



**UNIVERSITY OF COLOMBO
SCHOOL OF COMPUTING**

ANNUAL REPORT

2018

DIRECTOR'S REVIEW



It is with great pleasure and a sense of pride that I present the Annual Report 2018 of the University of Colombo School of Computing. 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 both undergraduate and postgraduate programmes conducted in the year 2018. 857 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 244 students were able to graduate at the end of the year. In addition, UCSC conducted computer science courses for 1043 undergraduates of the faculty of science. This report describes the process of the 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 BIT external degree programme for which 4172 students got the opportunity to be registered. During the year, UCSC conducted all its BIT exams as scheduled. We were able to release 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 auditorium of UCSC.

Postgraduate degree programme was revised considering both new developments in the IT industry as well as Sri Lanka Qualification Framework (SLQF). The revised new programme was started in 2018. 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 2018 is also presented in the report. UCSC received the approval for revised cadre based on the zero cadre review conducted in 2015. Hence, the process of new recruitment was continued based on these guidelines in the organization.

The Infrastructure development is another main focus in the year of 2018. Both the government funds as well as the UCSC generated income were invested in completing phase II of the administrative, library and canteen building. At the same time, several other infrastructure development activities such as water sump for drinking and fire fighting, transformer room, central AC system, open pavilion of students also started in 2018. Although all the works were planned to finish before the end of Year 2018, due to several implementation issues, which were unforeseen during the planning, contractors, requested an extension to complete those projects during first quarter of 2019.

Due to inadequate funding for 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 46 million in 2018. However, the deficit due to inadequate government grant in 2018 was around 126 million. Hence, UCSC had to use 89 million from generated funds allocated for other activities. This has been an issue during last three years losing around 313 million. This situation has been negatively affecting for the sustainability of the organization. Cost per student does not shows the actual situation since we were forced to cancel many activities due to inadequate funding. Although UCSC increased the intake 10% during 2018, 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 2018 – another landmark year on the timeline of UCSC.

Director Professor K. P. Hewagamage

University of Colombo School of Computing (UCSC)

VISION

*Be a Global Leader in
Computing Education,
Advancing the Frontiers of
Knowledge through
Teaching,
Learning and Research*

MISSION

*To advance and enhance computing studies,
Fostering global strategic alliances,
Promoting interdisciplinary research,
Producing socially responsible professionals
With entrepreneurial skills,
Leadership qualities and integrity
Contributing to position the country as a
Knowledge hub in the region*

GOALS

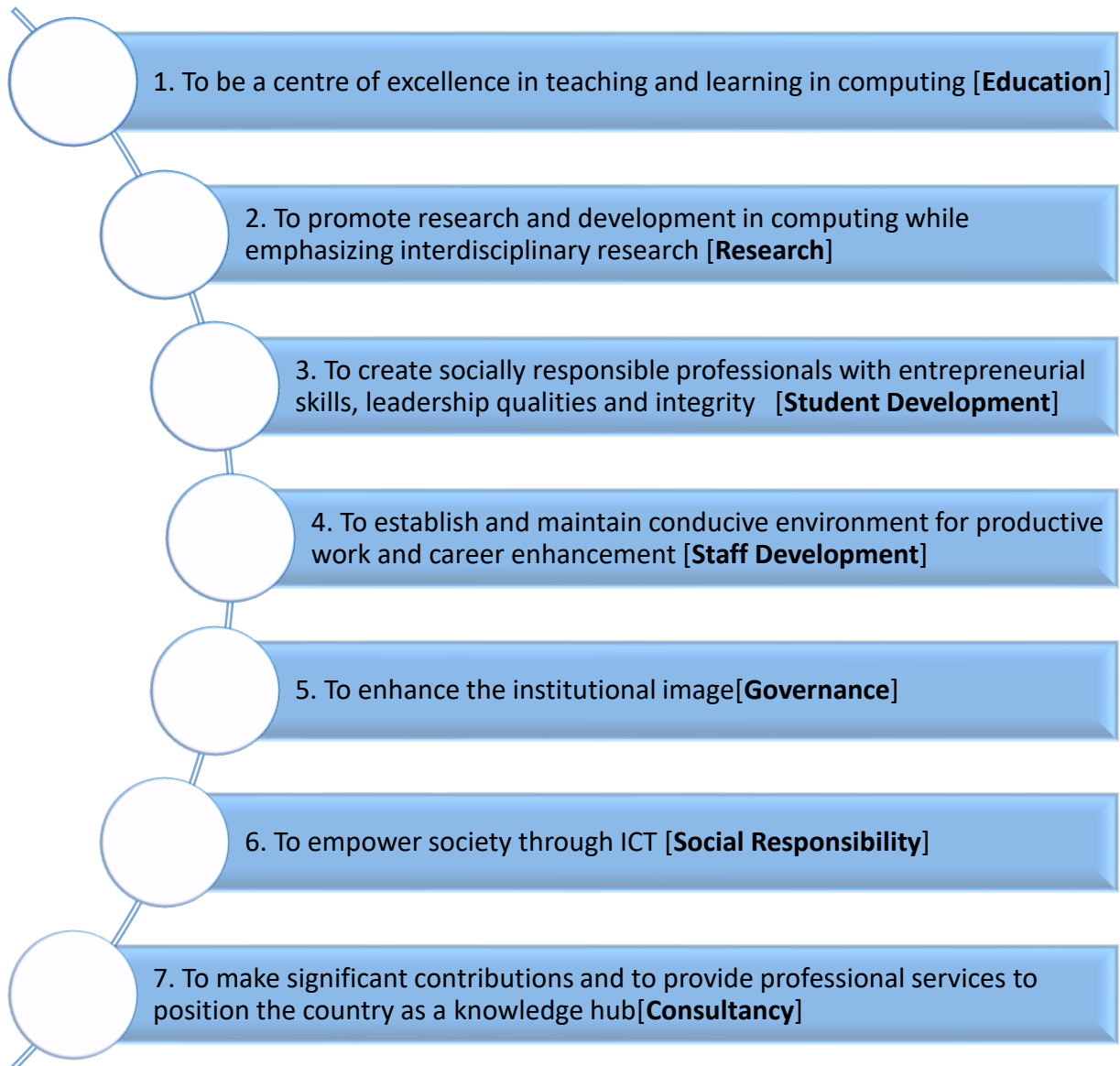
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1. To be a centre of excellence in teaching and learning in computing [**Education**]
 2. To promote research and development in computing while emphasizing interdisciplinary research [**Research**]
 3. To create socially responsible professionals with entrepreneurial skills, leadership qualities and integrity [**Student Development**]
 4. To establish and maintain conducive environment for productive work and career enhancement [**Staff Development**]
 5. To enhance the institutional image [**Governance**]
 6. To empower society through ICT [**Social Responsibility**]
 7. To make significant contributions and to provide professional services to position the country as a knowledge hub [**Consultancy**]

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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 the 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 centres:

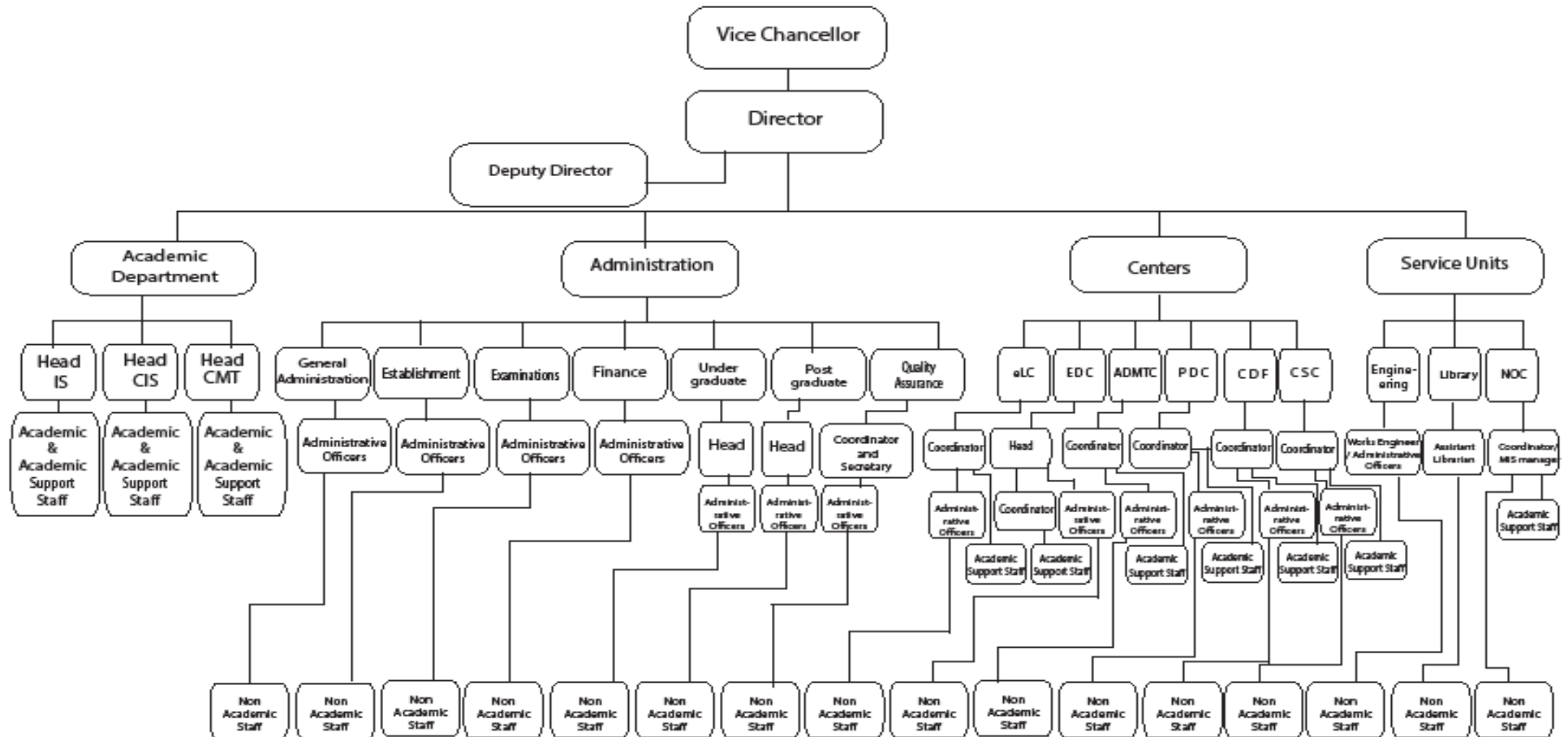
- Advanced Digital Multimedia Centre (ADMTC);
- Computing Services Centre (CSC);
- External Degrees Centre (EDC);
- E-Learning Centre (e LC);
- Professional Development Centre (PDC);
- Centre for Digital Forensics (CDF)

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

Organization Structure of UCSC - 2018

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 (2014-2018)

		2014	2015	2016	2017	2018
Education (Enrolled/Graduated)						
Internal Undergraduates	All	757	770	763	809	857
	In	212	256	250	261	301
	Out	214	247	236	193	244
Science Undergraduates		1119	997	1060	924	1043
Diploma in Information Technology (DIT) (External)	All	4535	4075	2188	2109	1975
	In	2379	1890	1602	1631	1461
	Out	611	515	379	403	337
Higher Diploma in Information Technology (HDIT) (External)	All	2583	2509	756	1259	1240
	In	721	690	490	511	463
	Out	305	339	227	151	110
Bachelor of Information Technology (BIT) (External)	All	1537	1651	1177	1282	1230
	In	347	346	242	233	187
	Out	194	225	262	217	133
Postgraduates	All	370	452	454	533	556
	In	209	188	184	243	232
	Out	107	121	127	150	139
Extension Programmes		389	339	334	296	317
Research						
Research (MPhil/PhD)	All	41/09	42/09	36/06	37/06	35/06
	In	07/06	08/01	01/07	11/02	04/00
	Out	3/1	3/1	00/01	03/04	00/01
Research Projects	All	10	11	34	27	20
	New	6	3	19	14	10
Publications		67	71	64	53	64
Consultancy/R&D Projects						
	Local	10	23	24	21	15
	Foreign	-	1	2	4	5
Social Responsibility Programmes			10	10	12	11

		2014	2015	2016	2017	2018
Governance						
Permanent Academic Staff	All	40	38	43	47	49
	Professors	03	03	03	03	02
	PhD	20	23	24	27	26
	Masters	11	09	09	09	09
Permanent Academic Support Staff		04	04	04	08	07
Temp Academic Staff (Instructors & Asst. Lect.)		30	27	21	27	30
Permanent Admin and Non-Ac Staff		40	37	46	46	54
Contract Staff (including casual & trainee)		42	42	25	25	35
Research/Project Staff		27	24	18	18	26
Finance						
		2014	2015	2016	2017	2018
Annual Recurrent Expenditure (Millions SLR)		161	307	335	415	488
Treasury Grant (Recurrent) (Millions SLR)		94	122	160	165	199
Treasury Grant (Capital) (Millions SLR)		15	43	205	107	112
Generated Income		247	211	201	263	274
UCSC Contribution to UG (Millions SLR) (Generated %)		185 (75%)	122 (58%)	147 (48%)	131 (50%)	126 (29%)
UCSC Budget (Millions SLR)		479	577	622	424	498
Research/Project (Millions SLR)		9.7	14	11	11	9
Cost per Employee (SLR '000s) per annum		795	881	1,008	1,081	1,275
Cost per Student (SLR '000s) – Treasury Recurrent		190	195	269	310	356
Infrastructure						
Library Books		8,678	8,783	8,931	8,810	8,948
Computers : staff		1:1				1:1
Computers : students (General students)		1:4				1:4
(Special students)		1:1				1:1
Space Utilization (employee) (sq. m.)		11.70	11.70	11.70	15.24	14.9
Space Utilization (student) (sq. m.)		4.77	4.77	4.77	4.39	5.03

1. GOVERNANCE

1. GOVERNANCE

During the year 2018, the organizational activities were carried out based on the corporate plan for 2018-2023 while focusing on the 7 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 2018.

The Management of the UCSC is coordinated by the Director of the UCSC with the assistance of the 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 Intelligent Systems (CIS) Dr. G.D.S.P. Wimalaratne - Department of Communication and Media Technology (CMT) Dr. M.D.J.S. Goonetillake- Department of Information and Systems Engineering (ISE)
Deputy Registrars	Mr. K.K.K. Dharmathilaka (on sabbatical leave from Jan to Sep '18) & Ms. HP Henegama
Deputy Bursar	Mr. E.M. Gunarathna
Coordinators	Mr. S.T. Nandasara - Advanced Digital Media Technology Centre (ADMTC) Dr. K.L. Jayaratne - Computer Service Centre (CSC) Mr. L.P. Jayasinghe - External Degree Centre (EDC) Dr. D.D. Karunaratna - e-Learning Centre (eLC) Dr. S.M.K.D. Arunathilake - Professional Development Centre (PDC) till March 2018 Dr. L.N.C. De Silva - Professional Development Centre (PDC) from June 2018 Mr. K.S. Goonathilake - Centre for Digital Forensic (CDF) till September 2018 Dr. T.N.K. De Zoysa - Centre for Digital Forensic (CDF) from October 2018

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 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 2018. First Thursday is usually allocated for the BOM meetings. Minutes and memos are distributed before the meeting. 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).

Ex- Officio Members	
• Director	Prof. K.P. Hewagamage (P-11 & E-1)
• Deputy Director & Head of CIS	Dr. D.A.S. Athukorala (P-12)
• Nominee Secretary of Higher Education	Mr. M. Dewasurendra (P-11 & A-1)
• Nominee, Ministry of Finance	Mrs. K A Ramya Kanthi (P-9, E-2, A-1)
• Dean, Faculty of Science	Prof. K.R.R. Mahanama (P-11, E-1)
• Head of CMT	Dr. G.D.S.P. Wimalaratne (P-9, E-3)
• Head of ISE	Dr. M.D.J.S Goonetillake (P-6, E-6)
Appointed Members	
• Council Members (02)	Mr. J.M. Swaminathan (P-4, E-1) till May 2018 Mr Anil Rajakaruna (P-6, A-1) from June 2018 Mrs C Mubarak (P-10 & E-2)
• Senate Member (02)	Prof. Sumedha Jayanetti (P-11, E-1) Dr. Pavithra Kailasapathy (P-12)
• Nominees of UGC (02)	Deshamanya Mr. M.D.D. Pieris (P-12) Prof. KD Gunawardana (P-11, A-1)
• Representatives IT Industry (02)	Mr. Mano Sekeram (A-1) till January 2018 Mr. Ranil Rajapakse (A-1) till January 2018 Mr Saman Perera (P-5, E-3) from May 2018 Dr Romesh Ranawana (P-7, E-1) from May 2018
• Nominees, Academic Syndicate (03)	Mr. S.T. Nandasara, (P-1) till January 2018 Dr. C.I. Keppetiyagama (P-3) till March 2018 Dr. T.N.K. De Zoysa (P-3) till March 2018 Dr. KL Jayarathne (P-9, E-1) from March 2018 Dr HA Caldera (P-9) from April 2018 Dr MGNAS Fernando (P-7, E-2) from April 2018

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

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 3 times during the year 2018 and the Director/UCSC chaired the meetings.

Chairman	Prof. K.P. Hewagamage (P-3)
Deputy Director	Dr. D.A.S. Athukorala (P-2 & E-1)
Board Nominees	Prof. K.R.R. Mahanama (P-3) Deshamanya Mr. MDD Pieris (P-3) Dr. Pavithra Kailasapathy (P-3) Mr. Anil Rajakaruna (P-1)
Deputy Bursar	Mr. E.M. Gunarathna (P-3)
Deputy Registrar	Mrs. A.H. Liyanage (P-1 & E-1) Mr. K.K.K. Dharmathilake (P-1)

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

1.2.3 Audit Committee

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 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 04 meetings of the year 2018 are given with respect to each member.

Chairman	Prof. K D Gunawardena (P-4)
Board Nominees	Mr. M. Dewasurendra (P-4) Ms. K.A. Ramyakanthi (P-3)
Rep of Auditor General	Mrs. W A T G Weerakkody (P-4)
Internal Auditor/UGC	Mr. M M J R Bogamuwa (P-3 & E-1)
Internal Auditor/UOC	Mr. K.E.W. Jayasiri (P-2 & E-2)
Rep /E&Y Auditors	Mr. Anjuna M Liyanage (P-4)
Director (Observer)	Prof. K.P. Hewagamage (P-4)
Deputy Director (Observer)	Dr. D.A.S. Athukorala (P-2 & E-2)

1.2.4 Academic Syndicate

The Academic Syndicate were held monthly during the year 2018. 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 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 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 2018 are approved and documented. Formal members of the Academic Syndicate and their participation statistics are given below.

No	Name	Attendance 12 Meetings			
		Present	%	Absent	Excused
1	Prof. K.P. Hewagamage, Director	12	100%		
2	Dr. D.A.S. Atukorale, Dy Director, Head/CIS & Se. Lecturer	09	75%	01	01
3	Dr. G.D.S.P. Wimalaratne, Head/CMT & Se. Lecturer	09	75%	01	01
4	Dr. (Mrs.) M.D.J.S. Goonetillake, Head, /ISE, Senior Lecturer	12	100%		
5	Prof. N.D. Kodikara, Senior Professor	07	58%	03	02
6	Dr. A.R. Weerasinghe, Senior Lecturer Gr. I	10	83%	02	
7	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	09	75%	03	
8	Dr. T. Sritharan, Senior Lecturer Gr. I	08	67%		04
9	Mr. G.P. Seneviratne, Senior Lecturer Gr. I	12	100%		
10	Mr. G.K.A. Dias, Senior Lecturer Gr. I	10	83%		02
11	Dr. D.D. Karunaratne, Coordinator/e-LC & Snr Lecturer Gr. I	08	67%	03	01
12	Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I	10	83%	01	01
13	Dr. C.I. Keppetiyagama, Senior Lecturer Gr. I	11	92%		01
14	Dr. K.L. Jayaratna, Senior Lecturer Gr. I & Coordinator/CSC	08	67%	01	03
15	Dr. H.A. Caldera, Senior Lecturer Gr. I	12	92%		01
16	Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. I	12	100%		
17	Dr. (Mrs.) S.M.K.D. Arunathilake, Senior Lecturer Gr. II	06	50%	03	03
18	Dr. T.M.H.A. Usoof, Senior Lecturer II	12	100%		
19	Dr. M.D.R.N. Dayaratne, Senior Lecturer Gr. II	07	58%	03	02
20	Mrs. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II,	09	75%		03
21	Mr. W.V. Welgama, Senior Lecturer Gr. II	10	83%		02
22	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr. II	11	92%		01
23	Dr. (Mrs.) T.A. Weerasinghe, Senior Lecturer Gr. II	12	100%		
24	Dr. (Mrs.) F.H.A.M. Premachandra, Senior Lecture II	03	43%	01	03
25	Dr. (Ms.) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II	12	100%		
26	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II (December)	01	100%		
27	Dr.(Mrs.) HND Thilini, Senior Lecturer Gr. II from December	01	100%		
28	Dr. BHR Pushpananda, Senior Lecturer Gr. II from December	01	100%		
29	Mr. K.P.M.K. Silva, Lecturer (Representative BOS/IUD)	07	58%	03	02
30	Dr. M.I.E. Wickramasinghe, Lecturer	07	58%	02	03
31	Dr. (Mrs.) L.N.C. De Silva, Lecturer	12	100%		
32	Mr. S.S.P. Mataraarachchi, Lecturer (Prob), (BOS/IUD Rep.)	03	100%		
33	Mr. S.T. Nandasara, Coordinator/ ADMTC & Lecturer	11	92%	01	
34	Mr. L.P. Jayasinghe, Coordinator/EDC, Instructor, Gr. I	10	83%	02	
35	Mr. K.S. Goonathilake, Coordinator/CDF & Engineer (by Invitation)	03	33%	06	
36	Prof. R.D. Wijesekara, Nominee/ Faculty of Science, UOC	07	58%	03	02

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 2018, 11 BOS/IUD was 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 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 11 IUD Meetings				
		Present	%	Absent	Excused	Leave
1	Prof. K.P. Hewagamage, Director (Chairperson)	11	100%			
2	Dr. D.A.S. Atukorale, Deputy Director, Head/ CIS	09	82%	01	01	
3	Dr. G.D.S.P. Wimalarathne, Head/ CMT	10	91%		01	
4	Dr. (Mrs.) M.D.J.S Goonetillake, Head/ ISE for IUD	08	73%		03	
5	Dr. T.N.K. De Zoysa, Coordinator/ IS Degree	08	73%	01	02	
6	Dr. M.G.N.A.S Fernando, Coordinator/ CS degree	10	91%		01	
7	Dr. M.I.E. Wikramasinghe, Secretary IUD till Nov.	08	73%	01	02	
8	Mrs. M.W.A.C.R. Wijesinghe, Secretary IUD from Dec.	09	82%		02	
9	Prof. N.D. Kodikara, Senior Professor	09	82%	01	01	
10	Dr. A.R. Weerasinghe, Senior Lecture Gr. I	10	91%		01	
11	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	03	27%	08		
12	Dr. T. Sritharan, Senior Lecturer Gr. I	08	73%	01	02	
13	Mr. G.P. Senevirathne, Senior Lecturer Gr. I	11	100%			
14	Mr. G.K.A. Dias, Senior Lecturer Gr. I	10	91%	01		
15	Dr. D.D. Karunarathne, Se.Lecturer Gr. I, Coor/e-LC	08	73%	03		
16	Dr. C.I. Keppetiyagama, Senior Lecturer Gr. I	10	91%		01	
17	Dr. K.L. Jayarathne, Senior Lecturer Gr. I	09	82%		02	
18	Dr. H.A. Caldera, Senior Lecturer Gr. I	11	100%			
19	Dr. (Mrs) S.M.K.D. Arunatilake, Senior Lecturer Gr. II	05	45%	01	05	
20	Dr. T.M.H.A. Usoof, Senior Lecturer Gr. II	08	73%	02	01	
21	Dr. M.D.R.N. Dayarathne, Senior Lecturer Gr. II	07	64%	02	02	
22	Mr. W.V. Welgama, Senior Lecturer Gr. II	11	100%			
23	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr. II	11	100%			
24	Dr. (Mrs.) T.A. Weerasinghe, Senior Lecturer Gr. II	08	73%		03	
25	Dr. (Ms.) K.H.E.L.W. Hettiarachchi, Snr Lecturer Gr. II	10	91%		01	
26	Dr. (Mrs.) F.H.A.M. Premachandra, (resigned in Aug.)	06	86%		01	
27	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II	09	82%	01	01	
28	Dr.(Mrs.) HND Thilini, Senior Lecturer Gr. II	05	56%		04	
29	Dr. Dr. BHR Pushpananda, Senior Lecturer Gr. II	04	80%		01	
30	Mr. K.P.M.K Silva, Lecturer	07	64%	01	03	
31	Dr. M.I.E. Wickramasinghe, Lecturer	08	73%	01	02	

32	Dr. (Mrs.) L.N.C. De Silva, Lecturer	07	64%	01	03	
33	Mr. S.T. Nandasara, Lecturer, ADMTC Coordinator	11	100%			
34	Dr. S.S.P. Matharaarachchi, Lecturer (Probationary)	09	82%	02		
35	Mr. R.S. Madanayake, Lecturer (Probationary)	08	73%	01	02	
36	Mrs. K.P.U. Jayasinghe, Lect. (Prob.) on Study leave	01	50%	01		09
37	Mr. R.N. Rajapakse, Lect. (Prob)	08	73%	01	02	
38	Mr. R.A.H.D. Perera, Lect. (Prob) leave from March	03	100%			08
39	Mr. A.P. Sayakkara, Lecturer (Prob) On Study Leave					11
40	Mr. R.M.U.A. Rathnayake, Lecturer (Probationary)	07	64%		04	
41	Ms. D.N. Perera, Lecturer (Probationary)	07	64%	01	03	
42	Ms. R.A.Y.S. Ranasinghe, Lecturer (Probationary)	06	55%	02	03	
43	Mr. D.D.A.C.J. Jayalath, Lect (Prob) resigned in August	04	67%	01	01	
44	Mr. KVDJP Kumarasinghe, Lecturer (Probationary)	06	55%	01	04	
45	Dr. K.D. Sandaruwan, Lect (Prob) On Study Leave Oct.	05	46%		03	03
46	Mr. R J Amaraweera, Lecturer (Probationary)	07	64%	03	01	
47	Mr. M A I M Dharmadasa, Lecturer (Probationary)	10	100%			
48	Mr. SJ Dissanayake, Lecturer (Probationary)	04	100%			
49	Ms. AL Nanayakkara Lecturer (Probationary)	06	67%	03		
50	Ms. C.L. Ishani Fonseka, Lecturer (Probationary)	01	100%			
51	Ms. GKK Perera, Lecturer (Probationary)	08	89%		01	
52	Mr. L.P. Jayasinghe, Instructor Gr. I	00		09	02	
53	Mr. G.P.N. Boteju, Instructor Gr. II	10	91%	01		
54	Mr. L.N. Anuradha, Student Rep (by invitation)	02	100%			
55	Mr. P. Abeysinghe, Student Rep (by invitation)	02	100%			
56	Mr. SR Kulathilake, Student Rep (by invitation)	01	100%			
57	Mr. W.I.A.R.P. Fernando, Student Rep (by invitation)	06	100%			
58	Mr. S.P Ranaweera, Student Rep (by invitation)	06	86%	01		
59	Mr. B.M.S.B. Nawarathna, Student Rep (by invitation)	04	50%	04		
60	Mr. M.H. Jawahir, Student Rep (by invitation)	02	40%	03		
61	Mr. D.J.N. Costa, Student Rep (by invitation)	02	67%	01		
62	Mr. M.F.F. Kamaldeen, Student Rep (by invitation)	01	100%			

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 12 meetings held during 2018. All matters related to the research and postgraduate studies are discussed in detail on this board and matters which require the approval are forwarded to the Academic Syndicate.

No	Name	Attendance of RHD (Out of 12 Meetings)		
		Present	Absent	Excused
01	Prof. K.P.Hewagamage, Director	11		01
02	Dr. D.A.S.Atukorale, Senior Lecturer Gr. I Deputy Director, Head/CIS	09		03
03	Mr. G.P. Seneviratne, Senior Lecturer Gr. I, Rep./CIS	12		
04	Dr. D.D.Karunaratne, Coordinator/e-LC, Senior Lecturer Gr. I	07	02	03
05	Dr. G.D.S.P.Wimalaratne, Head/ CMT, Senior Lecturer Gr. I	12		
06	Dr. (Mrs.) M.D.J.S.Goonetillake, Head, /ISE,	07	01	04
07	Dr. T.N.K. De Zoysa, Coordinator/MIS Cybersecurity, (Sec. RHD)	11		01

08	Dr.H A Caldera, Coordinator/MIT Programme Senior Lecturer Gr. I	12		
09	Dr.H E M H B Ekanayake, Coordinator/MCS Programme	12		
10	Mr. S.T.Nandasara, Coordinator/ ADMTC & Lecturer	10	02	
11	Mr. K.P.M.K. Silva, Lecturer, Rep./CMT	07	02	03
12	Mrs. M.W.A.C.R.Wijesinghe, Coordinator/MSc in Bioinformatics	11		01
13	Dr.(Mrs.)S M K D Arunathilakea, Rep./ISE	05	03	04
14	Dr.(Mrs.)F H A M Premachandra, Project Coordinator/MIT	07		
15	Dr.P V K G Gunawardhana,Project Coordinator/MCS	10	01	01
16	Dr.M I E Wickramasinghe, Project Coordinator/MIS	07	03	02
17	Mrs. L N C De Silva, Project Coordinator/MSc in CS	11		01

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 EEP (Out of 12 Meetings)		
		Present	Absent	Excused
1.	Prof. K P Hewagamage, Chairman/Director	11		01
2.	Dr. D A S Athukorale Head, EEP/CIS	12		
3.	Dr. G.D. S P Wimalarathna, Head, CMT/Postgraduate	09		03
4.	Dr. (Ms)M.D.J S Gunathilaka, Head Dept. of ISE/IUD	05		07
5.	Dr. D D Karunarathna, Coordinator-eLc & BIT	08	01	03
6.	Mr. S. T. N Nandasara- Coordinator/ ADMTC	10	01	01
7.	Dr. M G N A S Fernando, Nominee- CS Programme	05		01
8.	Dr. T.N.K.De Zoysa , Coordinator /CDF	02		
9.	Dr. L.N.De Silva, Co-ordinator / PDC	03		03
10.	Mr. L P Jayasinghe, Co-ordinator – EDC	10	01	01
11.	Mr. W V Welgama, Sec. EEP /BIT Project Coordinator	11		01
12.	Dr. K L Jayarathna, Co-ordinator – CSC	06	02	04
13.	Dr. (Ms) T. A Weerasinghe, Coordinator, FIT Programme	01		02
14.	Dr. (Ms)H.N.D. Thilini- BIT/curriculum committee invitee	04		

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 2018 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 2018 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 2018 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 Centers

Advanced Digital Multimedia 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 2018:

- Manage and maintain the UCSC Auditorium
- Manage and maintain the Digital Studio of UCSC
- Producing digital and printed materials of UCSC
- Maintaining UCSC Website
- Conducting courses on Graphics Design and Creativity Development
- Coordinating activities of the media committee of UCSC
- Facilitating to host UCSC conference – ICTer 2018 (www.icter.org/conference)
- Publishing UCSC Journal – International Journal on Advances in ICT for Emerging Regions (ICTer 2018) – www.icter.org/journal
- Coordinated activities of Exhibitions participated in 2018 (*Enterprise Sri Lanka National Exhibition* (Ministry of Finance) held in Monaragala on 29th, 30th & 31st August 2018 and *19+ Education Exhibition 2018* (Ministry of Education) held in Kuliyaipitiya Central College from 3rd to 7th of October 2018, Coordinated the computing section of the SLAAS Exhibition held in the University of Colombo from 5th to 8th of December 2018 at UCSC.

The Advance Digital Multimedia Technology Centre (ADMTC) has conducted the Graphic Design and Creativity Development course in the year 2018 for two batches of 38 students to discriminate their knowledge. The certificates was distributed awarding ceremony was published at <http://ucsc.cmb.ac.lk/events/completion-short-course-graphics-design-creative-development/>.

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 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 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 located outside the UCSC premises during 2018 and its address was No 17, Swarna Road, Colombo 06 (Opposite Havelock City). The Coordinator of the Centre carries out the overall management of the Centre. There is a dedicated staff to carry out activities of the external degree Centre.

EDC Activities during 2018:

The registration of new BIT Students (more than 1400), Re-registration of current students (more than 3000), Manage Semester 1,3, and 5 Exams during May 2018 (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 350), Conducting the convocation of BIT External Degree (more than 130), conducting the BIT Semester, 2,4, and 6 Exams (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-Learning 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 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.

Activities conducted during 2018

1. Maintained the following virtual learning environments for undergraduate, external and postgraduate under the theme “ViduPiyasa” [UCSC Virtual Campus]
 - For internal undergraduate <http://ugyle.ucsc.cmb.ac.lk> (around 1000 active students)
 - For external undergraduates <http://vle.bit.lk> (around 6000 active students)

- For postgraduate students <http://pgvle.ucsc.cmb.ac.lk> (around 700 active students)
- 2. Carried out online e-Testing for Enhancement courses of BIT degree programme (more than 2000 students)
- 3. Carried out online e-Testing for Introduction to Entrepreneurship Course (more than 1000 students)
- 4. Maintained a special VLE instance for final year projects of BIT students (<http://vle.bit.lk/projects>) (more than 700 students)
- 5. Managed the online learning programme “Foundation in Information Technology” (FIT) via <http://fit.bit.lk/vle>, as the foundation programme in ICT.
- 6. Developed interactive content for teaching, learning and assessment for the online courses hosted in the VLEs.
- 7. Provided an online guidance, also known as e-Facilitation, for the BIT and FIT online courses.
- 8. Carried out online selection and recruitment tests for public and private organizations (KPMG, University of Colombo)
- 9. Maintained the public online learning portal for Free and Open Education – <http://www.e-learning.lk/vle> which consists of more than 40 free courses
- 10. “Blended learning” workshops for other faculties in the University of Colombo as capacity development programmes under the UNESCO Funded Blended Learning Project of the University of Colombo

Professional Development Centre (PDC)

The Professional Development Centre (PDC) of the UCSC was set up to keep a close liaison with IT industry and to improve the academic programmes through industry partnership. The PDC primarily concentrates on improving professional skills of the staff and the internal students, industrial placements and visits for internal undergraduates and promoting inter-cultural harmony. The mission of the Professional Development Centre (PDC) of the UCSC is to produce Computing graduates’ having extra-curricular skills such as professional skills, business skills, communication skills, community service skills, innovative capacity and entrepreneurship to pursue successful careers thereby contributing to the socio-economic development of Sri Lanka.

Activities carried out during 2018

- Placement of 238 undergraduate students in 69 companies
- Organized mock interviews using industry representatives for final year students
- Organized the carrier fair 2018 for students for all final year students
- carried out industry placement evaluation sessions with industry participation
- Organize the evaluation of students and placement to select the best placement of 2018 for the annual convocation
- Organized Tech Talks from recognized companies to students on following topics during the first half of 2018.
- Organized in-house industrial workshop collaborative with ISM APAC (PVT) LTD.
- Visited the companies whom offered internship opportunities for the students.

Centre for Digital Forensics (CDF)

The Center 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 Department.

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 (e.g. e-Asia 2009, The 3rd International Conference on Cybercrime Forensics Education & Training, Canterbury University, UK 2010).

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 government analysis department and the criminal investigation department to establish separate units for these operational tasks. Hence, CDF will focus more on research and development in digital forensics in the future.

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 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 1060 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 2018, 301 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: Distribution of UCSC Undergraduate Population

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 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 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 got 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 **May 2018 where 2494 applicants applied and 331 were qualified to apply for IS stream.** The actual number of students registered for degree programmes are given below.

2.1.2 Academic Year – 2017/2018 and Student Enrolment

Table 2.1.2. - A: Enrolment - Distribution of UCSC Intake – 2018

Stream of Study	Intake Size	Number enrolled	Male	Female
CS Stream	200	199 (99.5%)	139 (69%)	60 (30%)
IS Stream	100	102 (102%)	39 (38%)	63 (61%)
Total	300	301 (100.33%)	178 (59%)	123 (41%)

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 2018 is given below. The inauguration for the new undergraduate students selected for UCSC was held on 17th January 2018 and followed by the orientation programme from 18th to 30th January 2018 before the commencement of the academic year. <https://ucsc.cmb.ac.lk/events/inauguration-ceremony-undergraduate-academic-year-20162017/>

Academic Time Table for the Year 2018

DURATION		WEEKS	12/13	13/14	14/15	15/16
08/01/2018	21/01/2018	2	First Year Orientation Programme			
22/01/2018	11/02/2018	3	Vacation for All UCSC Students			
02/12/2018	08/04/2018	8(5)*	4S1	3S1	2S1	1S1
09/04/2018	22/04/2018	2	Sinhala & Hindu New Year Vacation			
23/04/2018	01/07/2018	10	4S1	3S1	2S1	1S1
02/07/2018	08/07/2018	1	Study Leave			
09/07/2018	12/08/2018	5	First Semester Exams			
13/08/2018	19/08/2018	1	Vacation			
20/08/2018	23/09/2018	5	4S2	3S2	2S2	1S2
24/09/2018	30/09/2018	1	Mid Semester Break			
01/10/2018	02/12/2018	9	4S2	3S2	2S2	1S2
03/12/2018	09/12/2018	1	Study Leave			
10/12/2018	31/12/2018	3 **	Second Semester Exams			

01/01/2019	04/02/2019	5	New Year Vacation, Paper Marking & 1 st Year Orientation Programme
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* No Academic activities from 17/03/2018 to 17/04/2018 due to trade union actions of non-academic staff.

** Exams are not conducted during the Christmas Holidays (from 22/12/2017 to 26/12/2017).

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 – 2018
Total Student Population (Internal Undergraduates) at UCSC**

Course	Intake 2016/17	1 st Year Students	2 nd Year Students	3 rd Year Students	4 th Year Students	Total
BSc in Computer Science	200	199	155	118	-	472
BSc in Information Systems	100	102	97	67	-	266
BSc Hons. in Computer Science	-	-	-	30	30	60
BSc Hons. in Software Engineering	-	-	-	10	10	20
BSc Hons. in Information Systems	-	-	-	20	19	39
UCSC Undergraduates	300	301	252	245	59	857
Faculty of Science - BSc (General)	-	381	498	92	72	1043

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 \geq 2.00	No. of Students 2.0>GPA \geq 1.5	GPA<1.5	Pass Rate % [No. students \geq 1.5 / No. of students Sat Exams
2016/2017	199	194	166	16	12	93.81%
2015/2016	163	155	141	11	3	98.06%
2014/2015	158	157	151	3	3	98.08%
2013/2014	40	40	40	0	0	100%

Table 2.1.3. - B: Study Programme: IS

Academic Year	Registered Students	No of Students Sat for Exam	No. of Students – GPA \geq 2.00	No. of Students 2.0>GPA \geq 1.5	GPA<1.5	Pass Rate [No. students \geq 1.5/No. of students Sat Exams
2016/2017	102	97	2	94	1	98.97%
2015/2016	99	96	84	8	4	95.83%
2014/2015	92	83	79	3	1	98.79%
2013/2014	20	19	19	0	0	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 the 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 2018 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	109	27
Small IT companies	91	31
Government Institutes	14	10
Research and consultancy projects at UCSC	24	10
Total	238	78

PDC also organised 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 whom offered internship opportunities for the students, organised an in-house industrial workshop collaborative with ISM APAC (PVT) LTD, 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, the UCSC provided the neediest 1st year as well as needy 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) divisions manage both hostels under the supervision of the Deputy Registrar. The detailed statistics of 2018 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. MIE Wickramasinghe

Capacity: 35

Girls Hostel:

Hostel Address: 76/16A, Sunethraadevi 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 2018

Hostel	Applied for hostel facilities	1 st Year students		Final year (3 rd and 4 th) students			Total
		CS Stream	IS Stream	CS Stream	IS Stream	SE Stream	
Boys Hostel	73	21	14	-	-	-	35
Girls Hostel	67	19	17	-	-	-	36
Total	140	43	21	-	-	-	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	1,354,500.00	Other: 97,565.00 Water: 174,470.71 Electricity: 94,986.30 <u>Rs. 367,022.01</u>	Warden Allowance 500*12 = 6,000.00 Sub Warden Allowance – 750*12 = 9,000.00 Caretaker Salary: 262,498.00	35	57,114.86
Girls' Hostel	36	720,000.00	Other: 248,155.60 Water: 138,651.78 Electricity: 123,218.19 Telephone: 18,407.30 <u>Rs. 528,432.87</u>	Warden Allowance 500*12 = 6,000.00 Sub Warden Allowance – 750*12 = 9,000.00 Caretaker Salary: 262,498.00	36	42,386.97
Total					71	48750.91

(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 2018, UCSC has spent around **Rs. 10,000.00** to purchase materials required for the student canteen. According to internal monitoring, UCSC spends around Rs. 25,000 for electricity of the canteen.

Since the student canteen is congested during normal 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) Counselling for Undergraduates

The student counselling 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 keep increasing. The UCSC Counselling service focuses on providing 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 counselling since 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 counsellors 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) TA Weerasinghe and Mr GP Seneviratne were provided for all students in 2018. The service of a Professional Counsellor Mrs. Nilani Thushanthika was obtained for the duration of 2 -3 hrs a day to facilitate the students who required counselling. UCSC paid for the service of Professional Student Counsellors on the hourly basis. In general, around 20-30 students took regular consultations from these Counsellors and during the certain period such as examination period.

(d) Financial Assistance for the Undergraduate Students

A 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 263 students during the year 2018. The value of Merit and Ordinary scholarships were Rs. 5,050 and 5,000 respectively.

Table 2.1.5.1. – C: Number of students - Mahapola Scholarship Granted – 2018

Year of Intake	Year of Study	Merit scholarship (CS+IS)	Normal scholarship (CS+IS)	Total
2016/17	Year 1	14(14+00)	77(48+29)	91 (62+29)
2015/16	Year 2	07(05+02)	75(51+24)	82 (56+26)
2014/15	Year 3	01(00+01)	73(45+28)	74 (45+29)
2013/14	Year 4	00(00+00)	16(13+03)	16 (13+03)
All	Total	22	241	263

Bursaries

Bursaries were awarded in accordance with UGC Circulars which governs the selection of students for Bursaries. 49 students were awarded Bursaries during 2018. The breakdown of the Bursary recipients for the year 2018 was shown in the following table (computer science + information system).

Table 2.1.5.1. – D: Number of students -Bursary Granted – 2018

Year of Intake	Year of Study	Full Bursary (Rs. 4000)	Half Bursary (Rs. 3900)	Total
2016/17	Year 1	10(07+03)	05(05+00)	15 (12+03)
2015/16	Year 2	07(04+03)	04(01+03)	11 (05+06)
2014/15	Year 3	09(08+01)	10(08+02)	19 (16+03)
2013/14	Year 4	02(01+01)	2(00+02)	04 (01+03)
All	Total	28	21	49

Industry Scholarships

Private organizations are invited to sponsor the scholarships for the 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 the student distress and welfare activities. In 2018, the following activities were carried out utilizing funds available in this allocation.

In 2018, 42 students were offered scholarships from the Student Welfare and Distress Fund. Among them, there were 21 scholarships at Rs. 5,000/- and 21 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 2018

Utilization Category	Event	No. of students	Paid Amount (Rs.)
Allowance for students representing UCSC at International Event	IEEE Region 10 SYWL Congress 2018 in Bali- Indonesia.	01	15,000.00
	Hack the North 2018! IN University of Waterloo - Canada.	04	15,000.00 per student
	“Silver Award” at NBQSA – 2018 and APICTA in China.	03	15,000.00 per student
	Total	08	120,000/=

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 2018 and following members were elected for the Student Union.

Name of the Student	Reg. Number	Office Bearer
M.P.S. Pathum	2015/IS/046	President
P K Sirisena	2016/CS/138	Vice-President
O.K. Senanayake	2016/IS/080	Secretary
S.P. Ranaweera	2016/CS/117	Editor
B.H.H. De Silva	2016/IS/014	Junior Treasurer
P. Banushan	2016/CS/015	Committee Member
A.R.R.M. Madhahi	2016/CS/077	Committee Member
M.H. Jawahir	2016/IS/036	Committee Member
M.R. Muthumala	2016/IS/059	Committee Member
M.F.F. Kamaldeen	2017/IS/040	Committee Member
N.T.P.R.N. Nanayakkara	2017/CS/112	Committee Member
B.M.S.B. Nawarathna	2017/CS/115	Committee Member
D.M.B.P. Ariyaratna	2017/IC/012	Committee Member

Many activities of students are coordinated by the Student Union although there are several student clubs and societies. There was an allocation in the annual budget for some of these activities and the students have utilized them. 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 – 2018

Event	Date
Inauguration ceremony for 2016/2017 batch of University of Colombo School of Computing was held at New Arts Theater	17 th January
'Reid Handawa' was held at the V.K. Samaranayake Auditorium	15 th February
Cloud Study Jam and GCP session organized by IEEE CS SB Chapter of UCSC	24 th February
Techlinked - A series of workshops focused on SDLC organized by IEEE CS SB Chapter of UCSC	12 th March - 14 th May
Dharma Deshana Program organized by senior students for 1st Year Students	7 th May
iFest 2k18 - Cyber security Conference organized by UCSC ISACA Student Group	13 th May
"Ninnada 2018" musical show organized by the Students' Union with Exploration Club of UCSC was held at Maharagama Youth Centre	18 th May
Vesak Celebration	29 th May
Sinhala and Tamil New Year Festival, "UCSC සුඵය උදානග 2018"	10 th August
UCSC Padura 2018 organized by the students of UCSC	31 st August
Career Fair 2018 organized by 4 th year students	1 st October
iHack 4.0 - Inter University 24 Hour Hackathon organized by UCSC ISACA Student Group	6 th - 7 th October
IEEE Day 2018 organized by IEEE Student Branch of UCSC was held successfully at New Arts Theatre,	10 th October
The Introduction to Intellectual Property and Software Patents Session organized by the UCSC ISACA student group	18 th October
IEEEExtreme 12.0, 24 hour global programming competition was successfully held.	20 th October
Cultural Events (Vaani Vizha 2018)	1 st November
Eärendil'18 organized by the second year students	11 th November
Annual Sports Day of UCSC Internal Undergraduate	29 th December
Annual Pirith Ceremony and arms giving organised by the first year	18 th January 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 Extra Curricula

Students are encouraged to participate in many extracurricular activities to enhance their knowledge, skills, attitude and mind-set. 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 2018

No	Competition	Achievement
1	Codefest Overnight Hackathon Organized by SLIIT.	1 st Place
2	SHECODERess V2.0 Coding competition organized by WIE of Uva Wellassa University	1 st Place, 1 st Runner Up & 2 nd Runner up
3	IEEE Xtreme	9 th place in Sri Lanka Top 40 (Sri Lanka)
4	#IAMHER Startup Spotlight Event organized by Lankan Angel Network and Dialog Ideamart	1 st Place 2 nd Runner up
5	Woman up Video competition at 'woman up' organized by Wayamba University of Sri lanka	3 rd place
6	Dream Venture Best Startup Idea Competition	1 st place
7	Inter university quiz competition Organized by the IEEE Students branch of KDU	2 nd Runner up
8	Realhack -2018	1 st place
9	Let me hack v1.0	winner
10	Google Summer of code 7 UCSC undergraduates completed the summer of code 2018 successfully.	7 students completed
11	Shruthi' 18 Cover song competition	winner
12	National Best Quality ICT Awards (NBQSA) 2018	Silver award
13	SLIIT-CODEFEST "Net Com" Padcet Tracer Contest 2017	Bronze award
14	Best student activity of IEEEESLSYWC'17	winner
15	Information Security Quiz 2018 Conduct by the Sri Lanka CERT, ICTA & Ministry of Telecommunication[2 nd Runner up

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 2018.

P.D.N.C Pathiraja	2018- Inter faculty -800m 2 nd place 2018- Inter faculty- 400m 3 rd place
D.M.C. Ponnampereuma	UOC colors, Inter University Hockey Championship 2018- quarter finals
W.A.S.J. Weerasinghe	2018 fresher's 3000m Championship 2018 inter faculty 3000m runner up 2018 fresher's hockey 2 nd runner up 2018 inter faculty hockey runner up
S.N. Gallage	2018 Fresher's Chess Girls 1 st Runners up
I. Logeswaran	Chess 1 st runner up
M.M.Y.S.Y. Thilakasiri	Colors holder 2018 Inter university hockey championship 2018 - quarter final Inter faculty hockey championship 2018 - 2 nd runners up
D.T.A.S.T. Seneviratne	FISU World University Badminton Championship(Malaysia) 2018- Participation UOC Colours for Badminton -2018 Best Player special award - Badminton-2018 Special award for SLUSA International Participation in Badminton -2018 Inter University Badminton Championship 2018 - Quarter finals Inter Faculty Badminton Championship 2018 -4 th place Inter Faculty Table Tennis Championship 2018 -3 rd place Fresher's Badminton Championship 2018 - Runner up Fresher's Tennis Championship 2018- 3 rd place Fresher's Table Tennis Championship 2018- Participation Fresher's Rowing 2018- Participation
P.C. Wijesena	Fresher's Rowing 1 st place, Fresher's Rugger 2 nd place, Fresher's hockey 3 rd place, Fresher's Powerlifting 2 nd place, Fresher's Wrestling 4 th place, Fresher's swimming participant
L.M. Mohotti	Fresher's Swimming Meet 2018 25m freestyle - 3 rd place 25m backstroke - 3 rd place 25*4 freestyle relay - 2 nd place
P.C. Nanayakkara	Fresher's- Hockey 3 rd Place Fresher's - Karate – Kumite 3 rd place Inter Faculty Hockey 2 nd Place
R.W. Ravindu	Fresher's 2018 Carom 1 st Runner up Elle 2 nd Runner Up
K.W.R. Udayanka	Fresher's 2018 freestyle wrestling 3 rd place Fresher's 2018 hurdle 3 rd place
D.M.U. Dilrukshi	Fresher's 2 nd runner up
A.M.T.N.Amarasinghe	Fresher's 3 rd place tennis

W.K.U. Madumalka	Fresher's badminton runner up 2018
I.A.T.R. Fernando	Fresher's carom 3 rd place 2018
J.P.E.Dilshani	Fresher's carom women's 2 nd runner up
H.B.P Hathurusinghe	Fresher's Cricket runner up 2 nd
G.A.P. Madhuranga	Fresher's Elle 2 nd runner up
P.I.A.Gunawardhane	Fresher's hockey 3 rd place
R.P.T.Amanda	Fresher's hockey 3 rd place
S.W.A. T. Karunarathna	Fresher's Javelin 2 nd place
C. Kulathunga	Fresher's meat Hockey 2018-2 nd runner up Inter faculty Hockey 2018 - Runner up
P.D.C.G. Wijesekara	Fresher's meet 2018 Carom 3 rd place
M.W.G.R.C Nawarathna	Fresher's meet carom 3 rd place
P P Sandaruwan	Fresher's rowing champions 2018 Fresher's Badminton runner-up 2018
S.H.M.Amarasooriya	Fresher's rugby runners up , Fresher's weightlifting 3 rd place
V.N.Amaraweera	Fresher's tennis 2018- 2 nd runner up Fresher's chess 2018 - 1 st runner up
W.G.M.S.R.Perera	Fresher's tournament runners up in rugby badminton and hockey Champions in wrestling
J M A I U Jayamanne	Fresher's chess - champions
B.A.S.Madushika	Inter Faculty Hockey Championship 2018 - runner up Inter Faculty Fresher's Hockey Championship 2018 - 2 nd runner up
S.S.Jayalath	Inter Faculty Basketball Championship 2018 - runners up
K.M.T.H.B. Ayagama	Inter faculty carom 1 st place
MGP Jayasankha	Inter faculty Elle 2 nd runner up
B.M.T.P.D.Basnayaka	Inter faculty fresher's cricket 3 rd place
B M S B Nawarathne	Inter faculty Fresher's meet - Basketball - runner up
C Kulathunga	Inter Faculty Hockey 2018 runner up
C P Sagara Rathnasekara	Inter faculty Hockey 3 rd .
T.M.Senevirathne	Inter faculty Hockey championship - runner up - 2018
DMPPB Karunathilaka	Inter Faculty Hockey Championship 2018 - 2 nd runners up Fresher's Tournament Hockey 2018 - runners up
STS Muthumala	Inter Faculty Karate 2 nd runner up Fresher's Karate 2 nd runner up Fresher's Elle 2 nd runner up Fresher's Cricket 2 nd runner up
K.L.P.M.Senarath	Inter faculty rugger- 2 nd runner up
M.A.C. Silva	Inter Faculty Scrabble Championship 2018 - 1 st Runner Up

S. N. Kariyawasam	Inter Faculty Scrabble Tournament 2018: Women's Category - 2 nd place
H.P.Samaraweera	Inter faculty Scrabble Tournament 2018(Women's Category) : 1 st Runners Up
B A Medawatta	Inter faculty swimming meet 2018 - Champions Fresher's swimming meet 2018 - Champions Fresher's tennis 2018 - 2 nd runners up Fresher's table tennis - 2 nd runners up
A.W.P.M Wijethunge	Inter Faculty Taekwondo 3 rd place 2018
O.K.Senanayake	Inter Faculty Volleyball Championship 2018 - 2 nd Runners up
D.M.H.S.Bandara	Inter University 100*4 men's relay 2018- 1 st place
D. C. H. Muthukumarage	Inter University Basketball Championship - 3 rd runner up
M.L.A.S. Yapa	Inter University carom Championship 2018 - 2 nd runner up UOC colors 2018 - Carom
W.B Nipuna Sarathchandra	Inter university chess championship 2018-runner up
L.C.S.de Silva	Inter University Chess Championship 2018 - Champion Inter University Tennis Championship 2018 - Champion UOC colours in both chess and tennis
M. H. Jawahir	Inter University Football Championship 2018 - 2 nd Runners Up Colours Re-awarded for 2018 - Football
C.P.S. Rathnasekara	Inter university Hockey 3 rd .
K.Ishara Madushani	Inter University hockey championship 2018-2 nd runner up
M D Hashini Rangala Dias	Inter University Hockey Championship 2018 - runner up Fresher's Swimming Championship 2018 - 2 nd runner up - freestyle relay
S.I.N.Fernando	Inter University Men's Rugby 2018 - 2 nd runners up UOC Colors men for Men's Rugby
S Z Mohammed	Inter university Scrabble champions (Women's) - 2018 Inter faculty Scrabble runners up (Women's) - 2018 UOC merits - Scrabble 2018
D.N. Wickramaratne	Inter University Scrabble Championship - winners Inter Faculty Scrabble Tournament - Runners Up
C. L. Biyanwila	Inter university swimming championship 2018 - runner up Inter university rowing championship 2018 - runner up
A.W.P.M Wijethunge	Inter University Taekwondo reserve player. Inter faculty taekwondo 3 rd place
P.K. Sirisena	Inter University Wrestling Championship 2018 - 3 rd runner up
W.M.D. Shashimina	Interfaculty Elle 2 nd runner up
B.A.S. Madushika	Inter Faulty Hockey Championship 2018 - runner up Inter Faulty Fresher's Hockey Championship 2018 - 2 nd runner up
T.K. Jayasekara	Invitational Inter-University Scrabble Encounter 2018 at University of Kelaniya - Champions, Interfaculty scrabble 2018 - Runner up

M.F.F. Kamaldeen	Taekwondo fresher's runner up Basketball men fresher's runners up
Y.M.S.V. Bandara	The Best Software Product 2018 - Silver Award
D. C. H. Muthukumarage	UOC colors 2018 - Basketball Inter University Basketball Championship 2018 - third runner up Fresher's Track and Field Championship 2018 5000m event - first place Fresher's Basketball Championship 2018 - first runner up Fresher's Track and Field Championship 2018 1500m event - second runner up place Fresher's Track and Field Championship 2018 400m hurdles event - second runner up place

2.1.9 Graduation 2018

The convocation or the graduation ceremony was held on 25th July 2018 for 244 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 2.2.10 B and 2.2.10 C).

Table 2.1.9. – A: Final Academic Performance of UCSC Graduates – 2018

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 2013/2014)	Main	76	38			3	3	12	6	54	29	69	38	90	100
B.Sc. in Information Systems (A/Y 2013/2014)	Main	35	32	2		5	12	8	5	18	15	33	32	91	100
B.Sc. (Hons) in Computer Science (A/Y 2012/2013)	Main	9	11	3	6	2	2	4	3			9	11	100	100
B.Sc. (Hons) in Information Systems (A/Y 2012/2013)	Main	5	15	3	10	1	5	1				5	15	100	100
B.Sc. (Hons) in Software Engineering (A/Y 2012/2013)	Main	14	6	4	3	3	1	4	1	3	1	14	6	100	100
B.Sc. in Computer Science (A/Y 2010/2011)	Repeat	2	1							2	1	2	1	100	100
B.Sc. in Computer Science (A/Y 2012/2013)	Repeat	14	1							6	1	6	1	43	100
B.Sc. in Information Systems	Repeat	2	3								1		1	0	33

(A/Y 2011/2012)														
B.Sc. (Hons) in Information Systems (A/Y 2011/2012)	Repeat	1					1				1			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	4	7	11	4	2	6	6	6	12	30
	B				1	2	3	4	1	5	1	1	2	10
	C	1		1		3	3		2	2	10	8	18	24
	A										1	1	2	2
Total	2		2	5	12	17	8	5	13	18	16	34	66	

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	1	6	7				2		2				9
	B	2	3	5		3	3							8
	C		1	1	1	1	2							3
	A					1	1							1
Total	3	10	13	1	5	6	2		2				21	

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. Following tables describe the awards given at the convocation held on 25th July 2018 at BMICH. Prof. V. K. Samaranyake Awards, which is open for all the study streams at UCSC was given to H.S.U. Liyanage (Index No.:13000642). Following tables provide details of awards in the stream of Computer Science, Information Systems and Software Engineering awarded at the convocation held on July 2018.

Table 2.1.10. – A: Convocation Awards for Information Systems Degree Programme – 2018

Name of the Award	Name of the Awardee
Zebra Technologies Academic Excellence Award for the Best Performance in three year degree – 2017	Gamaetige G.D.P.M. (Index No.: 14020221)
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2017	Gamaetige G.D.P.M. (Index No.: 14020221)
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2016	Deshapriya G.W.N.T. (Index No.: 13020102)

IFS Academic Excellence Award for the Best Performance in four year degree – 2017	Chandrasiri H.M.S.P.K. (Index No.: 13020056)
Sampath Bank Award for the Best Final Year Project – 2017	Chandrasiri H.M.S.P.K. (Index No.: 13020056) Herath H.M.G.C. (Index No.: 13020196) Wickramaratne J.N.De W. (Index No.: 13020651) Gunathilake M.D.H.E. (Index No.: 13020188) Hidellaarachchi D.D. (Index No.: 13020201) Perera W.M.I.C.S. (Index No.: 13020366)

Table 2.1.10. – B: Convocation Awards for Computer Science Degree Programme – 2018

Name of the Award	Name of the Awardee
Virtusa Academic Excellence Award for the Best Performance in three year degree - 2017	Shanilka K.W.S. (Index No.: 14001373)
Professor Mohan Munasinghe Award for Computer Science – 2017	Liyanage H.S.U. (Index No.: 13000642)
ICTA Award for the Best Computer Science Final Year Project – 2017	Perera M.G.S. (Index No.: 13000918)
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2016	Maduranga G.A.A. (Index No.: 13000683)

Table 2.1.10. – C: Convocation Awards for Software Engineering Degree Programme – 2018

Name of the Award	Name of the Awardee
IFS Award for the Best Performance in B.Sc. (Hons) in Software Engineering – 2017	Indrachapa K.A.K. (Index No.: 13000454)
Soma Goonetillake Memorial Award for the Best Final Year Project in B.Sc. (Hons) in Software Engineering – 2017	Chandana P.A.D. (Index No.: 13000162) Dodangoda D.A.B.P. (Index No.: 13000349) Kanchana G.D.D. (Index No.: 13000535) Liyanage C.M. (Index No.: 13000632)
Wimala Jayaratne Memorial Award for the Best Performance in Software Engineering in B.Sc. (Hons) in Software Engineering - 2017	Indrachapa K.A.K. (Index No.: 13000454)

Table 2.1.10. – Special Awards - 2018

Name of the Award	Project Title	Name of the Awardees
Winner Award in the e-Learning Category-3rd Commonwealth Digital Health Awards organized by Commonwealth Medical Association (CMA) and The Health Informatics Society of Sri Lanka (HSSL), Colombo, Sri Lanka.	An Affordable Solution for Cardiopulmonary Resuscitation Training using Virtual Reality	H S U Liyanage, Lakshman Jayaratne, Aruna Munasinghe and M I E Wickramasinghe
Merit Award Winner - best e-content applications in the category of e-Health and	An Affordable Solution for Cardiopulmonary	H S U Liyanage, Lakshman

Well-Being, The Ministry of Telecommunications and Information Technology, Sri Lanka.	Resuscitation Training using Virtual Reality	Jayaratne, Aruna Munasinghe and M I E Wickramasinghe
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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 - 2018

Programme	Number Graduated	Number Responded	Employed	Waiting for Jobs / Not interested
Bachelor of Computer Science	157	147	99%	1%
Bachelor of Information Systems	87	86	91%	9%
Total	244	233	95%	5%

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 2017 are presented in the next few sections.

2.2.1.1 Masters Degrees

UCSC offered five Master Degree programmes in 2018. 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. Intake size for the programme for the year 2018 was 97 students. The students were selected based on their first degree qualification, performance at the selection test and selection interviews.

- **Master of Information Technology (MIT)**

Those, who are interested in changing their career path into Computing or obtaining a postgraduate qualification in the Computing are offered this programme. Any graduate with a working experience in computing environment is encouraged to apply for this programme. The intake size of the programme for the year 2018 was 94 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 2018 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 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.

- **[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 and the first intake of the programme is to be admitted in 2019. The intake size of the programme for the year 2019 will be 40 and a selection test and interviews will be held to select suitable candidates for the programme.

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 fulltime 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, MSC and MIS commenced in May 2018 for the 2017/2018 intake, but the recruitment of students was started in 2017. 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 communicate with the students instantly although they were not in the UCSC premises on working days. Enrolment details for the Master programme for 2018 are given below. The student handbook for Master Degree programme was published in 2018 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 2018

Degree Programme	Intake 2017/18	1st Year Students		2nd Year Students		Total
		New	Repeaters	New	Repeaters	
Master of Computer Science	97	97	55	84	15	251
Master of Information Technology	92	92	34	76	32	234
Master of Information Security	28	28	01	27		56
Degree Programme	Intake 2017/18	1st Year Students		2nd Year Students		Total
		New	Repeaters	New	Repeaters	
Master of Cybersecurity	15	15				15
Total	232	232	90	187	47	556

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 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.

2.2.1.3 Staff Participation

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

Degree Programme	Academic			Supervision		Administration	Non-Academic
	UCSC	Visiting (Local)	Visiting (Foreign)	UCSC	Visiting		
MCS	24	05		34		02 (Exams/ Postgraduate)	05
MIT				18			
MIS		07	05	07	01		
MC	02	03	01				
Total	26	15	06	59	01	02	05

It is very important to mention that almost all the staff participated in conducting and managing Masters programme indirectly although they are not paid directly for the Master’s degree programme. Therefore, 2% of income is allocated for the staff welfare and general training activities of the institute. At the postgraduate convocation held on 12th and 13th November 2018, several graduates received special awards based on their performances in the programme.

2.2.1.4 Graduation of Masters Programme

Postgraduate Convocation for Master’s Degree was held on 12th & 13th November 2018 at BMICH for the students who were registered for the programme 2015/16. 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 2018

Course	Intake 2015/16	Graduated					Total	%
		2016/ 2017	2015/ 2016	2014/ 2015	2013/ 2012	Previous		
Master of Computer Science	83		23	09	04		36	43%
Master of Information Technology	75		35	16		01	52	69%
MSc in Information Security	27		11	02	02		15	56%
PGD in Computer Science		02	02	01	11	03	19	--
PGD in Information Technology			03	03		07	13	--
PGD in Information Security				01		03	4	--
Total	185	02	74	32	17	14	139	75%

At the postgraduate convocation held on 12th and 13th November 2018, several graduates received special awards based on their performances in the programme. Details are given below.

Name of Award/Medal	Name of Recipient
Kingslake award for the best student for Master of Computer Science Degree Programme	Ms. Ekanayake E.W.M.N.
JICA award for the best student for Master of Information Technology	Mr. Perera K.D.N.C
Mr. THA De Zoysa Award for the Best Student in Master of Science in Information Security	Mr. Herath H.M.K.K.B.

2.2.1.5 Masters Programme Development

By considering 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 2019 as Degree of Master of Computing by Research. A steering committee has been appointed to design the programme and develop the by-laws.

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 25 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 2018)	Year 2 (Registration 2017)	Year 3 (Registration 2016)	On Extensi on (Registe red before 2015)	Total	No of Graduate d in 2018
PhD						01
Full Time		01	02	01	04	
Part Time		01			01	
PhD – Total		02	02	01	05	
MPhil						00
Full Time		05	02	01	08	
Part Time	04	05	03	03	15	
MPhil – Total	04	10	05	04	23	
Total Research Degrees	04	12	07	05	28	01

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 39,000 students and has produced 2273 graduates; 3615 higher diploma holders and 7692 diploma holders up to the end of 2018. In 2018 (18th Batch) had 1,461 new enrolments and the process for new intake commenced in late 2017 and kept open until March 2018 to cater the advanced level students of 2017. Following table shows the details of the student registration for the year 2018.

Table 2.3.1. – A: BIT Student Registration - 2018

Course	Total Applicants	New Registration	Re- registration	Total
First Year Registration	2313	1461	514	1975
Second Year Registration		463	777	1240
Third Year Registration		187	1043	1230
Total	2313	2111	2334	4445

2.3.1.1 Student Performance – 2018

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 last Three Years

External Undergraduates	KPI	2014/15	2016	2017
DIT - New Intake	1500	2379	1890	1602
DIT – Registered	2000	4535	4075	2188
DIT – Diplomas	400	515	379	403
[DIT/Registered]%	26%	11%	9%	18%
HDIT - Higher Diploma Intake	600	721	690	490
HDIT - Higher Diploma Registered	1200	2583	2509	756
HDIT - Higher Diplomas	300	339	227	151
[HDIT/Registered]%	25%	13%	9%	20%
BIT - Degree Intake	300	347	346	242
BIT - Degree Registered	1500	1537	1651	1177
BIT – Graduates	200	225	262	217
[BIT/Registered]%	15%	15%	16%	18%

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 were held to brief the academic plan for 2018, changes for conducting Exams and obtain institute feedback on 22nd February 2017 and 31st October 2017. Many training institutes have offered face to face classes and learning support for the BIT candidates in 2017 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 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 2017, 50 institutions from 14 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 10th December 2018 at the UCSC Auditorium for graduates of 2017 and Diploma & Higher Diploma award ceremony was held on 05th September 2018 at the New Arts Theatre of the University of Colombo for those who satisfied the relevant conditions in 2017. Detailed statistics are given in the table below. Number of graduates, 133 were conferred the degree at this Convocation. Parents and representatives of BIT teaching institutes also participated in the event.

Table 2.3.1.3. – A: Performance of External Degree Programme - 2018

Course	New registration	Repeaters	Total	No of Graduated
Diploma in Information Technology	1631	478	2,109	337
Higher Diploma in IT	511	748	1,259	110

Bachelor of Information Technology	233	1049	1282	133
All	2375	2275	4650	580

Table 2.3.1.3. – B: Analysis of Results – BIT at the Convocation held in 2018

Intake	First	Upper	Lower	Pass	Total
BIT	02	03	05	123	133

Convocation Awards

Prof. VK Samaranayake Medal for the Best Performance of the Bachelor of Information Technology (External) Degree was awarded to Mr. R.P.L. Fernando. The best Software Development Project was awarded to Mr. T.M.S.Y. Tennakoon. Mr.M.J.P.U.Samanthilake Memorial Award was awarded to Mr. M.A. Prasad. The Best e-Learner awards for the 1st semester was awarded to Mr. E.H.D. Pabasara and for the 3rd and 4th semesters was awarded to Mr. W.R.H.C. Wijethunga.

2.3.2 Extension Courses

The Computer Service Centre (CSC) was established to coordinate and manage extension courses which could be Respective specialization area. In 2018, UCSC offered seven extension certificate courses and attracted over 300 students. Below table shows the details of those courses which are normally conducted on weekends (D – Duration in days; B – No of Batches; P – Total Participants). 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 Training Programmes - 2018

Course	Division	Duration	No. Batches	Participants
Java Application Development Using JavaSE	CSC	8	7	161
Computing for Career Development	CSC	8	1	28
Software Quality Assurance Using Test Automation Frameworks	CSC	8	4	105
Fundamentals of IT for Beginners	CSC	10	1	23
Total			13	317

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 - 2018

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)	<ol style="list-style-type: none"> 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 running time of the Buses on Routes and Issuing the Running charts and Annual Licenses to the Buses, Three Wheelers and Schools Vans.

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 2018.

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	603	853	243	12

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 2018, UCSC had 14 foreign students from Afghanistan, Nepal, India, Bangladesh, Myanmar and Thailand for the Master of Cybersecurity programme, which was the newly started master programme and there was a student from Turkmenistan who was following the Master of Information Technology programme from year 2017.

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 2018, 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 which 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 masters and external degree programme was used for this allocation. At the beginning of 2018, a policy document was updated based on the previous year experience to increase the utilization. At the same time, UGC didn't allocate funds for research and development activities in 2018 since capital grant was utilized for the infrastructure development.

3.1.1 Undergraduate Level Research Projects

All students of honours degree programme are supposed to carry out a project with 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 was a group project in other two degree programmes (Information System and Software Engineering). These projects are evaluated independently considering three milestones, namely proposal defence, 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 process.

Table 3.1.1 A: Undergraduate Level Research projects conducted in 2018

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	18	26
BSc Honours in Information Systems	Dr. T.A. Weerasinghe	19	08	16	16
BSc Honours in Software Engineering	Dr. M.I.E. Wickramasinghe	10	03	03	05

3.1.2 Masters Level Projects

In all Masters Programme, students are supposed to carry out an individual project as a primary requirement to complete the degree programme. It is a two semester (one calendar year) course and there is a supervisor who is usually a senior academic staff member of the UCSC. Project Coordinators are appointed at the beginning of the academic year to manage this programme. In MCS programme, some projects are research type and others are implementation type. In all other programmes, projects are implementation types, but some projects also have a research component. Details of Masters Projects in 2018 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 %
		2015/2016	Repeaters		
MCS	2017/2018	30	17	36	76.60
MIT		75	30	33	31.43
MIS		23	7	15	50.00
MIT (e-Learning) &		0	3	1	33.33
MIT (Multimedia)		0	1	1	100

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 2018, several evaluations for research degree projects were held and details are presented below.

Table 3.1.3. A: Projects of research Degrees

Degree Programme	Number of Applicants	Registered	Completed Proposal Defence Successfully
MPhil	05	04	01
PhD	0	0	0
Total	05	04	01

3.1.4 Funded Research Projects

3.1.4.1 Internal Research and Development Projects

In 2018, UGC didn't allocate funds for research and development activities and the capital grant was not enough 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 senior academic staff. All staff members were invited to submit proposals based on their planned research activities during 2018. 7 proposals were selected to finance them. Following table shows those projects, their utilization and outcome with respect to publication.

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

Research Project/Activity	Principal Investigator/ Research Group	Allocation and Utilization Rs.	Number of Publications (conferences or Journals)
Comprehensive study of Oncogenic Signatures	Dr. A.R. Weerasinghe	480,000.00	03
Analysis of tumour genomic marker to define deviation in the pathogenesis of advanced prostate cancer	Ms. C.R. Wijesinghe	480,000.00	-
Analyzing the trends of Computer Science of UCSC from the period of 2002-2016	Dr. M.I.E. Wickramasinghe	155,000.00	02 (1 review, 1 draft)
Virtual reality environment to stimulate drone training drills with appropriate physical and behavioral realism	Prof. N.D. Kodikara	240,000.00	-
An affordable solution for cardiopulmonary resuscitation training using virtual reality	Dr. K.L. Jayarathna	240,000.00	-
Towards secure software development a module to interlink heterogeneous lifecycle artifacts for security improvement	Dr. G.D.S.P. Wimalaratna	150,000.00	02
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. Wimalaratna	100,000.00	-

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 postgraduate programme. Details of their participation given below.

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

Staff Level and Type of Conference	Participated Only	Published/ Presented	Total
Senior Academics – Conferences held in Sri Lanka	1	33	34
Senior Academics – Conferences held outside Sri Lanka	4	29	33
Junior Academics – Conferences held in Sri Lanka	-	8	8
Junior Academics – Conferences held outside Sri Lanka	-	5	5
Total	5	75	80

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 those projects initiated or carried out in the year 2018 together with their outcome.

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

Project Name	Principal Investigator	Donor Agency or Sponsoring Organization	Type of Grant (Local or Foreign)	Granted Amount as at 31.12.2018
An Adaptive Sensor Actuator System for Elephant tracking	Dr.Kasun De Zoysa	Asset-Uppsala University research collaboration	Foreign	100,000.00
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	50,000.00
Language Technology Research Laboratory (Sinhala Encyclopaedia Project & TTS & ASR Project)	Dr. A.R. Weerasinghe	LTRL	Local	1,843,365.41
Interaction design for tablet based edutainment systems for primary mathematical education - UGC/DRIC/QUT2015/CMB/02	Mr. H.K.T.C. Halloluwa	QUT Scholarships 2015- University Grants Commission	Foreign	1,128,667.00
Design and Development of Prototype of the Electronic Logbook and Electronic Data Verification Module for Fishery Management Support System	Prof. N.D. Kodikara	DFAR- Department of Fisheries and Aquatic Resources	Local	24,000.00
Exploring the student Interaction through 3- D virtual worlds - UGC/VC/DRIC/PG2015(III) / UCSC/ 01	Ms. R.M.P.N. Somartne	Higher Studies 2015- University Grants Commission	Local	1,270,261.90
Linking Exogaming and Long term healthcare monitoring for children with motor disabilities in Sri Lanka UGC/VC/DRIC/PG2016(I)/UC SC/01	Ms K P U Jayasinghe	Higher Studies 2016- University Grants Commission	Local	1,389,582.56
Electronic National Identity Card Project	Dr. Lakshman Jayaratne	eNIC- Department of Registration	Local	1,126,273.64

			of Persons (DRP)		
Entity Resolution in Multimedia Databases	Mr. S C Premaratne, Dr. K.L. Jayarathne		NSF- National Science Foundation	Local	23,612.38
Google summer of code Project	Dr. Kasun De Zoysa		Google LLC	Foreign	1,518,652.93
Develop a database system for Precursor Control Authority of National Dangerous Drugs Control Board	Dr. M I E Wickramasinghe		National Dangerous Drugs Control Board	Local	230,975.00
Master of Cybersecurity	Dr. Kasun De Zoysa		Asi@Connect TEIN Cooperation Center, European Commission	Foreign	989,470.88
AHEAD project's Research & Innovation Commercialization (RIC) grant scheme.	Prof. N D Kodika Dr. Kasun de Zoysa (co- Coordinators)		World Bank	Foreign	35Million (for a period of three years)
	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: Tea Plantation as a "System"	Prof. D N Ranasinghe			
	Sub Project 5: An Affordable Cardiopulmonary Resuscitation Training	Dr. K L Jayaratne			
	Sub Project 6: Blockchain and dApps	Dr. T N K de Zoysa			

3.1.5 Allocation for Research through postgraduate Programme And Utilization

In order to maintain the postgraduate programme at the UCSC, it is very important to maintain the research and development activities as the sustainability of masters and research degree programmes at the 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 masters degree and external degree programme income was allocated during last 15 years to establish the sustainability of research activities at the UCSC. This allocation has been used to support research projects as well as 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 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 fund to cover their research expenses such as acquiring goods and services including access to Internet directly related to their research work, subscription of professional organizations, and partial support for externally funded projects. Following table shows the utilization of Research allocation during 2018. Journal publications in indexed journals were supported through the open quota allocation.

Table 3.1.5. A: Utilization of Research Allocation during 2018

Staff Members	Utilization	Average Utilization
Senior Staff (22)	Rs. 5,071,424.53	Rs. 230,519.29
Junior Staff (03)	Rs. 282,011.80	Rs. 94,003.93
Total Staff – (25)	Rs. 5,353,436.33	Rs. 214,137.45

It is important to note that the UCSC Research allocation has been built using generated income and donation of external parties during the last 15 years. The continuity of research and development irrespective of government funding and workload is very important requirement for the sustainability of UCSC.

3.1.6 Research Groups at UCSC

In order to promote the collaborative research culture, UCSC staff is invited to carry out research and development activities as small teams comprising one or more senior staff member, 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. Following table presents the details of active research groups in 2018.

Table 3.1.6. A: Research Groups in 2018

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 targeted to meet the needs of people in developing countries	Prof. Gihan Wikramanayake, Dr. Jeevani Goonatillake, Ms. Lasanthi De Silva, Ms. Anusha Walisadeera, Prof. Athula Ginige/ University of Western Sydney, Australia, Prof. Ramesh Jain/ University of California, Irvine, USA, Prof. Genny Tortora/ University of Salerno, Italy, Ms. Tamara Ginige/ Australian Catholic University North Sydney, Australia	http://ucsc.cmb.ac.lk/social-life-networks/
Sustainable Computing Research Group (SCoRe)	To generate computing solutions through identifying low cost methodologies and strategies that lead to sustainability.	Dr. Kasun de Zoysa, Dr. Chamath Keppitiyagama, Manjusri Wickramasinghe, Kasun Gunawardana, Chathura Suduwella, Charith Elvitigala, Asanka Sayakkara, Namal Jayasuriya, Primal Wijesekara	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, Rear Admiral Ranjith Senadheera (Sri Lanka Navy), Mr. R.P. Abeyakone (National Institute of Fisheries and Nautical Engineering), Prof. Remy Rosa, Mr. Kapila Dias, Dr. Chamath Keppitiyagama, Mr. Damitha Sandaruwan, Mr. Randika Ariyaratna, Mr. Poshitha Ravinath, Mr. Chandana Perera, Mr. Kanchana Manamperi, Mr. Pubudu Ranatunga, Mr. ChathekaUduwarage, Mr. Chaturra Gunasekara	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. Viraj Welgama, Mr. Chamila Liyanage, Mr. Namal Udalamatta, Mr. Randil Pushpananda, Mrs. Thilini Nadungodage, Mrs. Dilhani Samaranayake, Ms. Arunja Sivapathasuntharam, Miss. Amathri Perera, Miss. Lakshika Nanayakkara, Miss. Kavindi Gimhanika Wedasinghe	http://ucsc.cmb.ac.lk/research-groups/language-technology-research-laboratory/
E-Health Group		Dr. Shiromi Arunathilaka	http://ucsc.cmb.ac.lk/research-groups/e-health-group/
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, Mr. K.P.M.K. Silva, Mr. W.R.M.U.K. Wickramasinghe, K. Ganeshamoorthy	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. Ruvan Weerasinghe, Ms. Rupika Wijesinghe, Dr. Mindika Premachandra, Prof. Mahesan Niranjana/ University of Southampton, UK, Dr. Vinod N. Rajapakse/ National Institute of Health, USA, Dr. Yawwani Poornima/ University of Southampton, UK, Mr. Luke Nitish/ University of Alberta, Canada, Ms. Warunika Ranaweera/ Simon Fraser University, Canada, Mr. Shazan Jabbar/ University of Alberta, Canada, Mr. Bhagya Senadeera,	http://ucsc.cmb.ac.lk/research-groups/bioinformatics-and-computational-biology-bcb-research-group/

3.1.7 Research Publications and Awards

Following table shows the summary of research publications in 2018 and details of all the publications are given at the end of this section.

Table 3.1.7. – A: Publication Summary - 2018

Type of publication	Held/Published in Sri Lanka	Held/Published outside Sri Lanka	Total
Conferences	23	20	43
Journals	02	17	19
Book Chapters	01	-	01
Books	01	-	01
Total	27	36	64

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 2018.

3.1.7. - B: Detail Analysis of Publications - 2018

Name of Staff Member	Conferences	Journals	Total
Prof. K.P. Hewagamage	6	1	7
Prof. N.D. Kodikara		2	2
Dr. A.R. Weerasinghe	6	1	7
Dr. A.S. Atukorale	1		1
Mr. Gihan Senaviratne		2	2
Dr. T.N.K. De Zoysa	4		4
Dr. G.D.S.P. Wimalaratne	1	4	5
Dr. T. Sritharan	1		1
Dr. D.D. Karunaratne	3	3	6
Dr. M.D.J.S. Goonatilake	4		4
Dr. K.L. Jayaratne	3	4	7
Dr. S.M.K.D. Arunathilake	1	1	2
Dr. Chamath Keppetiyagama	7	1	8
Dr. H.A. Caldera	1		1
Dr. M.G.N.A.S. Fernando	1		1
Dr. T.M.H.A. Usoof	1		1
Mrs. C.R. Wijesinghe	2	1	3
Dr. M.I.E. Wickramasinghe	3		3
Dr. H.E.M.H.B. Ekanayake	1		1
Dr. K D Sandaruwan	2	2	4
Dr. T.A. Weerasinghe	3		3
Dr. F.H.A.M. Premachandra	1		1

Dr. L.N.C. de Silva	1		1
Ms. D N Perera	1		1
Dr. K.G.G.Gunawardhana	3	1	4
Dr. K.H.E.L.W. Hettiarachchi	5		5
Mr. Isuru Dharmadasa	2		2
Mr. Rangana Jayashanka	4		4
Miss. Lakshika Nanayakkara	1	1	2
Mr. Prabash Kumarasinghe	1		1
Mr. A Sayakkara	2		2
Mr. R.N. Rajapaksha		1	1
Dr. Thilini Nagungoda	2		2
Dr .Randil Pushpananda	2		2

3.1.7.1 Awards for Research during 2018

UCSC continued to encourage students and staff submitting their research and development work for external evaluation to obtain the national and international recognition. In 2018, **8 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 – 2018

Name of the awards	Awarding Agency	Publication or Project	Team members
Excellence Paper award	11 th international Conference on Ubi-Media Computing and Workshops Organized by School of Education Science, Nanjing Normal University	Critical Success Factors for Developing an Alliance between Learning Analytics and Learning Design	Mr. Rangana Jayashanka, Prof. K.P.Hewagamage and Dr.(Ms.)E. Hettiarachchi
1st place - Project; Health Education and Health Promotion	3 rd Commonwealth Digital health Conference & Awards	Project: VR for CPR	Ms. H. S. U. Liyanage, Dr. K L Jayaratne, Dr. M I E Wickramasinghe
1st runner-up-Project : E Learning		Project: Online PCD	Ms. M A D L Mudannayake, Dr. T. A.Weerasinghe,
Silver Award: Tertiary student project (Business)	National best Quality ICT Award (NBQSA) 2018, Sri Lanka	Project: An ICT based Solution for Virtual Garment Fitting for Online Market Place	Dr. K.D.Sandaruwan and Maheshya Weerasinghe

National Science Foundation Technology Award of Excellence	National Science Foundation, Sri Lanka	Project: Face ID: Computer based forensic Facial Reconstruction Using 3D Graphics	Dr. A.T. Dharmarathna, Dr. K.D.Sandaruwana, Dr. D. D. Karunaratne, and Prof. M.Vidanapathirana
Best Paper Award	IEEE, International Conference on Advances in Learning Technologies (ICTAL 18), Indian Institute of Technology, Bombay, Mumbai	Improving Blended Learning in Higher Education through the Synergy between Learning Design and Learning Analytics	Mr. Rangana Jayashanka, Prof. K.P.Hewagamage and Dr.(Ms.)E. Hettiarachchi
Presidential Awards for the Scientific Publications	National Research Council/President's Office	Web of Science Publications	Dr. G.D.S.P. Wimalaratne
Best Paper Award	2018 International Conference on Advances in ICT for Emerging Regions (ICTer)	Machine Learning Approach to predict the Survival Time of Childhood Acute Lymphoblastic Leukemia Patients	Mr. Rangana Jayashanka, Mrs. C.R.Wijesinghe, Dr. A.R.Weerasinghe, Mr. D.C.Pieris

3.1.7.2 Keynote/Invited Speeches of UCSC Staff

3.1.7.2. - A: Detail of Keynote / Invited speeches of UCSC staff - 2018

Name of the staff	Event	Topic
Dr. A. R. Weerasinghe	6th international workshop on spoken language technologies for under-resourced languages (SLTU'18) held in Gurugram, India, 29-31 August 2018.	Digital Revolution of Under-resourced Languages for Preservation of Linguistic Diversity
Dr. A. R. Weerasinghe	SLAAS Symposium on “Ethical Issues Arising from the Proliferation of Information and Communication Technology” held on 25th October 2018	Ethics and the challenge of non-human intelligence
Dr. A. R. Weerasinghe	The Big Data Forum of the Informatics Institute of Technology on the occasion of the graduation of the first batch of students from the Robert Gordon University Big Data Analytics Masters programme,	AI Ahead: Can humans navigate our way through its challenge?

	held at the BMICH on 15th November 2018.	
Dr. T. A. Weerasinghe,	Ministry of Education, on 01st of June 2018	Learning in the New Era at Introductory Workshop on Grade 11 Science SMART Textbook for the Science and ICT Directors of Zonal Education Offices
Dr. Kasun de Zoysa	2018 International Conference on Advances in ICT for Emerging Regions (ICTer)	dApps: The Token Economy
Prof. K. P. Hewagamage	Research Symposium, Faculty of Education, University of Colombo	Educating for the digital world

3.1.7.2. - B: Detail of UCSC staff as Resource Persons at Workshops/Tutorial/Seminars – 2018

Name of the staff	Event
Dr. T A. Weerasinghe, Ms. M.B.P. Dissanayake, and Ms.K.M.G.B. Nishakumari,	Workshop on "Exploration, Development and Implementation of Blended Learning" for Institute of Human Resource Advancement (IHRA) University of Colombo on 30th of May 2018
Dr. T A. Weerasinghe, Ms. M.V.P.T.Lakshika, Ms. H Abeyratna, Mr. K.A.R. Perera, Ms. M.B.P. Dissanayake, Ms. L.H.I. Dilshani and Ms.K.M.G.B. Nishakumari	Blended Learning workshops, Law Faculty, Art Faculty and Faculty of Management and Finance of the University of Colombo, from August to December 2018
Dr. E Hettiararchchi	Workshops on Blended Learning were conducted for the Academic and Academic Support staff members of the Sri Palee Campus, University of Colombo, 4th May, 1-2nd August 2018
Persons Prof. K. P. Hewagamage and Dr. T A. Weerasinghe	Symposium on "Blended Learning for Quality Higher Education" of the University of Colombo on the 13th of the December , University of Colombo School of Computing – Resource
Dr. A. R. Weerasinghe	Tutorial on Text Analytics at the Post-conference workshop series of the International Conference on Advances of ICT in Emerging Regions (ICTer), held in Colombo, Sri Lanka, 29th September 2018.
Dr. T.N.K. de Zoysa	Speech on “Smart Contracts; The next generation of Digital Commerce” at the Post-conference workshop series of the International Conference on Advances of ICT in Emerging Regions (ICTer), held in Colombo, Sri Lanka, 29th September 2018.
Dr. A. R. Weerasinghe	ICT Skills in Higher Education Workshop at the Staff Development Center of the South Eastern University of Sri Lanka, Oluvil, 23rd – 24th February 2018.

3.1.7.3 Visiting Researchers at UCSC

Table 3.1.7.3. – A: Visiting Researchers at UCSC – 2018

Visiting Researcher	Duration	Activity
Mr. George Robertson Show University of Strathclyde, Glasgow, London	07 th – 14 th August 2018	To deliver Lecture series for MIS students
Dr. D.P.Liyanage Information Security Manager, Thames Water, UK	13 th July - 9 th August - 2018	
Prof. Abhaya Induruwa Principal Lecturer Canterbury Christ Church University, UK	18 th -22 nd September - 2018	
Dr. Primal Wijesekara Research Scholar University of California, USA	12 th December 2018– 22 nd January 2019	To deliver Lecture series for MIS and Cybersecurity students
Prof. Christan Rohner University of Uppsala, Sweden.	22 nd – 28 th September 2018	Keynote Speaker of ICTer 2018 and deliver Lecture series for MIS students
Prof. Koichi Yamada, Nagoaka University of Technology, Information and Management Systems Engineering, Graduate School of Engineering, Japan.	27 th - 29 th September 2018	Keynote Speaker of ICTer 2018
Prof. Paola Trunfio (ACM Distinguished Speaker) – Associate Professor of Computer Engineering at University of Calabria, Italy	27 th - 29 th September 2018	Keynote Speaker of ICTer 2018
Dr. Kevin Seneviratne, Consultant, Senior Database Administrator and Consultant Data Services Group, Coles Supermarkets, Australia.	26 th September 2018	Keynote Speaker of ICTer 2018 and Prof. V.K. Samaranyake Memorial Oration 2018
Dr. Nuwan Goonasekara, Academic Specialist, Medicine, Dentistry and Health Sciences, The University of Melbourne, Australia.	27 th - 29 th September 2018	Resource person for ICTer 2018

3.1.8 Professor VK Samaranyake Oration – 2018

Prof. V.K. Samaranyake Memorial Oration 2018 was conducted on 26th September 2018 at the Professor V K Samaranyake Auditorium of the UCSC by Dr. Kevin E Seneviratne, who was a Senior Database Administrator and Consultant at Data Services Group, Australia. The topic of the oration was “A Journey from Applied Statistics to Data Science and Beyond”. The details of this event are available at <http://ucsc.cmb.ac.lk/vks-oration/vks-oration-2018/>.

3.1.9 International Conference – ICTer 2018

Setting up mechanisms for identifying and carrying out relevant research is another strategy of the UCSC to promote its research profile. Hence, the ICTer Conference is considered as an important calendar event of the organization.

18th International conference on Advances in ICT for emerging regions held from 26th to 29th September 2018 brought together local and international researchers and practitioners in Computing. The main conference was held at the University Of Colombo School Of Computing Prof. V.K Samaranayake Auditorium on 27th and 28th of September. Since 1998, ICTer has been playing a leading role in creating a unique platform to those who are interested and skilled in the domain of computing to present their achievements and ideas. Creating an international forum to the local participants is another significant aspect of this conference.

ICTer is a concept of late Prof. V. K. Samaranayake who was the founding Director of UCSC. Later, it was linked with the Institute of Electrical and Electronic Engineers (IEEE) with the intention of grabbing an international recognition and its name was changed in order to emphasize its regional importance. UCSC believes this conference as one of its most significant events considering its service in disseminating the knowledge in collaboration with other universities, public and private organizations. A significant number of academics and practitioners on the industry take part in this conference by submitting and reviewing research papers as well as by contributing to organize the conference.

The year 2018 ICTer had **received 134 submissions** which were double-blind reviewed with each paper receiving at least three reviews. Based on the reviewers' feedbacks, **61 full papers and 05 posters** had been selected for the main conference with **the acceptance rate of 49%**. The industry track which was carried out for the first time in the ICTer records was another outstanding event of the 18th conference. The main purpose of the industry track was to allocate a space for the leaders and visionaries of the Computing industry in Sri Lanka to share their achievements and experience in Computing.

All the accepted publications were presented in three parallel sessions under the themes of Natural language processing and Text analytics, Cyber physical systems, Big data analytics, Image processing, visualization, modelling and simulation, Autonomic computing, Cloud computing, virtualization and middleware, Cognitive reasoning, Smart cities and environments, Software reliability and large-scale distribution, Parallelization, HPC and GPU computing, E-Science in social science, health, climate and education, Context aware computing, Cybersecurity and application security, Internet of Things, Mobile and sensor networks, Swarm intelligence, evolutionary computing and neural networks, ICT for Development, E-Learning, ICT Innovation, Block chain technology and Cryptocurrencies.

It was a great honour for us to have **four prominent international academic personalities as our keynote speakers** on that special day. They were Prof. Christian Rohner from Department of Information Technology, Uppsala University, Sweden, Prof. Koichi Yamada from Nagoaka University of Technology, Information and Management Systems Engineering, Graduate School of Engineering, Japan, Prof. Paolo Trunfio from Associate Professor of Computer Engineering at University of Calabria, Italy, Dr. Kevin Seneviratne , Consultant, Senior Database Administrator and Consultant Data Services Group, Coles Supermarkets, Australia, Dr. Kasun De Zoysa from The University of Colombo School of Computing, Sri Lanka. The main conference was held on the 27th and 28th of September 2018 and several pre

and post-conference workshops were held on the 26th and 29th of September at the University of Colombo school of Computing.

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

- <http://www.ictcr.org/conference/keynote-speakers-2018/>
- <https://www.youtube.com/watch?v=tmmBKfyJYjQ&list=PLojgt3nxlK3X57Pjen1pyFDUH2D02Oius>

Conference Chair

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

Co-Chairs

Prof. Priyantha Hewagamage, University of Colombo School of Computing, Sri Lanka

Dr.M.G.Noel A.S Fernando, University of Colombo School of Computing, Sri Lanka

Programme Co-Chair

Dr. Nalin Ranasinghe, University of Colombo School of Computing, Sri Lanka

Prof. Nihal Kodikara, University of Colombo School of Computing, Sri Lanka , Member IEEE Computer Society Sri Lanka Chapter

Dr. D.D. Karunaratna, University of Colombo School of Computing, Sri Lanka

Dr. Hakim Usoof, University of Colombo School of Computing, Sri Lanka

Dr. Kasun De Soysa, University of Colombo School of Computing, Sri Lanka

Dr.L.N.C De Silva, University of Colombo School of Computing, Sri Lanka

Dr. F H A M Premachandra, University of Colombo School of Computing, Sri Lanka

Dr. Shanmuganathan Vasanthapriyan, University of Sambaragamuwa, Nominee from IEEE Sri Lanka Section

Steering Committee

Prof. Athula Ginige, University of Western Sydney, Australia

Prof. Saman K. Halgamuge, Melbourne School of Engineering, University of Melbourne, Australia

Prof. A. Induruwa, School of Law, Criminal Justice and Computing, Canterbury Christ Church University, UK

Mrs. H.R.K. Nagahamulla, Department of computing and information systems, Faculty of Applied science, University of Wayamba.

Dr. Thusangi wannige, Department of Computer Science, University of Ruhuna.

Dr. Subha Fernando, Department of Computational Mathematics, University of Moratuwa.

Dr. K. Thabotharan, Department of Computer Science, University of Jaffna.

Dr. Shehan Perera, Department of Computer Science and Engineering. University of Moratuwa.

Mr. Gamindu Hemachandra, Asia Pacific Institute Of Information Technology.

Dr. Rohan Samarasinghe, Sri Lanka Institute of Information Technology.

Publication Co-Chair

Mr. Viraj Welgama, University of Colombo School of Computing, Sri Lanka
Ms. Yohani Ranasinghe, University of Colombo School of Computing, Sri Lanka

Industry Liaison

Dr. Shiromi Arunathilake, University of Colombo School of Computing, Sri Lanka
Dr. Kasun De Zoysa, University of Colombo School of Computing, Sri Lanka
Mr. I M Dharmadasa, University of Colombo School of Computing, Sri Lanka
Ms. D.N. Perera, University of Colombo School of Computing, Sri Lanka

Publicity & Public Relations Co-Chairs

Dr. Enosha Hettiarachchi, University of Colombo School of Computing, Sri Lanka
Ms. K.K. Sumanasekara, University of Colombo School of Computing, Sri Lanka
Mr. Rangana Amaraweera, University of Colombo School of Computing, Sri Lanka

Web Master

Mr. Tarindu Rajakaruna, University of Colombo School of Computing, Sri Lanka

Finance Chair & Treasurer

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

Conference Secretariat

Ms. K.W.N.S. Anuradhani, University of Colombo School of Computing, Sri Lanka
Ms. D.A.S. Ruwanmini, University of Colombo School of Computing, Sri Lanka

More details including pictures of the event is available at <http://ucsc.cmb.ac.lk/events/18th-international-conference-advances-ict-emerging-regions/>. The conference website is <http://www.ictcr.org/conference/ictcr2018/>.

3.1.10 International Journal – ICTer

The International Journal on Advances in ICT for Emerging Regions (ICTer) aims to promote journal level publications through a peer review process while mentoring those who find difficulties in publishing their articles. 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://www.ictcr.org/Journal>. **In 2018, the impact factor of ICTer Publication is 0.70 according to Research Gate and Google Scholar h-index is 9.** Following members were appointed as the staff of ICTer Journal.

Editor in Chief

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

Associate Editors

Prof. K.P. Hewagamage, University of Colombo School of Computing, Sri Lanka
Mr. G.K.A. Dias, University of Colombo School of Computing, Sri Lanka
Dr. Peter Mozellius, Mid Sweden University, Sweden

International Advisory Panel

Prof. Robert Ramberg, Stockholm University, Sweden
Prof. K. Harada, Hiroshima University, Japan
Prof. Heinrich C. Mayr, University of Klagenfurt, Austria
Prof. Saman K. Halgamuge, Austrian National University, Australia
Prof. Maria R. Lee, Shih Chein University, Taiwan
Prof. Love Ekenberg, Stockholm University, Sweden
Prof. R.K. Shyamasundar, Indian Institute of Technology Bombay, India

Chair of ICTer Steering Committee

Dr. A.M. Premachandra (January 2018 to July 2018)
Dr. K.H.E.L.W. Hettiarachchi (from August 2018 onwards)

ICTer Steering Committee Members

Prof. K.P. Hewagamage
Dr. D.N. Ranasinghe
Dr. T.M.H.A. Usoof
Mr. S.T. Nandasara
Mr. W.V. Welgama

Journal Manager

Ms. M.B.P. Dissanayake

Web Master

Mr. G.M.T.C Galahena

Copy Editor

Ms. S.D. Gunawardhana

Journal Design

Ms. M.G.A. Srimaalee, Ms. K.A.R. Perera , Ms. K.M.H.B. Abeyratne

The statistics of ICTer Journal as follows:

1. Number of submissions (2018) = 12
2. Number accepted = 7
3. Number published = 7
4. Number of issues = 2 – available at <http://journal.icter.org/index.php/ICTer/issue/archive>

Major activities of ICTer Journal during 2018

- Appointing Dr. K.H.E.L.W. Hettiarachchi as the new Chair of ICTer Steering Committee from 03rd August 2018 onwards.
- Published – 2018 Special Issue, Vol 11, No 1 (July 2018)
- Published – 2018 November Issue, Vol 11, No 2 (November 2018)

3.1.11 Research Publications – 2018

3.1.11.1 Journal Publications – 2018

01	Dissanayake Nalaka R, Dias, G.K.A. “ <i>Balanced Abstract Web-MVC Style: An Abstract MVC Implementation for Web-based Applications</i> ”. GSTF Journal on Computing (JoC), [S.l.], v. 5, n. 3, jan. 2018. ISSN 2010-2283.
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02	Nalaka. R. Dissanayake, Mr. G.K.A. Dias, " Rich Web-based Applications: An Umbrella Term with a definition and Taxonomies for development Techniques and Technologies ", International Journal of Future Computer and Communication, Vol. 7, No. 1, March 2018. doi: 10.18178/ijfcc.2018.7.1.513.
03	Maneesha Ratnadiwakara, Sameera Vithanage, Damitha Sandaruwan, Maheshya Weerasinghe, Chathuranga Ranasinghe, S.M.K.D. Arunathileka, " A Novel approach to detect muscle strength imbalances via motion analysis using Sensory Inputs ", European Journal of Computer Science and Information Technology Vol.6, No.5, pp.37-50, November 2018. Print ISSN: 2054-0957 (Print), Online ISSN: 2054-0965 (Online)
04	H M K K B Herath, G D S P Wimalaratne, " A Collaborative Platform Featuring Visibility, Tracking, Monitoring and Awareness for building Security In. ", International Journal of Computer and Communication Engineering (IJCCE), Paper ID: C116, ISSN 2010-3743, doi: 10.17706/ijcce.2018.7.4.145-166
05	Chaman Wijesiriwardana, G D S P Wimalaratne, " Fostering Real-time Software Analysis by Leveraging Heterogeneous and Autonomous Software Repositories ", IEICE TRANS. INF & SYST., VOL.E 101 -D, No. 11, November 2018. DOI: 10.1587/transinf.2018EDP7094
06	D D Karunaratna, Nasik Shafeek, " An Extensible Approach to Generate Flowcharts From Source Code ", International Journal of Research Granthaalayah, Vol.6 (Iss.9): September 2018, ISSN- 2350-0530(O), ISSN- 2394-3629(P), DOI: 10.5281/zenodo.1465019.
07	D D Karunaratne, " Building Ontologies Over Relational Databases ", International Journal of Research Granthalayah, Vol.6 (Iss.11): November 2018, ISSN- 2350-0530(O), ISSN- 2394-3629(P), DOI: 10.5281/zenodo.1929732.
08	M D S Seneviratne, K S D Fernando, D D Karunaratne " Generation of relation - extraction - rules based on Markov logic network for document classification " International Journal of Advanced Computer Research, Vol X (XX), ISSN (print): 2249-7277, ISSN (online): 2277 - 7970.
09	Fazeena Jamaldeen, Priyantha Hewagamage, Yamaya Ekanayaka, " Design Guidelines for Creating Mobile Language Learning Applications ", International Journal of Interactive Mobile Technologies (iJIM), pp52-74, 2018. http://journals.sfu.ca/onlinejour/index.php/i-jim/article/view/8153
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	R.W.M.N.H.Wanigasekera, K.A.K.Indrachapa, W.K.P.Wanniachchi, D.H.U.Perera and K.L. Jayaratne (2018), " Automatic Accompaniment Music Generation and Singing Skill Evaluation for Vocal Melodies ". International Journal of Computing (JOC) by Global Science and Technology Forum (GSTF), 6(2).
12	E.D.N.W. Senevirathna and Lakshman Jayaratne (2018), " Radio Broadcast Monitoring to Ensure Copyright Ownership ". International Journal on Advances in ICT for Emerging Regions (ICTer), 11(1).
13	C.O.B. Weerathunga, P.V.K.G. Gunawardena and K.L. Jayaratne (2018), " Classification of Public Radio Broadcast Context for Onset Detection ". International Journal of Computing (JOC) by Global Science and Technology Forum (GSTF), 6(2).
14	S. D. L. Gunawardena, Ruvan Weerasinghe, Rupika Wijesinghe (2018). " Predicting Drug-Drug Interactions for Premarket Drug Development Process: A Network Based Approach. ", The International Journal on Advances in ICT for Emerging Regions, Vol. 11, No. 1.
15	G.D.S. Prasad Wimalaratne, Nideshika Ellepola, (2018), " Video Tracking based Rehabilitation Exercise Monitoring Tool for Osteoarthritis ", Foundation of Computer

	Science (FCS), Vol. 179, Iss. 40, pp 51-58, NY, USA. http://www.ijcaonline.org/archives/volume179/number40/29351-2018916954
16	Akarshani Amarasinghe, Prasad Wimalaratne, (2018), " An Assistive Technology Framework for Communication with Hearing Impaired Persons ", GSTF Journal on Computing (JoC), Vol. 5, Iss. 2
17	Lakshika Nanayakkara, Nihal Kodikara, (2018), " An Automated Approach for Screening Microaneurysms and Exudates of NPDR Patient ", GSTF Journal on Computing (JoC), Vol. 5, Iss. 4
18	Damitha Sandaruwan, Nihal Kodikara, Chamath Keppitiyagama, Remy Rosa, (2018), " Perception Enhanced Virtual Environment for Maritime Applications ", GSTF Journal on Computing (JoC), Vol. 1, Iss. 1
19	Imashi Sandamini, Aparni Jayawardena, Lochana Batuwitige, Roshan Rajapakse, Damith Karunaratne, Muditha Vidanapathirana, Aruna Pallewatte, (2018), " Facial Soft Tissue Thickness Trends for Selected Age Groups of Sri Lankan Adult Population ", Forensic Science International, Vol. 293, 102.e1-102.e11,

3.1.11.2 Conference Publication – 2018

01	M.G.N.A.S.Fernando, " Teaching, Learning and Evaluation Enhancement of information communication technology Education in Schools through pedagogical and E-Learning Techniques ", ICTLHE 2018: 20th International Conference on Teaching and Learning in Higher Education, Holiday inn Paris Gare Montparnasse 79 - 81 avenue du maine - 75014, Paris, France. http://waset.org/conference/2018/06/paris/ICTLHE
02	T. Sritharan, " Impact of Mathematics on the Theoretical computer science course units in the general degree program in computer science at Sri Lanka state universities. ", InSITE 2018: Informing Science + IT Education Conference, La Verne, California, United States, 23 - 28 June 2018, www.informingscience.org/Conference/InSITE2018/
03	Rangana Jayashanka, K P Hewagamage, E. Hettiarachchi, " Improving Blended Learning in Higher Education Through the Synergy Between Learning Design and Learning Analytics ", ICALT 2018, IIT Bombay, India, 9 - 13 July 2018,
04	T.A.Weerasinghe, " An Evaluation of Different types of Blended Learning Activities for Higher Education ", 18th IEEE International Conference on advanced learning technologies (ICALT 2018), IIT Bombay, India, 9 - 13 July 2018.
05	R A O M P D Akmeemana, A.I.Walisadeera, A.Ginige, Jeewani Goonetillake, " A Semi-Automatic Approach in Collaboratively Populating an Ontology for Ontology - illiterate Users ", The 18th International Conference on Computational Science and its Applications (ICCSA 2018), Australia
06	Anuradha Peramunugamage, T.M.H.A.Usoof, Priyan Dias, " Can Technology make a difference to level of engagement in large classes in engineering education? - a case study in Sri Lanka ", 21st International conference on interactive collaborative learning (ICL2018), Greece.
07	C. S. Premarathne, P.Sellapan, K.L.Jayarathne, " Improving Event Resolution in Cricket Videos ", 2nd international conference on Graphics and Signal Processing (ICGSP 2018), Sydney, Australia, 6 – 8 October 2018, www.icgsp.org
08	Maneesha Perera, Damith Karunaratne, K.H.E.L.W.Hettiarachchi, " Using Bezier Curves to refine road Vector Data Through Satellite Images ", The 2nd International Conference on Video and Image Processing (ICVIP 2018), Kowloon Bay International Trade & Exhibition Center, Hong Kong, http://icvip.org

09	K.A.T.A. Karunaratne, H.E.M.H.B. Ekanayake, " Controlling Home appliances through Thought Commands ", ICTer 2018, University of Colombo School of computing, www.ictcr.org
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3.1.11.3 Book chapter – 2018

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	<p>date: Published: July 18th 2018, https://www.intechopen.com/books/advanced-learning-and-teaching-environments-innovation-contents-and-methods, Page No 1, 21.</p> <p>We are also proud to be endorsed by Web Of Science, the world’s leading citation index and other major scientific databases.</p> 
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3.1.11.4 Book Publications

01.	<p>පයිතන් භාවිතයෙන් පරිගණක වැඩසටහන් මූලධර්ම (Fundamentals of Computer Programming using Python) ආචාර්ය එම්.ජී.එන්.ඒ.එස්. ප්‍රනාන්දු Sarasavi Publishers, 2018, ISBN 978-955- 31-1110-4</p>
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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. The intake consists of 200 students for the Computer Science degree and 100 students for the Information Systems degree. 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 annually admits 230 postgraduate students for the three Master's degree programmes as 100 students for Master of Computer Science degree, 100 students for Master of Information Technology degree and 30 students for Master of Information Security degree. UCSC has over 50 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 provide 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 20 units/centres/departments. 109 positions have been filled on a permanent basis and another 66 positions are filled on 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 Center 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 of staff, who directly involve in generating income, are paid from the respective funds of those programmes and they are identified in those budgets of projects. Government allocation is used to cover salaries of staff who engage in the undergraduate programmes. However, the government allocation was not adequate to cover overall fund requirements and UCSC has to spend its generated income (including previous years savings) to cover 40%-30% of both recurrent and capital expenditure in 2018.

Table 4.1. A: Summary of UCSC Staff Distribution

Designation Department/ Division/ Unit/ Centre	Approved Cadre	Existing Cadre	
		Permanent	Contract/Tem p/ Assignment *
(1) Director's Office	5	3	2
(2) Establishment Division	8	3	2
(3) General Administration Division	13	5	7
(4) Academic & Publication (Undergraduate) Division	15	11	01
(5) ISE Department (Academic)	55	23	26
(6) CIS Department (Academic)	41	11	
(7) CMT Department (Academic)	50	14	
(8) Finance Division	14	10	6
(9) Examination Division	11	7	2
(10) Advanced Digital Media and Technology Centre (ADMTC)	7		3
(11) Centre for Digital Forensic (CDF)	4	1	1
(12) Library	6	3	
(13) Postgraduate Division	3	2	2
(14) Engineering & Maintenance	11	5	2
(15) Network Operating Centre (NOC)	15	5	6
(16) External Degree Centre (EDC)	11	6	3
(17) Professional Development Centre (PDC)	2		1
(18) Computer Service Centre (CSC)	2		2
Total	273	109	66

Table 4.1. B: The distribution of cadre positions against the salary scale – 31st December 2018

Staff category	Salary Scale	Approved Cadre	Existing Cadre		
			Male	Female	Total
Academic Staff	U-AC 2 to U-AC 5	91	36	19	55
	U-AC 1	53	6	18	24
Administrative Staff	U-EX 2	18	4	10	14
Academic Support Staff	U-AS 2 & U-AS 1	20	9	4	13
Technical Staff *1	U-MN 4	10	1		1
	U-MT 1		5		5
Clerical & Allied	U-MN 4	54		4	4
	U-MN 1		9	21	30
Primary Staff	U-PL 3	5	3		3
	U-PL 2	4	1		1
	U-PL 1	17	15	10	25
Total		272	89	86	175

In 2018, some vacancies for the Academic staff were filled appointing Temporary Assistant Lecturers. According to the table given above, there were 175 staff members working in the organization and there are 98 vacancies existing according to the cadre manual.

Staff	Permanent			Temp./Cont./Assign.		
	Male	Female	Total	Male	Female	Total
Senior Professor	1	0	1			
Professor	1	0	1			
Senior Lecturer	19	6	25			
Lecturer	2	1	3	1		1
Prob. Lecturer	12	7	19			
Temporary Lecturer/ Asst. Lecturer					5	5
Temporary Instructor				6	18	24
Total	35	14	48	7	23	30

4.2 Overall Profile of the UCSC Staff

Highest Computing Qualification of the Academic Staff

No. of Staff	PhD	MPhil	MSc	BSc (Hons)
49	26	4	5	14

Highest Academic Qualifications of the Administrative and Finance Staff

No. of Staff	PhD	MPhil	MSc/MBA	Bachelor	Diploma
13	-	1	4	6	1

One Academic staff member obtained study leave to read MPhil degree in a local university during 2018. Two Academic staff members obtained study leave to read a doctoral degree in a foreign university. One Administrative staff member obtained sabbatical leave in 2018. Since all permanent non-academic cadre positions were not filled, UCSC employed temporary staff on contract basis or assignment basis to cover the duties of different divisions.

4.3 Recognition of UCSC Staff

In 2018, the Long Service Award was conducted to recognize the staff who have completed more than 25 years of service in the university system. Following staff members received the long service award in 2018.

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 31.12.2018
Mr. ST Nandasara	Lecturer	17.01.1983	16.01.2018	35 Years
Dr. AR Weerasinghe	Senior Lecturer Gr. I	01.05.1988	30.04.2018	30 Years
Mr. GP Seneviratne	Senior Lecturer Gr. I	01.03.1988	28.02.2018	30 Years
Dr. MGNAS Fernando	Senior Lecturer Gr. I	05.01.1988	04.01.2018	30 Years
Dr. KL Jayarathne	Senior Lecturer Gr. I	21.06.1993	20.06.2018	25 years

Ms. SD Chandralatha	Senior Assistant Registrar	14.12.1993	13.12.2018	25 years
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4.4 Staff Development and Training

The 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 were supported using both funds of generating income as well as from government grant. In 2018, Board of Management approved a new policy on the staff development and training to formalize the process.

1. Permanent Academic were supported from 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 participates are given in the research section of this report.
2. Depending on the job requirement of staff was given a special training in local organizations during 2018. 12 Staff members were given such opportunity during 2018 and Rs. 168,000/- was spent for such a training requirement.
3. In house training programmes were conducted as a group training during 2018. Hence, minutes writing workshop, Google Apps were conducted using both internal and external resource persons.
4. Academic staff who were not permanent were supported to attend ICTer2018 and NICT2018 conferences in order to improve their research and development awareness. Permanent academic staff were also supported to attend those conferences.
5. An outbound training programme together with development of strategic plan for 2019-2023 was conducted in November 2018. Three days workshop was organized with the help of welfare society in order to improve the social harmony and friendship among the staff. It was very productive workshop and relevant allocation of generated income was used to finance the activity.
6. In 2018, one administrative staff member was supported to participate an international workshop in Thailand and one non-academic staff member was supported to participate in cricket tournament in India. Relevant allocation of generated income was used to sponsor these activities.

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 which 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 after working hours. UCSC has also partially supported employees who are interested to obtain Agraphara insurance scheme to face tragic situations in their life, specially in unexpected critical illness.

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.

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 (QAU) as the main centre to coordinate the quality assurance of all faculties and institutes in the university. The Quality Assurance Cell (QAC) of the 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 the 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 2018

- (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 K.H.E.L.W. Hettiarachchi, Senior Lecturer, Secretary QAC
- (iv) SAR/QAC - Ms J A M S Wijerathna, Senior Assistant Registrar
- (v) Chairperson of the Curriculum & Academic Development Committee - Dr (Mrs.) M D J S Goonetilleke,
- (vi) Heads of Departments
- (vii) Coordinators of the Undergraduate/Postgraduate/External degree programmes
 - Dr M G N A S Fernando, Senior Lecturer, Coordinator – Computer Science (CS)
 - Dr T N K De Zoysa, Senior Lecturer, Coordinator –Information Systems (IS)
 - Mr W V Welgama – Senior Lecture, Coordinator – Software Engineering (SE)
 - Ms M W A C R Wijesinghe, Senior Lecturer, Coordinator/CS – Faculty of Science
 - Dr T N K De Zoysa, Senior Lecturer Gr, Coordinator – Master of Information Security (MIS)
 - Dr H A Caldera, Senior Lecturer Gr, Coordinator – Master of Information Technology (MIT)
 - Dr H E M H B Ekanayake, Senior Lecturer, Coordinator – Master of Computer Science (MCS)
 - Dr D D Karunaratna, Academic Coordinator of External Degree Programme
- (viii) Coordinators of the Centres (E-Learning and Professional Development,)
 - Dr D D Karunaratna, Senior Lecturer, Coordinator/ e-Learning Centre (eLC)
 - Dr 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.N.R. Rajapakse, Lecturer (Probationary)
- (xi) Assistant System Developer - Mr R.J. Amaraweera, Assistant Lecturer
- (xii) Management Assistant - Ms N S Gajasinghe

The QAC activities carried-out in 2018:

- 80% attendance rule was imposed on the undergraduate degree programmes
- Employability Survey Summary Report was prepared of UCSC graduates with respect study streams.
- A workshop was held on 15th January 2018 to develop the strategic plan of QAC of the UCSC considering all degree programmes
- The evidence collection for the Programme Review (PR) of 2020 was started considering internal undergraduate degrees
- Deans List and faculty awards criteria were modified to align with the UCSC Undergraduate degree programmes while changing their names to the Directors list and UCSC awards
- Student feedback summary reports for both Undergraduate and Postgraduate was developed and distributed to relevant lecturers, coordinators and the head for the programme
- The policy on evaluating the student feedback was established in order to improve the quality culture among the staff members while addressing the student concerns about teaching, learning and assessment.
- Redesigned student feedback forms considering the requirement of more than one lecturer may conduct a course and the relevant software for automated analysis was updated for the new requirement.
- Student feedback was obtained from BIT graduates to calculate the employability and to identify their concerns about the programme.
- Software of student feedback analysis was shared among other faculties and the training was provided.
- A proposal was submitted to the UGC requesting additional funds for the QA activities of the UCSC.
- It was decided to implement the peer review process at the UCSC in the year 2019 and a form to record the review and policy of the peer review process was developed.
- It was decided to recruit a visiting professor to improve the quality assurance process.
- A Management Assistant was appointed to the QAC to carry out the required duties.
- 10 Meetings of QAC was held and extracts of minutes were submitted to academic syndicate/senate
- Attended all Management committee meetings of Quality Assurance Unit of University of Colombo

5.2 Infrastructure Development

5.2.1 Completed capital projects - 2018

Phase II of Student Canteen, Library and Administration block was completed while facilitating to expand relevant services. It was a five story building connected to main building complex. The details of the capital projects completed during the year 2018 are given in the table below. In addition to this main construction, several capital development projects were carried out and details are given below.

Name of the Project	Estimated Value Without Vat	Awarded Amount	Amount Spent Without Vat and Retention
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Reconstruction of the boundary wall near the transformer room	512,120.49	493,451.40	468,326.83
Construction of the water sump for drinking and firefighting	19,973,980.00	19,323,257.00	18,146,781.97
Phase II of canteen, library and the administration divisions	82.9 Mn	70,165,000.00	66,657,320.00
Construction of transformer & MDB room	3,964,915.95	3,939,100.00	2,654,307.16
Laying electrical cables and panel boards	13,464,250.00	11,765,245.00	943,225.75

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 programmes, 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. Following staff members of UCSC was contributed during 2018 to achieve the above objective.

Name	Organization
Athukorala DAS	<ul style="list-style-type: none"> • Acting Head, Dept of Information Communication Technology, Faculty of IT, UOC • Treasurer & Council Member of the Computer Society of Sri Lanka • Project Coordinator – National School Software Competition conducted by the CSSL and Ministry of Education • Project Technical Expert for the UNESCO-SFIT project on Seizing Digital Opportunities in Higher Education: Building staff capacity for ICT-Driven Innovation in Cambodia and Sri Lanka • Chairman-TEC-AHEAD project • TEC member – Sri Lanka Tea Board • Member of Review Committee on Bachelor of Labour Education Curriculum, IHRA • Member of the Selection Committee for the award of MPhil/PhD, UGC • TEC Member, Main Library, UOC • TEC member of Tab Project for Teachers and Students - Ministry of Education • Member of Standing Committee on External Degree of the UGC • Member of Sub Committee on Inclusion of UGC approved IT Degrees to the Service Minute of SLITS
Caldera HA	<ul style="list-style-type: none"> • TEC member of Police Department
Dayaratne MNR	<ul style="list-style-type: none"> • Department of Manpower and Employment • Department of Census and Statistics • Ministry of Education • National Transport Commission • National Insurance Trust Fund Board • Ministry of Industry and Commerce • Tower Hall Theatre Foundation

De Zoysa T NK	<ul style="list-style-type: none"> • TEC member - State Mortgage & Investment Bank • Consultant - Cooperative Rural Bank Federation Ltd • Inland Revenue Department
Fernando MGNAS	<ul style="list-style-type: none"> • Consultant - HDFC Bank • Member of a programme review panel -Ministry of Higher Education – Non-state degree programme
Goonathilake JS	<ul style="list-style-type: none"> • Ministry of Science, Technology, Research, Skills Dev & Vocational Training and Kandyan Heritage
Hettiarachchi E	<ul style="list-style-type: none"> • Resource Person- Blended Learning Sri Palee Campus, University of Colombo
Hewagamage K P	<ul style="list-style-type: none"> • Member of President’s Task Force and Cabinet appointed committee for laptop computers for school children • Advisor and Consultant to for the UNESCO-SFIT project on Seizing Digital Opportunities in Higher Education: Building staff capacity for ICT-Driven Innovation in Cambodia and Sri Lanka • Member of the LEARN Board Director • Member of Standing Committee on Computing of the UGC • Member of Standing Committee on External Degree of the UGC • Member of Sub Committee on Inclusion of UGC approved IT Degrees to the Service Minute of SLITS • Advisor to the International Olympiad Informatics (IOI) group
Jayaratne KL	<ul style="list-style-type: none"> • Consultant - Department of Registration of Persons • Consultant - Ministry of Road Dev, Transport, Housing & CI&RD of North Western Province • TEC member - Attorney General’s Department • TEC member - Development Lotteries Board • TEC member - Ministry of Finance and Mass Media
Jasinghe GP	<ul style="list-style-type: none"> • Member of Interview Panel - Sri Lanka Export Development Board
Karunaratne DDK	<ul style="list-style-type: none"> • TEC Member - Ministry of Education • Member of Interview panel - Ministry of Plantation Industries • Member of Interview panel - Sri Lanka Accreditation Board
Mathara Arachchi S.S.P.	<ul style="list-style-type: none"> • Coordinator – Young Computer Scientist’s organized by FITIS (Federation of Information Technology Industry Sri Lanka) and Ministry of Education • Member of the Telecommunication and Digital Infrastructure meeting-Host Cities Cop18, Ministry of Tourism Development, Wildlife and Christian Religious Affairs
Ranasinghe DN	<ul style="list-style-type: none"> • TEC member - Department of Meteorology
Weerasinghe AR	<ul style="list-style-type: none"> • Member of Advisory Committee - Sri Lanka Export Development Board • Member of Advisory Committee - Department of Public Finance • Member, National Planning Committee of the Sri Lanka Institute for Biotechnology. • Chairman, Prof. V. K. Samaranyake Grants Board of the Lanka Domain Registry. • Member, Board of Directors, Theekshana. • Member, Board of Directors, SLCert. • Board Member, Centre for Data Science, University of Colombo. • Member of the Steering Committee of the Centre for Gender Equality of the University of Colombo.

	<ul style="list-style-type: none"> • Member, Working Committee on Engineering Sciences, Architecture & ICT of the National Science Foundation. • Member, ICT/BPM Advisory Committee of the Export Development Board. • Member, Local Language Working Group at the ICTA • Member, Sectoral Committee on Information Technology at the Sri Lanka Standards Institute
Weerasinghe TA	<ul style="list-style-type: none"> • Chairman TEC - Education Publications Department, Ministry of Education • Member of the Project Management Committee - Project Coordinator, UNESCO blended learning project, University of Colombo
Wickramasinghe MI	<ul style="list-style-type: none"> • Consultant of the Department of Registration of Persons • TEC member - National Dangerous Drugs Control Board
Wimalaratne GDSP	<ul style="list-style-type: none"> • Member of the Academic Affairs Board, National Institute of Education, Ministry of Education • Advisory Committee Member Academic Affairs Board Ministry of Education
LTRL Research Group	<ul style="list-style-type: none"> • Exhibition participation – <ul style="list-style-type: none"> • LTRL Stall in the Accessibility / Inclusion Pavilion at Disrupt Asia Startup Conference, 11th August 2018 • LTRL and Bioinformatics stalls at the SLAAS Sessions, 5th to 8th December 2018

6. FINANCE

6. FINANCE

According to the new financial regulations, it is required to submit the final accounts within first two months of 2019 after obtaining Board of Management approval. Following extracts in this section are prepared based on those final accounts submitted to auditors 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 2018, the recurrent expenditure of Rs. 339,512/= has been spent per student basis.

In general, the recurrent expenditure is 487.80 million out of which 275 million was the generated income of UCSC. In other words, 56% 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: Recurrent Expenditure Rs. 000'

Subject	2016	2017	2018
Personal emoluments	163,513	194,627	234,711
Travelling	535	632	533
Supplies	5,818	8,673	7,411
Maintenance	5,186	8,428	6,525
Contractual Services	38,103	38,216	37,775
Other	122,219	164,319	200,847
Total	335,374	414,895	487,802
Government Allocation	160,000	164,723	198,785

Due to government decision on increasing the salary, the personal emoluments (salaries of staff) were increased significantly in 2018. 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 2018 with 2017 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. The capital expenditure is 147.20 million out of which 34 million was the generated income of UCSC. In general, the capital expenditure per student is Rs 171,170/=. Details of capital expenditure are given in the table below (Capital Expenditure).

Table 6.2. A: Capital Expenditure

Rs. 000'

Subject	2016	2017	2018
Acquisition of furniture & Office Equipment	28,741	86,917	61,579
Acquisition of Machineries	8,782	-	-
Acquisition of Building & Structures	146,406	111,222	85,628
Other	15,759	2,681	-
Total	199,680	200,820	147,207
Government Allocation	245,000	107,450	112,250

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 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 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)	2,000	1,896	1,896	1,896
Research Projects (foreign funded)	1,350	1,349	1,349	1,349
Consultancy & Software Dev. Type of Projects	5,567	5,567	5,220	3,314
Total	8,917	8,812	8,465	6,559

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	(Deficits) / Surplus
Undergraduate Studies	3,930	4,707	4,707	777
Postgraduate Studies	80,000	87,116	87,116	7,116
Consultancies	5,567	5,567	5,220	(347)
External Degree	60,296	75,451	75,451	15,155
Other	100,000	105,227	105,227	5,227
Total	247,793	278,068	277,721	27,928

6.4.1 Financial Performance Analysis

Table 6.4.1. A: Financial Performance Analysis – 2018

Rs. 000'

Subject	Formula	Exp. per Student
Recurrent Expenditure per Student (RE)	RE / Total No of Student strength	339,512
Capital Expenditure per Student (CE)	CE Total / No of Student strength	171,170
	Total	510,682

6.4.2 ANALYSIS OF THE FINANCIAL DETAILS OF THE UNDERGRADUATE PROGRAMME

'000

	2018	%	2017	%	2016	%	2015	%
Recurrent Expenditure								
Personal Emoluments	228,297		183,495		163,513		132,789	
Other Recurrent	62,666		67,728		51,739		51,868	
	290,963		251,223		215,252		184,657	
Recurrent Grant Received	198,785	68	167,862	67	160,000	74	122,300	66

Generated Funds for Recurrent Activities	92,178	32	83,361	33	55,252	26	62,357	34
Capital Expenditure	146,829		195,033		175,269		104,948	
Capital Grant Received	112,250	76	153,714	79	149,258	85	45,000	43
Generated Funds for Capital Activities	34,579	24	41,319	21	26,011	15	59,948	57
Total Expenditure (Recurrent + Capital)	437,792		446,256		390,521		289,605	
Total Government Grant	311,035	71	321,576	72	309,258	79	167,300	58
Generated funds for Undergraduate Programme	126,757		124,680		81,263		122,305	
Generated Funds utilization as a % of total Expenditure		29		28		21		42

6.4.3 COMBINED STATEMENT OF FINANCIAL POSITION AS AT 31ST DECEMBER 2018

	2018	2017
ASSETS	Rs	Rs
Current Assets		
Cash & Cash Equivalents	83,380,078	76,965,301
Receivables, Deposits & Pre-payments	94,312,393	101,077,492
Inventories	2,988,578	2,924,591
Total Current Assets	180,681,049	180,967,384
Intangible Assets	4,492,911	
Non-Current Assets		
Investments	748,616,266	661,675,469
Rehabilitation and Improvement of Capital Assets	38,273,299	38,943,994
Construction Work in Progress	152,000,649	65,826,421
Property, Plant & Equipment	556,768,660	578,355,115
Total Non-Current Assets	1,495,658,874	1,344,800,999
TOTAL ASSETS	1,680,832,834	1,525,768,383
EQUITY & LIABILITIES		
Current Liabilities		
Accruals & Other Payables	110,627,418	106,718,845
Creditors	20,220,499	-
Retention	8,536,210	18,223,589
Total Current Liabilities	139,384,127	124,942,435
Non-Current Liabilities		
Retirement Benefits	45,991,433	43,303,361
Total Non-Current Liabilities	45,991,433	43,303,361
TOTAL LIABILITIES	185,375,560	168,245,795
TOTAL NET ASSETS / EQUITY	1,495,457,275	1,357,522,588
Capital and Reserves		

Capital Grant Unspent	3,458,277	4,314,513
Capital Grant Spent	762,472,881	665,748,903
Project Grants Unspent	12,067,546	4,917,110
Project Grants Spent	8,614,242	9,797,613
Contribution from University of Colombo	8,155,714	8,155,714
Total Grants	794,768,660	692,933,853
Reserves	468,413,542	444,634,020
Revaluation Reserve	35,505,497	35,505,498
Restricted Funds	196,769,576	184,449,217
TOTAL NET ASSETS / EQUITY	1,495,457,275	1,357,522,588

6.4.4 COMBINED STATEMENT OF FINANCIAL PERFORMANCE AS AT 31ST DECEMBER 2018

	2018	2017
Undergraduate Programme		Rs
Income		
Government Grant	201,404,530	167,862,330
Generated Fund – Project Income	11,517,430	2,654,102
Deferred Income	49,912,357	28,475,295
Mahapola & Bursary	14,199,000	13,860,080
Other Income	4,706,673	10,851,276
	281,739,990	223,703,083
Expenditure		
Personnel Emoluments	189,144,829	153,142,602
Traveling Expenses	349,851	501,812
Supplies	5,808,036	7,430,741
Contractual Services	39,288,888	41,597,241
Retirement Benefits	39,151,808	30,352,279
Other Recurrent Expenses	17,218,993	18,197,970
Mahapola & Bursary Payments	14,199,000	13,860,080
Total Expenditure before Depreciation	305,161,404	265,082,724
Add: Depreciation	71,290,059	45,869,380
Total Expenditure after Depreciation	376,451,464	310,952,104
<i>Deficit from Undergraduate Programme</i>	(94,711,474)	(87,249,021)
Extension Programme		
Master Programme-(MSc)	35,931,494	56,508,866
External Degrees Centre -(EDC)	52,964,021	39,464,688
Computing Services Centre-(CSC)	8,623,936	3,121,776
eLearning Centre-(eLC)	10,985,293	14,213,153
Professional Development Centre-(PDC)	(50,158)	(54,477)
Advanced Digital Media Technology Centre-(ADMTC)	(707,228)	266,167
<i>Surplus from Extension Programmes</i>	107,747,358	113,520,174
Projects		
Foreign Funded Projects	6,649,668	1,624,093
ICTer Conference	(174,216)	949,194
<i>Surplus from Projects</i>	6,475,452	2,573,287

Net Surpluses/(Deficits)	19,511,337	28,844,440

6.4.5 COMBINED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31ST DECEMBER 2018

	2018	2017 Restated
Cash Flows From/ (Used in) Operating Activities		Rs
Surplus / (Deficits) for the Year	19,511,337	28,844,440
Adjustment for :		
Depreciation	75,146,326	58,102,147
Provision for Gratuity	11,490,540	8,781,090
Deferred Income	(50,811,647)	(29,137,350)
Profits /(Losses) from sales of Property, Plant & Equipment	117,535	(646,003)
Prior Year Adjustment	5,673,690	33,960,209
Operating Surplus Before Changes In Working Capital	61,127,781	99,904,532
Changes In Working Capital	21,142,808	(8,564,199)
Cash Generated/ (Used) From Operating Activities	82,270,589	91,340,333
Exchange Gains /(Losses)		-
Gratuity Paid	(7,638,272)	(607,369)
Net Cash Generated/ (Used) From Operating Activities	74,632,317	90,732,965
Cash Flows From/(Used In) Investing Activities		
Acquisition of Property, Plant & Equipment	(61,957,497)	(86,917,515)
Work in Progress- Construction	(83,055,582)	(106,576,947)
Proceeds from Sales of Property, Plant & Equipment	214,560	911,795
Rehabilitation & Maintenance of Property Plant & Equipment	(2,193,736)	(1,505,833)
Long-term Investments	(86,940,797)	(77,043,200)
Net Cash Generated/ (Used) From Investing Activities	(233,933,053)	(271,131,700)
Cash Flows From /(Used In) Financing Activities		
Capital Grant Received- Government Funds	112,250,000	107,450,000
Capital Grant Received-Generated Funds	36,206,563	41,318,842
Transfers to Infrastructure Development Fund		(20,560,978)
Project Grant Received	38,073,429	10,495,808
Transfer to Income from Project Grant Received	(30,455,310)	(14,621,716)
Transfer from Capital Grant to Operating Revenue	(2,679,530)	(5,820,669)
Net Receipts / Payments from Restricted Funds	12,320,362	(4,233,050)

Net Cash Generated/ (Used) From Financing Activities	165,715,514	114,028,238
Net Increase/Decrease in Cash and Cash Equivalents	6,414,778	(66,370,497)
Cash and Cash Equivalent at the Beginning of the Year	76,965,300	143,335,797
Cash and Cash Equivalent at the End of the Year	83,380,078	76,965,300

6.5 STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31ST DECEMBER 2018

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	53,419,312	503,143,703	10,747,840	8,902,702	8,155,714	374,368,612	35,505,498	210,335,449	1,204,578,830
Excess of Income over Expenditure for the Year	-	-	-	-	-	28,844,440	-	-	28,844,440
Prior Year Adjustments	-	(972,479)	-	(147,857)	-	41,420,968	-	-	40,300,632
Amortization	-	(28,475,295)	-	(662,055)	-	-	-	-	(29,137,350)
Grant Received during the Year	148,768,843	-	10,495,809	-	-	-	-	-	159,264,652
Transfer during the Year	(197,873,642)	192,052,974	(16,326,539)	1,704,823	-	-	-	(25,886,232)	(46,328,616)
Balance as at 31st December 2017	4,314,513	665,748,903	4,917,110	9,797,612	8,155,714	444,634,020	35,505,498	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
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	468,413,542	35,505,498	196,769,576	1,495,457,275

7. UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDG) OF SRI LANKA

Sustainable Development Goals (SDG) of World

United Nations Development Programme has identified 17 Sustainable Development Goals (SDG) for the betterment of the World as follows.

- GOAL 1: No Poverty
- GOAL 2: Zero Hunger
- GOAL 3: Good Health and Well-being
- GOAL 4: Quality Education
- GOAL 5: Gender Equality
- GOAL 6: Clean Water and Sanitation
- GOAL 7: Affordable and Clean Energy
- GOAL 8: Decent Work and Economic Growth
- GOAL 9: Industry, Innovation and Infrastructure
- GOAL 10: Reduced Inequality
- GOAL 11: Sustainable Cities and Communities
- GOAL 12: Responsible Consumption and Production
- GOAL 13: Climate Action
- GOAL 14: Life Below Water
- GOAL 15: Life on Land
- GOAL 16: Peace and Justice Strong Institutions
- GOAL 17: Partnerships to achieve the Goal

In line with above 17 SDG, Sri Lanka Government has implemented improved SDGs for upliftment of Sri Lanka economy, society and environment. UCSC has focused on the said SDGs and its activities have been linked to SDGs in 2018.

Focus of UCSC Corporate Plan to Sri Lanka Sustainable Development Goals (SGD) for the year 2018

Goal No.	Description of goal	UCSC activity in line with SDG of SL	Target by 2030	2018 progress
01	End poverty in all its forms everywhere	UCSC promotes the free education system under its internal undergraduate programme as a way to reduce the poverty in this country. Both the government funds and generated income is used to improve the undergraduate programme. Students in low income families follow the programme and UCSC carries out many activities to address their wellbeing including hostels, and special scholarship programmes too.	Planning to increase the student intake in 2030 to 500	Has increased to 300

02	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	Budget canteen for students with good quality foods Canteen committee to improve the security of food Conduct seminars to improve the awareness of nutrition of staff and students Promote paperless environment to reduce cutting trees in the country. Counseling service to staff and students	Improve existing canteen facility and provide high quality food for students and staff. Provide financial assistance for low income students and in distress situation. Provide loan facilities for the staff who are in distress. Improve activities with respect to staff welfare. Improve the counseling service. Become 90% paperless organization Improve the greenery environment in the organization. Carry out ICT research related to e-agriculture. Provide high quality food for all students & staff to ensure good health	Capacity of students canteen was increased Fund for student distress and welfare was established using a percentage of generated income (more activities in the current plan)
03	Ensure healthy lives and promote well-being for all at all ages	UCSC has implemented Medical scheme for its staff and arranged awareness programmes. Medical center provides medical assistance for UCSC students Distress loan scheme Improve the environment safety (reduce mosquito issue)	Reduce or maintain the no. of death of staff and students at very low rate. Improve the level of satisfaction of staff and students. Enhance current health care facilities for all students & staff by 2030.	No death reported. UCSC could improve health conditions due to medical scheme implemented and facility extended by medical center and awareness programmes among staff
04	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	UCSC provided free education, equitable and quality education. Offer followings. 1. Certificate, Diploma and Higher Diploma courses 2. BIT degree 3. BSc. Degree programmes 4. Postgraduate degree programmes	Increase intake by 40-50%	UCSC has accommodated 300 undergraduates for 2018 from UGC allocation. Registered 4445 students for BIT degree and 556 students for masters degrees

05	Achieve gender equality and empower all women and girls	<ol style="list-style-type: none"> 1. No gender discrimination in admission or given equal opportunity for higher learning 2. Action has been taken to empower all women 	Maintain gender equality policy as existed by 2030	All women are given equal opportunity for admission and employment
06	Ensure availability and sustainable management of water and sanitation for all	All students and staff were given drinking water facility and sanitary facilities	Ensure water for all students and staff and sanitation facility for all including differently abled students	Provided water and sanitary facilities for all staff and students
07	Ensure access to affordable, reliable, sustainable and modern energy for all	Introduced energy saving activities and make use of efficient energy. Provide advance new computers and refurbished labs for students	Save energy by 15% introducing new technology	Manage electricity bill and changed lighting bulbs and fix new AC system to save energy
08	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Produced competitive and high productive graduates to contribute for development of the country. Employability of UCSC reaches to 100%	Maintain 100% employability and produce competitive, innovative, creative and high-quality graduates through Research & Development (R& D)	All UCSC graduates have employment. Current employment is 100%.
09	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	Modified labs and upgraded them to provide high standard education for UCSC students. In addition, built new lecture halls and student pavilion for students. UCSC has provided infrastructure facilities to increase ICT facilities	Provide modern facilities and technology for all students. Expected target is 100%	All students are given new computers and facilities in the class room for their study
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	Increase the student performance where majority of students get GPA 2.5 or more	Current failure rate has reduced from 15% to 10%
11	Make cities and human settlements inclusive, safe, resilient and sustainable	Not directly applicable to UCSC functions and activities UCSC follows the district quota for students intake Students and staff conduct workshops for rural schools	More students activities targeting rural areas in the country	Students conducts one activity per year considering rural school
12	Ensure sustainable consumption and production patterns	UCSC follows waste management policies and send waste for recycling. UCSC consider e-waste disposal process to minimize the environment damages	Manage the consumption of energy and other resources. Obtain the maximum usage of goods/assets before its disposal. Develop policies to manage the	UCSC monitors the consumption of all assets and resources to minimize the wastage and improve the productivity.

			consumption and practice them. Maintain good waste management and recycling system.	
13	Take urgent action to combat climate change and its impacts	Control usage of goods which have direct effect on climate change such as different electronic devices	Develop policies which promote the environment friendly product usage	Have adopted the policy of using LED over CFL bulbs
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	This goal is not related with UCSC Corporate Plan	Not applicable	Not applicable
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 Corporate Plan	Not applicable	Not applicable
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	No violence or related behavior in the UCSC students. It has peaceful environment in the institute and among students of other faculties	Keep violence free environment and student friendly environment through proper awareness and monitoring system	No violence is reported in 2018
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	UCSC has partnerships with international universities and IT industry institutions for the betterment of its undergraduates and graduates	Increase international partnerships and industry links by 20%	A dedicated centre called Professional Development Centre PDC to promote such cooperation.

Professor K.P. Hewagamage
Director
University of Colombo School of Computing
31-02-2019

8. UCSC AUDIT REPORT-2018

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ජාතික විගණන කාර්යාලය தேசிய கணக்காய்வு அலுவலகம் NATIONAL AUDIT OFFICE



මගේ අංකය
எனது இல. }
My No. }

HED/B/UCSC/6/18/02

ඔබේ අංකය
உமது இல. }
Your No. }

දිනය
திகதி }
Date }

2019 නොවැම්බර් 29 දින

අධ්‍යක්ෂ

කොළඹ විශ්වවිද්‍යාලීය පරිගණක අධ්‍යයන ආයතනය



කොළඹ විශ්වවිද්‍යාලයට අනුබද්ධිත කොළඹ විශ්වවිද්‍යාලීය පරිගණක අධ්‍යයන ආයතනයේ 2018 දෙසැම්බර් 31 දිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය ප්‍රකාශන සහ එහි කටයුතු පිළිබඳව ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ ආණ්ඩුක්‍රම ව්‍යවස්ථාවේ 154(6) ව්‍යවස්ථාව ප්‍රකාරව විගණකාධිපති වාර්තාව

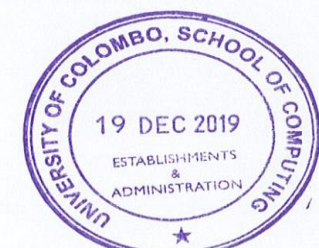
මාගේ සමාක හා 2019 අගෝස්තු 30 දිනැති ලිපියට යොමුවේ.

02. ඉහත සඳහන් ලිපිය සමඟ එවන ලද මාගේ වාර්තාවේ ඉංග්‍රීසි හා දෙමළ අනුවාද මේ සමඟ එවා ඇත.

DR/Alwara

ASTP

ඩබ්ලිව්.එම්.පී.ඒ.තොන්සේකා
සහකාර විගණකාධිපති





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

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 Institute'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 Institute or to cease operations, or has no realistic alternative but to do so.

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

As per Sub-section 16 (1) of the National Audit Act No. 19 of 2018, the Institute 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 Institute.

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

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 on the basis of 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



- Whether the Institute has performed according to its powers, functions and duties; and
- Whether the resources of the Institute had been procured and utilized economically, efficiently and effectively within the time frames and in compliance with the applicable laws.

1.5 Financial Statements

1.5.1 Internal Control over the preparation of financial statements.

The Institute is required to “devise and maintain” a system of internal accounting controls sufficient to provide reasonable assurance that , transactions are executed in accordance with management’s general or specific authorization, transactions are recorded as necessary to permit preparation of financial statements in conformity with the applicable reporting standards , and to maintain accountability for assets, access to assets is permitted only in accordance with management’s general or specific authorization, and the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Issues with regard to maintenance of key accounting records such as General Ledger, Journal and Journal vouchers, payment vouchers etc. may include under the following headings.

1.5.2 Unreconciled Control Accounts or Reports

Item	Value as per Financial Statements	Value as per Correspondi ng Reports	Difference	Management Comment	Recommendation
	Rs.	Rs.	Rs.		
Register of Fixed Assets- Buildings.	381,536,572	-	381,536,572	Action will be taken to include the fixed assets into the Register of Fixed Assets in the year 2019.	All of the assets should be included in to the Register of Fixed Assets.

2. Financial Review

2.1 Financial Results

The operating result of the year under review had been a surplus of Rs. 19,511,337 as compared with the corresponding surplus of Rs. 28,844,440 in the preceding year, thus observing a deterioration of Rs. 9,333,103 in the financial result. The said deterioration had mainly been attributed by the increase in operating expenses as compared with the operating income.

3. Operating Review

3.1 Uneconomic Transactions

Audit Observation	Management Comment	Recommendation
A sum of Rs. 27,264,245 had been spent in the years 2017 & 2018 for supplying electricity to the Institute using a new transformer. However, electricity had not been received even up to the end of the year under review.	Due to delay of the institutions supplying electricity, the supply of electricity has also been delayed.	Follow up action should be taken thus obtaining the service promptly.

3.2 Matters of Contentious Nature

Audit Observation	Management Comment	Recommendation
Contrary to the Universities Act, No. 16 of 1978 and without approval of the Cabinet, the Theekshana Company Ltd had been established within the purview of School of Computing as a company limited by guarantee under recommendations of the University Grants Commission and the Minister of Higher Education on 29 December 2006, and the said Company had been registered under the Companies Act, No. 17 of 1982. The same had again been registered on 02 March 2009	The officers of the University of Colombo School of Computing have resigned from the posts of the Theekshana Company. The present management of the said Company has legally been informed through the board of management of our institution that the Memorandum of Articles thereof be revised. Accordingly, the Secretary of that Company has sent an email to us informing that necessary measures have been taken to make the required revisions.	The Company should either be legalized or removed from the scope of UCSC.



3.5 Human Resources Management

Audit Observation	Management Comment	Recommendation
<p>Due to the existence of 47 vacancies in the academic staff, service of 57 visiting lecturers including the essential visiting lecturers, had been obtained in the year under review, and a sum of Rs. 3,037,975 had been paid. As for the vacancies in the non-academic staff, 49 employees had been employed on assignment and contract bases after providing them with service extensions.</p>	<p>Due to non-availability of qualified persons, filling the vacancies in the academic staff has become difficult. The service of 57 visiting lecturers had not been obtained continuously; instead, their service had been obtained when necessary from time to time.</p> <p>The University Grants Commission is responsible for making recruitments to many of the posts in the non-academic administrative staff. The institution is allowed to recruit only for a limited number of posts.</p>	<p>Recruitments should be made for the vacant posts without delay.</p>

4. Accountability and Good Governance

4.1 Annual Action Plan

Audit Observation	Management Comment	Recommendation
<p>The examination on the actual progress of 88 strategies planned for the achievement of objectives under 07 targets mentioned in the Action Plan revealed that the progress of 16 strategies ranged between 31 per cent and 100 per cent.</p>	<p>Some of those activities could not be completed due to reasons such as, inadequacy of staff, non-receipt of the expected funds, difficulty in obtaining the human resources, and other practical issues.</p>	<p>Activities should be carried out within the specified duration in accordance with the Action Plan.</p>

9. UCSC ANSWERS TO AUDIT REPORT

10.06.2019

Auditor General,
National Audit Office,
No. 306/72,
Polduwa Road,
Battramulla.

Dear Sir,

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

With reference to your letter No: HED/B/UCSC/06/18/02 Dated 29 May 2019 on the above matter.

The aforementioned Report had been taken in to consideration at the 220th meeting of the Board of Management of our institution on 06 June 2019 and the replies (Annexure No.01) of our institution for the audit observations indicated in the Report are submitted herewith.

Thanking you,

Professor K.P. Hewagamage
Director

Copies: 1. Secretary, Ministry of City Planning, Water Supply and Higher Education
2. Secretary, Ministry of Finance and Mass Media
3. Chairman, University Grants Commission

4. Vice Chancellor, University of Colombo

5. Superintendent of Audits, Government Audit Division, University of Colombo

1. Financial Statements

Noted down

2. Report on Other Legal and Regulatory Requirements

	Audit Observation	Reply
2.1	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 Institute has any direct or indirect interest in any contract entered into by the Institute 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.	Noted Down.
2.2	to state that the Institute has not complied with any applicable written law, general and special directions issued by the governing body of the Institute as per the requirement of section 12 (f) of the National Audit Act, No. 19 of 2018 except for the following observations.	
2.3	to state that the Institute 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. The Institution had maintained 30 Funds for various activities and 05 funds out of those	Twenty Funds (20) out of these 30 Funds are being maintained by the approval of the Administration Council of the University for awarding prizes for

	<p>Funds amounting to Rs.2,886,372 had not been utilized for relevant objectives in the years 2017 and 2018.</p>	<p>appreciating the skills of the undergraduates studying in the School of Computing. The other balances are provisions and they are not funds and they are established under the Board of Management of the institution for research and academic activities of the institution.</p> <p>Further, action had been taken to inform the parties with Authority for the utilization of each Fund to utilize these amounts. Accordingly, utilization of these Funds has already been commenced from the year 2019.</p>
2.4	<p>to state that the resources of the 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 except for the following observations.</p>	<p>This situation has formed with the extension of the period of finalizing the relevant contracts, after conducting a proper evaluation by the Board of Management, over the requests made by contractual institutions due to various practical issues confronted</p>
2.4 (a)	<p>Five (05) supplies and works valued at Rs. 39 million and scheduled to be completed by 31</p>	

	December 2018 had not been finalized in accordance with the procurement plan.	by them in carrying out the relevant contracts.
2.4 (b)	In accordance with the procurement plan, the commencement and finalization of 04 supplies and works valued at Rs.25 million had been delayed for a period of 1 ½ months to 07 months.	Even though the commencement and finalizing of 04 procurements included in the Procurement Plan of the institution had delayed for several months, all those procurements had been finalized by the first quarter of the year 2019. Further, the strike action of the non-academic staff prevailed for 1 ½ months at the beginning of the year 2018 had also attributed to this delay in those procurements.
2.4 (c)	Provisions amounting to Rs. 5,940,314 had been allocated for the Degree of Information Technology Development Fund during the year under review and a balance of Rs.16,714,952 was existed in the Fund by the end of the year. Nevertheless, the amount of balance had not been utilized for the accomplishment of the relevant objective.	The Fund had been established for purchasing a building to face the challenges pertaining to the Bachelor of Information Technology (BIT) Degree Programme for the establishment of the Centre for External Degrees extraneous to the institution and it has been scheduled to use it in the future.

2.4 (d)	<p>The electricity requirement of the Institution had been accomplished by using the transformer installed at the premises of the Faculty of Science. Even though an amount of Rs. 27,264,245 had been incurred in the year 2017 and 2018 for obtaining electricity required by the Institution, the electricity supply had not been received to the Institution even by the end of the year under review.</p>	<p>In applying for getting electricity (through the transformer established in the Faculty of Science) for the new building constructed in the institution during the year 2017, a new transformer was applied according to the instructions of the Vice-Chancellor of the University of Colombo to obtain a separate electricity supply as the capacity of the transformer established in the Faculty of Science is not sufficient for the new buildings constructed for the Faculty of Science.</p> <p>Further, even though our institution had taken other necessary action by duly paying money that should be paid to the Ceylon Electricity Board and Colombo Municipal Council (For excavating the way) for obtaining the electricity supply to the institution, we were informed that the electricity supply would be delayed due to the delay in</p>
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		adopting the methodology for bulk supply of electricity, which was a matter beyond our control.
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3. Other observations

	Audit Query	Reply
3 (a)	Even though action had been taken to fill the vacancies in the Academic Staff, there were 47 vacancies to be filled. As a result, a sum of Rs. 3,037,975 had been paid for 57 visiting lecturers including several essential visiting lectures during the year under review and 49 employees had been employed in the service by giving service extensions on task assignment basis and contractual basis for vacancies existed in the Non-academic Staff.	<p>It had been difficult to fill these vacancies as qualified persons could not be appointed to the academic staff. However, it is expected to fill these vacancies. The service of 57 visiting lecturers had not been obtained continuously and the services of them had been obtained from time to time as per the requirement.</p> <p>Further, the recruitment of the Non-academic staff is being made according to the schemes of recruitment of each post and recruitments had been made in temporary basis for the discharge of functions of the institution</p>

		until recruitments are made on permanent basis.
3 (b)	The Action Plan was consisted of 07 targets and 17 objectives had been introduced under each target. In the examination of the actual progress of 88 strategies designed to implement each objective, the progress of 16 strategies were in a lower level from 31 per cent to 100 per cent.	Agreed with the audit observation. It was not possible to reach the expected targets of 16 out of 88 strategies or 18 per cent of targets included in the Action Plan due to not receiving adequate provisions for the other recurrent expenditure other than the salaries and allowances for the year 2018 and due to the other practical reasons.
3 (c)	As per the information presented, generated income and interest income had increased by 72 per cent and 213 per cent respectively, when budget figures are compared with actual figures. Holiday payments and gratuity allowances had been increased by 75 per cent and 2826 per cent and other allowances had reduced by 81 per cent. Accordingly, the budget of the institution had not been made realistically and the budget had not been used as an effective controlling tool.	The actual income earned in the year 2018 was Rs.182,700,619.00 and the budgeted income was Rs.145,600,000.00. Accordingly, the earned income had increased by 25 per cent and not by 72 per cent. The investment income had increased due to the increase in investments than the expected level. Further, the increase here was 15 per cent and not 75 per cent as overtime payments had also

		<p>been included in the holiday pay. Thereby, the total actual expenditure was Rs. 2,422,362.00 and the budgeted expenditure was Rs. 2,100,000. Gratuity allowances had increased by 1573 per cent and not by 2826 per cent. The reason for that was the unexpected death of a university lecturer during the period of service and resignation of two lecturers and an employee. However, it is agreed to prepare a realistic budget from the year 2020 by rectifying these shortcomings.</p>
3(d)	<p>Theekshana R&D Company had been established as a Company limited by guarantee within the University of Colombo School of Computing on 29 December 2006 in contrary to the Universities Act, No. 16 of 1978 and with recommendation of the University Grants Commission and the Minister of Higher Education with getting the approval of the Cabinet of Ministers and it had been registered under the companies Act, No. 17 of 1982. It had been registered under the Companies Act No. 7 of 2007 again. This Company is being operated within the study premises of the School of Computing with the use the resources of the School of</p>	<p>The Board of Management of our institution had informed legally to the present Management of Theekshana Company to amend the Articles of Association. Accordingly, the Secretary of the Company had informed our institution that necessary action had been taken to make the required amendments.</p>

	<p>Computing. Since Officers of the University of Colombo should be appointed ex-officio to the Board of Management of the Company as per the Section 32 of the Act of the Company, it is observed that this Company is a wholly owned subsidiary of the School of Computing. Even though it had been notified to the audit that the staff of the School of Computing had withdrawn from the Board of Management, the Articles of Association of the Theekshana Company had not been amended hither to.</p>	
3(e)	<p>Even though an amount of Rs. 9,131,505 out of the Fund maintained by the Institution for covering the project administration and overhead as at 31 December 2015 had been allocated for the development of infrastructure of the School of Computing as per the approval obtained in the year 2016, the fund had not been utilized from a period more than 02 years.</p>	<p>It had been scheduled to use the amount for the activities planned during the year 2019 for improving the public amenities of the internal students of the institution.</p>
3(f)	<p>A sum of Rs. 4,341,554.28 had to be recovered from three lecturers who had breached the bond agreement by the end of the year under review and any amount, out of the sum of Rs.798,588 to be recovered from one lecturer, had not been recovered during the year under review.</p>	<p>Basic documents had been referred to the University Grants Commission for releasing the balance of Employees Provident Fund of Mr. R. Senanayake and since a problematic situation was created in relation to the prior service and contribution for provident fund, necessary</p>

		<p>action has been taken to resolve the issue by coordinating with the University of Colombo, the earlier place of work of Mr. R. Senanayake. Action would be taken to recover this amount in the year 2019. Legal action has been taken to obtain the remaining balance of Mr. S.J. Pahitharan. The amount of Rs. 1,876,224.24 to be recovered from Mr. M.C. Jayawardene had been recovered on 26.03.2019.</p>
3(g)	<p>Action had not been taken to recover debtors balances amounted to Rs. 4,985,367 outstanding for a period of 2 to 7 years in the Computer Services Division.</p>	<p>The amounts of loans receivable are the receivable amounts for the provision of computing or software services for various institutions of the Public Sector. Further, reminders dated 13.11.2018 and 18.12.2018 had been posted in addition to the verbal reminders for recovering these debtor balances. However, many public institutions had not responded for these letters. Further, it is scheduled to take action to make the Board</p>

		of Management aware on the recovery of these loans and to take forward action in that regard.
3 (h)	In reconciling the Fixed Assets Register and the financial statements, buildings worth Rs.444,948,011 had not been included in the fixed assets register.	Agree with the audit observation. Action would be taken to include buildings in the Fixed Assets Register in the year 2019.

Professor K.P. Hewagamage

Director

**10. UCSC
HIGHLIGHTS 2018
VISIBILITY, EVENTS AND
ACTIVITIES**

10. UCSC HIGHLIGHTS 2018 – VISIBILITY, EVENTS AND ACTIVITIES

The UCSC Web site is the main portal to communicate the key highlights of the institute. In 2018, 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 activities of the organization to the public. Following table shows the key highlights of 2018 with respect to each month.

10.1. Monthly Highlights - Activities, Events and Programmes

Month	Activities
January, 2018	<ul style="list-style-type: none"> • 2018 New Year celebration was held on 1st January 2018 • Last respect for Late Senior Professor G N Wikramanayake on 6th January at the NAT, UOC • BIT Registration 2018 was held on 6th and 7th January • Conducted the Talk on "Big Data, Bio informatics and Medicine: Precision Medicine in Cancer" by Dr. Mahesh Iddawela (E.J. Whitten Fellow & Medical Oncologist, Adjunct Senior Lecturer, School of Clinical Sciences Prostate Cancer Research Program, Department of Anatomy & Developmental Biology, Monash University, Australia) on 11th January • Conducted Best Software Product Competition to present Gold/ Silver/ Bronze Awards' for 2nd year group projects was on 11th of January. • UCSC ISACA Student Group was organized by Annual General Meeting 2018 was held on 12th of January. • Inauguration of new undergraduate intake 2016/2017 was held on 17th of January. • Orientation Programme for new undergraduate intake 2016/2017 was held on 18th to 31st January. • Started a short course on JAVA Application Development using JAVA-SE by Computer Service Centre was on 20st to 21st January. • The selection interviews for masters degree programme was held on 21st to 28th January. • ‘Going Down 2017’ event was held on 27th of January organized by the 2012/2013 batch students at the Glen Reception Hall Dehiwela.
February, 2018	<ul style="list-style-type: none"> • “Reid Handawa”, a cultural show conducted by The UCSC undergraduates at the UCSC Auditorium was on 15th of February. • “Sasala Diyee Ruwa Soyaa”- a book launching ceremony organized by UCSC Students’ Union at the Auditorium was on 21st of February • Masters Examination was conducted on 24th to 25th of February. • Mr. Harsha Perera was conducted a Workshop on “How to use Google” for the UCSC staff members on 27th of February.
March, 2018	<ul style="list-style-type: none"> • Masters Examination was Conducted on 3rd, 4th, 10th and 11th of March • Ms. Malathi Algama was managed a Workshop on minutes writing for the UCSC staff members on 6th, 13th, 20th and 27th of March. • ISAC was conducted an Opening ceremony of the Asia Pacific Conference at the Vidya Jyothi Prof. V K Samaranyake Auditorium was on 19th of March.

	<ul style="list-style-type: none"> Workshop was conducted on the progress review of the Masters Degree Programme on 30th, 31st March and 1st of April.
May, 2018	<ul style="list-style-type: none"> විදු ණනනට දම් සිසිල 2018 – Dhamma sermon organized by the Students of Buddhist Society of UCSC was on 3rd of May. Inauguration Ceremony of Masters Degree Programme (Academic Year 2017-18) was held on 5th of May. Conducted BIT Semester I examination was held on 5th and 6th of May in Colombo/Kandy/Galle/Jaffna centers Students of the UCSC were conducted a musical show “Ninnada” at Youth Centre was on 18th of May. Conducted BIT Semester V examination in Colombo center on 19th and 20th of May. එරබදු වසන්තය - New Year festival organized by the staff of UCSC was held on 24th of May.
June, 2018	<ul style="list-style-type: none"> Started a training course on Software Quality Assurance Using Test Automation Frameworks by Computer Service Centre (CSC) was on 3rd of June Conducted a workshop on preparing By-Laws, Regulation and Syllabi for three Master programs, Master of Ceybersecurity, Master of Data Analytic and Master of Research at the Galle Face Hotel was on 7th of July Facilitated the Faculty of Medicine to have a video conferencing facility for Prof. Varuni de Silva, Dept. of Psychiatry/Faculty of Medicine, UOC was on 12th of June. Lunch Time Talk on Artificial Intelligence 2.X by Mr. Nuwan Senarathne who is a former student & assistant lecturer before joining Stanford University and Facebook Inc was on 13th of June. Visit from Central Taiwan University by Professor Timothy Shih and two other professors to signed a MOU between the UCSC and the National Central University, Taiwan was on 26th of June. Facilitated to conduct LEARN (Lanka Academic and Research Network) Board Meeting was held on 29th of June.
July, 2018	<ul style="list-style-type: none"> Medical Camp was conducted for the UCSC Staff on 17th and 18th of July. Discussion with industry representatives for UCSC Internship Programme 2018 (placement of 250 students) was held on 17th of July. General Convocation of University of Colombo was held on 25th of July (Morning session for UCSC Graduates- 244 students have received degrees at the convocation) Hold evaluation the ICE (Innovation, Commercialization Enhancement) project proposal by the World Bank and UGC Representatives were on 25th of July D-space training was conducted for staff of faculties and library of University of Colombo was on 26th of July. Conducted a Medical Counseling for the UCSC Staff was on 31st of July Evaluation of Inventory Management System by PACK Software Point (Pvt) Ltd. For the UCSC staff was on 31st of July
August, 2018	<ul style="list-style-type: none"> Conducted workshop on e-Testing facilities through Moodle LMS for national exams in Sri Lanka by the e-Learning Centre of the UCSC was on 1st of August Seminar on Digital Classroom was conducted on 7th August by the Softlogic and their partners at the UCSC. Evaluation of Distress fund scholarship programmes for 1st and 2nd Year undergraduates was held on 7th to 13th August Evaluation of Young Computer Scientist competition among school students by the academic staff of UCSC – level 1 evaluation was on 14th August (competition was organized by the FITIS in collaboration with Ministry of Education and UCSC)

	<ul style="list-style-type: none"> • Educational Tour for Petty Officers in Information Technology, Sri Lanka Navy was on 9th August (to experience IT infrastructure and maintenance of UCSC) • Conducted Online selection interviews for the Master of Cyber Security degree programme funded by European Union from 15th to 20th August • Conducted Final Evaluation of YCS – Young Computer Scientist on 17th August to select candidate for APICTA participation • Participated in the Enterprise Sri Lanka Exhibition organized by the Ministry of Finance and Mass Media in Monaragala from 29th to 31st August. • UCSC පැවැත්වූ 2018 was organized by the 3rd year students were held on 31st January.
<p style="text-align: center;">September, 2018</p>	<ul style="list-style-type: none"> • Award Ceremony of BIT Diploma and Higher Diploma were held on 5th September at the NAT, UOC • Mathematics seminar for O/L students of Buwanekaba Maha Vidyalaya, Maharagama was conducted on 5th September by the students of UCSC Exploration Club • Pahasara Annual General Meeting 2018 was held on 12th September at the UCSC • Softlogic Holdings Plc was conducted the Smart board Presentation of "Smart Classroom" was on 18th September. • Prof. V K Samaranayake memorial Oration was held on 26th September by Dr. Kevin Seneviratne, Former Head/Dept of Statistics and Computer Science, UOC at the UCSC • ICTer conference was held from 26th to 30th September at the UCSC. It was followed by 5 Keynote speeches, workshops, conference dinner and conference tour to Sigiriya
<p style="text-align: center;">October, 2018</p>	<ul style="list-style-type: none"> • The UCSC 4th year students were organized by The Career Fair 2018 was on 1st of October. • New students registration for the Master of Cyber Security started on 1st of October. • The exhibition of “19 Plus Jayagrahi Mawathak Kara” organized by the Ministry of Education was held on 3rd to 7th of October in Kuliyaipitiya • iHack 4.0 competition organized by the UCSC ISACA Students Group was on 6th to 7th October • Master Programme exams were conducted on 6th of October for 1st and 3rd semester students. • The IEEE students of UCSC were organized by the IEEE Day 2018 at the NAT was on 10th of October. • New students registration for Masters Program of MCS MIT, MIS and Business Analytics on 21st of October. • Certificates for the using JayaSE were awarded to 22 participants on (8 Days) 21st of October • A new batch of certificate course in Java SE started on 28th of October

<p>November, 2018</p>	<ul style="list-style-type: none"> • The UCSC Tamil students Organized by ‘Vani Villa’ was held on 1st of November. • Conducted an Outbound training for the UCSC staff at the Hotel Habarana Cinnamon was on 3rd to 5th November. • Started the academic activities for the 1st batch of Master of Cyber Security was on 9th of November. • Facilitated to conduct the Annual Symposium of the University of Colombo at the UCSC auditorium was held on 8th of November. • Hold convocation of the External Degrees(University of Colombo) was held on 10th of November at the Vidya Joythi Prof V K Samaranayake Auditorium • The software quality assurance certificate course started by CSC on 11th of November. • UOC Postgraduate Convocation for awardees of UCSC postgraduate students was held on 12th and 13th November at the BMICH • Certificates awarded to 28 participants who successfully completed the certificate course on Computing for Carrier Development was held on 18th November. • The UCSC undergraduate Scholarship ceremony was held on 23rd of November. • Industrial Workshop managed By ISM APAC (Pvt) Ltd for the UCSC Staff and Interns.
<p>December, 2018</p>	<ul style="list-style-type: none"> • Awarded certificates to 23 participants who successfully completed the Training course on Fundamentals IT for Beginners was held on 1st of December. • Exhibition on Computing @ UCSC and public seminars for school children in parallel to SLAAS exhibitions at the University of Colombo was held on 5th to 8th December. • Facilitated to hold SLAAS Annual General Meeting was held on 7th December at the Prof. V K Samaranayake Auditorium • Facilitated to conduct the Symposium on Blended Learning Development and UNESCO Project Review Meeting (University of Colombo) was held on 13th and 14th December at the UCSC. • 2nd semester exams were conducted on 10th to 28th December for 1st, 2nd and 4th year undergraduate students. • Certificates awarded to 19 participants who successfully completed the certificate course on JAVA application Development using JAVA SE was held on 15th December • Conduct a UN Film festival on 18th December at the UCSC Auditorium. • Certificates awarded to 29 participants who successfully completed the certificate course on Software Quality Assurance using Test Automation Framework held on 30th November.