	42,820,889
Less: Grant spent on		
- On Capital/ Other	(677,290)	(298,035)
- On Recurrent (Current Year)	(19,595,722)	(30,455,310)
SUB TOTAL	**9,389,299**	**12,067,546**
GRAND TOTAL OF PROJECT GRANTS UNSPENT AS AT 31.12.2019	**9,389,299**	**12,067,546**

NOTE 09

NOTE 09 (A)	2019	2018
CAPITAL GRANT - 101 ACCOUNT -SPENT	Rs.	Rs.
Rehabilitation and Improvement of Capital Assets		
Opening Balance	**91,764,819**	**29,397,520**
Expenditure Incurred	33,090,957	63,345,478
	124,855,776	92,742,998
Amortization During the Year	(1,123,159)	(978,179)
SUB TOTAL	**123,732,617**	**91,764,819**
CAPITAL GRANT - 102 ACCOUNT-SPENT		
Acquisition of Fixed Assets and Constructions		
Opening Balance	371,298,909	372,854,809
Expenditure Incurred	35,186,723	46,292,817
	406,485,632	419,147,626
Amortization During the Year	(60,149,459)	(47,848,717)
SUB TOTAL	**346,336,173**	**371,298,909**
GENERATED FUNDS FOR CAPITAL- SPENT		
Opening Balance	297,617,679	260,622,706
Prior Year Adjustment	-	(25,000)
Expenditure Incurred	33,206,802	37,019,973
	330,824,481	297,617,679
Amortization During the Year	-	-
SUB TOTAL	**330,824,481**	**297,617,679**
IT GRANT -SPENT		
Opening Balance	**1,791,474**	**2,873,867**
Expenditure Incurred	-	-
	1,791,474	2,873,867
Amortization During the Year	(1,082,393)	(1,082,393)
SUB TOTAL	**709,081**	**1,791,474**
TOTAL CAPITAL GRANT SPENT AS AT 31.12.2019	**801,602,353**	**762,472,881**

NOTE 09 (B)	2019	2018
PROJECT GRANTS - SPENT	Rs.	Rs.
IDRC PROJECT CAPITAL GRANT - SPENT		
Opening Balance	**978,477**	**978,477**
	-	-
SUB TOTAL	**978,477**	**978,477**
COMMON PROJECT/ OTHER GRANTS -SPENT		
Opening Balance	**7,321,259**	**8,512,589**
Spent During the Year	677,290	298,035
	7,998,549	**8,810,624**
Prior Year Adjustment of Amortization	-	(748,696)
Amortization During the Year	(755,705)	(740,669)
SUB TOTAL	**7,242,844**	**7,321,259**
UGC GRANT-SPENT		
Opening Balance	**166,582**	**-**
Spent During the Year		169,650
	166,582	**169,650**
Amortization During the Year	(33,930)	(3,068)
	132,652	**166,582**
NeLC GRANT -SPENT		
Opening Balance	**147,924**	**306,546**
Amortization During the Year	(76,070)	(158,622)
SUB TOTAL	**71,854**	**147,924**
TOTAL PROJECT GRANTS AS AT 31.12.2019	**8,425,828**	**8,614,242**

NOTE - 10 RESERVES

	2019 Rs.	2018 Rs.
Balance as at 01.01.2019	**468,413,543**	**444,634,020**
Prior Year Adjustments	(1,220,097)	4,071,765
Over/Under Provision of Gratuity	-	196,422
Surplus / (Deficit) for the Year	69,954,870	19,511,337
Balance as at 31.12.2019	**537,148,315**	**468,413,543**

NOTE - 11 RESTRICTED FUNDS

BIT Award	50,780	48,937
Allocation for BIT Development	23,543,418	16,714,952
Prof V.K. Samaranayaka Award	239,645	231,045
Prof V.K. Samaranayaka Endowment Fund	16,264,948	15,071,271
Donor Fund for Disable Student	30,054	30,054
Allocation for Research & Development	143,581,966	136,274,136
Allocation for Staff Development	2,758,000	2,758,000
JICA Award	164,928	164,928
THA De Soyzsa Award	226,504	200,000
Allocation for Equipment Replacement	2,318,411	2,318,411
Best e Lerner Award	310,618	-
Co-Ordinator/Staff Development Allocation	131,003	131,003
Virtusa Academic Excellence	311,506	283,120
Sheoria Robustra Scholarship - 1	725,920	622,348
Sheoria Robustra Scholarship - 2	762,790	700,952
Allocation for Student's Distress Fund	6,543,864	5,767,125
Best Performance Award -Motorola	166,355	158,930
Best Performance Award -IFS	161,177	505,127
Best Performance Award -Sampath Bank	166,649	159,274
Prof. Mohan Munasinghe Award -1	69,339	66,919
Prof. Mohan Munasinghe Award -2	66,849	62,632
CINTEC Award	123,656	117,741
David Peiris Medal	733,871	695,194
L N C De Silva Research Grant	-	72,030
Mrs. Soma Gunathilake Memorial Award	244,498	224,804
Mrs. Wimala Jayarathne Memorial Award	254,299	231,840
Scholarship from Other Parties	84,850	25,000
Bond Value Recovery A/C	17,664,425	13,133,802
TOTAL	**217,700,325**	**196,769,576**

INTER UNIT CURRENT ACCOUNTS

Unit	Undergraduate	ADMTC	Postgraduate	EDC	CSC	PDC	ICTer	eLC	Projects (Common)	Total
Debit Entries										
Undergraduate	-	-	194,861,314	125,444,652	28,800,540	-	1,121,983	2,589,256	-	352,817,745
Postgraduate	-	224,750	-	-	5,645,053	-	-	-	947,654	6,817,457
EDC	-	-	34,101	-	-	-	-	18,109,846	2,510,500	20,654,447
CSC	-	-	-	6,662,123	-	-	-	112,000	1,303,402	8,077,525
ADMTC	7,499,127	-	-	2,008,558	1,162,952	-	-	-	23,257	10,693,894
eLC	-	2,500	-	-	-	-	-	-	654,093	656,593
ICTer		-	100,000	-	-	-	-	5,000	-	105,000
PDC	3,699,931	18,000	600,000	118,922	262,184	-	-	-	-	4,699,036
Projects (Common)	4,767,138	-	-	-	-	-	-	-	-	4,767,138
Total	**15,966,195**	**245,250**	**195,595,415**	**134,234,254**	**35,870,729**	**-**	**1,121,983**	**20,816,102**	**5,438,906**	**409,288,834**
Credit Entries										
Undergraduate	-	7,499,127	-	-	-	3,699,931		-	4,767,138	15,966,196
Postgraduate	194,861,314	-	-	34,101	-	600,000	100,000	-	-	195,595,415
EDC	125,444,652	2,008,558	-	-	6,662,123	118,922	-	-	-	134,234,254
CSC	28,800,540	1,162,952	5,645,053	-	-	262,184	-	-	-	35,870,729
PDC	-	-	-	-	-	-	-	-	-	-
eLC	2,589,256	-	-	18,109,846	112,000	-	5,000	-	-	20,816,102
ADMTC	-	-	224,750	-	-	18,000	-	2,500	-	245,250
Projects (Common)	-	23,257	947,654	2,510,500	1,303,402	-	-	654,093	-	5,438,906
ICTer	1,121,983	-	-	-	-	-	-	-	-	1,121,983
Total	**352,817,744**	**10,693,894**	**6,817,457**	**20,654,447**	**8,077,525**	**4,699,036**	**105,000**	**656,593**	**4,767,138**	**409,288,834**

7. UCSC Highlights 2019 Visibility, Events and Activities

7. UCSC HIGHLIGHTS 2019 – VISIBILITY, EVENTS AND ACTIVITIES

The UCSC Web site is the main portal to communicate the key highlights of the institute. In 2019, UCSC web site has further improved considering the main theme of the University of Colombo. It has a dual-domain URL, namely **http://www.ucsc.cmb.ac.lk** and **http://www.ucsc.lk**. All major activities and events taken place monthly is informed to the Board of Management and the Senate of the University of Colombo to maintain the visibility of progress and issues of institutes. UCSC website is also linked with social networks to update the activities of the organization to the public. Following table shows the key highlights of 2019 with respect to each month.

7.1 MONTHLY HIGHLIGHTS - ACTIVITIES, EVENTS, AND PROGRAMMES

Month	Activities
January 2019	• 1st – Read the Government oath on government service by employees at the University of Colombo in line with the New Year Celebration main function lead by the Vice-Chancellor and • 1st - Seminar on improving health conditions for the UCSC staff by Dr. Ranil Jayawardena, Faculty of Medicine, UOC. • 2nd – facilitate to conduct Dynamics 365 Conference organized by Dyanmics 365 Saturday at the UCSC Auditorium • 4th - Registration of new undergraduates for the academic year 2017/2018 intake of CS and IS • 8th – Lunchtime talk on Research areas of Autonomic Cloud" by Dr. Rafiul Ahad, the Vice President of software development at Oracle Corporation • 8th – Public Talk by Dr. Rafiul Ahad, the Vice President of software development at Oracle Corporation at the Auditorium • 14th and 18th – conducted blended learning workshops by e-Learning Centre • 13th and 19th – started 2nd batch for the certificate course on JAVA application Development using JAVA SE • 17th – Inauguration of new undergraduate intake for the academic year 2017/2018 • 18th - UCSC Pirith Ceremony - 2018 • 18th to 25th – Mr. K.M.U. Prasanna of UCSC had participated to the International Cricket Tournament at PES University, Bangalore, India organized by the UOC • 21st – facilitate to conduct "SAESM 2018" organized by the Dept of Economics, UOC at the UCSC Auditorium • 21st – Commencement of Orientation Programme for Undergraduate Students (Academic Year 2017/2018) • 27th – facilitate to conduct "Excellentia 2019" organised by AIESEC student group of UOC at the UCSC Auditorium • 27th – Registration of new undergraduate for BIT intake at UCSC • 31st – Dr. E. Hettiarachchi and Ms Buddhika, eLC attended the training session on SCOPUS, conducted by Elsevier at the Auditorium, Main Library, University of Colombo
February, 2019	• 1st – Conducted 2nd seminar for UCSC staff on "Exercise for Healthy Life" by Dr. Chathuranga Ranasinghe, MBBS, Diploma in Sports

	Medicine, Ph.D., Senior Lecturer, Specialist in Exercise and Sports Medicine, Faculty of Medicine • 8th – "ශිල්ප යාත්‍රා" organised by exploration club of UCSC Student – handing over the Hasanga Somarathne" Memorial Science Laboratory of N/Halmillakotuwa Junior School • 8th hold AGM of IEEE Computer society student branch chapter of UCSC • 9th - CEST LA VIE 2019 - Going Down Event by 4th-year students of UCSC at the Ceynor Foundation, Maradana • 9th - Girl's Talk February Meet up - Come and learn Flutter • 9th – Hold Annual General Meeting 2019 of the UCSC ISACA Student Group • 18th – conducted a workshop on "Google Drive" to the staff of UCSC • 28th - Opening ceremony of the UCSC-Creative Software R&D Center
March, 2019	• 1st – Conducted a seminar for the UCSC staff on "Stress Management" by Prof. Priyanjali de Zoysa, Professor in Clinical Psychology, Faculty of Medicine • 1st - Hold the Annual General Meeting of UCSC Welfare Society • 1st - Hold the Annual General Meeting of UCSC IEEE WIE Student Branch Affinity Group • 3rd - Certificates awarded for 20 participants who successfully completed the training course on JAVA Application Development using JAVA SE • 9th - Certificates awarded for 23 participants who successfully completed the training course on JAVA Application Development using JAVA SE • 14th - Released results on Higher Diploma in Information Technology • 15th - Sponsored the International Symposium on the Global Dialogue on Wildlife Trafficking 2019 • 17th - Certificates awarded for 15 participants who successfully completed the training course on Graphic Design & Creativity Development • 19th Visited a high-level delegation of Faculty of Informatics, Kyoto University, and conducted Research Seminar to develop collaboration between the Faculty of Informatics, Kyoto University, and UCSC, University of Colombo • 19th - Special Award received from ISACA to Prof. K. P. Hewagamage for his contribution as the academic advocate years representing UCSC during the last 10 years • 20th - Participation of Staff Cricket Tournament – University of Colombo at UoC Grounds • 23rd - IEEE WIE Student Branch Affinity Group of UCSC organized Girls Only Inter-University Hackathon • 27th - Guest Speech on the application of deep learning techniques to graph-structured data e.g. GraphCNN, CascadeLSTM by Mr. Sameera Horawalavithana, Research Student, University of South Florida
April 2019	• 2nd - Mr. Roshan Rajapakse (Lecturer) and a team of students of UCSC participated in Innovate Sri Lanka Exhibition which is organized by the University of Sri Jayawardenapura, to present Facial Reconstruction Research Project at the BMICH • 4th - Conducted a workshop on LMS Bootcamp: Moodle for academic staff of South Eastern University (A Capacity Development) at the UCSC • 10th - Delivered a Guest Speech on Machine Learning and Description by Dr. Chandra Balasubramanian, Adjunct Professor from School of lT Indian Institute of Technology, Delhi.

	• 8th - Aptitude Test to select UGC intake for the BSc in Information System Degree programme was conducted for 1900 candidates • 11th - Staff of the UCSC celebrated new year "Erabadu Vasanthaya 2019" • 22nd - Started F2F sessions of Master of Cybersecurity programme for 14 International Participants
May, 2019	• 4th - Completed F2F sessions in semester 1 of Master of Cybersecurity programme for 14 International Participants • 2nd - Conducted BIT curriculum review meeting • 14th - Conducted undergraduate programme review workshop for quality assurance • 21st - Facilitated to conduct an Awareness session on crisis management due to the current security situation by STF at the UCSC Auditorium • 22nd - Conducted a Workshop on Application of 80/20 theory for enhancing work performance to the administrative staff of UCSC by Mr. Rukshan Perera • 27th - Released the aptitude test results of Information Systems (IS) selection test for the university entrance • 29th - Conducted e-test for KPMG recruitments by eLC
June 2019	• 1st - Awarded certificate for 13 participants who successfully completed the certificate course on Fundamentals of IT for Beginners • 1st - Started a certificate course on Java Application Development using JavaSE for 28 participants • 1st - eLC conducted a recruitment examination of Technical Officer for SLAB • 19th - Buddhabiwandana 2019 - Bakthi Geetha Ceremony by the students of UCSC • 19th - Conducted FIT syllabus revision workshop with SMEs • 22nd - Inauguration of the Postgraduate Programme • 22nd & 23rd - Conducted BIT 1st-semester examinations in Colombo, Jaffna, Kandy and Galle centres • 22nd - Started a certificate course on Java Application Development using JavaSE for 35 participants • 24th to 27th - Conducted FIT Exam for FIT registered students • 28th - Conducted Google workshop for academics of the University of Colombo • 29th & 30th - Conducted BIT semester examinations in Colombo, Jaffna, Kandy and Galle centres • 29th - Awarded certificate for 19 participants who completed the certificate course on Software Quality Assurance
July 2019	• 6th & 7th - Conducted semester five examinations of BIT in Colombo and Kandy & Started a short course on Graphic Design & Creativity Development for 18 participants • 15th - Started semester examinations for internal undergraduates • 17th - Conducted a programme review workshop for the quality assurance of 2020 • 18th – Conducted the 4th seminar for the UCSC staff on Cardiovascular Risk Reduction by Dr. Priyanga Ranasinghe, Faculty of Medicine & Conducted FIT Revision Workshop • 20th - Awarded 25 certificates to the participants of a short course on Java Application Development Using JavaSE • 22nd - Conducted "සංගීත සෑදෑ ගී දැහැන" by the staff of UCSC. A common activity organized by UCSC staff

	• 23rd & 24th - Hold General Convocation at the BMICH and the UCSC student S S Withanage won "Student of the Year" award at the convocation - Conducted FIT Revision Workshop. This is the first time, the UCSC student won a award at a convocation after prevailing criteria had been revised • 31st - Conducted Quality Assurance Workshop on Graduate Profile
August 2019	• 2nd - Conducted a workshop "LMS Administration" to the staff members of National Water Supply and Drainage Board by e-Learning Centre • 3rd - Started a short course on Graphic Design and Creativity Development by Advance Digital Media Technology Centre (ADMTC) • 5th Carried out e-Test for staff confirmation of Non-Academic in the grades of Computer Application Assistants (CAAs), Clerks, Library Assistants and Management Assistants of the University of Colombo and UCSC • 7th & 8th - Conducted a practical test of FIT programme by e-Learning Centre • 9th - Conducted the second workshop "LMS Administration" to the staff members of National Water Supply and Drainage Board by e-Learning Centre • 10th - Hold Award ceremony for Diploma & Higher Diploma in Information Technology and Diploma in Electronics and Automation Technology (Faculty of Science) at the Prof. V.K. Samaranayake Auditorium, UCSC • 11th - Awarded 32 certificates to the participants who successfully completed the short course on Java Application Development using JavaSE coordinated through Computer Service Centre (CSC) • 11th - Started short course on Advanced Multimedia Web Designing and Development Techniques by Computer Service Centre (CSC) • 18th - Hold the external degree Convocation of the University of Colombo for Bachelor of Information Technology, Bachelor of Science in Electronics and Automation Technology and Bachelor of Science in Financial and Engineering degree programmes conducted by the UCSC and Faculty of Science at the Prof. V.K. Samaranayake Auditorium, UCSC • 20th - Conducted a workshop for FIT Curriculum Development • 23rd – 25th - Conducted a review workshop on Masters Programme for teachers of the programme at the Ranweli Holiday Village, Waikkal, organized by the postgraduate division. This is pre-planned and approved annual programme of UCSC • 26th – 28th - Conducted e-Tests for FIT registered students by the e-Learning Centre • 31st - Started a certificate course on Java Application Development using JavaSE for 35 participants by the Computer Service Centre (CSC)

September, 2019	• 1st - Started two short term certificate courses: Java SE for 34 participants & Software Quality Assurance for 28 participants
	• 2nd -
	  • Hold Prof. V.K. Samaranayake Memorial Oration by Prof. Mahendran Velauthapillai, Georgetown University, Washington, USA
	  • The Inauguration of the 19th IEEE International Conference on Advances in ICT for Emerging Regions (ICTer2019)
	  • Conducted two Pre Conference workshops
	  • Building your own chatbot: the hard way made easy by Dr. A.R. Weerasinghe at University of Colombo School of Computing
	  • Hands-on Guide to Building an IoT Enabled Architecture by Mr. Charitha Goonetilleke and Mr.Lasantha De Zoysa, Entgra.

	• 3rd & 4th -
	  • Hold the 19th IEEE International Conference on Advances in ICT for Emerging Regions (ICTer2019)
	  • 3 Keynotes speeches on 3rd October
	  • Establishing Communication, Non-Destructive Monitoring and the complexity of an Inverse Problem in a Sensor Network by Prof. Mahendran Velauthapillai, Georgetown University, Washington, DC
	  • Navigating our way through the challenge of Artificial Intelligence by Dr. A.R. Weerasinghe at University of Colombo School of Computing
	  • Grounded Design: An approach to design for underserved communities by Dr. Dhaval Vyas , University of Queensland
	  • 2 Keynotes speeches on 4th October
	  • The risks and opportunities of Big Data in the modern world by Dr. Buddy Liyanage, Thames Water, UK
	  • Implementing scalable IoT Architectures at enterprises by Mr.Sujith Christy at MAS Holdings
	• 5th -
	  • Conducted three Post Conference Workshops
	  • Big Data – Managing risks and opportunities by Dr. Buddy Liyanage, Cyber Security Manager, Thames Water, United Kingdom
	  • Installing and configuring the Galaxy Platform for Bioinformatics data analysis by Dr. Nuwan Goonasekara, University of Melbourne
	  • Resilience through Privacy in Cyberspace by ISACA
	• 6th - Visited Conference Trip at Madugaga, Galle - Conducted a w/s for National Water Supply and Drainage Board by eLearning Centre
	• 8th - Awarded 14 certificates who have successfully completed a short course on Graphic Design & Creativity Development
	• 12th to 14th - Conducted workshop on Standard Operating Procedure (SOP) for UCSC & Outbound training program for UCSC Staff at Amari, Galle
	• 16–19th - LMS workshop for Rajarata University by eLearning Centre
	• 20th - Conducted a workshop for National Water Supply and Drainage Board by eLearning Centre
	• 26th - Conducted YCS Project Evaluation - 1st Round

October 2019	• 3rd - FIT syllabus Reviewing workshop conducted by the eLC • 4th - Conducted a Guest Lecture by Mr. Suresh Surenthiran of Swaziland • 5th - Started short course on Fundamentals of IT for 29 participants • 6th - Started a short course on Computing for Career Development for 28 participants • 7th - Conducted YCS Project Evaluation - Final Round • 12th - Awarded 18 certificates who have successfully completed the short course on Graphic Design & Creativity Development • 18th - Invited Speech- Prof. Aruna Senevirathne - Conducted a w/s for National Water Supply and Drainage Board by eLearning Centre • 19th - Special Workshop on developing MCQs by eLC • 21st & 22nd - Students Interviews for the Distress Fund Scholarships • 25th - UCSC/Oracle Academy Session • 26th - Hacktoberfest 2019 conducted by the students of UCSC • 27th - iHack 2019 conducted by the students of UCSC - Awarded 19 certificates who have successfully completed the short course on Advanced Multimedia Web Design & Development Techniques for 19 participants • 28th - UCSC Career fair organized by the 4th year students of UCSC

November 2019	• 1st - Conducted a workshop to the operational level Staff of UCSC who are engaging duties at Labs and lecture halls "How to Operate/Use Modern Equipment"
	• 2nd 3rd 9th, 23rd & 24th - Conducted BIT semester examinations in Colombo, Kandy, Galle and Jaffna
	• 4th - QAC Workshop
	• 9th & 10th - The IEEE Computer Society Student Branch Chapter of UCSC organized IntelliHack 2019, the first-ever machine learning hackathon in Sri Lanka
	• 9th - Awarded 34 certificates who successfully completed the short course on Java Application Development using JavaSE
	• 10th -
	  • Awarded 33 certificates who successfully completed the short course on Java Application Development using JavaSE
	  • Awarded 25 certificates who successfully completed the short course on Software Quality Assurance using Test Automation Frameworks
	  • Awarded 08 certificates who successfully completed a Training Program on Web Development (Joomla)
	• 19th & 20th - Conducted a Workshop "BIT Curriculum Revision" at the UCSC
	• 25th – 29th - Facilitated to conduct Asian Universities Alliance Youth Forum @ Prof V.K. Samaranayake Auditorium
	• 29th - Conducted institute meeting for BIT teaching institute at the UCSC
	• 30th -
	  • The IEEE Student Branch of UCSC organized an Inter-University Gaming Hackathon "GameRush"
	  • Started a new batch of a short course on Java Application Development using JavaSE

December 2019	• 1st -The IEEE Student Branch of UCSC organized an Inter-University Gaming Hackathon "GameRush"
	• CSC started a new batch of Java Application Development using JavaSE
	• 4th -UCSC facilitated the Department of Sinhala, Fac. Of Arts, to organize the event to celebrate 75 years of Sinhala Department as a part of their annual symposium at Prof. V.K. Samarayake Auditorium
	• 6th –
	  • Postgraduate students of UCSC received Masters Degrees and PG Diplomas at the Postgraduate Convocation for the year 2018 at the BMICH
	  • Dr. G.D.S.P. Wimalaratne, Head/Department of Computation and Media Technologies received the Senate Awards for Research Excellence - 2016 & 2017 at the Postgraduate Convocation
	  • Vaani Vizha 2019, Tamil Cultural Event, organized by the students of UCSC
	• 12th - Talk on R&D work at the University of Adelaide and establish collaboration with staff and students by Dr. Asangi Jayatilaka and Dr. Asanga Wickramasinghe
	• 8th – 13th - UCSC facilitated to host 75th Annual Sessions of Sri Lanka Association for the Advancement of Science (SLASS) SLAAS at Prof. V.K. Samaranayake Auditorium.
	• 13th - Conducted the 5th seminar for UCSC staff on Menopause and sexual dysfunction and women's health by Dr. P.M. Athapaththu, Faculty of Medicine, the University of Colombo

	• 14th - Awarded 26 certificates for participants who have successfully completed the short course on Fundamentals of IT for Beginners by the Computer Service Centre. • 15th - Awarded 19 certificates for participants who have successfully completed the short course on Computing for Career Development by the Computer Service Centre.

8. AUDIT REPORT 2019

HED/B/UCSC/2019/FA/01 24 August 2020

Director,
University of Colombo School of Computing.

Report of the Auditor General on the Financial Statements and Other Legal and Regulatory Requirements of the University of Colombo School of Computing affiliated to the University of Colombo for the year ended 31 December 2019 in terms of Section 12 of the National Audit Act, No. 19 of 2018

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1. Financial Statements

1.1 Opinion

The audit of the financial statements of the University of Colombo School of Computing for the year ended 31 December 2019 comprising the statement of financial position as at 31 December 2019 and the statement of financial performance, statement of changes in equity and cash flow statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, was carried out under my direction in pursuance of provisions in Article 154 (1) of the Constitution of the Democratic Socialist Republic of Sri Lanka and provisions of the National Audit Act No. 19 of 2018 read in conjunction with Sub Section 107 (5) of the Universities Act No. 16 of 1978 and Section 17 of Colombo University School of Computing Ordinance No. 1 of 2003 enacted under Section 18 and Section 108 (1) of the Universities Act. My report to Parliament in pursuance of provisions in Article 154 (6) of the Constitution will be tabled in due course.

In my opinion, the accompanying financial statements give a true and fair view of the financial position of the institution as at 31 December 2019, and of its financial performance and its cash flows for the year then ended in accordance with Sri Lanka Public Sector Accounting Standards.

1.2 Basis for Opinion

I conducted my audit in accordance with Sri Lanka Auditing Standards (SLAuSs). My responsibilities, under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my report. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified opinion.

1.3 Responsibilities of Management and Those Charged with Governance for the Financial Statements

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Management is responsible for the preparation of financial statements that give a true and fair view in accordance with Sri Lanka Public Sector Accounting Standards, and for such internal control as management determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Institution's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Institution or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Institution's financial reporting process.

As per Section 16 (1) of the National Audit Act No. 19 of 2018, the Institution is required to maintain proper books and records of all its income, expenditure, assets and liabilities, to enable annual and periodic financial statements to be prepared of the Institution.

1.4 Auditor's Responsibilities for the Audit of the Financial Statements

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My objective is to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with Sri Lanka Auditing Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken based on these financial statements.

As part of an audit in accordance with Sri Lanka Auditing Standards, I exercise professional judgment and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institution's internal control.

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.

- Conclude on the appropriateness of the management's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt

on the Institution's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Institution to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

2. Report on Other Legal and Regulatory Requirements

National Audit Act, No. 19 of 2018 includes specific provisions for following requirements.

- I have obtained all the information and explanation that required for the audit and as far as appears from my examination, proper accounting records have been kept by the Institution as per the requirement of section 12 (a) of the National Audit Act, No. 19 of 2018.

- The financial statements of the Institution presented is consistent with the preceding year as per the requirement stipulated in section 6 (1) (d) (iii) of the National Audit Act, No. 19 of 2018.

- The financial statements presented includes all the recommendations made by me in the previous year as per the requirement of section 6 (1) (d) (iv) of the National Audit Act, No. 19 of 2018.

Based on the procedures performed and evidence obtained were limited to matters that are material, nothing has come to my attention;

- to state that any member of the governing body of the Institution has any direct or indirect interest in any contract entered into by Institution which are out of the normal cause of business as per the requirement of section 12 (d) of the National Audit Act, No. 19 of 2018.

- to state that the Institution has not complied with any applicable written law, general and special directions issued by the governing body of the Institution as per the requirement of section 12 (f) of the National Audit Act, No. 19 of 2018;

- to state that the Institution has not performed according to its powers, functions and duties as per the requirement of section 12 (g) of the National Audit Act, No. 19 of 2018;

- to state that the resources of the Institution had not been procured and utilized economically, efficiently and effectively within the time frames and in compliance with the applicable laws as per the requirement of section 12 (h) of the National Audit Act, No. 19 of 2018;

3. Other Audit Observations

(a) The service of a former Deputy Registrar had been obtained under work on assignment basis with the approval of the Board of Management and he had been paid an allowance amounting to Rs. 1,200,000 solely during the year 2019 without recruiting a qualified officer for the vacancy existed in the Post of Works Engineer in the Engineering and Maintenance Unit.

(b) Action had not been taken to recover a total of Rs.5,887,828 which had elapsed a period of 2 years to 15 years and should be recovered from three lecturers, who had violated bonds as at the last date of the year under review.

(c) Two (02) funds totalling to Rs. 20,632,794 comprised of Staff Development and Staff medical fees had been maintained without taking the approval of the General Treasury.

(d) Action had not been taken to recover loan balances, totalling to Rs. 3,359,805 which had been existing for a period of 01 year to 08 years and to be recovered from external parties even up to the end of the year under review.

W.P.C. Wickramaratne,
Auditor General.

9. ANSWERS FOR AUDIT REPORT 2019

2020.09.03

Auditor General

National Audit Office,
No. 306/72,
Polduwa Road,
Battaramulla.

Sir,

Response to the Auditor General's Report in terms of Section 12 of the National Audit Act No. 19 of 2018 on Financial Statements and Other Legal and Regulatory Requirements for the Final Year as at 31st December 2019 of the University of Colombo School of Computing, affiliated to the University of Colombo.

1. Financial Statements

1.1 was noted.

1.2 was noted.

1.3 was noted

1.4 was noted

2. was noted

3. Other Audit Observations

Query	Answer
(A) The vacancy for the post of Engineer in the Engineering and Maintenance Unit shall be filled by obtaining the services of a former Deputy Registrar on	We had a qualified officer for the position of Work Engineer at the beginning of 2019, who was recruited by publishing newspaper advertisements for the recruitment. However, the Institute was unable to continue its work and was unable to carry out engineering and administrative work related to the building construction projects and asset restoration work implemented by the Institute. This

<table>
<tr>
<td>assignment basis with the approval of the Board of Management without recruiting a qualified officer and in the year 2019 alone Rs. 1,200,000.00 had been paid.</td>
<td>situation was discussed in the Board of Management of the institute and until the recruitment of a suitable officer for the post of work engineer, to cover the administrative work of the Engineering and Maintenance Division in order to continue the activities of the Institute, it was decided to recruit a person with experience in the University System in the field of capital investment on a temporary basis and to cover the engineering work when required by hiring the services of the work engineer of University of Colombo.
According to the above decision, the relevant officer was recruited on the basis of assignment until the post of Work Engineer is filled. Following the closure of the Institute due to the Corona situation in the year 2020, applications are being called for the post of Work Engineer again and steps are being taken to recruit a suitable officer. The newspaper advertisement for this was published on 30.08.2020</td>
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<td>(B) On the last day of the year under review, the total amount due from two lecturers who violated the bond for a period of 02 to 15 years, the amount of Rs. 5,887,828 had not been recovered</td>
<td>The amount of Rs. 5,887,828 to be charged for breach of bonds mentioned in the inquiry is as,

Rs.
Mr. S J Pahirathan 1,666,742.91
Mr. R Senanayake 288,413.53
Mr. H M Siriwardena 3,932,672.43
Total 5,887,828.31

From the above mentioned three professors, the Institute has already recovered a portion of the total value of the bond after the date of the bond breach, which is as mentioned below.

<table>
<tr><th>S/No.</th><th>Name</th><th>Basic bond value (Rs.)</th><th>Amount charged (Rs.)</th><th>Remaining amount to be recovered further (Rs.)</th></tr>
<tr><td>01.</td><td>Mr. S J Pahirathan</td><td>3,225,956.96</td><td>1,949,094.59</td><td>1,276,862.37</td></tr>
</table>
</td>
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02.	Mr. R Senanayake	**798,588.54**	**510,175.01**	**288,413.53**
03.	Mr. H M Siriwardena	**3,932,672.43**	**-**	**3,932,672.43**

Accordingly, the following action has been taken by the Institute against the respective lecturers to recover the above outstanding balances.

1. Rs. 1,276,862.37 due from Mr. SJ Paheeradan

An amount of Rs. 1,949,094.59 has been recovered from Mr. Pahirathan out of the initial bond value of Rs. 3,225,956.96, a case has been filed in the Colombo District Court under number: DMR / 07902/10 for further charges and the hearing has commenced.

(Rs. 1,276,862.37 is due from Mr. Pahirathan. It stood at Rs. 1,666,742.91, including his loan balance of Rs. 389,889.00 from the Provident Fund)

2. Rs. 288,413.53 due from Mr. R. Senanayake

Mr. Senanayake has been charged Rs. 510,175.01 out of the initial bond value of Rs. 798,588.54. Although the relevant documents were sent to his address as his consent was required to recover his university pension balance, he was informed that he was not residing at that address and was sent back. The Attorney General's Department has been informed by letter dated 15.07.2020 to initiate legal action to recover the amount due against him.

3. Rs. 3,932,672.43 due from Mr. HM Siriwardena

The basic bond value due from Mr. Siriwardena is Rs. 3,932,672.43. He has been informed to make arrangements to pay it. Also, Rs.

	271,650.00 of his gratuity payment has been retained in the institute for a portion of the above amount due from him and to recover the balance of Rs. 2,111,553.00, relevant documents have been submitted to the University Grants Commission in July 2020. After deducting the gratuity payment of the University Fund from the above amount, the balance amount due is Rs. 1,549.470.00.
(C) The total as Staff Development and Staff Medical Scheme was in two funds amounting to Rs. 20,632,794 had been maintained without obtaining Treasury approval.	I) Staff Development Account Balance - Rs. 12,273,305 / = The staff development balance of the Institute consists of the money saved from Institute's operations in efficient completion of foreign aid projects and money earned from those investments. No government funding has been used for this amount. As the government does not provide adequate funding for the staff development of the Institute, this amount is spent in accordance with the staff development policy approved by the Board of Management of the Institute. And this is a ledger account balance and not a fund. II) Staff Medical Scheme Account Balance - Rs. 8,359,489 / = This amount is used to implement the staff medical program which is implemented with the approval of the Board of Management of the Institute. Funds required for this have been developed through the institute's funded postgraduate program and the budgetary allocation for the external degree course and with the contribution of staff members. No government funding has been used for this amount.

	And this is a ledger account balance and not a fund.
(D) The total amount due from external parties from the period 01 to 08 years is Rs. Rs. 3,359,805 and no action had been taken to recover the loan balance of Rs. 3,359,805 till the end of the year under review.	Receivables mentioned in the audit query are the amount owed by our Institute for providing computer services to various government agencies. Necessary steps are being taken to recover these balances. In the meanwhile, sending of reminder letters, direct notification to the relevant officers of the respective institutions and discussions with the heads of the relevant institutions are carried out as per the instructions of the Board of Management of our Institute. Receivables will be referred to the Institute's audit committee for further action based on the written responses of the relevant institutions.

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Prof. K P Hewagamage
Director