



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

ANNUAL REPORT

2020

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 cross disciplinary research,
Producing socially responsible professionals
With entrepreneurial skills,
Leadership qualities and integrity
Contributing to position the country as a
Knowledge hub in the region*

DIRECTOR'S REVIEW

It is with great pleasure and a sense of pride that I present the Annual Report 2020 of the University of Colombo School of Computing (UCSC). As a centre of excellence in teaching and learning in computing, which is the main goal of UCSC, this report presents the accomplishments as well as challenges faced during undergraduate, postgraduate, and external degree programmes as well as the general administration activities conducted in the year 2020. In the short history of UCSC, year 2020 became the most challenging year since the culture of all activities are suddenly changed to a new mode of operation due to the covid-19 pandemic situation in the country. Almost all activities were challenged, and we were forced to cancel many activities and we were forced to follow the agile management practices to do the best depending on the conditions of operation. However, UCSC was fortunate to survive due to its capability of carrying out many activities through online mode interaction. We were able to achieve more than 60% of the majority of our activities in a new normal environment.



Just before the pandemic outbreak in March 2020, 293 internal undergraduate students, who got the opportunity to be enrolled through the UGC selection process, and they were forced to continue their education in online mode except the semester exams. In addition, UCSC provided computer science courses for 1157 undergraduates of the Faculty of Science of the University of Colombo. With all difficulties, UCSC was able to produce 250 graduates in computer science and information systems at the end of the year and more than 90% of these students were employed before their graduation. This report describes the progress of undergraduate education with collected statistics of students. Due to the pandemic situation, UCSC did not receive adequate capital funding, hence it forced the management to postpone or delay many planned activities during 2020. On the other hand, the pandemic situation restricted our freedom to execute many activities.

Since there is a huge demand for computing education, UCSC continues its most crucial national service of conducting Bachelor of Information Technology (BIT) external degree programme for which 2099 students got the opportunity to be registered in 2020 before pandemic situation. Although we completed all courses of the academic year 2020, UCSC didn't receive permission from authorities to conduct semester exams which were postponed several times during 2020 to have it during the first quarter of 2021. However, UCSC was able to release the results of final year students, and 284 students, the largest number of graduates, received BIT degree. At the same time, 651 students received the Diploma of Information Technology, and 274 students received the Higher Diploma of Information Technology during 2020.

Few days before the island-wide pandemic lockdown, UCSC was able to conduct an admission test masters degree programme, but faced a challenging situation in marking and selecting candidates of the programme. UCSC was able to complete the process through an online mode of operation, and the new batch of 270 started their academic activities at the beginning of August 2020. During the short period of normalcy, UCSC was able to hold in-person exams for both undergraduate and postgraduate students within the campus before September 2020, and it facilitated the UCSC to finalize the results of postgraduate results. Hence, 126 postgraduate students received masters degrees at the end of year 2020.

The generated 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. Although UCSC was forced to delay some of the activities due to covid-19 pandemic situation, the generated income was maintained close to the normal level of operation. The key reason for this situation was due to the ability of UCSC staff to continue their duties from home using online mode and the information technology infrastructure of the organization.

It was planned to conduct the Programme Review of undergraduate degree programmes during 2020 and UCSC staff was able to complete the required documentation, but UGC decided to postpone it to 2021. We were forced to cancel the recruitment of new cadre vacancies until end of the year 2020 due to pandemic. Although student welfare support (scholarships and loan facilities) were granted during

online teaching and learning period, many physical activities, which include extracurricular activities, were postponed or cancelled. On other hand, many online programmes and activities were carried out for both staff and students. Unfortunately, several staff physical activities such as the outbound training programme were canceled during 2020. Zoom-based online platform was used to conduct formal meetings as well as online gathering to enhance the motivation of the staff as well as students.

The pandemic situation affected all infrastructure development activities, and it caused a significant delay to complete activities during 2020. Many planned activities of infrastructure development were also postponed to 2021 due to operational issues. Although government allocation is very low, this situation didn't have a significant impact on the operations since academic activities were carried out mainly online during 2020. Past development of IT infrastructure was an asset during 2020 for the sustainability of the operations since online communication was the backbone in the lifeline of the organization. However, we realized that many works must be carried out in order to maintain the sustainability of IT infrastructure at the UCSC to meet the rising demands.

Although the pandemic situation affected the research and development activities, there is no significant negative effect on the progress since the academic staff has published more than 60 conference and journal papers during 2020. The annual ICTer conference was organized as a full online conference using Microsoft Team online environment and it was a new experience for all staff. At the same, the conference became a free educational event for many others since all presentations are published through UCSC channel in YouTube. Meantime, the ICTer Journal also published three issues during 2020.

Although the government grant for the capital development was the lowest in the history (23 million), UCSC received adequate funding for the recurrent expenditure (357 million). Due to the pandemic situation, we were able to reduce the cost of many recurrent expenditures and this facilitated us to manage the recurrent expenditure (96%) of the total requirement. UCSC spent an additional 19 million for capital development and 16 million for the recurrent expenditure from its generate income. During last few years, UCSC was utilizing its reserves to cover the expenses since the government grant as well as generated income were not adequate but UCSC was able to manage within the generated income while saving 16 million. In 2019, UCSC was forced to spend 40 million from its reserves due to inadequate funding and 240 million was spent from UCSC reserves during the last three years (2019-2017) to carry out the planned activities.

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 2020 – another memorable year in the history of UCSC, where we faced so many challenges which could be converted as opportunities in 2021.

Director Professor K. P. Hewagamage

University of Colombo School of Computing (UCSC)

GOALS

1. To be a centre of excellence in teaching and learning in computing [**Education**]
2. To promote research and development in computing while emphasizing interdisciplinary research [**Research**]
3. To improve the qualities and responsibilities and professionalism of the students/staff [**Quality**]
4. Enhancement of infrastructure facilities for higher productivity through development of physical resources and human capital [**Development**]
5. To Enhance the institutional image through good governance [**Governance**]
6. To contribute to the development of ICT in the society [**Responsibility**]

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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:

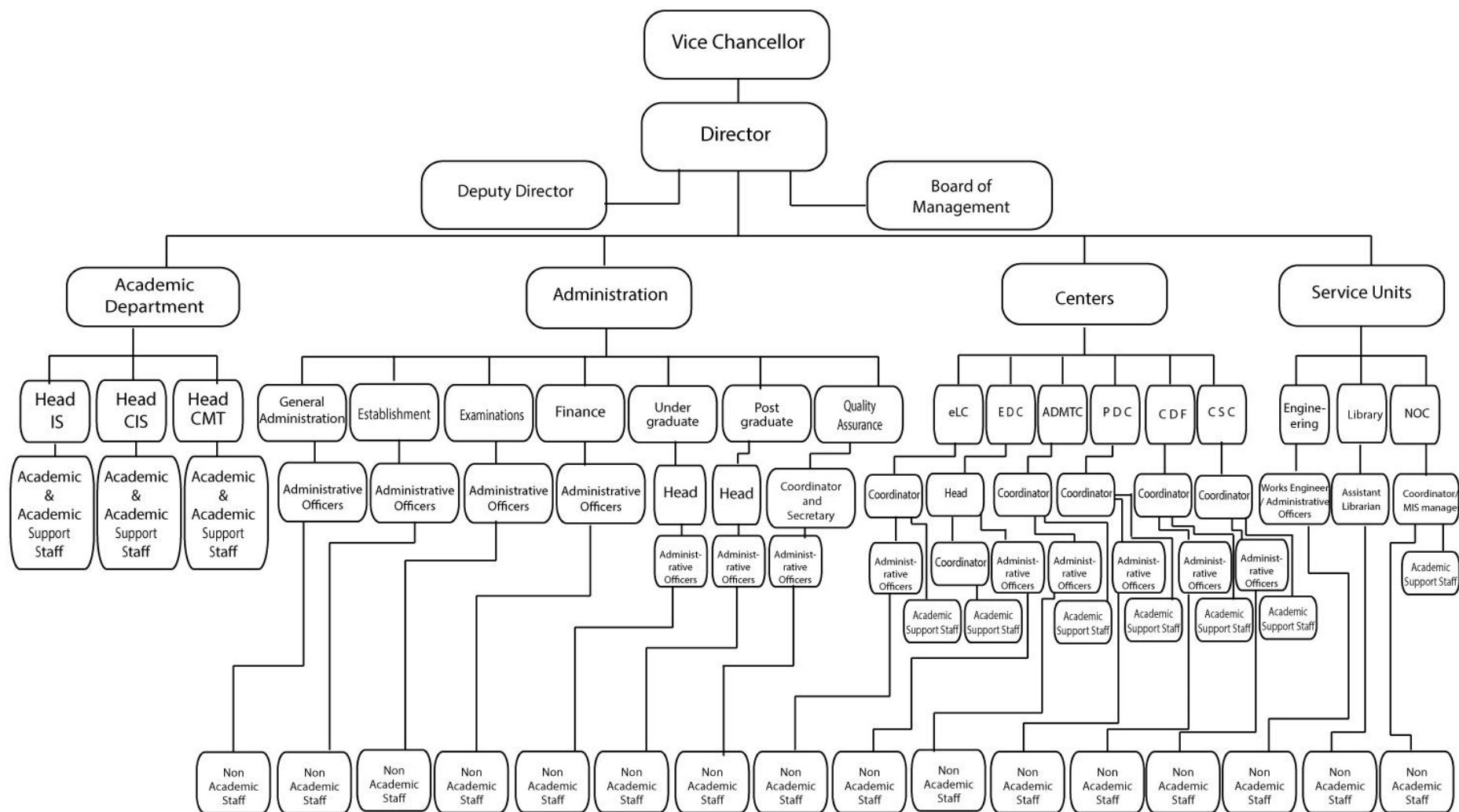
- Advanced Digital Multimedia Centre (ADMTC);
- Computing Services Centre (CSC);
- External Degrees Centre (EDC);
- E-Learning Centre (e LC);
- Professional Development Centre (PDC);
- Centre for Digital Forensics (CDF)

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

ORGANIZATION STRUCTURE OF UCSC - 2020

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 (2016-2020)

		2020	2019	2018	2017	2016
Education (Enrolled/Graduated)						
Internal Undergraduates	All	929	899	857	809	761
	In	293	297	301	261	250
	Out	250	237	244	193	236
Science Undergraduates		1157	972	1043	924	1060
Diploma in Information Technology (DIT) (External)	All	2649	2373	1975	2109	2188
	In	2416	2142	1461	1631	1602
	Out	651	436	337	403	403
Higher Diploma in Information Technology (HDIT) (External)	All	1804	1634	1240	1259	756
	In	1548	1365	463	511	490
	Out	274	120	110	151	149
Bachelor of Information Technology (BIT) (External)	All	1248	862	1230	1282	1177
	In	1142	795	187	233	242
	Out	284	177	133	217	206
Postgraduates	All	501	426	556	533	454
	In	270	258	232	243	184
	Out	126	185	139	150	127
Extension Programmes		347	551	317	296	334
Foreign Students		14				
Research						
Research (MPhil/PhD)	All	28/08	35/08	35/06	37/06	36/06
	In	02/00	03/03	04/00	11/02	01/07
	Out	03/00	03/01	00/01	03/04	00/01
Research Projects	All	12	21	20	27	34
	New	02	09	10	14	19
Publications		61	56	64	53	64
No. of Publications:No. of Academic Staff Members		61:46				
No. of Citations		4829				
Consultancy/R&D Projects						
	Local	7	15	15	21	24
Social Responsibility Programmes		5	13	11	12	10

Service Category	Salary Code	Approved Cadre	Actual Cadre	Vacancies	
1. Primary Level					
Primary Grade - Unskilled	U- PL 1	16	16	0	
Primary Grade - Semi Skilled	U- PL 2	3	2	1	
Primary Grade - Skilled	U- PL 3	5	3	2	
2 Secondary Level					
Management Assistant - non - Technical	U- MN 1	53	35	14	
Staff Assistant/ Supra & Senior Staff Assistant	U- MN 4		4		
Management Assistant - Technical	U- MT 1/U- MN4	10	8	2	
3 Tertiary Level					
Temporary Tutor/Demonstrator/ Instructor/Asst.Lecturer/Research Assistant/Lecturer	Fixed	53	53	0	
Academic Support - Segment 2	U-AS 1	14	14	0	
Junior Executive / Managers	U-EX 1	7	6	1	
Academic Support - Segment 1	U-AS 2	5	2	3	
4. Senior Level					
Middle Level Executives	U-EX 2	10	6	1	
Middle Level Executives	U- EX 2(a)		3		
Lecturer	U AC 3	99	49	50	
Associate Professors	U- AC 4				
Professors/ Senior Professors	U- AC 5				
Finance					
	2020	2019	2018	2017	2016
Annual Recurrent Expenditure (Millions SLR)	520	586	488	415	335
Treasury Grant (Recurrent) (Millions SLR)	358	337	199	165	160
Treasury Grant (Capital) (Millions SLR)	23	69	112	107	205
Generated Income	249	289	274	263	201
UCSC Contribution to UG (Millions SLR) (Generated %)	30 (7%)	91 (18%)	126 (29%)	131 (50%)	147 (48%)
UCSC Budget (Millions SLR)	657	679	498	424	622
Research/Project (Millions SLR)	9.3	9.8	9	11	11
Cost per Employee (SLR ‘000s) per annum	1,564	1,692	1,275	1,081	1,008

Cost per Student (SLR '000s) – Treasury Recurrent	507	450	356	310	269
Infrastructure					
Library Books	8,825	9,073	8,948	8,810	8,931
Computers: staff	1:1	1:1	1:1	1:1	1:1
Computers: students (General students) (Special students)	1:4 1:1	1:4 1:1	1:4 1:1	1:4 1:1	1:4 1:1
Space Utilization (employee) (sq. m.)	11.1	10.9	11.70	15.24	11.70
Space Utilization (student) (sq. m.)	3.39	4.5	4.77	4.39	4.77

1. GOVERNANCE

1. GOVERNANCE

During the year 2020, the organizational activities were carried out based on the Strategic Plan for 2020-2024 while focusing on the six (6) goals as given in the beginning of this report. The Strategic Plan was prepared based on the planned activities for the next five years together with an Action Plan for 2020. However, unfortunately, Government imposed curfew from 17.03.2020 to 11.05.2020 due to 1st wave of COVID 19 outbreak. Therefore, the University of Colombo School of Computing (UCSC) had to reschedule most of the academic programmes and procurement plan approved by the Board of Management for 2020. The UCSC faced many difficulties to employ its staff due to transport difficulties, quarantine, self-quarantine and duty rosters approved by Government through the Circular issued by Secretary to the H.E. President. Not only these shortfalls, but Auditor General report was also delayed and the annual report 2019 was badly affected by these all shortfalls. With these all difficulties, the UCSC conducted its undergraduate examinations, released results, conducted all planned lectures online by academic staff, finished postgraduate exams and released results by following new intake for the master programmes as well.

As planned ICTer international conference was held online and several meetings, including Board of Management, have been held online. Some of the planned procurement activities had to shift to 2021. While the UCSC hardly managing its planned annual academic activities and procurement activities, it had to face for the 2nd wave of COVID 19 during October and November 2020 and suffered many ways. Therefore, the UCSC had to shift its BIT (External) degree examinations planned to hold in November/December 2020. The student canteen was not functioned since the UCSC did not invite to its undergraduate students for lectures inside. In comparison to these hard and unexpected difficulties with the previous year 2019, the UCSC achieved about 70% progress in 2020. Due to the COVID 19 first wave and second wave, the UCSC had to reschedule or move urgent infrastructure projects to 2021. Not only these difficulties, but the infrastructure projects and other ongoing projects also have to suspend temporarily, giving time extensions.

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

1.1 OFFICERS OF THE UCSC

Director	Prof. K.P. Hewagamage	
Deputy Director	Dr. D.A.S. Athukorala	
Heads	Dr. D.A.S. Athukorala	- Department of Computation and Intelligent Systems (CIS)
	Dr. G.D.S.P. Wimalaratne	- Department of Communication and Media Technologies (CMT)
	Dr. M.D.J.S. Goonetillake	- Department of Information Systems Engineering (ISE)
Deputy Registrars	Mr. K.K.K. Dharmathilaka & Ms. H.P. Henegama (Sabbatical Leave from April)	
Deputy Bursar	Mr. E.M. Gunarathna	
Coordinators	Dr. S.P. Matara Arachchi	- Advanced Digital Media Technology Centre (ADMTC)
	Dr. K.L. Jayaratne	- Computing Services Centre (CSC) (till February 2020)
	Mr. G.P.N. Botheju	- Computing Services Centre (CSC) (from June 2020)
	Mr. Mr. W.V. Welgama	- External Degrees Centre (EDC)
	Dr. T.A. Weerasinghe	- e-Learning Centre (eLC)
	Dr. L.N.C. De Silva	- Professional Development Centre (PDC)
	Dr. T.N.K. De Zoysa	- Centre for Digital Forensics (CDF)

1.2 AUTHORITIES

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

1.2.1 BOARD OF MANAGEMENT (BOM)

Meetings of the Board of Management were held monthly during the year 2020. The first Thursday of each month is usually allocated for the BOM meetings. Minutes and memos are distributed before the meeting by the Deputy Registrar/Administration, who shall be the Secretary to the Board of Management. The composition of the Board of Management is given below, together with the statistics of the meeting participation (P – Participated, E-Excused, A-Absent). UCSC has conducted 11 BOM meetings, including one special BOM meetings held on 30.03.2020 online due to curfew imposed by the Government to prevent COVID 19 outbreak in order to get a decision on paying salaries of the UCSC staff during COVID 19 pandemic including contract/assignment/temporary/daily paid and contractual services such as security service and cleaning service staff. The UCSC could not held BOM meeting in January 2020 due to unforeseen circumstances.

Ex- Officio Members	
• Director	Prof. K.P. Hewagamage (P-11)
• Deputy Director & Head of CIS	Dr. D.A.S. Athukorala (P-11)
• Nominee, Secretary of Higher Education	Mr. L. Waduge (P-09, E-2)
• Nominee, Ministry of Finance	Mrs. K.A. Ramya Kanthi (P-9, E-1 & A-1)
• Dean, Faculty of Science	Prof. K.R.R. Mahanama (P-6 - till 2020.07.02)
	Prof. Upul Sonnadara (P-5 – from 2020.08.11)
• Head of CMT	Dr. G.D.S.P. Wimalaratne (P-9, E-2)
• Head of ISE	Dr. M.D.J.S. Goonetillake (P-10, E-1)
Appointed Members	
• Members, UOC Council (02)	Prof. Sam Karunaratne (P-11)
	Mr. J.M.U.B. Jayasekara (P-7, E-2 & A-2)
• Members, UOC Senate (02)	Prof. Sumedha Jayanetti (P-11)
	Prof. Pavithra Kailasapathy (P-11)
• Nominees, UGC (02)	Mrs. C. Mubarak (P-9 & E-2)
	Dr. Upali Mampitiya (P-10 & E-1)
• Representatives, IT Industry (02)	Mr. Saman Perera (P-7 & E-4)
	Dr. Romesh Ranawana (P-9 & E-2)
• Nominees, Academic Syndicate (03)	Dr. K.L. Jayaratne (P-1 – up to 2020.02.21. He resigned from BOM membership)
	Prof. N.D. Kidikara (P-6 – from 2020.07.02)
	Dr. H.A. Caldera (P-11)
	Dr. M.G.N.A.S. Fernando (P-10, E-1)

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 2020 and the Director/UCSC chaired the meetings.

Chairman	Prof. K.P. Hewagamage (P-3)
Deputy Director	Dr. D.A.S. Athukorala (P-3)
Board Nominees	Prof. Upul Sonnadara (P-2) Prof. K.R.R. Mahanama (P-1) Mrs. C. Mubarak (P-3) Prof. Pavithra Kailasapathy (P-3)
Deputy Registrar	Mr. K.K.K. Dharmathilake (P-3)
Deputy Bursar	Mr. E.M. Gunarathna (P-3)

P-Present

1.2.3 AUDIT COMMITTEE (AC)

The Audit Committee (AC) is a Subcommittee, which assists the Board of Management to discuss matters related to internal audit reports and the final audit report before taking appropriate decisions at the Board of Management. It is usually chaired by a special nominee of the Board of Management. The Director and the Deputy Director are invitees of the committee. The representatives of the Auditor General's Departments, the Internal Audit division of the University of Colombo, and the Internal Auditor of the University Grants Commission are also invited to this meeting. The Representatives of Earnest and Young (Internal Auditors appointed by the Board of Management) are also invited to these meetings. The statistics of participation of the 03 meetings of the year 2020 are given with respect to each member.

Chairman	Mr. J.M.U.B. Jayasekara (P-3)
Board Nominees	Mr. L.P.H. Waduge (P-3) Ms. K.A. Ramyakanthi (P-3)
Rep of Auditor General	Mrs. K.V.T.N. Sinhaogsha (P-3)
Internal Auditor/University Grants Commission	Mr. M.M.J.R. Bogamuwa (P-2 & E-1)
Internal Auditor/University Of Colombo	Mr. K.E.W. Jayasiri (P-2 & E-1)
Rep /Ernst &Young Auditors	Ms. Randika Silva (P-3)
Director (Observer)	Prof. K.P. Hewagamage (P-3)
Deputy Director (Observer)	Dr. D.A.S. Athukorala (P-3)

P-Present, E-Excused

1.2.4 ACADEMIC SYNDICATE

The Academic Syndicate was held monthly during the year 2020. 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 2020 are approved and documented. Formal members of the Academic Syndicate and their participation statistics are given below.

S.N.	Name	Attendance of 12Nos. of Syndicate Meetings				
		Present	%	Absent	Excused	Leave
1	Prof. K.P. Hewagamage, Director (Chairperson)	12	100			
2	Dr. D.A.S. Atukorale, Deputy Director & Head/CIS and Snr Lec Gr.I	12	100			
3	Dr. G.D.S.P. Wimalaratne, Head/CMT & Se. Lecturer Gr. I	11	92		1	
4	Dr. (Mrs.) M.D.J.S. Goonetillake, Head, /ISE, Senior Lecturer Gr. I	11	92		1	
5	Prof. N.D. Kodikara, Senior Professor	10	83		2	
6	Prof. G.K.A. Dias, Professor	7	58		1	4
7	Dr. A.R. Weerasinghe, Senior Lecturer Gr. I	10	83	1	1	
8	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	11	92	1		
9	Dr. T. Sritharan, Senior Lecturer Gr. I	11	92		1	
10	Mr. G.P. Seneviratne, Senior Lecturer Gr. I	12	100			
11	Dr. D.D. Karunaratne, Senior Lecturer Gr. I	12	100			
12	Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I	11	92		1	
13	Dr. C.I. Keppetiyagama, Senior Lecturer Gr. I	12	100			
14	Dr. K.L. Jayaratna, Senior Lecturer Gr. I (on leave)				2	10
15	Dr. H.A. Caldera, Senior Lecturer Gr. I	12	100			
16	Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. I	12	100			
17	Dr. (Mrs.) S.M.K.D. Arunatileka, Senior Lecturer Gr. II	11	92	1		
18	Dr. M.D.R.N. Dayaratne, Senior Lecturer Gr. II	9	75	2	1	
19	Mr. K.P.M.K. Silva, Senior Lecturer Gr. II	10	83	1	1	
20	Mrs. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II	8	67			4
21	Mr. W.V. Welgama, Senior Lecturer Gr. II	10	83		2	
22	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr.II	11	92		1	
23	Dr. (Mrs.) T.A. Weerasinghe, Senior Lecturer Gr. II, Coordinator/eLC	10	83		2	
24	Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II	10	83	1	1	

25	Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II	12	10 0			
26	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II	10	83	1	1	
27	Dr. B.H.R. Pushpananda, Senior Lecturer Gr. II	12	10 0			
28	Dr.(Mrs) H.N.D. Thilini , Senior Lecturer Gr. II	12	10 0			
29	Dr. (Mrs) L.N.C. De Silva, Senior Lecturer Gr. II	11	92		1	
30	Dr. S.S.P. Matara Arachchi, Senior Lecturer Gr. II, Coordinator/ ADMTC	12	10 0			
31	Dr. H.K.T.C. Hallolluwa, Senior Lecturer Gr. II	12	10 0			
32	Dr. Kasun Karunanayaka, Senior Lecturer Gr. II (Contract)	11	92		1	
33	Dr. (Mrs.) M.G.D.K. Fernando, Senior Lecturer Gr. II (Contract)	8	67			4
34	Mr. G.P.N. Boteju, Instructor, Coordinator/CSC (on invitation)	3	25		1	
35	Prof. R.D. Wijesekara, Nominee/ Faculty of Science, UOC	7	58		5	
36	Mrs. H.P. Henegama, DR/ Academic & Publication	5	42			7
37	Ms. D.K.M. Rathnayake, SAR/ Examination	12	10 0			
38	Ms. J.A.M.S. Wijerathna, SAR/ Post Graduate Division	10	83		2	
39	Ms. S.F. Imam, AR/Examination	9	75			
40	Ms. K. Prathayini, AR/Academic and Publication	12	10 0			
41	Ms. W.M.N.K. Weerasooriya, AR/EDC	12	10 0			

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 2020, 12 meetings of the BOS/IUD were formally held and minutes of all these meetings have been recorded by the academic representative with the help of an administrative staff member. All matters related to internal undergraduate degrees, such as teaching, learning, assessment and administrations are discussed in detail at BOS/IUD. Nine student representatives also attended these meetings only during the first part of the meeting. The composition of the Board of Internal Undergraduate Degrees (IUD) and the participation statistics of the meetings are given below.

S.N	Name	Attendance of 12Nos. of IUD Meetings				
		Present	%	Absent	Excused	Leave
1	Prof. K.P. Hewagamage, Director (Chairperson)	12	100			
2	Dr. D.A.S. Atukorale, Senior Lecturer Gr. I, Deputy Director, Head/ Dept. of CIS	12	100			
3	Dr. G.D.S.P. Wimalaratne, Senior Lecturer Gr. I, Head/ Dept. of CMT	11	92	1		
4	Dr. (Mrs). M.D.J.S. Goonetillake, Senior Lecturer Gr. I, Head/ Dept. of ISE	12	100			
5	Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Coordinator/ Information Systems Programme	8	67		4	
6	Dr.M.G.N.A.S. Fernando, Senior Lecturer Gr. I, Coordinator/ Computer Science Programme	12	100			
7	Ms.M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II, Secretary BOS/ IUD	12	100			
8	Prof. N.D. Kodikara, Senior Professor	10	83	1	1	
9	Prof. G.K.A. Dias, Professor	2	17	Sabbatical Leave		
10	Dr. A.R. Weerasinghe, Senior Lecturer Gr. I	12	100			
11	Dr. D.N. Ranasinghe, Senior Lecturer Gr. I	9	75	3		
12	Dr. T. Sritharan, Senior Lecturer Gr. I	10	83		2	
13	Mr. G.P. Senevirathne, Senior Lecturer Gr. I	12	100			
14	Dr. D.D. Karunarathne, Senior Lecturer Gr. I	Sabbatical Leave				
15	Dr. C.I. Keppetiyagama, Senior Lecturer Gr. I	12	100			
16	Dr. K.L. Jayarathne, Senior Lecturer Gr. I	1	8	On Leave		
17	Dr. H.A. Caldera, Senior Lecturer Gr. I	12	100			
18	Dr. (Mrs).S.M.K.D. Arunatilake, Senior Lecturer Gr. II	7	58		5	
19	Dr. M.D.R.N. Dayarathne, Senior Lecturer Gr. II	10	83		2	
20	Mr. K.P.M.K. Silva, Senior Lecturer Gr. II	11	92		1	
21	Mr. W.V. Welgama, Senior Lecturer Gr. II	11	92		1	
22	Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr. II	12	100			
23	Dr. (Mrs.) T.A. Weerasinghe, Senior Lecturer Gr. II	11	92	1		
24	Dr. (Ms.) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II	12	100			
25	Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II	10	83		2	
26	Dr.(Mrs.) H.N.D. Thilini, Senior Lecturer Gr. II	12	100			
27	Dr. B.H.R. Pushpananda, Senior Lecturer Gr. II	12	100			
28	Dr. (Mrs.)L.N.C. De Silva, Senior Lecturer Gr. II	10	83		2	

29	Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II	10	83		2	
30	Dr. S.S.P. Matharaarachchi, Senior Lecturer Gr. II	12	10 0			
31	Dr. H.K.T.C. Hallolluwa, Senior Lecturer Gr. II	11	92		1	
32	Dr. Kasun Karunanayaka, Senior Lecturer (Contract)	11	92		1	
33	Dr.(Ms).M.G.D.K.Fernando, Senior Lecturer (Contract)	8	67			
34	Ms. K.P.U. Jayasinghe, Lecturer (Probationary)	On Study Leave				
35	Ms. R.M.P.N. Somaratne, Lecturer (Probationary)	3	25	On Study Leave		
36	Mr. R.N. Rajapakse, Lecturer (Probationary)	On Study Leave				
37	Mr. R.A.H.D. Perera, Lecturer (Probationary)	On Study Leave				
38	Mr. A.P. Sayakkara, Lecturer (Probationary)	On Study Leave				
39	Mr. R.M.U.A. Rathnayake, Lecturer (Probationary)	9	75	1	2	
40	Ms. D.N. Perera, Lecturer (Probationary)	8	67	3	1	
41	Ms. R.A.Y.S. Ranasinghe, Lecturer (Probationary)	10	83	1	1	
42	Mr. K.V.D.J.P. Kumarasinghe, Lecturer (Probationary)	10	83		2	
43	Dr. K.D. Sandaruwan, Lecturer (Probationary)	3	25	On Study Leave		
44	Mr. R.J. Amaraweera, Lecturer (Probationary)	10	83		2	
45	Mr. M.A.I.M. Dharmadasa, Lecturer (Probationary)	8	67		2	
46	Ms. A.L. Nanayakkara, Lecturer (Probationary)	8	67		2	
47	Ms. C.L. Ishani Fonseka, Lecturer (Probationary)	12	10 0			
48	Ms. G.K.K. Perera, Lecturer (Probationary)	10	83	1	1	
49	Mr. K.M. Thilakarathna, Lecturer (Probationary)	12	10 0			
50	Mr. D.T. Bamunuarachchi, Lecturer (Contract)	12	10 0			
51	Mr. G.P.N. Boteju, Instructor Gr. II	9	75	1	1	
52	Ms. M.V.P.T. Lakshika, Temp. Assistant Lecturer (by invitation)	7	58	3	2	
53	Ms. D.A.S. Ruwanmini, Temp. Assistant Lecturer (by invitation)	5	42	4	3	
54	Ms. T.T. Kaluarachhi, Temp. Assistant Lecturer (by invitation)	6	50	3	3	
55	Ms. W.G.H.G. Werapitiya, Temp. Assistant Lecturer (by invitation)	5	42	5	2	
56	Ms. S.S. Thrimahavitharana, Temp. Assistant Lecturer (by invitation)	10	83		2	
57	Mr. B.S. Wickramathilaka, Temp. Assistant Lecturer (by invitation)	6	50	3	3	
58	Ms. M.A.I. Perera, Temp. Assistant Lecturer (by invitation)	7	58	2	2	
59	Ms. H.N. Kegalle, Temp. Assistant Lecturer (by invitation)	7	58	3	2	
60	Mr. T.N.B. Wijethilake, Temp. Assistant Lecturer (by invitation)	7	58	1	2	
61	Ms. K.K. Sumanasekara, Temp. Assistant Lecturer (by invitation)	2	17	5	3	
62	Ms. S.Hamsavasini, Temp. Assistant Lecturer (by invitation)	4	33	4	2	
63	Ms. M R C Niluckshini, Temp. Assistant Lecturer (by invitation)	6	50	2	2	
64	Ms.T.P.W.Seneviratne, Temp. Assistant Lecturer (by invitation)	2	17	1		
65	Ms.U.D.I.Perera, Temp. Assistant Lecturer (by invitation)	2	17	1		
66	Mr.N.H.P.I.Maduranga, Temp. Assistant Lecturer (by invitation)	2	17	1		
67	Mr.M.A.P.P.Marasinghe, Temp. Assistant Lecturer (by invitation)	3	25			
68	Mr. R.S. Madanayake, Instructor (by invitation)	10	83		2	

69	Mr. E.R.A.D. Bandara, Coordinator of Joint Special Degree Programme, FoSc (By Invitation)	9	75	1	2	
70	Mr.N.P.H.L. Pathirana (2018/IS/053), Student Representative (by invitation)	4	33		1	
71	Mr.D.M. Samarasinghe (2018/IS/067), Student Representative (by invitation)	1	8		4	
72	Mr.R.P.Ranaweera (2018/CS/132), Student Representative (by invitation)	2	17		2	
73	Mr.D.M.S.S.Dassanayake (2018/CS/028), Student Representative (by invitation)	3	25			
74	Mr.B.A.I.V.Harischandra (2019/IS/033), Student Representative (by invitation)	1	8		2	
75	Ms. H.P. Henegama, DR/ Academic & Publication (In Attendance)	7	58		5	
76	Ms. D.K.M. Rathnayake, SAR/Examinations & Registration (In Attendance)	12	100			
77	Ms.S.F. Imam, AR/ Examinations & Registration (In Attendance)	3	25			
78	Ms. K. Prathayini, AR/ Academic & Publication	12	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 2020. All matters related to the research, 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 12 BOS/ RHD Meetings			
		Present	%	Absent	Excused
1	Prof. K.P. Hewagamage, Director	12	100		
2	Dr. D.A.S. Athukorala, Deputy Director, Head/CIS & Senior Lecturer Gr. I	11	92	1	
3	Mr. G.P. Seneviratne, Senior Lecturer Gr. I, Rep./CIS	11	92		1
4	Dr. G.D.S.P. Wimalaratne, Head/ CMT & RHD, Snr Lecturer Gr. I	12	100		
5	Dr. (Mrs) M.D.J.S. Goonetillake, Head/ISE, Senior Lecturer Gr. I	12	100		
6	Dr. T.N.K. De Zoysa, Coordinator/MIS Cybersecurity, (Sec. RHD)	12	100		
7	Dr. H.A. Caldera, Coordinator/MIT Programme, Snr Lecturer (Invited only to 3 meetings in 2020)	3	100		
8	Dr. M.G.N.A.S. Fernando, Rep/ISE	12	100		
9	Mr. W.V. Welgama, Coordinator/MIT	10	83		2
10	Mr. K.P.M.K. Silva, Senior Lecturer, Rep./CMT	10	83	1	1

11	Prof. N D Kodikara, Coordinator/QAC	9	75	1	2
12	Dr. M.I.E. Wickramasinghe, Project Coordinator/MIS	8	66	1	3
13	Dr. P.V.K.G. Gunawardana, Project Coordinator/MCS	9	75	1	2
14	Mrs. M.W.A.C.R. Wijesinghe, Coordinator/MSc in Bioinformatics	8	66	1	3
15	Dr. S.S.P. Matara Arachchi, Coordinator/ADMTC	10	83		2
16	Dr. T.A. Weerasinghe, Coordinator/MIT & e-Learning Centre	11	92		1
17	Dr.(Mrs.) L N C De Silva, Project Coordinator/MCS in CS	10	83		2
18	Dr. H.N.D. Thilini, Project Coordinator/MIT (Invited only to 7 meetings in 2020)	7	100		
19	Mr. P.K.M. Thilakarathna, Project Coordinator/MIS	12	100		
20	Dr. B.H.R. Pushpananda, Project Coordinator/MCS (Invited only to 7 meetings in 2020)	7	100		
21	Dr. K.A.K.T. Karunanayake, Project Coordinator/MC	9	81		3
22	Dr. H.K.T.C. Halloluwa, Project Coordinator/MB Analytics (Invited only to 11 meetings in 2020)	10	91		1
23	Ms. M.S. Wijerathna, SAR/Postgraduate, Research & Projects (In attendance)	12	100		
24	Ms. D.K.M. Rathnayake, SAR/Examinations & Registration (In attendance)	12	100		

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

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

No	Name	Attendance of 12 EEP Meetings			
		Present	%	Absent	Excused
1	Prof. K.P. Hewagamage, Director (Chairperson)	12	100		
2	Dr. D.A.S. Atukorale, Head/EEP and Dept. of CIS	12	100		
3	Dr. G.D.S.P. Wimalaratne, Head/ Dept. of CMT/ Postgraduate	11	92	1	
4	Dr. (Mrs.) M.D.J.S Goonetillake, Head/ Dept. of ISE	10	83		2
6	Dr. M.G.N.A.S Fernando, Nominee- CS Programme	11	92		1
7	Mr. W.V. Welgama, Secretary EEP	12	100		

8	Dr. (Mrs.) T.A. Weerasinghe, Coordinator- eLearning Centre	11	92		1
9	Dr. (Ms) K.H.E.L.W. Hettiarachchi, Academic Coordinator -BIT	12	100		
10	Dr. (Mrs.) L.N.C. De Silva, Coordinator- PDC	11	92		1
11	Dr. S.S.P. Matharaarachchi, Coordinator- ADMTC	12	100		
12	Mr. G. P. N Boteju- Coordinator- CSC (Invited only to 5 meetings)	5	100		
13	Dr. T. C. Hallouwa, BIT Project Coordinator	11	92		1
14	Dr.(Mrs.) HND Thilini, BIT Curriculum Committee Invitee	9	75		3
15	Mrs. R P Balasuriya Instructor –Examinations Division	10	83	1	1
16	Mr. G.S. Hettiarachchi BIT VLE Co-ordinator	9	75		3
17	Ms. K.M.G.B. Nishakumari BIT VLE Facilitator	12	100		
18	Mr. T.C. Galahena, Web Master – BIT Site	11	92		1
20	Ms. I. W. A. D. U. Premarathne Asst.to Academic Coordinator/BIT (Resigned in February 2020)	1	50		1
21	Ms. K. M. G. Senarathne, Asst.to Project Coordinator/BIT (Resigned from the post of Project Coordinator in February 2020)	2	17		
22	Ms. C. O. D. Padmaperuma- Asst.to Project Coordinator/BIT	8	67	1	
23	Ms. M.A.I Perera- Asst.to Academic Coordinator/BIT (Invited only to 5 meetings)	3	60	2	
24	Mrs. D.K.M. Rathnayake Senior Asst Registrar/ Examinations	11	92	1	
25	Ms. K.C. Senarath Senior Asst Registrar/ Legal (Invited only to 11 meetings)	8	73		3
26	Ms. S. F. Imam Assistant Registrar/ Examinations	12	100		
27	Ms. W.M.N.K.Weerasooriya Assistant Registrar/ EDC	12	100		
28	Ms. P. M. K. Jayaratne Assistant Registrar/Directors Office	12	100		

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 2020 was Dr. D.A.S. Athukorala. More details are given in the website of UCSC (<https://ucsc.cmb.ac.lk/departments-of-computation-and-intelligent-systems/>).

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 2020 was Dr. G.D.S.P. Wimalaratne. More details are given in the website of UCSC (<https://ucsc.cmb.ac.lk/departments-of-communication-and-media-technologies/>).

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 2020 was Dr. (Mrs.) M.D.J.S. Goonetillake. More details are given in the website of UCSC (<https://ucsc.cmb.ac.lk/departments-of-information-systems-engineering/>)

1.2.7 CENTRES

Advanced Digital Media Technology Centre (ADMTC)

The Advanced Digital Media Technology Centre (ADMTC), <https://ucsc.cmb.ac.lk/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 2020:

- Managing and maintaining the UCSC Auditorium
- Managing and maintaining the Digital Studio of UCSC
- Producing digital and printed materials of UCSC
- Maintaining UCSC Website
- Conducting courses on Graphics Design and Creativity Development and Advanced Multimedia Web Design and Development.
- Coordinating activities of the Web and News Committee of UCSC and preparing the UCSC Newsletter.
- Facilitating to host UCSC conference – ICTer 2020 (www.icter.org/conference)
- Publishing UCSC Journal – International Journal on Advances in ICT for Emerging Regions (ICTer 2020) – www.icter.org/journal

ADMTC has commenced (completed or ongoing) the Graphic Design and Creativity Development course in the year 2020 for two batches of 35 students and the Advanced Multimedia Web Design and Development for three batches of 70 students to disseminate the knowledge. ADMTC could not commence and complete the courses as expected mainly due to the outbreak of the COVID 19 pandemic situation. However, it conducted these courses online only after obtaining the consent from students as well and managed to commence altogether five courses during the year 2020.

UCSC Auditorium was fully functional only from the beginning of the year until the emergence of the COVID 19 pandemic in March 2020. Due to the outbreak of COVID 19 pandemic outbreak, UCSC Auditorium was not functional from mid of March 2020 to end of May 2020. Even though the country started getting back to operating under the new normal, UCSC decided to suspend the Auditorium reservations until the end of September 2020, since UCSC could not assure the health conditions of participants to events organized by external parties and submitted a memo to the 233rd Board of Management of UCSC seeking approval to its decision.

However, UCSC could manage few external events and sponsored few internal events, of which the details are as mentioned below.

Event	Total Cost of the Event	Income	UCSC Sponsored Amount
“Islamic Day” organized by Wesley College on 13 th March 2020	117,157/-	117,157/-	N/A
Events Sponsored by UCSC			
“Learn Big Data and Machine Learning from Googler”, A technical talk organized by Google Developer Group (GDG) Sri Lanka in collaboration with the IEEE CS student branch chapter of UCSC on 5 th January 2020	90,000	N/A	90,000/-
National Olympiad in Informatics (NOI) organized by ACM Student Chapter of UCSC on 9 th January 2020	117,157/-	45,000/-	72,157/-
Excellentia’ 20 organized by AIESEC student movement of University of Colombo on 25 th January 2020	90,000/-	45,000/-	45,000/-
Undergraduate Inauguration of UCSC on 3 rd March 2020	180,000/-	N/A	180,000/-
ICTer Conference 2020 on 5 th and 6 th November 2020	360,000/-	180,000/-	180,000/-

At the same time, ADMTC provided technical support for several Research Symposia as mentioned below.

Symposium	Total Cost of the Symposium	Income	UCSC Sponsored Amount
Research Symposium organized by the Faculty Law, University of Colombo on 19 th December 2020	300,000	150,000/-	150,000/-
Research Symposium organized by the Faculty of Education, University of Colombo on 23 rd December 2020	300,000	N/A	300,000/-

Further to above, ADMTC conducted a workshop on “Smart Class Room” to Sabaragamuwa University of Sri Lanka on 11th September 2020 and received an income of Rs. 25,000/-.



Award Ceremony of Graphic Design & Creativity Development External Course

Computing Services Centre (CSC)

The Computing Services Centre, <https://ucsc.cmb.ac.lk/csc/>, 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
 - Tender Evaluation
 - Systems Recommendation
 - Software Project Consulting and Development
 - Feasibility Studies
 - Acceptance Testing for Computer Hardware & Software
 - Planning and Conducting of Recruitment Testing
- 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.

However, the number of batches of short term courses conducted by CSC in the year 2020 is relatively less when compared with the year 2019 due to the outbreak of COVID 19 pandemic outbreak.

Consultancy Services (e-Tests) conducted by CSC

Accordingly in the 2020, CSC conducted the below mentioned recruitment tests to external parties

Description	No. of Participant s	Total Income	Discount	Discounted Income
e-Test for recruiting Instructor in Computer Technology, Dean's Office - Faculty of Nursing/ University of Colombo on 22 nd July 2020.	16	64,000/-	32,000/-	32,000/-
Confirmation test for Management Assistant Grade III – National Institute of Libraries and Information Sciences (NILIS) on 4 th September 2020.	1	4,000/-	2,000/-	2,000/-

Further to above, CSC undertook and coordinated the tasks of setting and moderating the examination papers for several examinations conducted by external parties and their details are as mentioned below.

Description	Income
Setting and moderating the e-test paper for the recruitment test of Assistant Network Manager (Grade II) of the Faculty of Graduate Studies/ University of Colombo	12,000/-
Setting and moderating the e-test paper for the recruitment test of Assistant Network Manager (Grade II) of Institute of Indigenous Medicine (IIM)	12,000/-

Coordinate outside parties to hire UCSC resources

CSC also facilitates hiring UCSC resources to outside parties when such resources are not used for UCSC activities considering the market rates. All such requests are evaluated to protect the reputation of the University of Colombo before offering them and they are monitored to protect the resources. Accordingly, due to the outbreak of COVID 19 pandemic UCSC accepted only one reservation from Institute of Supply & Materials Management of Sri Lanka (ISMM) on 20th and 27th September 2020, due to which UCSC received an income of Rs. 108,000/-

External Degrees Centre (EDC)

The External Degree Centre (EDC), <https://ucsc.cmb.ac.lk/academic-programmes/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.

EDC Activities during 2020:

The registration of new BIT Students (more than 2090), Re-registration of current students (more than 4000), conducting meetings with teaching institutions (more than 15 teaching institutes), conducting a webinar for the students who are registered for the Final Year Project and planning to conduct the BIT Semester one to six examinations (more than 3000 students) in Colombo, Kandy, Jaffna and Galle which were postponed to February and March 2021 due to the COVID 19 situation. EDC also carries out many activities related to the promotion of BIT degree programme. Details of EDC is published and maintained at <http://ucsc.cmb.ac.lk/academic-programmes/edc/>

E-Learning Centre (eLC)

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

Online courses administered by eLC

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

Activities carried out during 2020

- The meeting on FIT syllabus review was held on 3rd January 2020
- BIT curriculum review was held on 14th January 2020
- Conducted the FIT e-test from 20th to 25th January 2020
- Conducted the recruitment test for University of Colombo on 5th August 2020
- Conducted the KPMG test on 13th February 2020
- The meeting on reviewing the progress of BIT online content development was held on 24th February 2020
- Conducted the confirmation test for National Institute of Libraries and Information Sciences (NILIS) on 2nd March 2020
- The meeting on reviewing the question bank of semester II of BIT was held on 20th August 2020
- The workshop on UGC funded “Pre University Project” was conducted on 25th August 2020
- The workshop on reviewing the FIT question bank was conducted on 3rd September 2020
- The workshop on reviewing the question bank of semester II of BIT was conducted on 16th September 2020
- Conducted the FIT e-test on 2nd October 2020
- Pre-University ELT -section 1-writing module review session was conducted via ZOOM on 15th October 2020
- Pre-University ELT - section 1-writing module review session was conducted via ZOOM on 16th October 2020
- The progress review session of Managing Information for Academic Research: for Undergraduates moodle course development was conducted for University of Colombo on 17th of October
- Team Pre-University ELT- Section 1-listening module review session conducted via Zoom on 27th of October
- The meeting on reviewing the BIT- IT2106 Probability Section was held on 27th October 2020
- The meeting on ELT project was held with the Chairman/UGC via Zoom on 20th November 2020

In addition to the above mentioned activities eLC carried out below mentioned activities also during the year 2020.

- Maintaining and administering learning management systems of undergraduate as well as master’s degree programmes of the UCSC,
- providing e-facilitation to online learners of the BIT degree programme and FIT programme,
- diversifying the teaching-learning process to make it more interesting, efficient and contemporary,
- conducting research and development in e-learning to enhance the quality of higher education within UCSC and the country,
- establishing the culture of electronic education to produce high quality blended learning courses
- supporting the improvement of e-learning infrastructure of the UCSC

Further, eLC completed the pilot project on University Test of English Language (UTEL) in 2020 at present carries out several projects from external parties such as “Pre-university online english language training programme” (ELT) of UGC and A Moodle course on “Managing Information for Academic Research” for undergraduates for the Library of University of Colombo.



Undergraduate Inauguration Ceremony 2020

Professional Development Centre (PDC)

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

Activities for the year 2020

- The final industry placement evaluations were carried out for the academic year 2019/2020.
- A selection committee was appointed and facilitated the evaluation to select the best candidate for the award of “Best Performance in Industrial Placement – 2019.”
- Student feedback was collected concerning industry placements carried-out in 2019.
- The mentoring program was initiated with the IT industry for the 2nd year students (Discussions/email awareness were made but unable to implement it due to the pandemic situation).
- The newly registered companies under the UCSC internship program were interviewed via Zoom (Number of New Companies for the year 2020 – 38).
- Two hundred ninety-one (291) students were placed in 89 IT companies and 8 UCSC Projects under the undergraduate internship program for the academic year 2020/2021.
- Fifteen (15) different professionals were invited from the IT industry to conduct tech talks for the 3rd-year undergraduates via the zoom due to the pandemic situation.
- Eighteen (18) video recorded tech-talks from the IT industry professionals were received and made available for the 3rd year undergraduates to improve their technical/professional skills.
- A Lunchtime Seminar was organized for staff members and 4th-year students on “Deep Learning for Computer Vision”. This session was conducted by Prof. N.D. Kodikara, Senior Professor, UCSC.
- Separate meetings were organized with the head of directors of ISM APAC (PVT) LTD, LSEG (PVT) LTD to discuss the potential collaboration to reduce the gap between the academia and the industry.
- A research discussion among Creative Software, 4th-year undergraduates, and UCSC academic staff was facilitated to uplift the research culture with academic-industry collaboration.
- Organized/Facilitated a session on research and development for UCSC academic staff and 4th-year undergraduates. The WSO2 conducted this session.

- Several web banners, Competitions, Online sessions organized by the IT industry were published and encouraged students to participate in the sessions during the lockdown period due to the pandemic situation.
- Organized/Facilitated the 'Digital Discoverer Program' initiated by Virtusa. Eight (8) online sessions were conducted for both internal/external undergraduates in UCSC.
- The PDC assisted the UCSC career fair organizing committee – 2020 in organizing the virtual event.
- Several meetings were conducted with professionals from the IT industry to enhance the industry-academia partnership.
- Engaged in handling the student issues and inquiries throughout the year.

Centre for Digital Forensics (CDF)

The Centre of Digital Forensics (CDF), <https://ucsc.cmb.ac.lk/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 18 years, these authorities in the country have requested the UCSC to carry out investigations due to the absence of a proper mechanism in the country. With lots of difficulties, UCSC has been supporting these institutes. Key organizations, which are requesting services, are different Courts, Criminal Investigation Department and Terrorist Investigation Units.

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

UCSC received more than 650 requests from different legal organizations during the last two decades, but it was very difficult to provide the required support due to the complexity and lack of funding and infrastructure. With the help of the Korean Government, UCSC helped the Government to expand the capacity of Government Analysis Department and the Criminal Investigation Department to establish separate units for these operational tasks. This dramatically reduces the cases reporting to CDF, however, 272 cases to be investigated by 31st December 2020.

In 2020 CDF has taken the responsibility of conducting undergraduate courses in the area of Information Security and Digital Forensic. In addition to that CDF continues its support to conduct various postgraduate programs at UCSC.

In 2019 to end of 2020 CDF has generated Rs. 907,222.00 as its income. However, CDF has been spent Rs. 4,518,593.48 as salaries and wages for the staff of the CDF, and Rs. 51,948.63 as recurrent cost. Thus, income of CDF totally inadequate to cover its expenses and it has directly affected the operation of the Centre.

CDF has been providing consultancy services for the Government Organizations, different Courts, Criminal Investigation Department as well as the Private Organizations in the field of Digital Forensics from the year 2020 by expanding its infrastructure facilities. Therefore CDF is expected to provide additional services in the field of Digital Forensics to the government and the private sector and earn more income in year 2021.

2. EDUCATION

2. EDUCATION

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

2.1 UNDERGRADUATE EDUCATION

Computing studies at the undergraduate level were first introduced back in 1967 as a part of the courses offered by the Faculty of Science, at the University of Colombo. UCSC, which is the computing faculty of the University of Colombo, still continues to offer courses at the Faculty of Science and 1157 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 2020, 300 students selected by the UGC were given the opportunity to follow the courses in Computer Science (CS) degree, Information System (IS) degree and Software Engineering (SE) degrees at UCSC.

2.1.1 INTERNAL UNDERGRADUATE DEGREE PROGRAMMES

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

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

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

The selection for the four-year degree programme is carried out based on the students' performances of the first two years. Students who earn more than 2.75 GPA are eligible to apply for 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 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 August 2020 **where 2437 applicants applied and 476 were qualified** to apply for IS stream. The actual number of students registered for degree programmes are given below.

2.1.2 ACADEMIC YEAR – 2018/2019 AND STUDENT ENROLMENT

Table 2.1.2. - A: Enrolment - Distribution of UCSC Intake – 2020

Stream of Study	Intake Size	Number enrolled	Male	Female
CS Stream	200	196 (98%)	126 (63%)	70 (35%)
IS Stream	100	97 (97%)	46 (46%)	51 (51%)
Total	300	293 (98%)	172 (57%)	121 (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 2020 is given below. The inauguration for the new undergraduate students selected for UCSC was held on 3rd March 2020 and followed by the orientation programme from 4th March 2020 to 18th March 2020 before the commencement of the academic year.

<https://ucsc.cmb.ac.lk/events/inauguration-ceremony-undergraduate-academic-year-20182019/>

Academic Time Table for the Year 2020

DURATION		WEEKS	14/15	15/16	16/17	17/18
From	To					
03/02/2020	16/02/2020	2	Second Semester Exams			
17/02/2020	01/03/2020	2	Project Evaluation (Including vivas')			
02/03/2020	19/04/2020	7	01. Vacation, Paper marking, Special Selection 02. 1st Year Orientation Programme from 02.03.2020-13.03.2020 03. Covid-19 Vacation from 16th March to 20th April, 2020			
20/04/2020	09/08/2020	16	On-line Lectures			
10/08/2020	23/08/2020	2	Lecture Revision (On-line)			
24/08/2020	06/09/2020	2	Study Leave			
07/09/2020	04/10/2020	4	First Semester Examination			
05/10/2020	18/10/2020	2	Vacation and 3rd year projects Viva			

19/10/2020	20/12/2020	10 (online)	4S2	3S2	2S2	1S2
21/12/2020	03/01/2021	2	Christmas and New Year Vacation			
04/01/2021	07/02/2021	5 (online)	4S2	3S2	2S2	1S2
08/02/2021	28/02/2021	3	Study Leave			
01/03/2021	10/04/2021	3	Second Semester Examination, Project Viva			

UCSC faces several administrative problems when synchronizing teaching courses of both the Faculty of Science and UCSC. However, due to online delivery of lectures, it was possible to address some of those issues.

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]
2018/2019 (1 st Year)	200	196	172	4	20	89.80%
2017/2018 (2 nd Year)	197	197	186	6	6	97.46%
2016/2017 (3 rd Year General)	141	141	132	6	3	97.87%
2016/2017 (3 rd Year Special)	50	50	50			100%
2015/2016 (4 th Year)	40	40	40			100%

Table 2.1.3. - B: Study Programme: IS 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]
2018/2019 (1 st Year)	97	96	92	1	3	96.90%
2017/2018 (2 nd Year)	91	91	84	4	4	92.30%
2016/2017 (3 rd Year General)	71	71	70	1	1	98.60%
2016/2017 (3 rd Year Special)	25	25	25			100%
2015/2016 (4 th Year)	20	20	20			100%

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

2.1.4 INDUSTRIAL PLACEMENT

In order to improve the relevance of the degree program with respect to national and industrial requirements, 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 programs with the help of the industry. The second semester of the third year of studies is allocated for industrial placements. UCSC has also established an academia-industry advisory board to obtain the feedback of the local industry to improve the relevance of all its computing degrees in order to maintain the employability rate of UCSC graduates over 90%. The statistics of 2020 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	189	49
Small IT companies	72	37
Government Institutes	6	4
Research and consultancy projects at UCSC	23	9
Total	290	99

Apart from the industrial training, the PDC organized a series of tech talks and guest lectures from various companies who took part voluntarily. This time these talks were organized via zoom due to the pandemic situation. The sessions were aligned to make the undergraduates aware of the role that they have to play as professionals after being graduated. The PDC organized a series of seminar sessions on professional skills development in collaboration with the industry to provide the students with better employment opportunities.

2.1.5 UNDERGRADUATE STUDENT WELFARE

(a) Hostel Facilities

In the year 2020, the UCSC provided the neediest 1st year as well as final year undergraduates with residential facilities in keeping with the UCSC policy and according to the progress of the University Grants Commission (UGC). Since there are no dedicated hostel facilities, UCSC rented two private properties for Boys' Hostel in Battaramulla (which could accommodate around 35 students) and Girls' Hostel in Kohuwala (which could accommodate 36 students). The Warden and Sub-Wardens who are staff members of UCSC, were appointed to monitor the management of hostels and the Academic Publication and Student Welfare (APW) division manages both hostels under the supervision of the Deputy Registrar. The detailed statistics of 2020 are given in the table below.

However, due to covid-19 pandemic situation, UCSC forced to reduce number of students considering social distancing and other health guidelines (Girls hostel 10 and Boys hostel 12). Hence, the Board of Management decided to pay a special hostel bursary for students who will not be allowed to stay at the

hostel. Hostels were operational but we had to send students their home due to pandemic situation in the country.

Boys Hostel:

Hostel Address: 474/B, Kaduwela Road, Deniyawatta, Battaramulla

Academic Warden: Dr. M.I.E. Wickramasinghe

Academic Sub-Warden: Mr. R.J. Amaraweera

Capacity: 35

Girls Hostel:

Hostel Address: 76/16A, Sunethradevi Mawatha, Kohuwala, Nugegoda

Academic Warden: Dr. (Mrs.) T.A. Weerasinghe

Academic Sub-Warden: Ms M.G.A. Srimalee

Capacity: 36

Table 2.1.5.1. – A: Hostel Facilities Requested and Granted in 2020

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	66	39	27				35
Girls Hostel	58	37	21				36
Total	124	76	48				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	1,620,000.00	Other: 37,949.32 Water: 26,357.33 Electricity: 23,428.35	Warden Allowance 8,750.00 Sub Warden Allowance 9,000.00 Caretaker Salary: 421,800.36	35	15,065.29
Girls' Hostel	36	720,000.00	Other: 40,896.45 Water: 55,355.78 Electricity: 59,274.75 Telephone: 5,075.76	Warden Allowance 8,500.00 Sub Warden Allowance = 12,750.00 Caretaker Salary: 443,708.49	36	17,376.70
Total					71	32,441.99

(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 canteen faced several operational problems due to the unavailability of a suitable kitchen to prepare foods internally. However, the canteen was running under the temporary arrangement for the kitchen and a tender was called to build a new kitchen extension during 2020. Unfortunately, it was unsuccessful since all bids are not acceptable according to published conditions and tender procedure.

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 in 2019 and same contract was extended several times in 2020 under the approval of BOM due to the current pandemic situation in the country. 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 2020, UCSC has spent around **Rs. 23,055.00** to purchase materials required for the student canteen at the beginning of the year. Due to the pandemic situation, the UCSC canteen was closed for nine months during 2020. The tendering process of the canteen was postponed until the normal operations are recommenced in the university.

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

(c) Counseling for Undergraduates

The student counseling is a service provided free of charge by the UCSC for all undergraduate students. Our experience over the past decades has shown that the level of stress resulting from various incidents of life such as family matters, relationships, learning, and career decisions, is increasing. The UCSC Counseling service focuses on providing a conducive environment for students who seek help at the early stage of their particular psychosocial problem. Our Counselors 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 Counselors are also trained to make a decision whether a particular problem requires further help, and so to refer such a student to a Professional Counselor who visits the UCSC on an hour basis. A separate room has been allocated for student counseling and services are offered to the persons who need help.

It is important to note that all information that students communicate with student counselors will be kept confidential and will only be communicated to the Professional Counselor if the student agrees. Similarly, the Professional Counselor 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 Counselor 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 academic Student Counselors, namely Dr. (Mrs) T.A. Weerasinghe and Mr. G.P. Seneviratne were provided for all students in 2020. The service of a Professional Counselor Mrs. Nilani Thushanthika for the duration of 2 -3 hrs a day to facilitate the students who required counseling. UCSC paid for the service of Professional Student Counselors on an hourly basis. In general, around 30-40 students took regular consultations from these Counselors.

During 2020, online counseling was provided through phones and online meetings with counselors since physical visits were not possible due to covid-19 pandemic situation. Several online surveys were conducted to find out common issues of students and specific issues due to covid-19 pandemic. Professional student counselor was asked to follow up those specific issues and students who faced issues with respect to financial difficulties due to pandemic was given special support with the help of Alumini association of UCSC. Students who faced lot of issues of buying a computer to engage with academic activities, were supported with the help of Alumini association to buy computers. Final year students who faced difficulties were supported to rent a UCSC computer to carry out academic activities.

(d) Financial Assistance for Undergraduate Students

Financial assistance was given to students in the form of Mahapola Scholarships, Bursaries, Industry Scholarships, and student welfare and distress fund. Since academic activities were carried out online during 2020, it was decided to continue all these scholarships as planned.

Mahapola Scholarships

The Mahapola scholarships sponsored by the Mahapola Trust Fund of the Ministry of Commerce & Consumer Affairs were awarded to 317 students during the year 2020. The value of Merit and Ordinary scholarships were Rs. 5,050 and 5,000 respectively (Computer Science [CS] + Information System [IS]).

Table 2.1.5.1. – C: Number of students - Mahapola Scholarship Granted – 2020

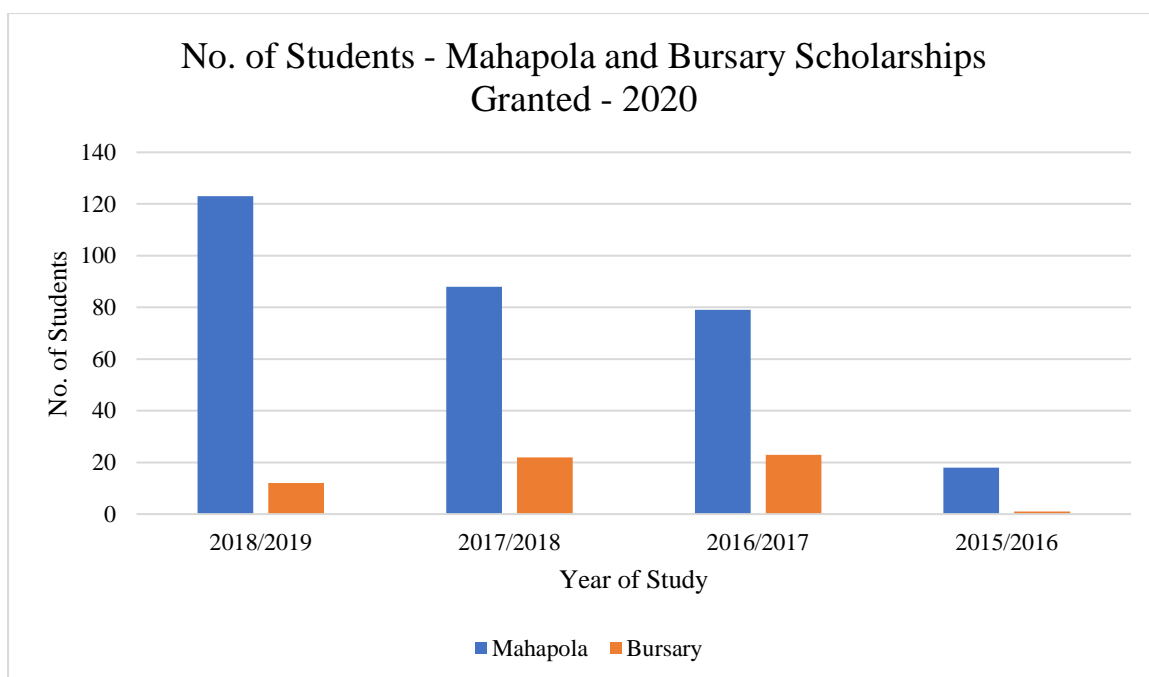
Year of Intake	Year of Study	Merit scholarship (CS+IS)	Normal scholarship (CS+IS)	Total
2018/2019	Year 1	06(06+00)	117(96+21)	123 (102+21)
2017/2018	Year 2	13(13+00)	119(94+25)	88 (59+29)
2016/2017	Year 3	15(14+01)	75(47+28)	79 (55+24)
2015/2016	Year 4	03(03+00)	12(09+03)	18 (09+09)
All	Total	37	323	308

Bursaries

Bursaries were awarded in accordance with UGC Circulars, which governs the selection of students for Bursaries. 49 students were awarded Bursaries during 2020. The breakdown of the Bursary recipients for the year 2020 is shown in the following table (Computer Science [CS] + Information System [IS]). During 2020, the bursary payment was made to facilitate students to engage in the education through online mode.

Table 2.1.5.1. – D: Number of students -Bursary Granted – 2020

Year of Intake	Year of Study	Full Bursary (Rs. 4000) (CS+IS)	Half Bursary (Rs. 3900) (CS+IS)	Total
2018/2019	Year 1	12(03+09)	00(00+00)	12 (03+09)
2017/2018	Year 2	22(10+12)	00(00+00)	22 (10+12)
2016/2017	Year 3	18(13+05)	05(05+00)	23 (18+05)
2015/2016	Year 4	01(01+00)	00(00+00)	01 (01+00)
All	Total	53	05	58



Industry Scholarships

Private organizations are invited to sponsor scholarships for needy students every year. **IFS R&D Ltd. sponsored 8 scholarships** at Rs. 5000/= per month for a period of 12 months. The Deputy Director, Heads of the Departments, Coordinators of the Undergraduate degree programmes, Student Counselors and Administrative Officers are directly involved in selecting these students after interviewing them.

Table 2.1.5.1. – E: Industry Scholarships 2020

Number of scholarships and scholarship amount	Number of First Year Students	Number of Second Year Students
08 Scholarships – Rs. 5,000/- per month	4 Students	4 Students

UCSC Student Distress and Welfare Allocation

A few years ago, UCSC academic staff monitored the requirements of the students in order to support students who were suffering from financial difficulties and unexpected personal problems such as sudden loss of parents, health problems etc. Hence, the academic staff decided to allocate 2% of the income of master's and external degree programmes to utilize them for student distress and welfare activities. In 2020, the following activities were carried out utilizing funds available in this allocation.

The special financial support for the most deserving student based on the following evaluation criteria:

- Annual parental income
- Number of Siblings (School going and doing higher education)
- Distance between home & University
- Other Scholarships / Financial Support
- Special circumstances in the family
- Recommendation of the selection panel

In 2020, 29 students were offered scholarships from the Student Welfare and Distress Fund. Among them, there were 10 scholarships at Rs. 5,000/- and 19 scholarships at Rs. 3,000/- for a period of 12

months. Hence, **over 1 million** from UCSC **generated income** was spent on special scholarships for students who had financial difficulties.

Table 2.1.5.1. – F (A): Special Financial Supports 2020

Number of full scholarships and scholarship amount	Number of partial scholarships and scholarship amount	Total Amount for year 2020
10 Scholarships – Rs. 5,000/- per month	19 Scholarships - Rs. 3,000/- per student	Rs. 1,284,000/-

Table 2.1.5.1. – F (B): Special Financial Supports 2020

Utilization Category	Event	No. of students	Paid Amount (Rs.)
Utilization of the Student Welfare and Distress Fund	Due to death of the Bread Winner.	1	150,00/-

Scholarship Funded By Foreign Donors

As per a request made by a private donor, UCSC has selected 02 students to initiate in setting up this scholarship which will go a long way in assisting the needy students and encouraging them to further academic activities.

Table 2.1.5.1. – G: Scholarships Funded by Foreign Donors 2020

Number of scholarships	Scholarship amount	Duration
02 Scholarships	Rs. 5,000/- per month	Until the studentship end

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 2020 and following members were elected for the Student Union.

Name of the Student	Reg. Number	Office Bearer
M.H.M.N. TENNAKOON	2017/IS/084	President
B.H.R. COORAY	2018/CS/026	Vice-President
N.P.H.L Pathirana	2018/IS/053	Secretary
M.N.A. Ahshaf	2018/IS/004	Editor
T.N.S. Thammita	2018/CS/167	Junior Treasurer
R.P. Ranaweera	2018/CS/132	Committee Member
D.M.S.S. Dassanayake	2018/CS/028	Committee Member
D.M. Samarasinghe	2018/IS/067	Committee Member
B.A.I.V. Harischandra	2019/IS/033	Committee Member
B.A.A.D. Bandara	2019/CS/009	Committee Member
U.K.S.D. Wijesinghe	2019/IS/095	Committee Member

M.F. Rizwan	2019/CS/144	Committee Member
K. Kajaruban	2018/IS/038	Committee Member

Many activities of students are coordinated by the Student Union although there are several student clubs and societies. However, due to the pandemic situation, it was not possible to conduct physical activities and many online activities including Sinhala-Tamil New Year Online Avurudu was conducted during 2020.

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 – 2020

Event	Date
UCSC Padhura	09.01.2020
Annual outing of ISACA Student group of UCSC	08.03.2020
AGM of ISACA Student group of UCSC	13.04.2020
Online T-Shirt Designing Competition	14-22.04.2020
Online Avurudhu Competitions	14-22.04.2020
ReidExtreme 1.0	28.05.2020 - 15.08.2020
Career Guidance for freshers	10.06.2020
Introduction to programming Series	10.06.2020 - 23.07.2020
High Altitude Balloon event by Mechatronic Society	01.07.2020
FreshHack	11.07.2020
Workshop for CreativeEye	25.07.2020
Creative Eye Competition	27.07.2020
Version Controlling using GitHub by ComSoc	04.08.2020
Introduction to DevOps	21.08.2020
AGM of UCSC ACM Chapter	15.11.2020

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

2.1.8 STUDENT ACHIEVEMENTS

2.1.8.1 EXTRACURRICULAR

Students are encouraged to participate in many extracurricular activities to enhance their knowledge, skills, attitude and mindset. At the same time, such participation provides a better external reputation for the UCSC and its students. Following list provides the details of the achievements in 2020.

No.	Competition	Achievement
01.	Mora Scrabbler 2019	3rd Place
02.	Haxmas 2020 organised by IIT	Finalists
03.	HackX organised by MIT UOK	Finalists
04.	Hacktitude 2020 organised by 99x technology	Finalists
05.	Oration 2020 - Inter University Speech competition	Semi-Finalists
06.	“ILLUMINATE” inter-university best speaker competition organised by USJ	1st place
07.	International Mars Hackathon organised by south asian mars Society	Participation
08.	CodeFest organised by SLIIT	Finalists
09.	MoraExtreme	2nd Place
10.	IEEEExtreme	4th Place & Globally 97th
11.	SHARp 1.0 organised by Society of Computer Science USJ	Finalists
12.	Unilever Inquisitive Minds Ideathon	Winner
13.	Inter University ESports Championship	2nd Place
14.	Hacking Challenge eCSW byCERT	2nd Place
15.	Code with WIE	3rd Place
16.	ACEScoders V8	3rd Place
17.	ICS CTF	Winners
18.	Inter university Quiz by HEMAS	3rd Place
19.	DOTA 2 by Gamers	2nd Place

2.1.9 GRADUATION 2020

The convocation of 2020 which was planned to held during August 2020, was postponed due to pandemic situation in the country. Later it was decided to issue the degree certificates of Year 2020 graduates and postpone the convocation ceremony to 2021. Hence, it was decided the graduation date of year 2020 as 30th December 2020 and 250 students graduated from 5-degree programmes in Computer Science, Information Systems and Software Engineering streams. Students of the BSc in Information Systems and BSc Hons. in Information Systems degree programmes are analysed with respect to their A/L study stream (Tables 2.1.09 B and 2.1.09 C).

Table 2.1.9. – A: Final Academic Performance of UCSC Graduates – 2020

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 %	
		Ma le	Fe ma le	M ale	Fe m al e	M ale	Fe m al e	M ale	Fe m al e	M ale	Fe m al e	M ale	Fe m al e	Ma le	Fe ma le
B.Sc. in Computer Science (A/Y 2015/2016)	Main	81	34				1	12	3	65	30	77	34	95	100
B.Sc. in Information Systems (A/Y 2015/2016)	Main	21	55	0	0	3	6	1	11	13	35	17	52	81	95
B.Sc. (Hons) in Computer Science (A/Y 2014/2015)	Main	23	7	6	1	8	2	6	3	2		22	6	96	86
B.Sc. (Hons) in Computer Science (A/Y 2013/2014)	Repeat	1						1				1		100	
B.Sc. (Hons) in Information Systems (A/Y 2014/2015)	Main	11	9	5	3	2	6	4				11	9	100	100
B.Sc. (Hons) in Software Engineering (A/Y 2014/2015)	Main	3	7		4	1	2	1	1	1		3	7	100	100
B.Sc. in Computer Science (A/Y 2011/2012)	Repeat	1								1		1		100	
B.Sc. in Computer Science (A/Y 2012/2013)	Repeat	3								3		3		100	
B.Sc. in Computer Science (A/Y 2013/2014)	Repeat	1								1		1		100	
B.Sc. in Computer Science (A/Y 2014/2015)	Repeat	4						1		3		4		100	
B.Sc. in Information Systems (A/Y 2011/2012)	Repeat		1								1		1		100
B.Sc. in Information Systems (A/Y 2014/2015)	Repeat	1								1		1		100	

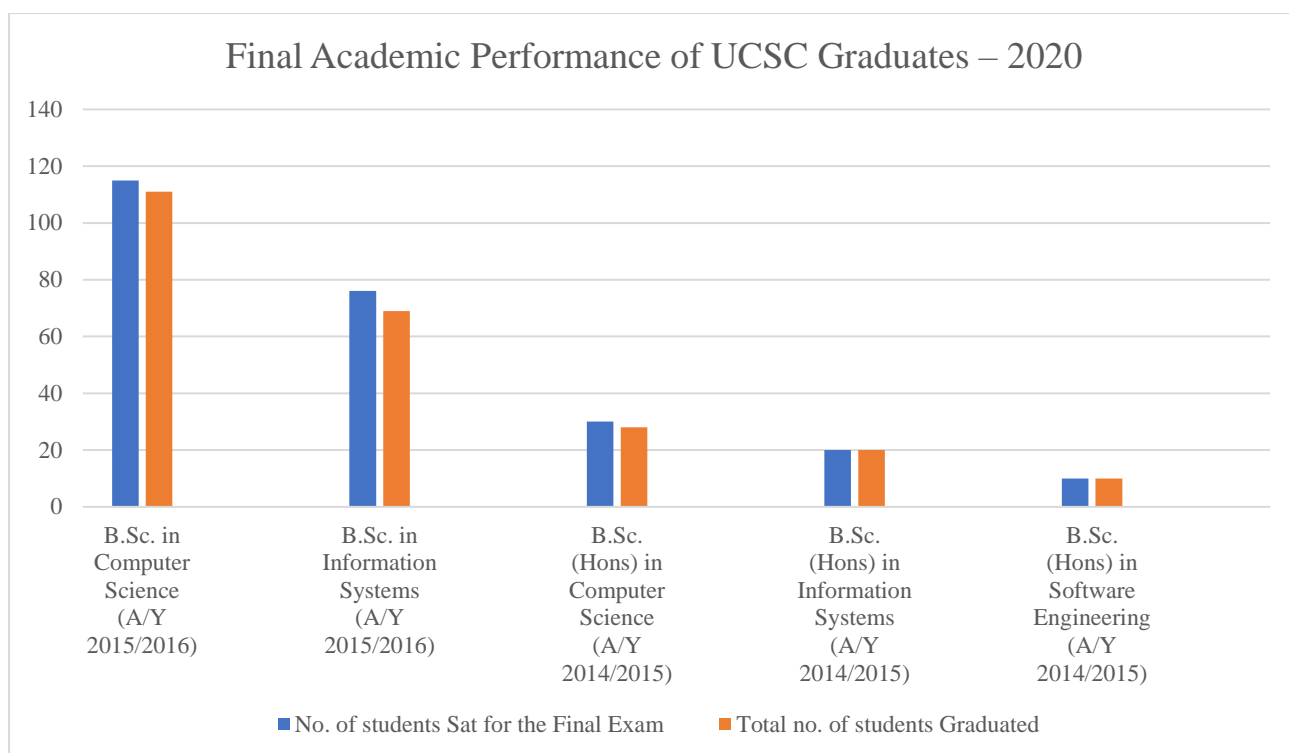


Table 2.1.9. – B: Performance of BSc in IS Graduates with A/L study streams

Class		First			Second Upper			Second Lower			Pass			Total
Gender		M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot	
Stream	M				2	3	5	1	5	6	10	9	19	30
	B					1	1		3	3		6	6	10
	C				1	1	2		3	3	3	14	17	22
	A					1	1				1	7	8	9
Total					3	6	9	1	11	12	14	36	50	71

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	3	2	5	2		2	2		2				9
	B	2	1	3		4	4	1		1				8
	C					2	2	1		1				3
	A													
Total		5	3	8	2	6	8	4		4				20

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

2.1.10 UNDERGRADUATE AWARDS

Several convocation awards are declared for all degree programmes at UCSC. There is a pre-defined criterion for these awards and all selections are approved by the Senate of the University of Colombo. The following tables describe the awards declared on 30th December 2020.

Table 2.1.10. – A: Convocation Awards for Information Systems Degree Programme – 2020

Name of the Award	Name of the Awardee
Zebra Technologies Academic Excellence Award for the Best Performance in three year degree – 2019	Jayawardena T.P.S.
IFS Academic Excellence Award for the Best Performance in four year degree – 2019	Liyanage L.C.
Sampath Bank Award for the Best Final Year Project – 2019	Perera D.N. Samarasekara P.H. Senevirathne T.P.W.
David Pieris Group Gold Medal for the Best Performance in Industrial Placement – 2018	Perera D.N.

Table 2.1.10. – B: Convocation Awards for Computer Science Degree Programme – 2020

Name of the Award	Name of the Awardee
Virtusa Academic Excellence Award for the Best Performance in three year degree - 2019	Maleesha P.L.A.S.
Professor Mohan Munasinghe Award for Computer Science – 2019	Wattearachchi W.D.
ICTA Award for the Best Computer Science Final Year Project – 2019	Heenkenda H.M.S.R.
David Pieris Group Gold Medal for the Best Performance in Industrial Placement - 2019	Jayawickrama G.B.P.

Table 2.1.10. – C: Convocation Awards for Software Engineering Degree Programme – 2020

Name of the Award	Name of the Awardee
IFS Award for the Best Performance in B.Sc. (Hons) in Software Engineering – 2019	Wijayawardana R.S.
Soma Goonetillake Memorial Award for the Best Final Year Project in B.Sc. (Hons) in Software Engineering – 2019	Chandrasiri G.M.D.N. Perera U.D.I. Rajaratne W.D.S.M. Samarawickrama S.W.
Wimala Jayaratne Memorial Award for the Best Performance in Software Engineering in B.Sc. (Hons) in Software Engineering - 2019	Wijayawardana R.S.

Table 2.1.10. – D: Convocation Award for all streams – 2020

Name of the Award	Name of the Awardee
Prof. V.K. Samaranayake Memorial Medal for the Most Outstanding Graduate of the UCSC - 2019	Wattearachchi W.D.

Table 2.1.10. – E: Convocation Award for all faculties (Open Awards) – 2020

Name of the Award	Name of the Awardee
Canekeratne Prize for General Merit – 2019	Hishan M.H.M.
Prof. Tilak Hettiarachchy Award for Academic Excellence - 2019	Wattearachchi W.D.

Table 2.1.10. – F: Special Awards – 2020

Name of the Award	Name of the Awardee
Seeds for the future – 2020 Based on their good academic performance have got selected to represent Sri Lanka and It was conducted by Huawei Technologies Lanka Co., (Pvt) Ltd in China and coordinated by the Ministry of Education, Sri Lanka.	Samarasekara I.K. Hewavitharana J. P. Mohamed S. Z. Wijesena P. C.

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. The following table provides the details of the 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 - 2020

Programme	Number Graduated	Number Responded	Employed	Waiting for Jobs / Not interested
Bachelor of Computer Science	159	116	95%	5%
Bachelor of Information Systems	91	72	85%	15%
Total	250	188	90%	10%

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 2020 are presented in the next few sections.

2.2.1.1 MASTERS DEGREES

UCSC offered six master degree programmes in 2020. A selection test was held to shortlist suitable candidates and interviews were held to identify more suitable candidates, using a structured marking scheme. The selection interviews of all master programmes were held online due to the pandemic situation in the country and 270 eligible candidates were selected from among over 500 shortlisted candidates of the selection test.

- **Master of Computer Science (MCS)**

Those who have a Computing Degree or equivalent qualification are selected for this degree programme since the curriculum was designed considering basic courses in Computing Degree programmes. The intake size for the programme for the year 2020 was 100 students. The students were selected based on their first-degree qualification, performance at the selection test and selection interviews.

- **Master of Science in Computer Science (MSc in CS)**

Master of Science in Computer Science degree is designed for those who wish to acquire a Computer Science degree with a research focus. A student who satisfies the specified minimum academic performance in the first two semesters of the Master of Computer Science degree is eligible to register in the second year for the Master of Science in Computer Science degree programme (third and fourth semesters).

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

Those who are interested in changing their career path into Computing or obtaining a postgraduate qualification in Computing are offered this programme. Any graduate with working experience in a computing environment is encouraged to apply for this programme. The intake size of the programme for the year 2020 was 100.

- **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 2020 was 30.

- **Master of Cybersecurity**

Master of Cybersecurity is a distance International Master Program in Cybersecurity launched in 2018 in collaboration with Asi@Connect TEIN Cooperation Centre, European Commission, which covers a broad spectrum of subjects in Network Security and Cybercrime Investigation. The programme administers online (distance learning) and the students are required to be present at the UCSC for hands-on practical sessions and for the semester examinations. Initial batch consists of 16 international participants from National Research and Education Networks (NREN) in Afghanistan, Bangladesh, Bhutan, Cambodia, Laos, Myanmar, Nepal, and other Southeast Asian countries. Due to pandemic situation, students were not able to visit Sri Lanka for practical sessions and semester exams. Hence, many activities were postponed to 2021 and new batch of the programme was also not started in year 2020.

- **Master of Business Analytics**

The UCSC has identified Business Analytics as an emerging and futuristic discipline that blends Data Science with the needs of modern-day businesses with its primary focus on understanding business performance and developing new strategies based on data. Accordingly, the Master of

Business Analytics has been designed to cater to the emerging trends of Data Science. The second batch of the programme was started in 2020 and it consists of 38 students.

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

Almost all the classes of the programmes in the year 2020 were delivered online due to the pandemic situation in the country. The live sessions of the classes were conducted via zoom and video recordings of each session were shared with students through youtube channels of lecturers via the postgraduate virtual learning environment pgvle.ucsc.cmb.ac.lk.

2.2.1.2 ENROLMENT

The master courses of Information Technology, Computer Science, Information Security and Business Analytics commenced in August 2020 for the 2019/2020 intake, but the recruitment of students was started in 2019. The Inauguration of the intake was held as a virtual ceremony and the academic activities of the 1st semester were conducted online due to the pandemic situation. The academic time table for the programmes were 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. The live sessions of the classes were conducted via zoom and video recordings of each session were shared with students through youtube channels of lecturers via the LMS.

The student handbook for Master Degree programme was published in 2020 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 2020

Degree Programme	Intake 2019/2020	1st Year Students		2nd Year Students		Total
		New	Repeaters	New	Repeaters	
Master of Computer Science	102	102	51	73	14	240
Master of Science in Computer Science				19		19
Master of Information Technology	101	101	44	75	5	225
Master of Information Security	29	29	1	28	2	60
Master of Business Analytics	38	38	1	37		76
Degree Programme	Intake 2018/19	1st Year Students		2nd Year Students		Total
		New	Repeaters	New	Repeaters	
Master of Cybersecurity	16	14				14
Total	287	285	97	232	21	600

Student registration fees of the master's degree programme is the main source of generated income of the UCSC. Therefore, it is very important to obtain active participation and contribution from the

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

2.2.1.3 STAFF PARTICIPATION

Table 2.2.1.3. – A: Direct Staff Participation in Masters Programme 2020

Degree Programme	Academic Lecturing			Supervision		Administration	Non-Academic
	UCSC	Visiting (Local)	Visiting (Foreign)	UCSC	Visiting		
MCS	32	7		27		2 (Exams/ Postgraduate)	5
MIT		17					
MIS		6	1				
MBAnalytics		4			-		
MC	4	1		-			
Total	33	12	1	27		2	5

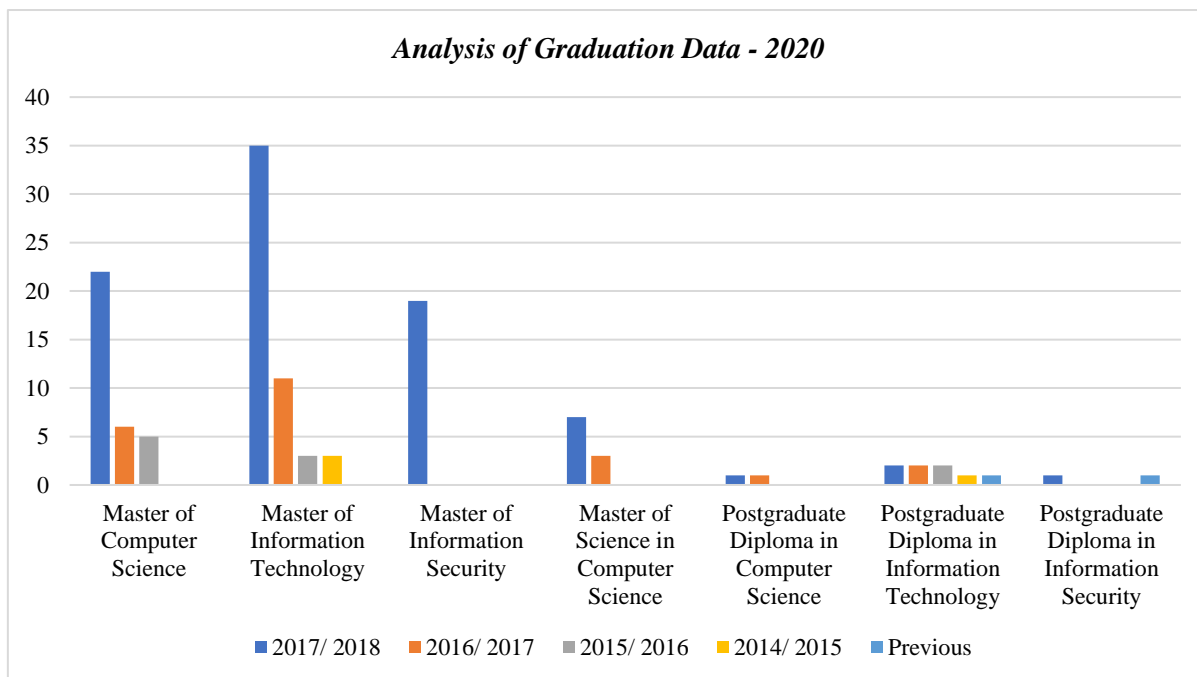
2.2.1.4 GRADUATION OF MASTERS PROGRAMME

Postgraduate Convocation for Master's Degree was scheduled to be held in December 2020 but it was postponed due to the pandemic situation in the country. Hence the graduation list was released on 31st December, 2020 and it was decided to organize the graduation ceremony at a later date. Some repeat students were also graduated 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 2020

Course	Intake 2017/ 2018	2017 / 2018	%	Graduated			Previous	Total
				2016 / 2017	2015 / 2016	2014 / 2015		
Master of Computer Science	82	22	27	6	5			33
Master of Information Technology	92	35	38	11	3	3		52
Master of Information Security	29	19	66					19
Master of Science in Computer Science	15	7	47	3				10
Postgraduate Diploma in Computer Science		1		1				2
Postgraduate Diploma in Information Technology		2		2	2	1	1	8
Postgraduate Diploma in Information Security		1					1	2

Total	218	87	38 %	23	10	4	2	126
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The list of postgraduate students who were eligible to receive special awards based on their performances in the programme, were also announced on 31st December, 2020. Details are given below.

Name of Award/Medal	Name of Recipient
Kingslake Award for the Best Student for the Master of Computer Science – 2019	A.M. Weeratunga
Award for the Best Student for the Master of Science in Computer Science - 2019	R.H. Ramawickrama
JICA Award for the Best Student for the Master of Information Technology – 2019	M.S.D. Abrew
Asiriyal De Zoysa memorial award for the best student in Master of Information Security - 2019	D. Thilina Viraj

2.2.1.5 MASTERS PROGRAMME DEVELOPMENT

By considering the experience of the last few years and requirement of aligning master's degree programme with Sri Lanka Qualification Framework (SLQF), the syllabus of all master's degree programmes were revised in 2018. Initiatives have been taken to introduce a new master's programme as degree of Master of Computing by Research in 2020. The by-laws and regulations of the programme has been approved by the Senate and the Council of University of Colombo and the necessary steps have been taken to obtain the concurrence of the UGC for the degree programme

2.2.1.6 RESEARCH DEGREES – MPhil AND PHD PROGRAMMES

The UCSC has a faculty of highly qualified staff specialising in several sub-domains of computing who have acquired postgraduate qualifications in leading universities including UK, Japan, Sweden, Australia, Canada, and USA, etc. The rich resource pool of academic expertise constitute a multitude of computing research domains such as Software Engineering, Human-Computer Interaction, Machine Learning, Database Management, Natural Language Processing, Computer Graphics and Simulation, Sensor Networks, Distributed Computing, eLearning, Machine Vision, Bioinformatics, etc.

The UCSC planned to launch a state-of-the-art research facility namely UCSC Research Laboratory for the research students from the year 2021. The Laboratory is a dedicated interactive research space consisting of over 1000 square feet and aims to strengthen the existing research and development environment of UCSC by providing a conducive research and development.

By considering the experience of the last few years, the bylaws and regulations of both the MPhil and PhD degree programmes were revised in 2019. The revised By-laws and Regulations of the MPhil/ PhD in Computing degree programmes have been approved by the Senate and the Council of the University of Colombo. Even Though, registrations are open throughout the year, initiatives have been taken to publish a call for application for MPhil/ PhD in Computing degrees for the year 2021 in December 2020.

Possible candidates have been prompted to submit an initial application first and after evaluating the application by a panel, the eligible candidates are encouraged to identify potential supervisors by matching their research interests with research areas/groups/interests of the UCSC senior academic staff and submit the official application.

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 2020

Research Degree	Year 1 (Registration 2020)	Year 2 (Registration 2019)	Year 3 (Registration 2018)	On Extension (Registered before 2017)	Total	No of Graduated in 2020
PhD						
Full Time				1	1	
Part Time				1	1	
PhD – Total				2	2	
MPhil						
Full Time	1	1		5	6	1
Part Time	1	2	4	5	12	2
MPhil – Total	2	3	4	10	19	3
Total Research Degrees	2	3	4	12	21	3

2.3 EXTERNAL DEGREE & EXTENSION COURSES

2.3.1 BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL) DEGREE PROGRAMME

In the past, BIT programme alone has attracted more than 40,000 students and has produced 2674 graduates; 4009 higher diploma holders and 8779 diploma holders up to the end of 2020. In 2019 (20th Batch) had 2,093 new enrolments and the process for new intake commenced in late 2019 and kept open until March 2020 to cater to the advanced level students of 2019. The following table shows the details of the student registration for the year 2020.

Table 2.3.1. – A: BIT Student Registration - 2020

Course	New Registration	Re-registration	Total
First Year Registration	2093	286	2379
Second Year Registration	652	692	1344
Third Year Registration	295	1178	1473
Total	3040	2156	5196

2.3.1.1 STUDENT PERFORMANCE – 2020

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

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

External Undergraduates	Expected	2020	2019	2018
DIT - New Intake	1500	2099	1098	1602
DIT – Registered	2000	2370	2373	2188
DIT – Diplomas	400	651	436	403
[DIT/Registered]%	20%	27%	18%	18%
HDIT - Higher Diploma Intake	600	639	401	490
HDIT - Higher Diploma Registered	1200	1303	1634	756
HDIT - Higher Diplomas	300	274	120	151
[HDIT/Registered]%	25%	21% /	7%	20%
BIT - Degree Intake	300	289	174	242
BIT - Degree Registered	1500	1312	862	1177
BIT – Graduates	225	284	177	217
[BIT/Registered]%	15%	22%	20%	18%

2.3.1.2 BIT TEACHING INSTITUTES

BIT, www.bit.lk, is conducted in the public-private-partnership mode since UCSC is not directly involved in the teaching process. However, UCSC provides teaching and learning resources such as detailed syllabi with a list of recommended textbooks for each course, model and past question papers, interactive learning materials and self-evaluating quizzes through the Virtual Learning Environment (VLE) [<https://vle.bit.lk/>]. Private teaching institutes can also make use of the VLE resources to conduct teaching for the BIT degree programme.

In the year 2020, two meetings were held with the private teaching institutes. The first meeting was held on 19th April 2020 to brief the academic and examination plan for 2020 due to the COVID-19 pandemic. The second meeting was held on 11th December 2020 to present the revised semester 3 curriculum for the year 2021 and to obtain their feedback.

At the moment, the UCSC does not accredit any of the private teaching institutions, but they can attain the status of a “Recognized BIT Teaching Institute”.

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

When a teaching institute commences teaching BIT courses, they need to register with the External Degrees Centre (EDC) of the UCSC. At this stage, they are considered as an “Applied Institute”. When a teaching institute informs the UCSC that they conduct courses for the BIT degree programme along with a list of their students who have registered for the BIT degree, UCSC verifies the records and if acceptable, those teaching institutes are given access to the VLE as readers (not as students or teachers) to see the learning content including interactive learning activities. At this stage, these teaching institutes are considered as an “Application Verified Institute”. When BIT students apply for examinations, students are given an option to disclose the teaching institutes in which they have taken the courses. If students of those teaching institutes, completed the BIT examinations successfully, then, UCSC publishes those institution statistics (analysis) on the BIT website, with the consent of the respective teaching institute. Only those teaching institutes that have satisfactory progress are offered the status of “Recognized BIT Institute” and their institute details are included in the BIT handbook.

For the year 2020, **18 private teaching institutes from 07 districts** have attained the status of a “Recognized BIT Institute” and their details and institute statistics (analysis) based on students' performance in the final examinations are published on the BIT website. For more details, please refer <http://www.bit.lk> website.

2.3.1.3 BIT EXTERNAL DEGREE GRADUATION AND DIPLOMA AWARDS

BIT External degree graduation was held on 27th January 2021 online and Diploma & Higher Diploma award ceremony was held on 26th January, 2021 through online. The number of graduates, 284 were conferred the degree at this Convocation. Detailed statistics are given in the table below.

Table 2.3.1.3. – A: Performance of External Degree Programme - 2020

Course	New registration	Repeaters	Total	No of Graduated
Diploma in Information Technology	2099	271	2370	651
Higher Diploma in IT	639	664	1303	274
Bachelor of Information Technology	289	1023	1312	284
All	3027	1958	4985	1209

Table 2.3.1.3. – B: Analysis of Results – BIT Graduation data in 2020

Intake	First	Second Upper	Second Lower	Pass	Total
BIT	1	7	15	261	284

2.3.1.4 CONVOCAATION AWARDS

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

Name of Award/Medal	Name of Recipient
Prof. V.K. Samaranayake Memorial Medal for the best performance at the Bachelor of Information Technology (External) Degree - 2019	B.Thanushan
Prof. G.N. Wikramanayake Memorial Medal for the best performance in Software Development Project - 2019	M.L.M. Muznee
Mr. M.J.P.U. Samanthilake Memorial Medal for the best e-Learner – 2019	B.Thanushan
Best e-Learner awards for the 1 st Semester – 2019 2 nd Semester – 2019 3 rd and 4 th Semesters – 2019	R.M.D. Roshinie B.A.S. Hansamali L.P.S.S. Kumara

2.3.1.5 EMPLOYABILITY

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

Programme	2020	2019	2018	2017
Bachelor of Information Technology	86%	90%	87%	85%

2.3.2 EXTENSION COURSES

CSC was established to coordinate and manage extension courses, which are based on specialized areas. In 2020, UCSC offered five certificate level courses and attracted over 175 students and all programmes were conducted online after May 2020. Further, ADMTC also offered two certificate level courses and attracted over 100 students. The below table shows the details of those courses which are normally conducted on weekends either on Saturday or Sunday. Certificates were offered based on the active participation in the courses and they could be verified at <http://www.ucsc.lk/verify>.

Table 2.3.2. A: CSC and ADMTC Training Programmes - 2020

Course	Division	Duration (weeks)	No. Batches	Participants
Java Application Development Using JavaSE	CSC	8	4	132
Software Quality Assurance Using Test Automation Frameworks	CSC	7	1	23
Dynamic Web Application Development With PHP & MySQL	CSC	10	1	23
Graphic Design and Creativity Development	ADMTC	8	2	35
Advanced Multimedia Web Design and Development	ADMTC	8	3	70
Total			11	283

Certificate awarding ceremony URL

<http://ucsc.cmb.ac.lk/events/completion-short-course-graphics-design-creative-development/>

Table 2.3.2. B: Consultancy Projects - 2020

Reporting Authority	Name of the Project
Department of Registration of Persons	Electronic National Identity Card 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 the running time of the Buses on Routes and Issuing the Running charts and Annual Licenses to the Buses, Three Wheelers and Schools Vans.
Attorney General Department	Consultancy Services for the Information Technology, Networking and Data Storage for Establishment of the Proposed Multi Storied Office Building for the Attorney General Department
Development Lotteries Board	Consultancy to setup a virtualized redundancy system

Education Employees Co-operative Thrift and Credit Society Limited (EDCS)	Consultancy service to automate the process for the Education Employees Co-operative Thrift and Credit Society Limited
Marine Environment Protection Authority (MEPA)	MEPA website development

e-Learning Centre conducted several workshops and examinations to several organizations in 2020, and the details are as follows.

Programme	No. Batches	Participants
Online Examinations for KPMG	1	90
Computer Test for Confirm in the Post of Management Assistant grade III – NILIS	1	1
Computer Test for Confirm in the Post of Management Assistant grade II, Library Assistant Grade III– University of Colombo	1	34
Examination for Recruitment of Programmer Cum System Analyst grade II – University of Colombo	1	30
Total	4	155

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 2020.

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

Programme	Registration	Applied for * e-Testing	Passed e-Testing
FIT	618	220	64

2.3.4 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 2020, UCSC had 13 foreign students from Afghanistan, Nepal, India, and Bangladesh for the Master of Cybersecurity programme and 01 student from Bangladesh is following the Bachelor of Information Technology External Degree programme.

3. RESEARCH

3.RESEARCH

3.1 RESEARCH, INNOVATION, AND PUBLICATIONS

Research culture is the most important and distinguished area to showcase the achievements of UCSC. In 2020, several activities were carried out to enhance the research programmes at the UCSC. Some of these research activities are linked to research degree programmes and others relate to external organizations that have directly funded research projects at UCSC. The importance of collaborative research was promoted among the academic staff to expand the research activities by allowing them to form research groups at UCSC. Since external funding varies due to competition, internal research and development allocation was maintained to sponsor research activities. A significant percentage of the income of masters and external degree programme was used for this allocation. At the beginning of 2020, a policy document for UCSC research allocation for R & D was updated to allocate funds for staff research activities in 2020. At the same time, the UCSC called applications for UCSC research project allocation in 2020 granting Rs. 500,000.00 for each staff to continue their research projects with necessary physical / human resources. The progress presentation of funded research projects of 2019 was held online in June 2020.

3.1.1 UNDERGRADUATE LEVEL RESEARCH PROJECTS

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

Table 3.1.1 A: Undergraduate Level Research projects conducted in 2020

Degree Programme	Project Coordinator	Number of Students	No. of Projects	Number of Supervisors	Number of Examiners
BSc Honours in Computer Science	Dr. (Mrs.).H.N.D. Thilini Ms.C.L.I. Fonseka	32	32	16	30
BSc Honours in Information Systems	Dr. C. I. Keppitiyagama	20	7	11	13
BSc Honours in Software Engineering	Dr. B.H.R. Pushpananda Mr. R.J. Amaraweera	8	3	6	6

3.1.2 MASTERS LEVEL PROJECTS

In all master degree programmes, students are supposed to carry out an individual project or independent study as a primary requirement to complete the degree programme. The individual project expands over two semesters (one calendar year) and a supervisor who is usually a senior academic staff member of the UCSC is appointed to supervise each student. Project coordinators are appointed at the beginning of the academic year to manage the evaluation process. The individual projects can be categorized as research type projects and implementation type projects. In the Master of Computer

Science programme, most of the projects are research types. In other programmes such as Master of Information Technology, Master of Information Security and Master of Business Analytics , individual projects are implementation types. However, some projects have a research component. Details of masters projects in 2020 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 %
		2017/2018	Repeaters		
MCS	2019/2020	29	8	28	76%
MSc in CS		8	2	9	90%
MIS		2		2	100%
MIT		51	23	54	73%

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 2020 , several applicants registered for research degree projects and details are presented below.

Table 3.1.3. A: Projects of Research Degrees

Degree Programme	Number of Applicants	Registered
MPhil	3	2
Total	3	2

3.1.4 FUNDED RESEARCH PROJECTS

3.1.4.1 INTERNAL RESEARCH AND DEVELOPMENT PROJECTS

In 2020, UGC did not allocate funds for research and development activities and the capital grant was not enough to cover the infrastructure development activities of the UCSC. Hence, it was decided to utilize the research allocation of postgraduate programmes to fund research projects carried out by the senior academic staff. All staff members were invited to submit proposals based on their planned research activities during 2020 and 2 proposals were selected for financial assistance . Following table shows to the details of each project and all staff faced several operational problems due to pandemic situation in the country.

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

Research Project/Activity	Principal Investigator/ Research Group	Allocation Rs	Utilization Rs
Detecting the onset and progression of depression from textual cues in online communication for providing timely intervention	Dr. A R Weerasinghe	500,000	440,000
Modeling and Prediction of Solid Waste Generation using Machine Learning Approaches in Sri Lanka	Dr. M G N A S Fernando	500,000	125,000

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

Table 3.1.4.1. B: Participation of Conferences/Symposium and Workshops - 2020

Staff Level and Type of Conference	Published/ Presented	Total
Senior Academics – Conferences held in Sri Lanka	48	48
Senior Academics – Conferences held outside Sri Lanka	15	15
Junior Academics – Conferences held outside Sri Lanka	7	7
Total	70	70

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. The following table shows the details of projects carried out in the year 2020. The covid situation affected many projects to delay the planned activities during 2020.

Table 3.1.4.2. - A: Utilization and Outcome of Research Projects Funded by External Parties -2020

Project Name	Principal Investigator	Donor Agency or Sponsoring Organization	Type of Grant (Local or Foreign)
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
Master of Cybersecurity	Dr. T.N.K. De Zoysa	Asi@Connect TEIN Cooperation Center, European Commission	Foreign
Uppsala Project: Autonomous Visual Detection of Bio-hazards Locations with Aerial Drones	Dr. T.N.K. De Zoysa	Uppsala University	Foreign
Swedish Research Link	Dr. T.N.K. De Zoysa	Swedish Research Council	Foreign
Entity Resolution in Multimedia Databases	Dr. K.L. Jayaratne	National Science Foundation	Local
AHEAD Projects - Innovation Commercialization	Prof. N.D. Kodikara Dr. T.N.K. De Zoysa (co - coordinators)	World Bank	Foreign

Enhancement (ICE) project	Sub Project 1: Conversational Interfaces for Local Languages	Dr. A.R. Weerasinghe		
	Sub Project 2: Genomics Lab	Ms. M.W.A.C.R Wijesinghe / Dr. A.R. Weerasinghe		
	Sub Project 3: Cost Effective Modeling and Simulation Solutions	Prof. N.D. Kodikara		
	Sub Project 4: Blockchain and dApps	Dr. T.N.K. De Zoysa		

3.1.5 ALLOCATION FOR RESEARCH THROUGH POSTGRADUATE PROGRAMME AND UTILIZATION

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

Staff members were also supported to utilize the allocation to cover their research expenses directly related to their research work such as acquiring goods and services including access to the internet, subscription of professional organizations, and partial support for externally funded projects, etc. Journal publications in web of science indexed journals were supported through the "open quota" allocation. The following table shows the utilization of Research allocation during 2020 .

Table 3.1.5. A: Utilization of Research Allocation during 2020

Staff Members	Utilization (Rs.)	Average Utilization (Rs.)
Senior Staff (31)	3,332,837.35	107,510.88
Junior Staff (17)	550,000.00	32,352.94
Total Staff – (48)	3,882,837.35	80,892.44

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

3.1.6 RESEARCH GROUPS AT UCSC

In order to promote the collaborative research culture, UCSC staff are invited to carry out research and development activities as small teams comprising one or more senior staff members, junior staff members, full or part-time research assistants and students. Some groups also invite external parties to collaborate to carry out activities of research groups by funding fully or partially as well as contributing to their expertise in the respective area. The following table presents the details of active research groups in 2020 .

Table 3.1.6. A: Research Groups in 2020

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	Dr. (Mrs) M.D.J.S. Goonatillake & Dr (Mrs) L.N.C. De Silva	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. T.N.K. De Zoysa, Dr. C.I. Keppitiyagama, Dr. M.I.E. Wickramasinghe, Dr. P.V.K.G. Gunawardana, Mr. Chathura Suduwella, Mr. Charith Elvitigala & Mr. Asanka Sayakkara	http://ucsc.cmb.ac.lk/research-groups/sustainable-computing-research/
The modeling and simulation group	To work on a Ship Handling Simulator (ViduSayura) for the Sri Lankan Navy	Prof. N.D. Kodikara & Dr. K.D. Sandaruwan	http://ucsc.cmb.ac.lk/research-groups/modelling-simulation-group/
Language Technology Research Laboratory (LTRL)	To address the growing need of local language computing in Sri Lanka by doing Localization and Language Processing research and development	Dr. A.R. Weerasinghe, Mr. W.V. Welgama & Dr. B.H.R. Pushpananda	http://ucsc.cmb.ac.lk/research-groups/language-technology-research-laboratory/
Distributed Computing	The development of novel middleware architectures and parallel algorithms based on shared persistent space and the emergent	Dr. D.N. Ranasinghe	http://ucsc.cmb.ac.lk/research-groups/distributed-computing-group/

	behaviour of large scale distributed systems		
The Bioinformatics and Computational Biology (BCB)	Involves conducting quantitative studies, such as pattern recognition and network analysis, to discover biological knowledge; and developing computational techniques, algorithms, tools and statistical models to analyze various biological data and make predictions.	Dr. A.R. Weerasinghe & Ms. C.R. Wijesinghe	http://ucsc.cmb.ac.lk/research-groups/bioinformatics-and-computational-biology-bcb-research-group/
Humanitarian Applications of Unmanned Aerial Vehicles(UAVs)	R&D in UAV infrastructure development(payload,communication, ground control stations etc) and Humanitarian Operations & Agricultural Applications of UAVs	Dr. G.D.S.P. Wimalaratne, Dr. H E M H B Ekanayake, Dr K A K T Karunanayake, Mr K V D J P Kumarasinghe,Dr H K T C Halloluwa, Dr M I E Wickramasinghe, Mr R M U A Rathnayake, Dr. M D J S Goonetillake, Dr L N C de Silva, Dr B H R Pushpanada	-

3.1.7 RESEARCH PUBLICATIONS AND AWARDS

The following table shows the summary of research publications in 2020 and details of all the publications are given at the end of this section.

Table 3.1.7. – A: Publication Summary - 2020

Type of publication	Held/Published in Sri Lanka	Held/Published outside Sri Lanka	Total
Conferences	29	18	47
Journals	2	12	14
Total	31	29	61

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 2020.

3.1.7. - B: Detail Analysis of Publications - 2020

Name of Staff Member	Conferences	Journals	Total
Prof. K.P. Hewagamage	2	1	3
Prof. N.D. Kodikara	1		1
Prof. G.K.A. Dias	1		1
Dr. A.R. Weerasinghe	15	2	17
Dr. A.S. Athukorala	1		1
Dr. G.D.S.P. Wimalaratne	2	2	4
Dr. D.D. Karunaratne		1	1
Dr. (Mrs) M.D.J.S. Goonatilake		1	1
Dr. K.L. Jayaratne	1		1
Dr. (Mrs) S.M.K.D. Arunathilake	1		1
Dr. T.N.K. De Zoysa	2		2
Dr. C.I. Keppitiyagama	4		4
Dr. D.N. Ranasinghe	2		2
Dr. H.A. Caldera	3	2	5
Dr. M.G.N.A.S. Fernando	1	1	2
Mrs. C.R. Wijesinghe	2	1	3
Dr. H.E.M.H.B. Ekanayake	2		2
Dr. M.I.E. Wickramasinghe		2	2
Dr. K.D. Sandaruwan	2		2
Dr. (Mrs) T.A. Weerasinghe	1		1
Dr. P.V.K.G. Gunawardana	3		3
Dr. (Ms) K.H.E.L.W. Hettiarachchi	2		2
Mr. K.P.M.K. Silva	1		1
Mr. W.V. Welgama	3		3
Dr. B.H.R. Pushpananda	6		6
Dr. H.N.D. Thilini	1		1
Mr. R.A.H.D. Perera	3	1	4
Ms. K..P.U. Jayasinghe		1	1
Mr. A. Sayakkara	4		4
Mr. P.K.M. Thilakaratne	2		2
Dr. K.T. Karunanayake	3		3
Dr. (Mrs) Dinuni K. Fernando	1		1

3.1.7.1 AWARDS FOR RESEARCH DURING 2020

UCSC continued to encourage students and staff to submit their research and development work for external evaluation to obtain national and international recognition. In 2020 , 7 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 –2020

Name of the awards	Awarding Agency	Publication or Project	Team members
Best Paper Award	13th International Research Conference (KDUIRC 2020), KDU, Sri Lanka	For the paper: An alternative Approach to Authenticate Sub Flows of Multipath Transmission Control Protocol Using an Application Level key	Mr Tharindu Wijethilake
Best Oral Presentation Award	13th International Research Conference (KDUIRC 2020), KDU, Sri Lanka	For the paper: An alternative Approach to Authenticate Sub Flows of Multipath Transmission Control Protocol Using an Application Level key	Mr Tharindu Wijethilake
Best Paper Award	20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), Sri Lanka	For the paper; Usage of Combinational Acoustic Models (DNN-HMM and SGMM) and Identifying the Impact of Language Models in Sinhala Speech Recognition	Dr. Randil Pushpananda, Dr. Ruwan Weerasinghe, Dr Thilini Nadungodage
Executive Dean's Commendation for Outstanding Doctoral Thesis Award for 2019	Science and Engineering Faculty, Queensland University of Technology, Australia	Outstanding Doctoral Thesis Award for 2019 for the paper; Human Money Interaction: Designing for Personal Finance in the developing countries	Dr H K T C Halloluwa
PhD Researcher of the year award	University of Reading, United Kingdom	PhD Researcher of the year award for Biomedical Engineering in 2020	Ms K P U Jayasinghe
Best Student Paper Award	Digital Forensics Research Workshop (DFRWS EU 2020)	For the paper; "Cutting through the Emissions: Feature Selection from Electromagnetic Side-Channel Data for Activity Detection	Dr Asanka Sayakkara
Best Poster Award	Digital Forensics Research Workshop (DFRWS EU 2020)	For the poster;; "EMvidence: A Framework for Digital Evidence Acquisition from IoT Devices through Electromagnetic Side-Channel Analysis	Dr Asanka Sayakkara

3.1.7.2 KEYNOTE/INVITED SPEECHES OF UCSC STAFF

3.1.7.2. - A: Detail of Keynote / Invited speeches of UCSC staff - 2020

Name of the staff	Event	Topic
Snr. Prof N.D. Kodikara	20th International Conference on Advances in ICT for Emerging Regions	Deep learning for computer vision
Prof. K.P. Hewagamage	Annual Research Symposium 2020, Faculty of Nursing, University of Colombo	ICT is Everywhere ... Why not for Healthcare ?

3.1.7.2. - B: Detail of UCSC staff as Resource Persons at Workshops/Tutorial/Seminars – 2020

Name of the staff	Event	Topic
Prof K.P. Hewagamage	Annual Research Symposium 2020, Faculty of Medicine, Colombo	Role of Learning Analytics in the evidence based Digital Education
Prof. K.P. Hewagamage	FITIS Webinar on ‘Accelerating Digital Education in the Digital Normal in Sinhala medium’ on Saturday, 18th July	“ඩිජිටල් අධ්‍යාපනයේ අභියෝග සහ එම අභියෝග ජය ගන්නේ කෙසේද”
Prof. K.P. Hewagamage and Dr. Enosha Hettiarachchi	Department of Science and Technology, Faculty of Applied Sciences, Uva Wellassa University	Workshop on Moodle Online Question Bank (24th and 25th August 2020) Day 1 - https://youtu.be/UQt8AdvoSps Day 2 part 1 - https://youtu.be/kNaIcbwA0wQ Day 2 part 2 - https://youtu.be/yJoeVcchzxU
Dr. Enosha Hettiarachchi	Online Seminar for Staff of UoC, Blended Learning Group, University of Colombo	Creating Interactive learning content using H5P -19th January 2021 https://youtu.be/Sw7XftC42_4

3.1.7.3 VISITING RESEARCHERS AT UCSC

Table 3.1.7.3. – A: Visiting Researchers at UCSC – 2020

Visiting Researcher	Duration	Activity
Professor Adrian David Cheok, Director of the Imagineering Institute, Malaysia	5th-6th November 2020	Keynote Speech on “Eversense Everywhere Human Communication” at the ICTer 2020 (Virtual Conference)
Professor Wray Buntine, professor, Monash University, Australia	5th-6th November 2020	Keynote Speech on “From Machine Learning to Deep Learning” at the ICTer 2020 (Virtual Conference)
Prof. Anirudha Joshi, Professor, IDC School of Design, Indian Institute of Technology, Bombay, India	5th-6th November 2020	Keynote Speech on “Future of HCI in Emerging Regions” at the ICTer 2020 (Virtual Conference)
Dr. D.P. Liyanage Head of Security Architecture at Thames water, 74, Rochester Av. Reading, Berks, RG5 4NB, United Kingdom	07th August to 12th December 2020	To deliver Lecture series for MIS students
Dr. Primal Wijesekara Research Scholar University of California, USA	03rd January to 17th June 2020	To deliver Lecture series for MIS, MIT and Cybersecurity students

Due to the Covid-19 Pandemic situation, all above events took place as online events without physical participation of both resource persons and participants.

3.1.8 PROFESSOR V.K. SAMARANAYAKE ORATION – 2020

Prof. V.K. Samaranyake Memorial Oration 2020 was not conducted due to the pandemic situation in the country.

3.1.9 INTERNATIONAL CONFERENCE - ICTER 2020

The 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020) was successfully held on the 05th and 06th of November 2020 as a fully virtual conference via Microsoft Teams. The conference was also live streamed via YouTube. Over 350 researchers and students attended the conference. Conference focuses on areas including Natural language processing and text analytics, Cyber systems, Big data analytics, Image processing, Cybersecurity, E-Learning, ICT Innovation, Blockchain technology and Cryptocurrencies, Machine Learning, Physical Computing, Distributed Computing, Human Computer Interaction, Image processing, bioinformatics and industry research and development.

The conference included presentation of selected papers. Additionally, it included keynote addresses by leading personalities of International reputation in the Areas of Computer Science and Information and Technology. This year Prof. Wray Buntine at the Monash University, Australia, Prof. Adrian David Cheok, Director of Imagineering Institute, Malaysia ; Senior Prof. Nihal Kodikara at University of Colombo School of Computing ; Prof. Anirudha Joshi, IDC School of Design, Indian Institute of Technology, Bombay, India delivered keynote addresses on the topics “From Machine Learning to Deep Learning”, “ Every sense Everywhere Human Communication” , “ Deep learning for computer vision“ ,” Future of HCI in Emerging Regions" respectively..

ICTer2020 has received 127 submissions. Each of these papers was blind reviewed by at least three local and international reviews and only 44 full papers, 23 posters with extended abstracts were accepted under the conference tracks Machine Learning , Applications of IT, HCI, Distributed Computing, Industry R & D, Physical Computing and Open Track

The details and the keynote speeches and the live streaming of the conference can be found at the ICTer 2020 website:

<https://www.icter.org/conference/>

Conference Co-Chairs

- Dr. T.Sritharan, B.Sc. (Hons)(Jaffna), Ph.D. (Sussex, UK), University of Colombo School of Computing
- Dr. K A K T Karunanayake, BSc IT (UoM), Ph.D. (NUS), MIEEE, University of Colombo School of Computing

Conference Co-Secretariats

- Mrs. D.A.S Ruwanmini, BSc. (Hons) in Information Systems (UCSC), University of Colombo School of Computing
- Mrs. S.S. Thrimahavithana, MPhil in Computing (Reading) (UCSC), BSc (Hons) in IS (UCSC), MCSSL, University of Colombo School of Computing

Publication Committee

Publication Chair

- Senior Prof. N.D.Kodikara, B.Sc. (Col), Dip in App. Stat. (Col), M.Sc. (Man.), Ph.D. (Man), MBSC, MCSSL, MIEEE, University of Colombo School of Computing

Track Chairs

Machine Learning

- Dr. Ruvan Weerasinghe, B.Sc. (Col), M.Sc. (Cardiff), Ph.D. (Cardiff), MIEEE, University of Colombo School of Computing, Sri Lanka
- Mr. Viraj Welgama, B.Sc. (Col), M.Phil. (Col), University of Colombo School of Computing, Sri Lanka

Physical Computing

- Dr. Hiran Ekanayake, B.Sc. (Col), M.Phil. (Col), Ph.D. (Stockholm University, Sweden), University of Colombo School of Computing
- Mrs. Geethma Werapitiya, B.Sc(Col), University of Colombo School of Computing
- Ms. Dinuja Perera, B.Sc(Col), University of Colombo School of Computing

Distributed Computing

- Dr. Nalin Ranasinghe, B.Sc. (Elect. Eng.), M.Sc., DIC (Lond), Ph.D. (Cardiff), MIEEE, MIET, University of Colombo School of Computing
- Dr. Kasun De Soyza, B.Sc. (Col), Ph.D. (Stockholm), MIEEE, University of Colombo School of Computing

Human Computer Interaction

- Dr. Thilina Halloluwa, B.Sc. (SLIIT), Ph.D(Queensland),MIEEE, MACM, University of Colombo School of Computing

Application of IT

- Dr. Noel Fernando, B.Sc. (Col), M.Sc. (Col), Ph.D (Col), MCSSL, MIEEE, SEDA (UK), University of Colombo School of Computing
- Mrs. Rupika Wijesinghe, B.Sc. (Pdn), PG Dip (Col), M.Sc. (Col), M.Phil. (Col), University of Colombo School of Computing

Industry R&D Track

- Dr. Lasanthi De Silva, B.Sc. (Pdn), Ph.D. (Col), University of Colombo School of Computing
- Mr. Eranga De Silva, BSc.ENG (UoM), London Stock Exchange Group
- Mr. Asanka Abeykoon, BSc. IT (UoM), MEng (NUS), Pactera Singapore Pte Ltd

ICT in Disaster Management

- Prof. K.P.Hewagamage, BSc(Col),PhD(Hiroshima),SMIEEE, University of Colombo School of Computing
- Dr. H.N.D Thilini, B.Sc. (Col), Ph.D. (Col), University of Colombo School of Computing

Open Track

- Prof. Kapila Dias, BSc (Col), PG Dip (Essex), MPhil (Cardiff), MCS(SL), MACM, University of Colombo School of Computing
- Dr. Kasun Gunawardena, B.Sc. Hons (Colombo), Ph.D. (Monash), University of Colombo School of Computing

Publication Committee Members

- Dr. G.D.S.P Wimalaratne, BSc (Col), PhD (Salford)), SMIEEE, MCSSL, University of Colombo School of Computing
- Mr. R N Rajapakse, B.Sc. (Hons)(Col), CAPM, MIEEE, CTHE-SEDA (UK), University of Colombo School of Computing
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- Ms. Dushani Perera, BSc. (Hons) in Software Engineering (UCSC), University of Colombo School of Computing
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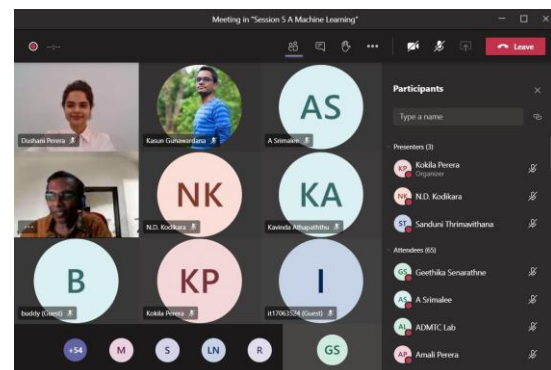
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ICTer 2020

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

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The statistics of ICTer Journal as follows:

1. Number of submissions (2020) = 16
2. Number accepted = 5
3. Number published = 4
4. Number of issues = 3 – available at <http://journal.icter.org/index.php/ICTer/issue/archive>

Major activities of ICTer Journal during 2020

1. Published – 2020 Special Issue, Vol 13, No 1
2. Published – 2020 June Issue, Vol 13, No 2
3. Published – 2020 December Issue, Vol 13, No 3

3.1.11 RESEARCH PUBLICATIONS – 2020

3.1.11.1 JOURNAL PUBLICATIONS – 2020

01	Jayasinghe U., Harwin W.S., Hwang F. “Comparing Clothing-Mounted Sensors with Wearable Sensors for Movement Analysis and Activity Classification”. Sensors. 2020 Jan;20(1):82. https://doi.org/10.3390/s20010082
02	Perera C.L., Fernando M.G.N.A.S. (2020), “Comparison of Multiple Linear Regression and Artificial Neural Network Models for the Prediction of Solid Waste Generation in Sri Lanka”, Transactions on Machine Learning and Data Mining, Vol No.13, Issue No.01(2020)3-25, Pages:3-25, ISSN: P-ISSN: 1965-6781, E-ISSN 2509-9337 ISBN: 978-3-942952-73, Institute of Computer Vision and Applied Computer Science, IBaI Leipzig, March, http://www.ibai-publishing.org/ .
03	Silva Chathurika S., Wimalaratne Prasad (2020), “Context-aware Assistive Indoor Navigation of Visually Impaired Persons”, Sensors and Material, Vol. No.32, Issue No.4, Pages.14, ISSN: 914-4935, March, https://myukk.org/SM2017/index.php .
04	Seneviratne M.D.S., Fernando K.S.D., Karunaratne D.D. (2020), “Markov Logic for Statistical Relation Extraction”, International Journal of Advanced and Applied Sciences, Vol. No.7, Issue No.10, Pages.1-11, ISSN:e 2313-3724 p 2313-626X, Taiwan, June, http://www.science-gate.com/IJAAS.html .
05	Ketippearachchi T., Wickramasinghe M., (June 2020), “Invisible Colour Image Watermarking Technique for Colour Images Using DWT and SVD”, in The International Journal on Advances in ICT for Emerging Regions (ICTer)

06	Sally M.S., Wickramasinghe M.I.E., “A trend analysis on Sri Lankan politics based on facebook user reactions, <i>Technology in Society</i> ”, Elsevier, Volume 62, 2020, ISSN 0160-791X, https://doi.org/10.1016/j.techsoc.2020.101321 .
07	Hussain W., Perera H., Whittle J., Nurwidyanoro A., Hoda R., Shams R. A., & Oliver G. (2020). "Human Values in Software Engineering: Contrasting Case Studies of Practice" in <i>IEEE Transactions on Software Engineering</i> , vol. , no. 01, pp. 1-1, 5555. doi: 10.1109/TSE.2020.3038802
08	Sriwathsan W., Ramanan M. and Weerasinghe A.R. (2020). “Offline Handwritten Signature Recognition Based on SIFT and SURF Features Using SVMs”. <i>Asian Research Journal of Mathematics</i> , Vol. 16, Issue 1, Sciencedomain International.
09	Abeyratne A, Samarage C, Dahanayake B, Wijesiriwardana C, Wimalaratne P, “A security-specific knowledge modelling approach for secure software engineering”, Journal of the National Science Foundation of Sri Lanka 48 (1), 2020 48(1) pp 93-98.
10	Wijesinghe C.R, Weerasinghe A.R, 2020. "Mining Frequent Patterns In Bioinformatics Workflows", <i>International Journal of Bioscience, Biochemistry and Bioinformatics</i> vol. 10, no. 4, pp. 161-169, 2020 (Oct. 2020). DOI: 10.17706/IJBBB.2020.10.4.161-169 , http://www.ijbbb.org/index.php?m=content&c=index&a=show&catid=86&id=943
11	Perera W.A.S.C., Caldera H.A. (2020) “Predicting an Optimal Sri Lankan Cricket Team for One Day International Matches According to the Nature of the Game”, <i>International Journal of Psychosocial Rehabilitation</i> , ISSN:1475-7192, vol. 24,issue 4, pp. 559-571, 2020 (Feb. 2020), DOI:10.37200/IJPR/V24I4/PR201034, https://www.psychosocial.com/article/PR201034/11509/
12	Isura Nirmal, Caldera H.A. (2020), “Classification of Web based Recipes using Random Forests Algorithm”, <i>TEST Engineering and Management</i> , ISSN:0193-4120, vol.82,pp.12731-12737,(Jan-Feb.2020), http://www.testmagazine.biz/index.php/testmagazine/article/view/2889/
13	Madhusanka Sajith, Walisadeera Anusha, Dantanarayana Gilmini, Goonetillake Jeevani, and Ginige Athula, “An Ontological Clinical Decision Support System based on Clinical Guidelines for Diabetes Patients in Sri Lanka”, <i>Healthcare</i> , (ISSN 2227-9032, Vol. 5. Impact Factor: 1.916. https://doi.org/10.3390/healthcare8040573 , Basel, Switzerland.
14	Hayashi Ryotaro, Garcia Marito, Maddawin Angelica, Hewagamage, K. P (Sept, 2020), "Online Learning in Sri Lanka's Higher Education Institutions during the COVID-19 Pandemic", <i>ADB Briefs</i> , Asian Development Bank, 978-92-9262-367-8 (print) 978-92-9262-368-5 (electronic), 2071-7202 (print), 2218-2675 (electronic), E-journal, http://dx.doi.org/10.22617/BRF200260-2 .

3.1.11.1 CONFERENCE PUBLICATION – 2020

01	Wasura Watterachchi, Dr. Enosha Hettiarachchi, and Prof. K P Hewagamage (2020), “Analysing the Compatibility of Identifying Emotions by Facial Expressions and Text Analytics when Using Mobile Devices”, 2020 International Conference on Machine Learning and Human-computer Interaction (MLHMI 2020), http://www.mlhmi.org , NTU@one-north Executive Center (ONEC), 11 slim Barracks Rise, One North Executive Center#09 – 01, Singapore, 20 th – 22 nd March 2020.
02	Dushani Perera, Maneesha Rajaratne, Damitha Sandaruwan, Prof. N D Kodikara (2020), “Fraud Detection in a Financial Payment System” , International Conference on Human Interaction & Emerging Technologies (IHET 2020), http://ihiet.org/index.html , Fondation EFOM Boris DOLTO, Paris, France, 27th - 29th August 2020.
03	Dushani Perera, Maneesha Rajaratne, Dr. S M K D Arunatileka (2020), “HelaBeat: An Extensible Audio Streaming Mobile Application”, International Conference on Human Interaction & Emerging Technologies (IHET 2020), http://ihiet.org/index.html , Fondation EFOM Boris DOLTO, Paris, France, 27th - 29th August 2020.

04	J Logeesan, Y Rishoban, Dr H A Caldera (2020), “Automatic Summarization of Stock Market News Articles”, 4th International conference on Natural Language Processing and Information Retrieval, http://www.nlpir.net/ , Daeyang AI Center, Seoul University, Korea, 18th - 20th December 2020.
05	Thilina Weliwita, Dr H E M H B Ekanayake (2020), “RSSI Based Real - time and Secure Smart Parking Management System”, IEEE Global Conference on Artificial Intelligence and Internet of Things (GCAIoT) - 2020, http://gcaiot.org/home , Virtual, Dubai, UAE, 12th - 15th December 2020.
06	A.D. Wijewickrama, R.S. Wijayawardana , K.M.K.B. Ranasinghe, D.N.Ranasinghe (2020), K. P. M. K. Silva , K. Karunanayaka, “SciFlow : A Composable Framework for Developing Scientific Workflows on HPC Clusters” , 12th International Conference on Advanced Computer Science and Information Systems (ICACSIS) 2020, https://icacsis.cs.ui.ac.id/front/ , Hostedty Faculty of CS, University of Indonesia, 17th - 18th October 2020.
07	Harsha Perera, Waqar Hussain, Jon Whittle, Arif Nurwidyantoro, Davoud Mougouei, Rifat Ara Shams, and Gillian Oliver. 2020. “A study on the prevalence of human values in software engineering publications 2015 -- 2018”. In Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering (ICSE '20). Association for Computing Machinery, New York, NY, USA, 409–420. DOI: https://doi.org/10.1145/3377811.3380393
08	Perera, H., Mussbacher, G., Hussain, W., Shams, R. A., Nurwidyantoro, A., & Whittle, J. (2020, August). “Continual Human Value Analysis in Software Development: A Goal Model Based Approach”. In 2020 IEEE 28th International Requirements Engineering Conference (RE) (pp. 192-203). IEEE, Zurich, Switzerland.
09	Shams, R. A., Hussain, W., Oliver, G., Nurwidyantoro, A., Perera, H., & Whittle, J. (2020, June). “Society-oriented applications development: investigating users' values from Bangladeshi agriculture mobile applications”. In Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering: Software Engineering in Society (pp. 53-62), Seol, South Korea
10	Dissanayake N.R., Dias G.K.A. (2020), “RiWAArch Style: An Architectural Style for Rich Web-Based Applications”. In: Arai K., Kapoor S., Bhatia R. (eds) Proceedings of the Future Technologies Conference (FTC) 2020, Volume 3. FTC 2020., Vancouver , Canada. ISBN 978-3-030-63091-1, Advances in Intelligent Systems and Computing, vol 1290. Springer, Cham. https://doi.org/10.1007/978-3-030-63092-8_20
11	Dinuni Fernando, P. Yang and H. Lu, “SDN-based Order-aware Live Migration of Virtual Machines”, IEEE INFOCOM 2020 - IEEE Conference on Computer Communications, Toronto, ON, Canada, 2020, pp. 1818-1827, doi: 10.1109/INFOCOM41043.2020.9155415 (Acceptance rate: 19.8%).
12	Thimira Amaratunga, D.N.Ranasinghe (2020), “Educational Content Delivery utilizing Opportunistic Networking over Mobile Devices”, 20 th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05 th – 06 th November 2020. https://icter.org/
13	Piyumi Seneviratne, Dilanka Perera, Harinda Samarasekara, Chamath Keppitiyagama, Kasun De Soyza, Kenneth Thilakarathna, Primal Wijesekara (2020), “Impact of video surveillance systems on ATM PIN security”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05 th – 06 th November 2020. https://icter.org/
14	Gayani Rupasinghe, Roshan Abeyweera, Randil Pushpananda, Ruvan Weerasinghe (2020), “A Mobile Based Alphabet Learning Game To Intervene Dyslexia Among Children”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05 th – 06 th November 2020. https://icter.org/
15	S.T.Palliyaguru, L.C.Liyanage, O.S.Weerakoon, G.D.S.P.Wimalaratne (2020), “Random Forest as a Novel Machine Learning Approach to Predict Landslide Susceptibility in Kalutara District, Sri Lanka”, 20th International Conference on Advances in ICT for Emerging Regions

	(ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
16	Isuri Anuradha , Chamila Liyanage , Harsha Wijayawardhana , Ruwan Weerasinghe (2020), “ <i>Deep Learning Based Sinhala Optical Character Recognition (OCR)</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
17	Ashmari Pramodya , Randil Pushpananda , Ruwan Weerasinghe, (2020), “ <i>A Comparison of Transformer, Recurrent Neural Networks and SMT in Tamil to Sinhala MT</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
18	Bimsara Gamage, Randil Pushpananda, Ruwan Weerasinghe (2020), “ <i>The impact of using pre-trained word embedding in Sinhala chatbots</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
19	Hirunika Karunathilaka, Viraj Welgama, Thilini Nadungodage, Dr. A.R. Weerasinghe (2020), “ <i>Low-resource Sinhala Speech Recognition using Deep Learning</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
20	L.N.A.S.H.Nissanka, B.H.R. Pushpananda, A. R. Weerasinghe (2020), “ <i>Exploring Neural Machine Translation for Sinhala-Tamil Languages Pair</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
21	Chashika Weerathunga, Dr. A.R. Weerasinghe, Dr.K.D. Sandaruwan (2020), “ <i>Lip Synchronization Modeling for Sinhala Speech</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
22	Wasura. D. Wattearachchi, K.P. Hewagamage, Enosha Hettiarachchi (2020), “ <i>A Framework to Decide Adaptive Functionalities by Considering User Emotions and the Context</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
23	M.H.M. Hisan, A.R. Weerasinghe, B.H.R. Pushpananda (2020), “ <i>Cross Language Information Retrieval for Accessing the English Web in Sinhala</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
24	K.S.M.Perera, C. I. Keppitiyagama, K. G. Gunawardana (2020), “ <i>Transformation of Contract Descriptions in a Domain Specific Language to Solidity Assembly</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
25	M.V.P.T.Lakshika, H.A.Caldera, W.V.Welgama (2020), “ <i>Abstractive Web News Summarization Using Knowledge Graphs</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
26	A.M.K.B. Athapaththu , E.H. Grero , S.M. Perera , M.G.N.A.S. Fernando (2020), “ <i>Forecasting Better Prices for Trip Packages based on Historical Sales Data and Related Factors (In the context of Europe Railway Tourism)</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
27	N.H.P.I. Maduranga , H.E.M.H.B. Ekanayake (2020), “ <i>An Enhanced Learner Evaluation Method Based on Psychophysiological Signals</i> ”, 20th International Conference on Advances

	in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
28	S. D. L. H. Maheeshanake , M. W. A. C. R. Wijesinghe , A. R. Weerasinghe , M. A. I. Perera (2020), “ <i>Unsupervised Techniques for Meta-Analysis of Cancer Genomic Data</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
29	Nimali Hettiarachchi, A. R. Weerasinghe, Randil Pushpananda (2020), “ <i>Detecting Hate Speech in Social Media Articles in Romanized Sinhala</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
30	M.A.I.Perera, Ms. C.R. Wijesinghe, Dr. A.R. Weerasinghe (2020), “ <i>Analysis of Expression Data Using Unsupervised Techniques</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
31	N.N Sinhabahu , G.D.S.P.Wimalaratne (2020), “ <i>Secure Codecity with Evolution: Visualizing Security Vulnerability Evolution of Software Systems</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
32	S.P.B.M Senadheera, A.R. Weerasinghe (2020), “ <i>Hub genes identification in Brain Cancer With Gene Expression Data</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
33	S.P.B.M Senadheera, A.R. Weerasinghe (2020), “ <i>Protein-Protein Interaction Networks Comparison Between Paediatric Neuroblastoma Cancers And Glioblastoma Multiforme Cancers With Gene Expression Data</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
34	S.P.B.M. Senadheera, A.R. Weerasinghe (2020), “ <i>Genomic Data Analyzing Workflow for Single Nucleotide Polymorphisms in Human Nervous System Cancers</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
35	H A Caldera, Lavanya Widana Pathirana (2020), “ <i>Combinatorial Impact Of Technical Indicators On Price Prediction In Colombo Stock Market</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
36	L. D. C. S. Subhashini, Yuefeng Li, Jinglan Zhang, Ajantha S. Atukorale, (November 2020), “ <i>Three-Way Framework Using Fuzzy Concepts and Semantic Rules in Opinion Classification</i> ”, in Gallagher M., Moustafa N., Lakshika E. (eds) AI 2020: Advances in Artificial Intelligence. Lecture Notes in Computer Science , Canberra, Australia. (33rd Australasian Joint Conference, AI 2020)
37	A .D. Cheok, K. Karunanayaka, C. Edirisinghe, “ <i>Technical and User Evaluation of Babbage Cabbage - An Empathetic Biological Media</i> ”, Applied Internet and Information Technologies 2020 (AIIT 2020), 16 October, 2020, Zrenjanin, Serbia http://www.tfzr.uns.ac.rs/aiit/
38	S. N. Perera, K. Karunanayaka, “ <i>Sentiment Classification of Social Media Data with Supervised Machine Learning Approaches: Common Framework, Challenges, and New Dimensions</i> ”, SLAAI International Conference on Artificial Intelligence, Colombo, Sri Lanka, 01 st December 2020. https://slaai.lk/icai/2020/
39	S.C. Premaratne, A. Gamanayake , K. L. Jayaratne (2020), P. Sellappan “ <i>Improving Event Detection in Cricket Videos using Audio Feature Analysis</i> ”, 9th International Conference on Computer Engineering and Mathematical Sciences(ICCEMS 2020), https://www.iccems.com/v1/?nextaction=verificationform , Langkawi, Malaysia, 24th-25th December.

40	L.A.S.M. Gunathilaka, W.A.U.S. Weerasinghe, I.N. Wickramasinghe, Viraj Welgama, Dr. A.R. Weerasinghe (2020), “ <i>The Use of Conversational Interfaces in Long Term Patient Care</i> ”, 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
41	Danushka, S.A.N. and Weerasinghe, T.A. (2020), “ <i>A Critical Review on Terminology and Definitions of Blended Learning</i> ”, 17th International Conference on Business Management (ICBM) – 2020, http://icbm.sjp.ac.lk/ , Virtual, University of Sri Jayewardenepura, Gangodawila, Nugegoda, Sri Lanka, 11 December 2020.
42	T. Wijethilake, K. Gunawardana, C. Keppitiyagama and K. de Zoyza, "An Alternative Approach to Authenticate Subflows of Multipath Transmission Control Protocol using an Application Level Key", in KDUIRC 2020, Sri Lanka
43	K. Liyanage, T. Wijethilake, K. Gunawardana, K. Thilakarathne, P. Wijesekera and C. Keppitiyagama, "Priority Based Sub-flow Selection in MPTCP: A Case Study", 20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), University of Colombo School of Computing, Colombo, Sri Lanka, 05th – 06th November 2020. https://icter.org/
44	Asanka Sayakkara, Nhien-An Le-Khac, Mark Scanlon, (2020), "EMvidence A Framework for Digital Evidence Acquisition from IoT Devices through Electromagnetic Side-Channel Analysis", Proceedings of the Seventh Annual DFRWS Europe (DFRWS 2020 EU), (Special Issue in Forensic Science International: Digital Investigation), Online Conference, March 24-28 2020. DOI: 10.1016/j.fsidi.2020.300907
45	Asanka Sayakkara, Luis Miralles-Pechuan, Nhien-An Le-Khac, Mark Scanlon, (2020), "Cutting through the Emissions Feature Selection from Electromagnetic Side-Channel Data for Activity Detection", Proceedings of the Seventh Annual DFRWS Europe (DFRWS 2020 EU), (Special Issue in Forensic Science International: Digital Investigation), Online Conference, March 24-28 2020. https://www.sciencedirect.com/science/article/pii/S2666281720300226
46	Asanka Sayakkara, Nhien-An Le-Khac, Mark Scanlon, (2020), "Facilitating Electromagnetic Side-Channel Analysis for IoT Investigation Evaluating the EMvidence Framework", in Proceedings of the Twentieth Annual DFRWS (DFRWS 2020 USA, USA. (Special Issue in Forensic Science International: Digital Investigation), Online Conference, July 20-24, 2020, https://www.sciencedirect.com/science/article/pii/S2666281720302523
47	Xiaoyu Du, Chris Hargreaves, John Sheppard, Felix Anda, Asanka Sayakkara, Nhien-An Le-Khac, Mark Scanlon, (2020), "SoK Exploring the State of the Art and the Future Potential of Artificial Intelligence in Digital Forensic Investigation" , in 13th International Workshop on Digital Forensics (WSDF), 15th International Conference on Availability, Reliability and Security (ARES), 25-28 August 2020, Virtual Event, Ireland. https://dl.acm.org/doi/abs/10.1145/3407023.3407068
48	Henegama H.P. (2020). “ <i>Developing a Conceptual Framework to Describe the Organizational Conflicts and related aspects in Sri Lankan State Universities</i> ”. Abstract at the Sri Lanka Association for the Advancement of Science Proceedings of the 76th Annual Sessions 2020, Sri Lanka, 13th - 18th December 2020
49	Hewagamage, K.P. (2020). “ <i>ICT is Everywhere... Why Not Healthcare?</i> ”. Abstract at the Annual Research Symposium on “Strengthening Nursing Education for Emerging Health System Challenges” of the Faculty of Nursing, 18 th December 2020

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) carried out the zero cadre review in 2015 to identify the actual human resource requirement considering the workload of both academic and non-academic staff in the institute. Hence, the present cadre approval is based on the revised Cadre Manual in 2017.

4.1 UCSC CADRE

In 2015, when the actual cadre review was carried out, the intake size of the UCSC for both degree programmes was 260 students. In 2020, the intake size for the both degree programmes were 300 students. UGC meantime announced that they will have to increase the intake of UCSC to 357 students in 2021 and allocated additional 8 academic cadres.

The biggest issue is to recruit suitable qualified academic staff members for the available cadre positions and there is a still significant number of vacant academic cadre positions in the UCSC. This is mainly due to the demand in the computing industry and high salaries in the private sector. More than the qualification, the capability of staff members are very critical for the successful management of the academic programmes. In 2020, UCSC advertised both senior and junior staff members and it is expected to recruit more suitable staff based on the qualifications and their experience. At the same time, if more probationary level staff members are recruited, it will be an issue for the management of the programmes since they are eligible for paid study leave to complete research degrees. Several junior staff members resigned during 2020, since they do not like to sign bond agreement when apply for the study leave during last 3 years.

Table 4.1. A: Summary of UCSC Staff Distribution

Designation Department/ Division/ Unit/ Centre	Approved Cadre	Existing Cadre		Actual Vacancies
		Permanent	Contract/ Temp/ Assignment *	
(1) Director's Office	5	3	2	
(2) Establishment Division	8	4	1	3
(3) General Administration Division	11	6	3	2
(4) Academic & Publication (Undergraduate) Division	15	8	4	3
(5) ISE Department (Academic)	58	21	40	68
(6) CIS Department (Academic)	43	12		
(7) CMT Department (Academic)	53	13		
(8) Finance Division	14	13	2	
(9) Examination Division	11	7	2	2
(10) Advanced Digital Media and Technology Centre (ADMTC)	6		2	4
(11) Centre for Digital Forensic (CDF)	4	1	3	

(12) Library	6	2	1	3
(13) Postgraduate Division	3	3	2	
(14) Engineering & Maintenance	10	5	4	1
(15) Network Operating Centre (NOC)	15	5	3	7
(16) External Degree Centre (EDC)	10	6	3	1
(17) Professional Development Centre (PDC)	2		1	1
(18) Computer Service Centre (CSC)	2		1	1

Table 4.1. B: The distribution of cadre positions against the salary scale – 31st December 2020

Staff category	Service Category	Salary Scale	Approved Cadre	Existing Cadre		
				Male	Female	Total
Academic Staff	Senior Level	U-AC 2 to U-AC 5	100	40	27	67
	Tertiary Level	U-AC 1	53	5	14	19
Administrative Staff - Senior	Senior Level and Tertiary Level	U-EX 2 (a), U-EX2(II) & U-EX 1	13	1	10	11
Financial Administrative-Senior	Senior Level and Tertiary Level	U-EX 2 (a), U-EX2(II) & U-EX 1	4	2	2	4
Academic Support Staff	Tertiary Level	U-AS 2 & U-AS 1	19	11	6	17
Technical Staff *1	Secondary Level	U-MN 4	10	1		1
		U-MT 1		3		3
Clerical & Allied	Secondary Level	U-MN 4	53		5	5
		U-MN 1		9	25	34
Primary Staff	Primary Level	U-PL 3	5	3		3
		U-PL 2	3	2		2
		U-PL 1	16	14	3	17

In 2020, some vacancies were filled in the Academic cadre appointing Temporary Instructors, Temporary Assistant Lectures and Senior Lecturers & Lecturers on contract basis. According to the table 4.1.A, there were 183 staff members working in the organization and there are 93 vacancies existing according to the cadre manual.

Staff	Permanent			Temp./Cont. /Assign.		
	Male	Female	Total	Male	Female	Total
Senior Professor	1		1			
Professor	2		2			
Senior Lecturer	21	7	28	1	1	2
Lecturer				1		1
Prob. Lecturer	8	7	15			
Temporary Lecturer/ Asst. Lecturer				6	14	20
Temporary Instructor				5	14	19

4.2 OVERALL PROFILE OF THE UCSC STAFF

Highest Computing Qualification of the Academic Staff

No. of Staff	PhD	MPhil	MSc	BSc (Hons)
46	28	5	4	9

Highest Academic Qualifications of the Administrative and Finance Staff

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

In 2020, one Academic staff member obtained study leave to read a doctoral degree in a foreign university. Two Academic staff members obtained sabbatical leave.

4.3 RECOGNITION OF UCSC STAFF

In 2020, the Long Service Award was conducted to recognize the staff who have completed more than 25 years of service in the university system. The following staff members were awarded with the long service award in 2020.

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 31.12.2020
Dr. T. Sritharan	Senior Lecturer Gr. I	23.05.1990	22.05.2015	30 Years
Mrs.GADNS Jayawardena	Senior Staff Management Asst.	01.08.1995	01.08.2020	25 years

4.4 STAFF DEVELOPMENT AND TRAINING

Staff development and training are regarded as an important policy of the human resource development of the organization. Depending on the grade of staff and job requirements, relevant staff was supported using both funds of generating income as well as from government grants. However, due to the current Pandemic situation in the Country latter part of the year staff was not promoted to attend training programmes physically, but encouraged them to attend online. In 2019, the Board of Management approved a new policy on staff development and training to formalize the process.

1. Permanent Academic was supported by the Research and Development allocation to attend the International Conferences, Workshops and Seminars subject to a limit determined based on the seniority of the staff member. Details of all such participants are given in the research section of this report.
2. Depending on the job requirements, the staff was given special training in local organizations during 2020. 21 Staff members were given such opportunity during 2019 and Rs.443,600/- was spent on such training requirements.
3. In house training programmes were conducted as a group online training during 2020.
4. Academic staff who were not permanent were supported to attend ICTer2020 and NICT2020 conferences, which were held online, in order to improve their research and development awareness.
5. An outbound training programme was cancelled due to pandemic situation in the country.

The details of the training programmes staff of UCSC attended are as follows.

Sn	Programme	Category of staff participated	No. of participants
01	Awareness workshop on e – Procurement - January 2020 - conducted by an industry expert	Academic/Executive/ Finance and Clerical staff	25
02	Seminar on “Macro Fiscal Overview & Recent Tax Changes” – conducted by the Institute of Chartered Accountant Sri Lanka	Executive - Finance	3
03	Staff Development programme - Staff Development Centre, University of Colombo	Academic	1
04	Awareness programme on e – Procurement – conducted by the Miloda Academy of Sri lanka	Executive - Finance	3
05	One day training programme on “Combatting Corruption” - conducted by the Miloda Academy of Sri lanka	Executive - Finance	2
06	Diploma in Labour Education, conducted by Institute of Human Resource Advancement	Clerical	2
07	One day workshop on “ Asset Management and Board of Survey” - conducted by an industry expert	Academic/Executive/ Finance and Clerical staff	55
08	Postgraduate Degree programme	Technical - Clerical	1
09	3 day training programme on “Public Service Disciplinary Procedures” - -conducted by Miloda Academy of Financial Studies	Executive	1
10	Virtual seminar on “Sri Lanka Accounting Standards “ – conducted by the Institute of Chartered Accountants Sri lanka	Executive	3
11	National Conference of Chartered Accountants - conducted by the Institute of Chartered Accountants Sri Lanka	Executive	3

12	“ Electrical equipment usage and its maintenance – conducted by an industry expert	Primary Level staff	15
13	Cousera – online courses	Executive/ Clerical	2

4.4.1 MEDICAL SUPPORT SCHEME

The Medical Support Scheme was introduced to the UCSC as a part of the organizational policy of health and safety of the organization. In this Medical Support Scheme, the staff has been given an opportunity to subscribe to one of three schemes that have different supporting limits when medical expenses are incurred. The objective is to support the staff to maintain a good profile of their health conditions by conducting medical camps and partially supporting their medical expenses. The UCSC hopes that this would motivate its employees to increase their productivity in the workplace and provide full cooperation to generate additional income for the organization, specially during working hours. UCSC has also partially supported employees who are interested to obtain Agrahara insurance scheme to face tragic situations in their life, especially in unexpected critical illness. Further, UCSC organized 1 health seminar for all staff during 2020, with the support of Faculty of Medicine, UoC and they are as mentioned below.

1. “Diet for Diabetes“ by Dr. Ranil Jayawardena, Senior Lecturer, Department of Physiology, Faculty of Medicine, UOC on 24th September 2020.

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. The membership of the welfare society is open for all staff members who have completed at least one year of service at the UCSC and they have to pay a membership fee in order to be a member. The welfare society involved in fostering goodwill, solidarity and unity among all members of the UCSC.

With the outbreak of the Covid-19 epidemic in the early 2020s, many of the welfare community's collective activities were suspended due to the cessation of collective action. The welfare society organized the collection of financial aid as much as possible for needy members who had been locked down and isolated during the pandemic period.

Even though all these situations arise, using modern technology the welfare society organized an event named “UCSC Uduwap Wasanthaya” as online mode. Several contests were held online, and gifts were distributed among the members during this event. This was a new experience for the members.

The following social services provided by the welfare society were further activated.

1. Celebration of the dawn of the year 2020 on 1st January 2020.
2. Organized “Uduwap Wasanthaya” on 22nd December 2020.
3. Organized welfare ceremonies to commemorate the retired and transferred staff members.
4. The staff members’ whose close family members passed away were given financial assistance.



Unduwap Wasanthaya 2020

5. INSTITUTIONAL DEVELOPMENT

5. INSTITUTIONAL DEVELOPMENT

5.1 QUALITY ASSURANCE AND ACCREDITATION

According to the guidelines given by the University Grant Commission, the University of Colombo established the Internal Quality Assurance Unit (IQAU) as the main centre to coordinate the quality assurance of all faculties and institutes in the university. The Quality Assurance Cell (QAC) of UCSC officially commenced its activities in June 2015. The purpose of the QAC of UCSC is to create a culture that seeks to continually improve the quality of all academic and other activities in the Institute.

QAC Committee Members 2020

- i. Director - Prof. K.P. Hewagamage, Director/UCSC
- ii. Chairperson/Head of the Institute QA Cell - Senior Professor N.D. Kodikara, Coordinator/QAC
- iii. Secretary/QAC – Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II/Secretary/ QAC
- iv. Senior Assistant Registrar/QAC - Ms. J.A.M.S. Wijerathna, Senior Assistant Registrar/ PRP
- v. Chairperson of the Curriculum & Academic Development Committee - Dr (Mrs) M.D.J.S. Goonetilleke Head/Department of Information and Systems Engineering (ISE), Senior Lecturer Gr I
- vi. Heads of Departments
 - Dr. D.A.S. Athukorala - Department of Computation and Intelligent Systems (CIS)
 - Dr. G.D.S.P. Wimalaratne - Department of Communication and Media Technologies (CMT)
 - Dr. (Mrs) M.D.J.S. Goonetillake - Department of Information Systems Engineering (ISE)
- vii. Coordinators of the Undergraduate/Postgraduate/External degree programmes
 - Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. I, Coordinator/Computer Science (CS) Degree Programme
 - Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Coordinator/Information Systems (IS) Degree Programme
 - Mr. W.V. Welgama, Senior Lecture Gr. II, Coordinator/Software Engineering (SE) Degree Programme.
 - Ms. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II, Coordinator/CS – Faculty of Science
 - Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Coordinator/Master of Cybersecurity (MC) Degree Programme
 - Mr. W.V. Welgama, Senior Lecturer Gr. I, Coordinator/Master of Information Technology (MIT) Degree Programme
 - Mr. K.P.M.K. Silva, Senior Lecturer Gr. II , Coordinator/Master of Computer Science (MCS) Degree Programme and MSC in CS programme.
 - Dr. P.V.K.G. Gunawardena, Senior Lecturer Gr. II, Coordinator/Master of Information Security (MIS) Degree Programme
 - Dr. M.I.E. Wickramasinghe, Senior Lecturer Gr. II, Coordinator/Master of Business Analytics (MBAanalytics) Programme

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

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

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

ix. Dr. (Mrs) S.M.K.D. Arunathilleka, Representative of UCSC for Institutional Review 2021

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

xi. Mr R.M.U.A Rathnayake, Representative/ UCSC Alumni

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

xiii. Assistant System Developer - Mr. S.B. Wickramathilaka, Temp. Assistant Lecturer

xiv. Management Assistant - Ms N.S. Gajasinghe

The QAC activities carried-out in 2020:

1. Collected and stored syllabi of all undergraduate programmes in QAC office.
2. Collected evidence required for programme review 2020 and stored in QAC office.
3. Acquired new Infrastructure to the office area of QAC
4. Monitored the activities of BIT Curriculum revision
5. Planned the curriculum revision of Undergraduate Programme in 2021
6. Monitored the improvements to the Tracer Study
7. Monitored the improvements to the draft Examination Manual sent by University of Colombo
8. Necessary actions were taken to Introduce MOOC for Undergraduate/ Postgraduate/ External Degree Programmes and Personal Development Centre
9. Introduced a procedure for the paper setting of undergraduate/ postgraduate/ external degree programmes
10. Introduced actions to be taken based on summary reports of feedback forms of Undergraduate/ Postgraduate Degree Programmes
11. Monitored the progress of the employability survey of students graduating in 2020 in coordination with PDC
12. Monitored the progress of the development of criteria on company registration for industrial training in coordination with PDC
13. Monitored the progress of updating Alumni Website
14. Monitored the progress of selecting the eligible students for the Director's List and Faculty Award 2020.
15. Proposed further improvements for the current enhancement courses.
16. The format sent by the CQA/ UOC for status assessment of implementation of 2016 IR recommendations was completed & shared based on the information available at UCSC
17. Prepared a strategic plan of QAC based on the Strategic Plan of UCSC
18. Student feedback summary reports for both Undergraduate and Postgraduate courses (2nd&4th 2019/2020 yr) were prepared and was delivered to the relevant lecturers after the reviews carried out by the QAC committee and the Heads, Coordinators of the Undergraduate and Postgraduate degree programmes.

19. Student feedback was obtained to evaluate the overall quality of the Postgraduate degree programmes and individual projects from the students graduated in 2020 using Google forms
20. Collected Feedback forms of Undergraduate Degree Programmes for Semester 1 (2020) using Google forms
21. Collected Feedback forms of Postgraduate Degree Programmes for Semester 1 & 3 (2020) using Google forms
22. Invited representatives of the UCSC Alumni association and E learning Centre to the management committee
23. Appointed Dr. (Mrs) S.M.K.D. Arunathilleka as the UCSC representatives of the Institutional Review - 2021
24. Appointed the coordinator/ PDC for the discussion on Visualizing Annual Employability Survey details in the UOC website
25. Appointed the Senior Assistant Registrar/QAC and Assistant Registrar/Examination to the teams of Graduate Employability Survey - 2020 by University of Colombo
26. Senior Assistant Registrar/QAC participated in the special workshops organized by the Director/ CQA-UOC on Institutional Review process on 15/12/2020

5.2 INFRASTRUCTURE DEVELOPMENT

5.2.1 CAPITAL PROJECTS – 2020

The commenced and completed projects of UCSC in 2020 are given in the table below.

Name of the project	Project cost [Rs.]	Date of commencement	Scheduled Date of Completion	Date of completion	Remarks
Refurbishment of the Research Floor Area (West Wing/ 4th Floor) at UCSC. PROCUMENT No: UCSC/PROC/W/2019/002	6,069,649.75	23/10/2019	01/04/2020	02/03/2020	Partially completed
Supply, Installation, Testing, Commissioning and Maintenance of Split Type Air Conditioning Units for the Administrative Building Office Area. Procumbent No: UCSC/PROC/W/2019/001	4,252,975.05	23/09/2019	02/09/2020	06/02/2020	Completed
Supply, Installation, Commissioning, Testing, Extension and Maintenance of the Existing Fire Protection System at the UCSC	7,116,154.00	02/03/2019	23/06/2020	-	Ongoing

Procumbent No: UCSC/PROC/W/2019/003					
Propose Renovation and Refurbishment of Service Block (Washroom Area) in the UCSC Building Complex. Procumbent No: UCSC/PROC/W/2019/004	17,161,963.85	05/01/2020	08/05/2020	-	Ongoing
Propose Landscaping Phase I near the Outdoor Student Pavilion at UCSC. Procumbent No: UCSC/SP/ENG/2020/037	522,610.00	13/03/2020	27/03/2020	02/08/2020	Completed
Propose Rehabilitation, GI Works, Aluminum Doors, Window & Glass Portioning at UCSC. Procumbent No: UCSC/SP/CW/2020/026	624,300.00	12/03/2020	25/04/2020	06/07/2020	Completed

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. The following staff members of UCSC was contributed during 2020 to achieve the above objective.

5.3.1 OUTSTANDING AWARDS FOR STAFF MEMBERS

Organizer	Award Name	Awardee
Computer Society of Sri Lanka (CSSL)	Elite Award of ICT Researcher of the year	Dr. K L Jayaratne
Computer Society of Sri Lanka (CSSL)	Elite Award of ICT Educator of the year	Dr. S T Nandasara
European Union Digital Forensics Research Workshop (DFRWS EU 2020)	Best Student Paper Award and Best Poster Award	Dr. Asanka Sayakkara
University of Reading, United Kingdom	PhD Researcher of the year award for Biomedical Engineering in 2020	Ms K P U Jayasinghe
Queensland University of Technology, Australia	Outstanding Doctoral Thesis Award for 2019	Dr H K T C Halloluwa

20th International Conference on Advances in ICT for Emerging Regions (ICTer 2020), Sri Lanka	Best Paper Award	Dr. Randil Pushpananda, Dr. Ruvan Weerasinghe, Dr Thilini Nadungodage
13th International Research Conference (KDUIRC 2020), KDU, Sri Lanka	Best Paper Award & Best Oral Presentation Award	Mr Tharindu Wijethilake

5.3.2 CONTRIBUTIONS FROM UCSC STAFF MEMBERS

Name	Organization
Athukorala D.A.S. (Dr.)	<ul style="list-style-type: none"> ● Visiting Lecturer - Faculty of Management & Finance, University of Colombo ● Member of Technical Evaluation Committee – <ul style="list-style-type: none"> ★ Ministry of Ports & Shipping ★ Urban Development Authority ● Consultant <ul style="list-style-type: none"> ★ Election Commission, Results Tabulation of General Election 2020 ★ Sri Palee Campus, University of Colombo ● Member of Selection Committee - Sri Palee Campus, University of Colombo ● Member of Standing Committee - Ministry of Education ● Session Chair of a Conference on International Research Conference 2020 - General Sir John Kotelawala Defence University ● Paper Reviewer Program Committee Member of International Research Conference on Smart Computing & Systems Engineering - Department of Industrial Management, University of Kelaniya ● Secretary - CSSL
De Silva L.N.C. (Dr.) (Mrs.)	<ul style="list-style-type: none"> ● Member of the Technical Evaluation Committee - National Education Commission ● Consultant - Govi Nena Project, University of Ruhuna ● Committee Member for the Curriculum Development & Revision of Computer Science and Technology Degree Program, Uva Wellassa University ● Reviewer - <ul style="list-style-type: none"> ★ International Research Conference of University of Ruhuna (RISTCON) ★ Journal of the University of Ruhuna ★ International Research Conference of Uva Wellassa University ★ Smart Horticulture for the 21st Century offered to undergraduates at Plant Sciences, UOC ● Curriculum Developer - Department of Plant Sciences, UOC

Halloluwa T. (Dr.)	<ul style="list-style-type: none"> ● Consultant - <ul style="list-style-type: none"> ★ Education Employees Co-operative Thrift & Credit Society Limited ★ Postgraduate Institute of Medicine (PGIM), University of Colombo ★ State Ministry of Production, Supply and Regulation of Pharmaceutical ● Paper Reviewer/ Session Chair - <ul style="list-style-type: none"> ★ International Conference on Advances in ICT for Emerging Regions ★ International Journal on Advances in ICT for Emerging Regions ★ The International Conference on Advancements in Computing 2020 ★ The 23rd ACM Conference on Computer-Supported Cooperative Work and Social Computing ★ Undergraduate research symposium of Rajarata University of Sri Lanka ● Panel Chief - Department of Examinations ● Co-Founder and Treasurer - Colombo SIGCHI chapter ● Country Representative - International Federation for Information Processing
Hewagamage K.P. (Prof.)	<ul style="list-style-type: none"> ● Member of Council, University of Colombo ● Member of Presidential Taskforce for Education in 2020 ● Member of the Board of Management <ul style="list-style-type: none"> ★ NILIS ★ IBMBB ★ NITA ● Director – LEARN <ul style="list-style-type: none"> ● Chair, Blended Learning Committee, University of Colombo ● IT advisor to the University Grant Commission 2020 ● Member of UGC Standing committee on Computing, ● Member of UGC Standing Committee on UTEL evaluation ● Member of UGC Standing Committee on Information Technology and Online Education ● Member of UGC standing Committee on External Degrees
Hettiarachchi K.H.E.L.W. (Dr.) (Ms)	<ul style="list-style-type: none"> ● Resource Person for the Workshop on Moodle Online Question Bank, Department of Science and Technology, Faculty of Applied Sciences, Uva Wellassa University ● Resource Person for online seminar entitled “Creating Interactive learning content using H5P” for Staff of University of Colombo organized by the Blended Learning Group, University of Colombo ● Reviewer of Journal/ Conference – <ul style="list-style-type: none"> ★ Electronic Journal of e-Learning (EJEL) [Emerging Sources Citation Index (Web of Science Core Collection)] - http://www.ejel.org/main.html ● RISTCON 2021(8th Ruhuna International Science and Technology Conference -2021), Faculty of Science, University of Ruhuna

Jayarathna H.K.	<ul style="list-style-type: none"> ● TEC Member – Postgraduate Institute of Archeology
Jayaratne K.L. (Dr.)	<ul style="list-style-type: none"> ● Member of Police Information and Communication Systems Operational Committee, Ministry of Defence. ● Member of Technical Evaluation Committee – <ul style="list-style-type: none"> ★ Sri Lanka Standards Institution ★ Department of Registration of Persons ★ Ministry of Education
Maduranga N.H.P.I.	<ul style="list-style-type: none"> ● Mentor at NASA International Space Apps Challenge Colombo 2020-National Aeronautics and Space Administration (NASA) & SEDS Sri Lanka ● Developer - Computing.LK Web App, Computer Society of Sri Lanka (CSSL)
Matara Arachchi S.S.P. (Dr.)	<ul style="list-style-type: none"> ● Visiting Lecturer - <ul style="list-style-type: none"> ★ Institute of Human Resource Advancement, University of Colombo ★ Sri Palee Campus, University of Colombo ★ University of Vocational Technology ● Member of Technical Evaluation Committee – <ul style="list-style-type: none"> ★ Department of Labour ★ Ministry of Environment ● Consultant - Ministry of Environment ● Coordinating YCS evaluation which was organized by Ministry of Education & FITIS ● Technical Assistant for Annual Research Symposium 2020 of Faculty of Law, University of Colombo
Perera D. (Mrs)	<ul style="list-style-type: none"> ● Consultant – Sri Lanka Mahaweli Authority
Thilakeratne K.M	<ul style="list-style-type: none"> ● Member of Technical Evaluation Committee, Education Employees Co-operative Thrift & Credit Society Limited
Weerasinghe T.A. (Dr.) (Mrs)	<ul style="list-style-type: none"> ● Member of Technical Evaluation Committee, Educational Publications Department, Ministry of Education ● Visiting Lecturer <ul style="list-style-type: none"> ★ Management Faculty, University of Colombo ★ Faculty of Graduate Studies ● Member <ul style="list-style-type: none"> ★ Board of Management - Cyber Campus, University of Colombo ★ Blended Learning Committee, University of Colombo ● Leading role in the implementation of the Smart Classroom Project, University of Colombo ● Paper Reviewer, International Conference on Advances in ICT for Emerging Regions

Weerasinghe A.R. (Dr.)	<ul style="list-style-type: none"> ● Member <ul style="list-style-type: none"> ★ ICT/BPM Advisory Board, Export Development Board ★ Steering Committee on e-Procurement, Ministry of Finance ★ Interview Panel-Masters Degree Awards 2021-2022, US-SL Fulbright Commission ★ Board Member, Sri Lanka CERT ● Program Review Panel Chair - Ministry of Higher Education ● Chairman, Board of Study – IBMBB ● Visiting Lecturer <ul style="list-style-type: none"> ★ University of Ruhuna ★ Informatics Institute of Technology ★ Institute of Biochemistry, Molecular Biology & Biotechnology ● Reviewer <ul style="list-style-type: none"> ★ National Science Foundation ★ Informatics Institute of Technology ● Consultancy - Eastern University of Sri Lanka ● Prime Mover - International Finance Corporation, University of Colombo Incubation Project ● Subscriber - LK Domain Registry
Welgama V.W	<ul style="list-style-type: none"> ● Member of Technical Evaluation Committee, Education Employees Co-operative Thrift & Credit Society Limited
Wickramasinghe M.I.E. (Dr.)	<ul style="list-style-type: none"> ● Visiting Lecturer - University of Ruhuna ● Technical Evaluation Committee Member <ul style="list-style-type: none"> ★ Department of Registration of Persons ★ Ministry of Defence ★ Coconut Cultivation Board ● Consultant <ul style="list-style-type: none"> ★ Lanka Sathosa ★ Rajarata University ● Chairman – TEC/Gurugedara Education Employees Co-operative Thrift & Credit Society Limited ● Reviewer of Conference/Journals - <ul style="list-style-type: none"> ★ ICTER Journal ★ Future Generation Computer Systems Journal ★ Journal of Multimedia Tools and Applications ★ Journal of Internet Banking and Commerce ★ Journal of National Science Foundation ★ ICTER Conference ● Judge - NBQSA
De Zoysa T.N.K. (Dr.)	<ul style="list-style-type: none"> ● Member TEC- Sri Lanka Export Development Board ● Consultant – Development Lotteries Board ● Consultant – State Mortgage Bank

5.4 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDG) – 2020

5.4.1 SUSTAINABLE DEVELOPMENT GOALS (SDG)

United Nations Development Programme (UNDP) has identified 17 Sustainable Development Goals (SDG) for improving the living standard of human beings and ensure a green environment with the economic development of the World. In line with the 17 SDGs of UNDP, the Government of Sri Lanka has implemented SDGs for the upliftment of Sri Lanka economy, society, and environment. UCSC management discussed the contribution to SDGs having focused on the Strategic Plan 2020-2024 and the action plan 2020.

5.4.2 UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SGD) FOR THE YEAR 2020

GOAL 1: No Poverty

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 Progress	Target by 2030
01	End poverty in all its forms everywhere	UCSC admits undergraduate students including low-income families and contributes to the free education system with a view to reducing the poverty in this country. Both the government funds and generated income of UCSC are used to improve undergraduate education. Students in low-income families follow the programme and UCSC carries out many activities to address their wellbeing including hostels and using its distress funds in order to facilitate their higher education.	<p>Tuition fees are not charged from undergraduate students under free education policy.</p> <p>Mahapola and Bursary scholarships are provided using government funds. Special scholarships are provided using generated income</p> <p>Special financial supports are provided through Alumina association</p> <p>Computers are provided to students who cannot purchase with the help of Alumni Association</p> <p>Welfare Society carried out many activities to support who were suffering due to financial issues due to covid-19 pandemic situation</p>	to increase student intake over 500

GOAL 2: Zero Hunger

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
02	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	<ul style="list-style-type: none"> Subsidised canteen for students to provide good quality food at a low price. UCSC established the canteen 	<p>The project of building kitchen extension for the canteen was started</p> <p>Special financial assistance were provided for students who lost their parents</p>	Improve existing canteen facilities and provide high-quality food for students and staff.

		<p>committee to ensure and monitor the quality of food.</p> <ul style="list-style-type: none"> Conduct meetings to solve issues raised by students against the canteen owner and improved awareness of both the staff and students. Promote a paperless environment to reduce solid waste and manage the least plastic waste daily. 	<p>Scholarships for living were provided even during online teaching and learning</p> <p>Carried out landscaping activities to increase the green environment of the UCSC</p> <p>Reduce the consumption of papers by introducing activities such as e-signature and electronic communication under the work from home policy</p> <p>Establish policy to reduce the paper consumption</p> <p>Special loan scheme were introduced for the staff to purchase laptop computers</p> <p>Staff members who faced critical financial problems were supported through welfare society</p> <p>During WFH period, staff was promoted to engage in home gardening activities</p>	<p>Provide financial assistance for low-income students and in distress situations.</p> <p>Provide loan facilities for the staff who are in distress.</p> <p>Improve activities with respect to staff welfare.</p> <p>Become a paperless organization (at least 90%)</p> <p>Improve the greenery environment in the organization.</p> <p>Carry out ICT research related to e-agriculture.</p>
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GOAL 3: Good Health and Well-being

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
03	Ensure healthy lives and promote well-being for all at all ages	<ul style="list-style-type: none"> UCSC has implemented a Medical scheme for its staff and arranged awareness programmes. The medical center provides medical assistance for UCSC students free of charge and UCSC provides free transport facilities for students up to National Hospital Colombo if required depending on the circumstances. 	<p>Using the medical support scheme, the staff and their immediate family members were supported during 2020</p> <p>Special seminar to improve the awareness of good health practices were conducted</p> <p>The WFH was practiced among all staff to minimize the spread of Covid-19 virus</p> <p>Many guidelines were issued to maintain social distancing and health practices such as washing hands and having face mask during working hours</p> <p>Suspected staff members were granted paid leave to stay at home due to covid-19 infection</p>	<p>Improve the level of satisfaction of staff and students.</p> <p>Enhance current health care facilities for all students & staff by 2030.</p> <p>Improve the counseling</p>

		<ul style="list-style-type: none"> • Distress loan scheme facilitates staff to seek funds when they are at distress. • Improve the environment safe while maintaining a clean environment to ensure Dengue free and mosquito-free environment. • Conduct seminars to improve the knowledge of healthy practices and lifestyle and conducted 5 medical workshops in collaboration with Medical Faculty, UoC. • Counselling service to staff and students 	<p>Government and university guidelines were followed to minimize the spread of Covid-19</p> <p>All examinations were carried out based on the under strict health regulations to protect staff and students</p> <p>Professional counselling was provided to both staff and students</p>	<p>service and reduce the number of student and staff obtaining the counseling facilities</p>
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GOAL 4: Quality Education

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
04	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<p>UCSC provides free education, equitable and quality education. Offer followings.</p> <ol style="list-style-type: none"> 1. Certificate, Diploma and Higher Diploma courses 2. BIT degree for external students 3. FIT programme as the foundation programme for those who are willing to improve their ICT knowledge and skills 4. BSc. Degree programmes for 	<p>Due to covid-19 pandemic situation, UCSC didn't suspend any academic activities and teaching/learning/assessment activities were carried out through online learning environment</p> <p>All online lectures are recorded allowing students to access them in both synchronized and asynchronous modes</p> <p>Free Internet access was provided when accessing UCSC online learning environment and participating online meeting through Zoom service</p> <p>Many quality assurance activities were carried out during 2020 to improve the process of education</p>	Meet quality assurance indicators introduced by UGC from time to time to ensure high-quality education and international standards

		<p>areas in computing (5 degrees)</p> <p>5. Postgraduate degree programmes in 6 areas of specialization</p> <p>UCSC has fulltime professors and senior academic staff to deliver high-quality teaching and research to students and it has over 90% employability rate among students. Most of the senior academic staff possess PhDs</p>	<p>deliver while collecting students feedback at regular time points during the semester</p> <p>Curriculum development of BIT and FIT programmes were carried out to improve the quality of open educational initiatives of UCSC</p> <p>Several student surveys were carried out to find out students issues and facilitate them to engage in the education effectively</p>	
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GOAL 5: Gender Equality

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
05	Achieve gender equality and empower all women and girls	<p>No gender discrimination in admission and given equal opportunity for higher learning and enjoying any facility of UCSC at all</p> <p>Actions have been taken to empower all women same as male population of UCSC</p>	<p>Genedere was never considered in the student admission of any degree or other academic programmes</p> <p>Gender was never considered when staff members are recruited or promoted during 2020</p> <p>Male and Female ratio was considered when developing facilities such as sanitary facilities</p> <p>Female students are provided special scholarships using external support in the BIT programme</p>	Maintain gender equality policy as existed by 2030

GOAL 6: Clean Water and Sanitation

Goal 1 No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
06	Ensure availability and sustainable management of water and sanitation for students and staff	All students and staff were given drinking water facility and sanitary facilities by spending recurrent and generated an income of UCSC	<p>The service block of the building was rebuild to improve the sanitation facility cosndiering staff and student population in the building</p> <p>Drinking water was provided for the all staff</p> <p>The condition of water was checked at regular time point.</p> <p>Regular cleaning activities were carried out and they were recorded daily</p>	Ensure drinking water for all students and staff and sanitation facility for all including differently-abled students

GOAL 7: Affordable and Clean Energy

Goal 1 No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
07	Ensure access to affordable, reliable, sustainable and modern energy for all	Introduce energy-saving activities and make use of efficient energy. Consider energy saving when acquiring new computers and lab equipment for students and staff	<p>According to the energy saving policy, low consumption equipments such as LED bulbs were used to replace when it is necessary.</p> <p>Monitor the energy usage to take actions to minimize the actions required</p> <p>Formal policy on Engergy savings were approved</p> <p>Many repair activities with respect to electricity supply was carried out to minimize the electricity wastage</p>	Save energy by 15% introducing new technology

GOAL 8: Decent Work and Economic Growth

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 Progress	Target by 2030
08	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Produce quality graduates to contribute to national development of the country. Employability of UCSC graduates to maintain over 90%. Improve the working standard of students and staff.	Evaluated the employability issues of present graduates due to covid-19 pandemic situation Carried out employability survey of different groups of graduates Many actions were taken to minimize the effect on the income due to covid-19 WFH was practiced together with new reporting mechanism Staff promotional activities were carried out through the welfare society of UCSC such as Uduwap Wasanthaya	Maintain 100% employability and produce competitive, innovative, creative and high-quality graduates through Research & Development (R& D) Stable economical growth in the UCSC irrespective of government funds

GOAL 9: Industry, Innovation and Infrastructure

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
09	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	Upgrade the infrastructure with modern technologies to provide high-quality education for IT graduates based on the industry demand Develop the curriculum of current programmes and start new programmes based on the market requirement Promote innovation as a curriculum as well as extra curriculum activity among students and staff	IT infrastructure was enhanced to promote WFH activities Online Meetings through Zoom service became a common methodology to promote interaction among staff and students Activities related to the capitable development was carried out during to upgrade the infrastructure Many projects were supported for innovative development considering current covid 19 situation ICTer Conference and Journal was the mechanism for knowledge dissemination to promote industrialization and innovation	Innovation will be considered when assessing student performance-based evaluation. Establish environment-friendly sustainable physical and IT infrastructure in the organization. Contribute to the national innovation in Sri Lanka

GOAL 10: Reduced Inequality

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
10	Reduce inequality within and among countries	Conduct English classes for students who are weak in English Conduct tutorial classes among weak students in studies	Welfare society carried out activities considering all staff on the same level to promote their participating and reduce the inequality depending on the designation in the organization Facilitated students to acquire additional awareness to improve their softskills Online Seminars were conducted to improve career development Students and staff were facilitated to learn English language Staff were promoted to continue their education	Increase the student performance where the majority of students get GPA 2.5 or more

GOAL 11: Sustainable Cities and Communities

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
11	Make cities and human settlements inclusive, safe, resilient and sustainable	Improve the safety of the working environment in all aspects. Facilitates students from rural areas by providing hostels and scholarships. Students and staff conduct workshops for rural schools.	All activities are revised and redesigned considering Covid-19 pandemic situation Students and staff carried out a programme called National Olympiad in Informatics to promote IT education among school children Fire protection system was developed within UCSC to improve the safety and sustainability of the organization Promoted both BIT and FIT programmes among low income students as an affordable degree programme for all	Improve the e-Learning and blended learning infrastructure to promote distance education through BIT programme

GOAL 12: Responsible Consumption and Production

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
12	Ensure sustainable consumption and production patterns	<p>UCSC follows waste management policies and sends waste for recycling.</p> <p>UCSC considers e-waste disposal process to minimize the environment damages</p>	<p>Due to covid-19 pandemic situation, a significant amount of consumption of electricity and water was reduced</p> <p>UCSC continued to monitor consumption of materials</p> <p>Repaired many equipments such as cupboards to reuse them again</p> <p>E-waste management policies were followed</p>	<p>Manage the consumption of energy and other resources.</p> <p>Obtain the maximum usage of goods/assets before its disposal.</p> <p>Develop policies to manage consumption and practice them.</p> <p>Maintain good waste management and recycling system.</p>

GOAL 13: Climate Action

Goal No.	Description of goal	UCSC activity in line with SDGs	2020 progress	Target by 2030
13	Take urgent action to combat climate change and its impacts	Control usage of goods which have a direct effect on climate change such as different electronic devices, papers, and plastics	<p>UCSC minimized the consumption of energy due to covid-19 situation and WFH and it contributed the climate development</p> <p>Policy of saving energy was formally approved and it was practiced when replacing all electronic equipments</p> <p>Minimize the consumption of papers</p>	Achieve the status of green campus

GOAL 14: Life Below Water

Goal No.	Description of goal	UCSC activity in line with SDGs	2020 progress	Target by 2030
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	Consumption of Water management Waste management to minimize the water quality	Minimize the consumption of water during 2020 Improve the waste management in the organization	Contribute by reducing water consumption and protecting the quality of water

GOAL 15: Life on Land

Goal No.	Description of goal	UCSC activity in line with SDGs	2020 progress	Target by 2030
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	This goal is not related with UCSC Strategic Plan and Action Plan	Not applicable	Not applicable

GOAL 16: Peace and Justice Strong Institutions

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	Zero tolerance for ragging, sex or gender based violence and staff and students could make necessary complaints if they are victims of such events	All students are educated about violence and ragging within the university premises as well as online environment Activities were carried out to develop the friendship and harmony among staff and students groups Staff and student complaints are addressed to minimize the issues and provide better working and learning environment for all	Establish the violence free and friendly environment through proper awareness and monitoring system all stakeholders

GOAL 17: Partnerships to Achieve the Goal

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 progress	Target by 2030
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	UCSC has established partnerships with IT industry/organizations locally and globally for the betterment of its students and staff UCSC adopts policies to promote sustainable development	<p>PDC continued its activities to promote better relationship between academia and industry</p> <p>UCSC took part actively many national initiatives and projects</p> <p>UCSC staff are promoted to actively contribute national development to improve partnership</p> <p>UCSC actively contributed main campus, UGC and other universities to improve the partnerships</p>	Achieve the status of development with sustainability as the main indicator of achievement

6. FINANCE

6.FINANCE

According to the financial regulations, it is required to submit the 2020 annual financial statements within first two months of 2021 after obtaining Board of Management approval. Following extracts in this section are prepared based on those financial statements submitted to the Auditor General and any subsequent changes recognized. Financial Statements were submitted to the Auditor General with the approval of the Board of Management before the deadline. In this section, we describe and analyze the financial status of the institute during 2020.

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 2020, the recurrent expenditure of Rs 507,334/= has been spent per student basis.

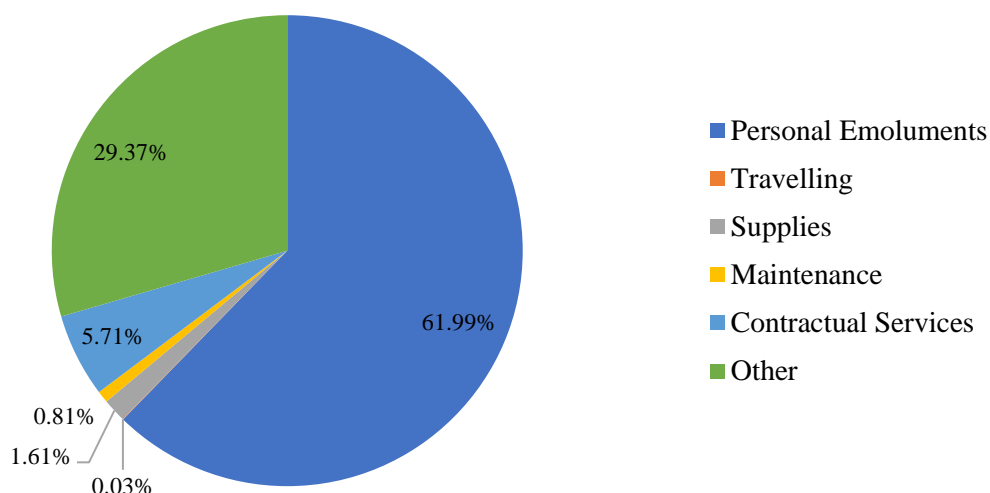
In general, the recurrent expenditure is 519.60 million, out of which 161.72 million was the generated income of UCSC. In other words, 31.12% of the total recurrent expenditure is from UCSC generated income. The major classification of recurrent expenditure is given below in the table (Recurrent Expenditure).

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

Subject	2020	2019	2018
Personal emoluments	322,106	338,452	234,711
Travelling	175	1,900	533
Supplies	8,384	9,403	7,411
Maintenance	4,209	6,093	6,525
Contractual Services	29,690	37,836	37,775
Other	155,044	191,415	200,847
Total	519,608	585,099	487,802
Government Allocation	357,880	337,200	198,785

Since government, allocation for recurrent expenditure was sufficient only to cover the personal emoluments and part of other recurrent expenditure, the management was very careful and controlled all the other recurrent expenses as you see when you compare figures of 2020 with 2019 in the table of Recurrent Expenditure.

Recurrent Expenditure - 2020



6.2 CAPITAL EXPENDITURE

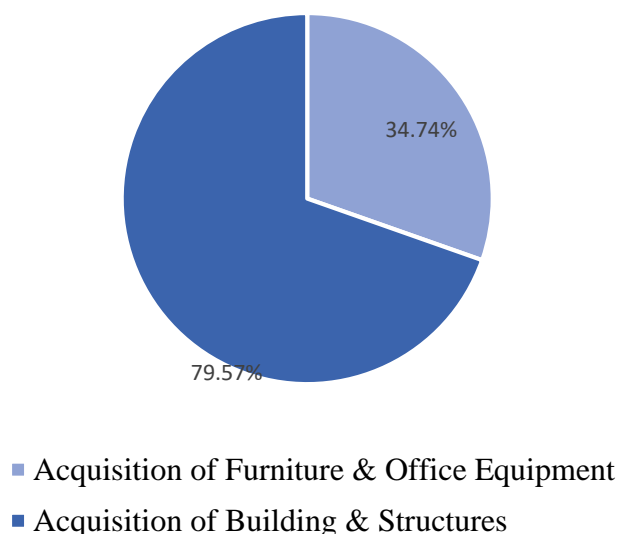
Due to Government capital grant is insufficient, UCSC generated funds were used to carry out planned activities. During the year capital expenditure is 41.58 million, out of which 18.86 million was the generated income of UCSC. In general, the capital expenditure per student is Rs 44,811/=. Details of capital expenditure are given in the table below (Capital Expenditure).

Table 6.2. A: Capital Expenditure

Rs. 000'

Subject	2020	2019	2018
Acquisition of furniture & Office Equipment	14,445	68,939	61,579
Acquisition of Machineries	-	-	-
Acquisition of Building & Structures	27,140	33,091	85,628
Other	-	-	-
Total	41,585	102,030	147,207
Government Allocation	23,000	69,000	112,250

Capital Expenditure - 2020



6.3 CONSULTANCY AND RESEARCH PROJECTS (EXTERNALLY FUNDED)

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

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

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)	1,000	400	400	1,081
Research Projects (foreign funded)	-	-	-	119
Consultancy & Software Dev. Type of Projects	2,000	10,058	8,961	1,970
Total	3,000	10,458	9,361	3,170

Service Assignments Given by the Government Authorities

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

6.4 ANALYSIS OF FINANCIAL SUPPORT AND THE GENERATED INCOME

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

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

Major Income Sources	Budgeted	Invoiced	Received	Variance
Undergraduate Studies	4,780	4,915	4,915	135
Postgraduate Studies	117,276	99,398	99,398	(17,878)
Consultancies	10,000	10,058	8,961	(1,039)
External Degree	91,996	86,203	86,203	(5,793)
Other	100,000	101,340	101,340	1,340
Total	324,052	301,914	300,817	(23,235)

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

Subject	Formula	Exp. per Student
Recurrent Expenditure per Student (RE)	RE / Total No of Student strength	507,334
Capital Expenditure per Student (CE)	CE Total / No of Student strength	44,811
Cost per Student		552,145

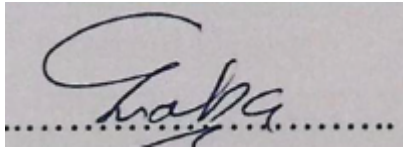
6.4.2 ANALYSIS OF THE FINANCIAL DETAILS OF THE UNDERGRADUATE PROGRAMME

RS '000

	2020	%	2019	%	2018	%	2017	%
Personal Emoluments	316,053		329,637		228,297		183,495	
Other Recurrent	53,479		66,441		62,666		67,728	
Total Recurrent Expenditure	369,532		396,078		290,963		251,223	
Recurrent Grant Received	357,880	97	337,200	85	198,785	68	167,862	67
Generated Funds for Recurrent Activities	11,652	3	58,878	15	92,178	32	83,361	33
Capital Expenditure	41,585		102,030		146,829		195,033	
Capital Grant Received	23,000	55	69,000	68	112,250	76	153,714	79
Generated Funds for Capital Activities	18,585	45	33,030	32	34,579	24	41,319	21
Total Expenditure (Recurrent + Capital)	411,121		498,108		437,792		446,256	
Total Government Grant	380,880	93	406,200	82	311,035	71	321,576	72
Generated funds for Undergraduate Programme	30,241		91,908		126,757		124,680	
Generated Funds utilization as a % of total Expenditure		7		18		29		28

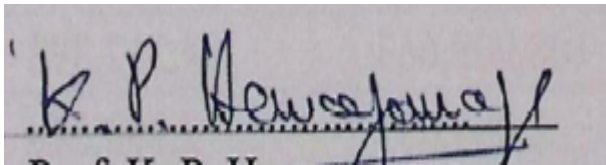
6.4.3 STATEMENT OF FINANCIAL POSITION

As at 31 st December	Note	2020	2019 Restated
		Rs	Rs
ASSETS			
Current Assets			
Cash & Cash Equivalents	1	100,784,050	71,586,986
Loans Receivable - Within One Year	2	4,708,464	4,837,422
Investments - Mature within One Year	1.1	1,083,916,289	882,831,764
Other Receivables & Pre-payments	3	13,292,532	13,127,195
Interest Receivables	4	82,141,467	78,915,599
Inventories	5	1,933,662	2,084,031
Total Current Assets		1,286,776,465	1,053,382,997
Non - Current Assets			
Loans Receivable - More than One Year	2	13,203,458	12,754,310
Investments - Mature after One Year	1.1	43,742,158	43,742,158
Rehabilitation and Improvement of Capital Assets	6	39,410,551	39,093,231
Construction Work in Progress	7	17,877,561	12,395,552
Library Books & Periodicals	8	2,119,153	1,635,773
Property, Plant & Equipment	9	638,043,775	688,861,095
Intangible Assets	10	14,580,323	19,476,401
Total Non - Current Assets		768,976,980	817,958,520
TOTAL ASSETS		2,055,753,445	1,871,341,518
EQUITY & LIABILITIES			
Current Liabilities			
Accruals & Other Payables	11	42,123,569	42,956,224
Creditors		2,566,100	879,794
Retention		5,942,150	8,795,775
Deferred Income	12.1	120,935,336	49,614,750
Total Current Liabilities		171,567,155	102,246,543
Non - Current Liabilities			
Deferred Income	12.2	19,391,667	18,870,000
Provision for Gratuity	13	112,819,428	102,455,503
Total Non - Current Liabilities		132,211,095	121,325,503
TOTAL LIABILITIES		303,778,250	223,572,047
TOTAL NET ASSETS / EQUITY		1,751,975,195	1,647,769,471
Capital & Reserves			
Capital Grant - Unspent	14(A)	2,464,028	1,668,491
Capital Grant - Spent	15 (A)	769,173,061	800,886,824
Project Grants - Unspent	14 (B)	5,792,698	9,389,299
Project Grants - Spent	15(B)	2,310,116	8,425,828
Contribution from University of Colombo		8,155,714	8,155,714
Total Grants		787,895,616	828,526,156
Reserves	16	656,066,307	537,273,315
Revaluation Reserve		45,930,497	35,505,497
Restricted Funds	17	262,082,777	246,464,503
TOTAL NET ASSETS / EQUITY		1,751,975,195	1,647,769,471

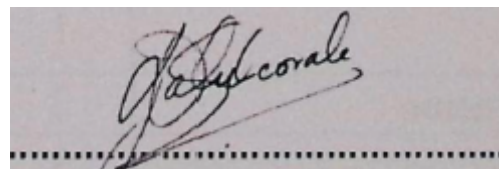


E.M. Gunarathna
Deputy Bursar

The **accounting policies No. 1 - 4.9 and notes No. 1 – 33** form an integral part of these Financial Statements. The Members of the Board of Management is responsible for the preparation and presentation of these Financial Statements. These Financial statements were approved by the Board of Management and signed on their behalf.



Prof. K. P. Hewagamage
Director



Dr. Ajantha Atukorale
Deputy Director

24th February 2021

6.4.4 STATEMENT OF FINANCIAL PERFORMANCE

For the year ended 31 st December	Notes	2020	2019 Restated
		Rs	Rs
Undergraduate Programme			
Operating Revenue			
Government Grant		357,880,000	338,091,970
Generated Income		33,299,211	27,654,735
Amortization of Government Capital Grant		63,775,211	62,379,607
Mahapola & Bursary Received		4,402,400	8,452,750
Interest Income	25	3,971,048	3,404,684
Other Income	26	4,914,758	5,519,190
Disposal Profit		138,498	155,649
		468,381,125	445,658,585
Operating Expenditure			
Personal Emoluments	27	263,199,576	233,656,316
Travelling Expenses	28	126,512	1,098,450
Supplies	29	6,558,788	7,831,693
Contractual Services	30	32,630,031	41,051,666

Retirement Benefits	31	52,853,604	95,730,331
Other Recurrent Expenses	32	14,164,039	16,709,982
Mahapola & Bursary Payment		4,402,400	8,452,750
Total Expenditure Before Depreciation & Amortization		373,934,949	404,531,188
Add: Depreciation & Amortization	33	101,274,049	88,027,837
Total Expenditure After Depreciation & Amortization		475,208,998	492,559,025
<i>Deficit from Undergraduate Programme</i>		(6,827,872)	(46,900,440)
Extension Programme			
Postgraduate Programme-(PG)	19	78,868,174	28,791,758
External Degrees Centre -(EDC)	19	12,793,353	61,417,568
Computing Services Centre-(CSC)	19	913,708	6,909,423
eLearning Centre -(eLC)	19	14,239,482	13,943,727
Professional Development Centre -(PDC)		-	(61,216)
Advanced Digital Media Technology Centre - (ADMTC)	19	804,353	2,143,950
<i>Surplus from Extension Programmes</i>		107,619,071	113,145,210
Projects			
Common Projects	19	2,579,148	2,436,058
ICTer Conference	19	781,965	1,399,041
<i>Surplus from Projects</i>		3,361,113	3,835,099
Net Surplus /(Deficits) for the Year		104,152,312	70,079,870

"The accounting policies & Notes are an integral part of these Financial Statements."

6.4.5 STATEMENT OF CHANGES IN EQUITY

For the year ended 31 st December	Capital Grant Unspent	Capital Grant Spent	Project Grants Unspent	Project Grants Spent	Contribution from UoC	General Reserves	Revaluation Reserve	Restricted Funds	Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Balance as at 31st December 2018	3,458,277	762,472,881	12,067,545	8,614,243	8,155,714	468,413,543	35,505,497	196,769,576	1,495,457,276
Excess of Income over Expenditure for the Year	-	-	-	-	-	70,079,870	-	-	70,079,869
Prior Year Adjustments	724,863	(724,863)	-	-	-	(1,220,098)	-	-	(1,220,098)
Amortization of Grant	-	(62,345,677)	-	(865,705)	-	-	-	-	(63,211,382)
Grant Received During the Year	99,861,804	-	17,594,765	-	-	-	-	-	117,456,569
Transferred During the Year	(102,376,452)	101,484,482	(20,273,012)	677,290	-	-	-	49,694,927	29,207,235
Balance as at 31st December 2019	1,668,491	800,886,824	9,389,299	8,425,828	8,155,714	537,273,315	35,505,497	246,464,503	1,647,769,471
Excess of Income over Expenditure for the Year	-	-	-	-	-	104,152,312	-	-	104,152,312
Amortization of Grant	-	(63,103,253)	-	(671,959)	-	-	-	-	(63,775,212)
Grant Received During the Year	42,371,000	-	2,100,000	-	-	-	-	-	44,471,000
Transferred During the Year from Unspent Grant to Spent Grant	(41,575,464)	41,575,464	(5,696,601)	9,500	-	-	-	-	(5,687,101)
Transferred During the Year from Spent Grant to General Reserve	-	(10,079,154)	-	(5,453,254)	-	13,456,694	-	-	(2,075,714)
Prior Year Adjustments	-	-	-	-	-	(998,551)	-	-	(998,551)
Transferred During the Year	-	-	-	-	-	-	10,425,000	15,618,274	26,043,274
Transferred Net Assets Value to Undergraduate Unit	-	-	-	-	-	2,182,536	-	-	2,182,536
Transferred to Undergraduate Current A/C	-	(106,821)	-	-	-	-	-	-	(106,821)
Balance as at 31st December 2020	2,464,027	769,173,061	5,792,698	2,310,116	8,155,714	656,066,308	45,930,497	262,082,777	1,751,975,195

"The accounting policies & Notes are an integral part of these Financial Statements.

6.4.6 STATEMENT OF CASH FLOWS

For the year ended 31 st December		Note	2020	2019 Restated
			Rs	Rs
	Surplus / (Deficits) for the Year		104,152,312	70,079,870
Adjustment for :				
	Depreciation & Amortization		101,354,551	91,280,568
	Provision for Gratuity		12,893,778	61,491,930
	Amortization of Government/Other Capital Grants		(63,775,211)	(63,211,382)
	(Profit) /Loss from Sales of Property, Plant & Equipment		(138,498)	(155,649)
	Interest Income		(87,176,481)	(80,762,869)
	Set Off Charges on FD Withdrawals		284,343	-
	WHT Deductions		-	108,611
Net Cash Flow from Operating Activities before Working Capital Changes			67,594,794	78,831,079
	(Increased) / Decreased in Inventories		150,369	943,298
	(Increased) / Decreased in Inter-Unit Current Accounts		20,642,589	(33,226,000)
	(Increased) / Decreased in Receivables & Pre-payments		(689,268)	(6,652,406)
	Increased / (Decreased) in Accruals & Other Payables		(2,049,975)	(25,615,685)
	Increased / (Decreased) in Inter-Unit Current Accounts		(20,642,589)	33,226,000
	Increase / (Decrease) in Deferred Income		71,842,252	32,396,250
Net Cash Flow from Operating Activities after Working Capital Changes			136,848,171	79,902,535
	Gratuity Paid		(2,492,166)	(5,027,861)
	Paid from Sanasa Project		(437,178)	-
	Paid to UOC		-	(764,500)
Net Cash Generated/ (Used) From Operating Activities			133,918,827	74,110,175
Cash Flows From/(Used In) Investing activities				
	Acquisition of Property, Plant & Equipment		(14,445,280)	(68,938,516)
	Work in Progress - Construction		(23,754,698)	(28,754,768)
	Infrastructure Development Activities		-	-
	Proceeds from Sales of Property, Plant & Equipment		224,599	253,160
	Rehabilitation & Improvement of Capital Assets		(3,384,986)	(3,611,326)
	Received in Interest		92,690,079	71,553,818
	Funds invested in Fixed Deposits		(228,725,717)	(179,679,165)
	Withdrawals of Fixed Deposits		27,641,193	50,704,260
	Transfer Fixed Deposits to Long Term Investments		-	(48,982,753)
Net Cash Generated/ (Used) From Investing Activities			(149,754,809)	(207,455,290)
Cash Flows from /(Used In) Financing Activities				
	Capital Grant Received - Government		23,000,000	69,000,000
	Capital Grant Received - Generated Income		19,371,000	30,861,805
	Project Grant Received		2,109,500	17,594,765

	Transfer to Income from Project Grant Received		(5,696,601)	(19,595,722)
	Transfer from Capital Grant to Operating Revenue			(891,970)
			-	
	Net Receipts/Payments from Restricted Funds		6,249,149	24,583,144
	Net Cash Generated/ (Used) From Financing Activities		45,033,049	121,552,022
	Net Increase/Decrease in Cash and Cash Equivalents		29,197,066	(11,793,093)
	Cash and Cash Equivalents at the Beginning of the Year		71,586,986	83,380,078
	Cash and Cash Equivalents at the End of the Year	1	100,784,050	71,586,986

"The accounting policies & Notes are an integral part of these Financial Statements.

POLICIES TO THE FINANCIAL STATEMENTS

1. Reporting Entity

1.1 Legal and Domicile Form

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

1.2 Principal Activities & Nature of operation

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

1.3 Financial Period

The Financial period of the UCSC represent twelve months period from 01st January 2020 to 31st December 2020.

1.4 Date of Authorization for Issue

The financial statements were authorized for issue by the Board of Management held on 23rd February 2021.

1.5 Basis of Preparation of Financial Statements

1.5.1 Statement of Compliance

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

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

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

1.5.2 Basis of Measurement

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

POLICIES TO THE FINANCIAL STATEMENTS

1.5.3 Comparative Information

Comparative information including quantitative, narrative and descriptive information is disclosed in respect of the previous period for all amounts reported in the financial statements in order to enhance the understanding of the financial statements of the current period and to improve comparability.

When the presentation or classification of items in the financial statements is amended, comparative amounts are reclassified, unless reclassification is impracticable.

1.5.4 Functional and Presentation Currency

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

1.5.5 Rounding

The amounts in financial statements have been rounded-off to the nearest rupee, unless otherwise indicated as permitted by the Sri Lanka Public Sector Accounting Standards

1.5.6 Significant Accounting Estimates and Judgements and Assumptions

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

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

1.5.7 Going Concern

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

1.5.8 Changes in Accounting Policies and Estimates

UCSC recognized the effects of changes in accounting policy in retrospectively. However, the effects of the changes in accounting policies are applied prospectively if the retrospective application is impractical.

POLICIES TO THE FINANCIAL STATEMENTS

2. Summary of Significant Accounting Policies

2.1. Assets and the Basis of their valuation

2.1.1 Property, Plant and Equipment.

a. Recognition and Measurement

(I) Basis of Recognition

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

(II) Basis of Measurement

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

b. Cost

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

c. Subsequent Expenditure

Subsequent expenditure incurred for the purpose of acquiring, extending or improving assets of a permanent nature in order to carry on or increase the earning capacity of the assets has been treated as

capital expenditure. Expenditure incurred to replace a Component of an item of property, plant and equipment that is accounted for separately, including major inspection and overhaul expenditure, is capitalized. Other subsequent expenditure is capitalized only if it is probable that the future economic benefits embodied within the part will flow to the UCSC and its cost can be measured reliably.

An entity does not recognize in the carrying amount of an item of property, plant and equipment the costs of the day-to-day servicing of the item. Rather, these costs are recognized in surplus or deficit as incurred.

POLICIES TO THE FINANCIAL STATEMENTS

d. Fair Value

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

2.1.2 Derecognition of Property, Plant & Equipment

An item of property, plant and equipment is derecognized upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on derecognition of the asset is calculated as the difference between the net disposal proceeds and the carrying amount and included in the statement of Financial Performance in the year, the asset is derecognized.

2.1.3 Library books

Cost of library books are written off on the straight-line basis over a period of Five years

2.1.4 Revaluation of Property Plant & Equipment

If the carrying amount of a class of assets is increased as a result of a revaluation, the increase shall be credited directly to revaluation surplus. However, the increase shall be recognized in surplus or deficit to the extent that it reverses a revaluation decrease of the same class of assets previously recognized in surplus or deficit.

If the carrying amount of a class of assets is decreased as a result of a revaluation, the decrease shall be recognized in surplus or deficit. However, the decrease shall be debited directly to revaluation surplus to the extent of any credit balance existing in the revaluation surplus in respect of that class of assets.

Upon disposal, any revaluation reserve relating to the particular asset being sold is transferred to retained earnings.

Revaluation has been done for the year 2020 for entire class of Motor Vehicles. Prior to that Revaluation has done only for Vehicle No. WP GF 5434.

2.1.5 Depreciation

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

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

POLICIES TO THE FINANCIAL STATEMENTS

2.1.6 Capital Work- in- Progress

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

2.1.7 Intangible Assets

Acquired computer software are capitalized on the basis of the costs incurred to acquire and bring to use. These costs are amortized over their estimated useful life of five (05) years. Costs associated with maintaining computer software programmes are recognized as an expense as incurred.

Description	Rate per annum	Useful lives
Computer Software	20%	05 Years

Costs that are directly associated with the production of identifiable and unique software products controlled by the UCSC are recognized as intangible assets when the following criteria are met:

1. It is technically feasible to complete the software product so that it will be available for use;
2. Management intends to complete the software product and use it;
3. There is an ability to use the software product;
4. It can be demonstrated how the software product will generate probable future economic benefits;
5. Adequate technical, financial and other resources to complete the development and to use the software product are available; and

POLICIES TO THE FINANCIAL STATEMENTS

6. The expenditure attributable to the software product during its development can be reliably measured.

Directly attributable costs that are capitalized as part of the software product include the software development employee costs and an appropriate portion of relevant overheads.

2.1.8. Inventories

Inventories have been valued at cost and the cost was determined based on first in first out (FIFO) method. The cost includes expenditure incurred in acquiring the inventories and bringing them to their existing location and condition. The Inventory of the UCSC includes stationery, consumables and maintenance items. Where inventories are acquired through a non-exchange transaction, their cost shall be measured at their fair value as at the date of acquisition.

2.1.9 Cash and Cash Equivalents

Cash and cash equivalents are defined as cash in hand, demand deposits and short-term highly liquid investments, readily convertible to known amounts of cash and subject to insignificant risk of changes in value. For the purpose of Statement of Cash Flow, cash and cash equivalents consist of cash in hand, deposits in banks and banks overdrafts.

Investments with short maturities i.e. Three months or less from the date of acquisition are also treated as cash equivalents.

3. Liabilities & provisions

3.1.1 Liabilities

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

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

POLICIES TO THE FINANCIAL STATEMENTS

3.1.2 Contingent Liabilities

UCSC does not recognized contingent liability but disclose any contingencies in the notes to the financial statements, unless the possibility of an outflow of resources embodying economic benefits or service potential is remote.

3.1.3 Provisions

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

3.1.4 Deferred Income

Deferred income results when received income relating to courses and study programmes are raised at the commencement of the courses where the course delivery take place over a period of several months / years. Deferred income is recognized in the statement of Financial Performance to the extent of course delivery taken place on quarterly basis and the balance attributable to the remaining course period is recognized as a liability on the statement of financial position until income is recognized.

3.1.5 Employee Benefits

a. Employee defined benefit plan – Gratuity

Defined benefit plan is a post-employment benefit plan, other than a defined contribution plan. The defined benefit is calculated by an independent actuary using Projected Unit Credit (PUC) method.

d. Defined Contribution Plans – University Provident Fund (UPF), Employees’ Trust Fund (ETF) and University Pension Fund

The UCSC and employees contribute 15% or 07% and 10% respectively, on the salary of each employee to the approved University Provident Fund. In addition, the UCSC contributes 3% of the salary of each employee to the Employees’ Trust Fund and 08% of the salary of eligible employees to the University Pension Fund. These are recognized as an expense in the statement of Financial Performance as incurred.

POLICIES TO THE FINANCIAL STATEMENTS

3.1.6 Foreign Currency Transaction

Transaction currencies other than Sri Lankan rupees are converted in to Sri Lankan rupees at rates which are prevailing at the date of transactions. Gain and losses resulting from the settlement of such translation and from the translation of monetary assets and liabilities denominated in foreign currencies are recognized in the income statement. Monetary assets and liabilities denominated in foreign currencies are translated at exchange rate prevailing on the balance sheet date.

3.2 Accounting for the receipt and utilization of funds, grants and reserves

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

3.2.1 Endowment Funds

Where assets are received as an endowment, which are not exhausted, only the income earned from such assets may be recognized and used as income. Investment income and other gains realized from funds available under each of the above categories are allocated to the appropriate funds, unless the relevant agreement or minute provides otherwise.

Purposes of the funds are awarding subject prizes and merit prizes for the best performance of each specified examinations.

4. Statement of Financial Performance

4.1. Revenue Recognition from Exchange Transaction

Revenue is recognized to the extent that it is probable that the economic benefit will flow to the UCSC that it can be reliably measured. Recognizing revenue from services by reference to stage of

completion. Where revenue cannot be measured reliably, revenue recognized only to the extent that the expenses incurred are recoverable.

4.1.1. Government Grant (Recurrent)

All government grants pertaining to recurrent expenditure are recognized at the time of actual funds received. Rs. 357,880,000/- received as Recurrent Grant during the year

POLICIES TO THE FINANCIAL STATEMENTS

4.1.2 Course Fee

Course fee is recognized over quarterly basis for the period of academic program. Where adequate information is not available to make such allocation to different financial periods, fees are recognized as income on cash basis.

4.1.3 Fees on Computing Service

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

4.1.4 Investment Income

Interest Income related to UCSC fixed deposits are accounted on accrual basis. Interest Income of the fixed deposits is accrued using effective yield method. In addition to the Interest received from fixed deposits, interest Income consists of Interest received from Loan and Advances and Money market Investment Income.

4.1.5 Gains / Losses from sale of property, plant and equipment

Net gains and losses on the disposal of property, plant and equipment are recognized in the statement of Financial Performance after deducting from the proceeds on disposal, the carrying value of the item disposed of and any related selling expenses. In the case of any revalued asset, any balance remaining in the revaluation reserve account is transferred to the statement of General Reserve.

4.1.6 Other Income

Any other income not specified under above categories is recognized on accrual basis. Other Income Consists of Suppliers Registration Income, Non-refundable Tender Fee, Selection Test Fee, Examination fee, and other Miscellaneous nature Income.

4.2 Revenue from Non-Exchange Transaction

Revenue are recognized when it probable that the future economic benefits or service potential associate with the assets will flow to the entity and fair value of the assets can be measured reliably.

4.1.2 Government Grant (Capital)

Once Capital Grant are received credited to Unspent Capital Grant A/C. Grant expensed to construction of buildings and purchase of property, plant and equipment, Library Books are transferred to Spent Capital Grant and are credited to the income statement on a straight-line basis

POLICIES TO THE FINANCIAL STATEMENTS

over the expected life of the related activities. Rs. 63,775,211/- has been recognized as grant amortization for the year 2020. During the year Rs. 23,000,000 /- received as Capital Grant.

4.3 Restricted Contribution / Income

Restricted contributions are provided based on agreements, contracts or other understanding, where the conditions for receipt of the funds are linked to a performance of a service or other process. The UCSC earns the contribution through compliance with the conditions that have been laid down and meeting the envisaged obligations.

4.4 Expenditure Recognition

The expenditure has been analyzed by Program /project/object wise and all expenses incurred in respect of undergraduate education have been charged to the government recurrent grant. All expenditure incurred in the acquisition, or improvement of assets of a permanent nature in order to carry on or increase the learning capacity of the students has been treated as capital expenditure.

(a) Project Expenses

Expenses in carrying out the projects and other activities of the UCSC are recognized in the statement of Financial Performance during the period in which they are incurred and the basis for identifying project expenses are mainly on locations of the project, staff allocated to the project and projected activities of the project according to the project proposal.

Expenses are recognized in the statement of Financial Performance on the basis of direct association between the cost incurred and the earning of specific items of income.

(b) Operational Expenses

All expenditure incurred in the running of the UCSC and in maintaining the capital assets in a state of efficiency has been charged against income in arriving at the surplus for the year. Expenditure on examinations, seminars and courses are recognized in the statement of Financial Performance on the accrual's basis.

(c) Finance Expense

Finance expense is recognized on accrual basis when it is paid or creates liabilities.

POLICIES TO THE FINANCIAL STATEMENTS

4.5 Statement of Cash Flows

The statement of cash flows has been prepared in accordance with SLPSAS No. 02. The method used to prepare cash flow is "Indirect Method". Cash and cash equivalents as referred to in the statement of cash flows are comprised those items as explained in Note 01.

4.6 Events after the Reporting Period

The materiality of events occurring after the reporting period has been considered and appropriate adjustments, wherever necessary, have been made in the accounts.

4.7 Receivables

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

4.8 Correction of Errors

UCSC correct material prior period errors retrospectively in the first set of financial statements authorized for issue after their discovery by:

- (a) Restating the comparative amounts for prior period presented in which the error occurred; or
- (b) If the error occurred before the earliest prior period presented, restating the opening balances of assets, liabilities and net assets/equity for the earliest prior period presented.

4.9 Combined Financial Statements

UCSC has prepared its combined financial statements by combining all its accounts of units / centers established under Ordinance No. 01 of 2002. This Units/ Centers consist of Undergraduate Unit (UG), Postgraduate Unit (PG), External Degree Centre (EDC), Computing Service Centre (CSC), e Learning Centre (eLC), Advance Digital Media Technology Centre (ADMTC), ICTer Conference and Common Project.

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 01 CASH AND CASH EQUIVALENTS

As at 31 st December	2020 Rs.	2019 Restated Rs.
SHORT TERM INVESTMENT		
Call Deposits - Undergraduate	32,000,000	10,000,000
Fixed Deposits - Postgraduate	22,527,817	20,941,750
Fixed Deposits - eLC	1,404,672	1,339,412
Fixed Deposits - ICTer	2,441,834	2,329,338
Fixed Deposits - Common Projects	4,510,348	4,208,498
Subtotal	62,884,671	38,818,999
BANK CURRENT ACCOUNTS		
Bank Balance - Undergraduate	16,891,607	16,158,777
Bank Balance - EDC	2,030,635	1,288,572
Bank Balance - Postgraduate	5,667,938	3,497,587
Bank Balance - CSC	3,023,032	3,330,405
Bank Balance - PDC	-	98,474
Bank Balance - ADMTC	1,259,822	2,633,780
Bank Balance - eLC	1,366,475	1,834,084
Bank Balance - ICTer	783,041	500,000
Bank Balance - Common Projects	6,876,829	3,426,307
Subtotal	37,899,380	32,767,986
TOTAL	100,784,050	71,586,986

As at 31 st December	Balance as at 01.01.2020 Rs.	Deposits During the Year Rs.	Withdrawals During the Year Rs.	Balance as at 31.12.2020 Rs.
NOTE 01.01 INVESTMENT - MATURE WITHIN ONE YEAR				
Undergraduate	13,373,583	1,365,861	-	14,739,444
Postgraduate	306,523,264	115,339,936	18,519,502	403,343,700
EDC	341,272,444	80,541,076	-	421,813,520
CSC	37,756,755	3,910,179	-	41,666,933
eLC	99,649,426	15,033,386	-	114,682,812
ADMTC	14,200,196	1,370,964	-	15,571,160
Common Projects	65,524,412	9,344,867	9,121,691	65,747,588
ICTer	4,531,684	1,819,448	-	6,351,132
Subtotal	882,831,764	228,725,717	27,641,193	1,083,916,289
NOTE 01.01 INVESTMENT - MATURE AFTER ONE YEAR				
eLC	200,000	-	-	200,000
Postgraduate	43,542,158	-	-	43,542,158

Subtotal	43,742,158	-	-	43,742,158
TOTAL	926,573,922	228,725,717	27,641,193	1,127,658,447

NOTE 1.02

Classification of the Investment in year 2019 has revised. Accordingly, less than three (03) months fixed deposits were classified under cash and cash equivalents. Maturity with in one year classified under Current Assets and Maturity after one year classified under Non-Current Assets. Accordingly, following Fixed Deposits have been removed from Cash & Cash Equivalents balance as at 31.12.2019.

NOTES TO THE FINANCIAL STATEMENTS

Unit	Fixed Deposit No.	Amount Rs.	Total Rs.
ADMTC	086-60-01-00008623-3	76,664	14,200,196
	086-60-01-00007167-7	582,870	
	086-60-01-00007397-9	274,780	
	086-60-01-00010286-7	2,704,887	
	086-60-01-00010287-6	2,704,887	
	086-60-01-00010288-5	5,356,107	
	086-60-01-00013080-9	1,000,000	
	086-60-01-00012852-7	1,500,000	
Postgraduate	086-60-01-00006605-9(R & D)	4,066,038	4,066,038
eLC	086-60-01-00006853-8	34,148,127	35,847,352
	086-6001-00008047-1	1,699,225	
ICTer	086-60-01-00007649-5	454,638	2,167,133
	086-60-01-00007650-1	454,638	
	086-60-01-00007651-0	454,638	
	086-60-01-00008284-3	803,219	

Accordingly, Changes to the Cash & Cash Equivalents in 2019 as follows.

	2019 Prior to Restate	Removed from Cash & Cash Equivalents	Added to Cash & Cash Equivalents	2019 Restated
Short Term Investment	Rs.	Rs.	Rs.	Rs.
Call Deposits - Undergraduate	10,000,000	-	-	10,000,000
Fixed Deposits - ADMTC	14,200,196	14,200,196	-	-
Fixed Deposits - Postgraduate	25,007,789	4,066,038	-	20,941,750
Fixed Deposits - eLC	37,186,764	35,847,352	-	1,339,412
Fixed Deposits - ICTer	4,496,471	2,167,133	-	2,329,338
Fixed Deposits - Common Projects	4,208,498	-	-	4,208,498
Subtotal	95,099,719	56,280,719	-	38,818,999
Bank current accounts				
Bank Balance - Undergraduate	16,158,777	-	-	16,158,777
Bank Balance - EDC	1,288,572	-	-	1,288,572
Bank Balance - Postgraduate	3,497,587	-	-	3,497,587
Bank Balance - CSC	3,330,405	-	-	3,330,405
Bank Balance - PDC	98,474	-	-	98,474
Bank Balance - ADMTC	2,633,780	-	-	2,633,780

Bank Balance - eLC	1,834,084	-	-	1,834,084
Bank Balance - ICTer	500,000	-	-	500,000
Bank Balance - Common Projects	3,426,307	-	-	3,426,307
Subtotal	32,767,986	-	-	32,767,986
TOTAL	127,867,705	-	-	71,586,986

NOTE 1.03

In addition, Following Fixed Deposits amounts indicated as at 31.12.2019 were transferred to Current Assets due to maturity is less than one year and balance remained under the Non-Current Assets due to maturity after one year as follows.

NOTES TO THE FINANCIAL STATEMENTS

Unit	Before Re-Classified	Transferred from Cash & Cash Equivalents	After re-classified	
			Total Amount transferred to Current Assets Rs.	Total Amount remained in the Non-Current Assets Rs.
Undergraduate	13,373,583	-	13,373,583	-
Postgraduate	345,999,384	4,066,038	306,523,264	43,542,158
EDC	341,272,444	-	341,272,444	-
CSC	37,756,755	-	37,756,755	-
eLC	64,002,074	35,847,352	99,649,426	200,000
ADMTC	-	14,200,196	14,200,196	-
ICTer	2,364,551	2,167,133	4,531,684	-
Common Project	65,524,412	-	65,524,412	-
Total	870,293,203	56,280,719	882,831,764	43,742,158

NOTE - 02 LOAN RECEIVABLES

As at 31st December

	Recover Within One Year	Recover after one Year 2019	Total 2019 Restated
	Rs.	Rs.	Rs.
Distress Loan	4,678,330	12,451,420	17,129,750
	29,000	47,500	
Computer Loan	29,000	47,500	76,500

	126,012	234,310	
Vehicle Loan	126,012	234,310	360,322
	4,080	21,080	
Staff Loan	4,080	21,080	25,160
TOTAL	4,837,422	12,754,310	17,591,732
As at 31st December	Recover Within One Year 2020	Recover after one Year 2020	Total 2020
	Rs.	Rs.	Rs.
Distress Loan	4,558,356	12,829,671	17,388,027
Computer Loan	18,000	41,000	59,000
Vehicle Loan	125,988	302,527	428,515
Staff Loan	6,120	30,260	36,380
TOTAL	4,708,464	13,203,458	17,911,922

02.01 RE-CLASSIFICATION OF LOAN RECEIVABLES

Previous year comparative figures have been re-classified for Loan Receivables to comply with SLPSAS. Accordingly, Loan Receivable Re Classified as follows.

NOTES TO THE FINANCIAL STATEMENTS

Loan Type	Recover Within One Year 2019	Recover after one Year 2019	Total 2019
	Rs.	Rs.	Rs.
Distress Loan	4,678,330	12,451,420	17,129,750
Computer Loan	29,000	47,500	76,500
Vehicle Loan	126,012	234,310	360,322
Staff Loan	4,080	21,080	25,160
Total	4,837,422	12,754,310	17,591,732

In 2019, Loan receivable has shown under the Current Assets and which was amounted Rs. 17,591,732.00. According to new classification Loan recovers within one year (Rs. 4,837,422.00) classified as Current Assets and Loan recover after one year (Rs. 12,754,310.00) Classified as Non-Current Assets.

NOTE - 03 OTHER RECEIVABLES, DEPOSITS AND PRE-PAYMENTS

As at 31st December

	2020 Rs.	2019 Restated Rs.
Festival Advances	9,400	22,900
Salary Advance	-	16,000
Special Advance	4,000	4,400
Supplies Advance	-	953,083
Miscellaneous Advance	151,000	-
Medical Interest Receivable	303,317	-
Deposits		
United Motors Ltd.	15,000	15,000
Associated Motorways Ltd	5,000	5,000

Lanka Communication Services (Pvt) Ltd	15,000	15,000
Sri Lanka Telecom - IDD - Telephone NO. 587239	20,000	20,000
Refundable Deposit -ANCL	97,500	97,500
Rent Deposit -Battaramulla Hostel	1,015,875	945,000
Rent Deposit -Kohuwala Hostel	-	120,000
Felix Perera & Sons- Fuel	85,275	85,275
Refundable Deposits	4,144,000	4,868,863
Water Mart Systems (Pvt) Ltd	16,000	16,000
<u>Other Receivables</u>		
Stamps	74,561	107,936
Sundry Receivable	7,123,723	3,314,633
Welfare Receivable	-	605,351
National Science Foundation	-	747,500
Dept. of Examination	-	900,025
Registrar General's Department	-	50
University Grant Commission	-	100,000
Registration Fee Receivable	-	3,000
Pre-payments	212,881	164,679
TOTAL	13,292,532	13,127,195

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 04 INTEREST RECEIVABLE

As at 31st December

	2020 Rs.	2019 Restated Rs.
Undergraduate	625,439	831,600
ADMTC	392,690	587,909
Postgraduate	41,782,966	37,449,169
EDC	33,270,552	31,541,315
CSC	974,491	1,330,300
eLC	2,498,708	3,247,284
Common Projects	2,408,094	3,717,866
ICTer	188,526	210,156
TOTAL	82,141,467	78,915,599

NOTE - 05 INVENTORIES

As at 31st December

	2020 Rs.	2019 Restated Rs.
Stationery - Central Stores	1,775,608	2,017,760
Stock of Fuel	158,054	66,271
TOTAL	1,933,662	2,084,031

NOTE - 06 REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS

<i>Cost:</i>	UCSC	MSc	EDC	ADMTC	Total
Balance as at 01.01.2020	51,432,205	5,033,170	7,190,242	7,794,779	71,450,396
Add: Purchases During the Year	3,384,986	-	-	-	3,384,986
Transferred To Undergraduate Units	-	(5,033,170)	(7,190,242)	(7,794,779)	(20,018,191)
Transferred From Other Units	20,018,191	-	-	-	20,018,191
Balance as at 31.12.2020	74,835,382	-	-	-	74,835,382
<i>Provision for Depreciation:</i>					
Balance as at 01.01.2020	17,005,877	5,033,170	3,595,120	6,722,998	32,357,166
Add: Depreciation During the Year	3,067,666	-	-	-	3,067,666
Transferred To Undergraduate Units	-	(5,033,170)	(3,595,120)	(6,722,998)	(15,351,288)
Transferred From Other Units	15,351,288	-	-	-	15,351,288
Balance as at 31.12.2020	35,424,831	-	-	-	35,424,832
Net Book Value as at 31.12.2020	39,410,551	-	-	-	39,410,551
Net Book Value as at 31.12.2019	34,426,328	-	3,595,122	1,071,781	39,093,231

NOTES TO THE FINANCIAL STATEMENTS

	Canteen Building	Outdoor Pavilion	Toilet Block	Air Conditioner-Administration	Research Floor Area	Interior Design for Lab	Fire Protection System	Total Rs.
Balance as at 01.01.2020	62,000	9,679,276	550,000	1,467,276	519,000	100,000	18,000	12,395,552
Add: Additions During the Year	-	4,176,042	7,090,116	2,950,094	5,059,812	4,000	4,474,634	23,754,698
Less: Transferred to Property, Plant & Equipment	-	(13,855,318)	-	(4,417,370)	-	-	-	(18,272,688)
Balance As at 31.12.2020	62,000	-	7,640,116	-	5,578,812	104,000	4,492,634	17,877,561

NOTE - 08 LIBRARY BOOKS & PERIODICALS

	Library Books & Periodical s Rs
Cost:	
Balance as at 01.01.2020	11,514,576
Add: Purchases During the Year	1,197,089
Error Adjustment	1,238
Less: Disposal During the Year	-
Balance as at 31.12.2020	12,712,904
<i>Provision for Depreciation:</i>	
Balance as at 01.01.2020	9,878,804
Add: Depreciation During the Year	713,709
Error Adjustment	1,238
Transferred From Other Units	-
Less: Disposal During the Year	-
Balance as at 31.12.2020	10,593,752
Net Book Value as at 31.12.2020	2,119,153
Net Book Value as at 31.12.2019	1,635,773

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 09 PROPERTY, PLANT AND EQUIPMENT

Description	Laboratory & Teaching Equipment	Furniture & Fittings	Office Equipment	Motor Vehicles	Buildings	Electricity Connection-	Water Supply System	Total
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Cost:								
Balance as at 01.01.2020	333,173,697	68,556,082	273,177,029	12,204,894	530,500,439	24,023,353	22,808,402	1,264,443,897
Add: Purchases During the Year	1,588,320	1,310,710	10,349,161	-	-	-	-	13,248,191
Transferred with in Categories	21,990,279		(21,990,279)	-	-	-	-	-
Transferred From Working Porgress	-	-	4,417,370	-	13,855,318	-	-	18,272,688
Addition due to Revaluation	-	-	-	10,425,000	-	-	-	10,425,000
Less: Disposal During the Year	(1,305,151)	(654,032)	(4,625,930)	-	-	-	-	(6,585,113)
Transferred Due to Revaluation	-	-	-	(11,179,894)	-	-	-	(11,179,894)
Balance as at 31.12.2020	355,447,145	69,212,760	261,327,351	11,450,000	544,355,757	24,023,353	22,808,402	1,288,624,769
Provision for Depreciation:								
Balance as at 01.01.2020	269,861,761	30,285,210	172,483,401	10,579,895	89,782,354	309,342	2,280,840	575,582,803
Add: Depreciation During the Year	24,595,567	5,789,092	29,791,480	600,000	27,217,786	2,402,336	2,280,840	92,677,100
Transferred with in Categories	17,717,765	-	(17,717,765)	-	-	-	-	-
Less: Disposal During the Year	(1,305,151)	(587,212)	(4,606,649)	-	-	-	-	(6,499,012)
Transferred Due to Revaluation	-	-	-	(11,179,894)				(11,179,894)
Balance as at 31.12.2020	310,869,941	35,487,090	179,950,465	-	117,000,140	2,711,678	4,561,680	650,580,994
Net Book Value as at 31.12.2020	44,577,205	33,725,671	81,376,886	11,450,000	427,355,617	21,311,675	18,246,722	638,043,775
Net Book Value as at 31.12.2019	63,311,936	38,270,872	100,693,628	1,625,000	440,718,085	23,714,011	20,527,562	688,861,095

Entire Class of Motor Vehicles were revalued during the year 2020 and Revalued details are as follows.

Vehicle No.	Revalued Amount Rs.
WP NA 8428	4,600,000
WP GF 5434	4,100,000
WP CAV 7215	2,750,000
Total	11,450,000

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 10 INTANGIBLE ASSETS

	2020 Rs.	2019 Restated Rs.
Software		
Cost:		
Balance as at 01.01.2020	36,104,346	16,863,111
Acquired/ Transferred During the Year	-	-
Disposal During the Year	-	-
Balance as at 31.12.2020	36,104,346	36,104,346
Amortization:		
Balance as at 01.01.2020	16,627,945	12,370,200
Acquired/ Transferred During the Year	-	-
Amortized During the Year	4,896,078	4,257,745
Disposal During the Year	-	-
Balance as at 31.12.2020	21,524,023	16,627,945
Net Value as at 31.12.2020	14,580,323	19,476,401

NOTE - 11 OTHER CURRENT LIABILITIES

As at 31st December

	2020 Rs.	2019 Restated Rs.
Stamp Duty Payable	16,325	19,300
Prof. Athula Ginige A/C	389,911	389,911
PAYE/ APIT Tax Payable	-	46,230
WHT Payable	-	12,200
Amalgamated Club Fee	490,300	304,900
Student Union	966,651	781,251
Student Charter Fee	58,700	29,500
VSS Grant Received	21,000	21,000
Refundable Library Deposits - M.Sc.	4,110,000	5,857,500
Refundable Library Deposits - M.Phil	77,500	77,500
Other Refundable Deposits	129,000	129,000
Refundable Bid Security	45,000	25,000
Career Fair	98,349	98,349
NOC Payable	423,500	423,500
Provision for Audit Fee	2,544,675	2,279,675
Salaries Payable	4,663,570	3,126,089
Other Accrued Expenses & Payables	12,618,497	19,898,870
University Provident Fund Payable	921,591	803,734
Staff Insurance Recovery	100,885	16,370
Medical Fee	2,175,301	1,711,801
HETC Project Advance	3,616,245	3,616,245
CDF Allocation	-	81,000
Employees' Trust Fund Payable	143,224	96,448
Employees' Provident Fund Payable	130,873	-
Provision for Electricity	1,342,332	2,400,000
Welfare Allocation	2,015,750	-
Annual Maintenance Fee	1,544,000	-
Payable to Faculty of Science - UOC	2,464,689	-
Provision for Rent - Kohuwala Hostel	629,000	-
Provision for Telephone Bills	56,840	-
Provision for Fuel Rent	22,700	-
	232,160	195,088

NOTES TO THE FINANCIAL STATEMENTS

Cancelled Cheque

Provision for Cleaning Service	-	440,762
Canteen Deposit	75,000	75,000
TOTAL	42,123,569	42,956,224

NOTE - 12 DEFERRED INCOME

As at 31st December

	2020 Rs.	2019 Restated Rs.
Advance Received on Courses	139,367,003	64,828,500
Library Fee Received in Advanced	960,000	3,656,250
Total	140,327,003	68,484,750

NOTE 12.1 DEFERRED INCOME UNDER CURRENT LIABILITY

Advance Received on Courses	119,975,336	46,918,500
Library Fee Received in Advanced	960,000	2,696,250
Total	120,935,336	49,614,750

NOTE 12.2 DEFERRED INCOME UNDER NON-CURRENT LIABILITY

Advance Received on Courses	19,391,667	17,910,000
Library Fee Received in Advanced	-	960,000
Total	19,391,667	18,870,000

NOTE 12.3

Advance Course Income received which is included under the Current Liabilities in year 2019 was re-classified as deferred Income. The details are as follows.

Unit	Liability	Amount Rs.	Deferred Income Under Current Liability Rs.	Deferred Income Under Non-Current Liability Rs.
M.Sc.	M.Sc. Advance Course Fee year 2018/2019	10,182,500	10,182,500	-
	M.Sc. Advance Course Fee year 2019/2020	53,730,000	35,820,000	17,910,000
	M.Sc. Library Fee Received in Advanced	3,656,250	2,696,250	960,000
CSC	Advance Course Fee	791,000	791,000	-
ADMTC	Advance Course Fee	125,000	125,000	-
Total		68,484,750	49,614,750	18,870,000

NOTES TO THE FINANCIAL STATEMENTS

Accordingly, Advance Course fee for the year has been reduced by Rs. 68,484,750 and deferred income under current liability has been increased by 49,614,750 and deferred income for non-current liability has been increased by Rs. 18,870,000 in 2019.

Rs. 54,073,499.00 has been deferred in EDC Unit due to examinations were not conducted during the year 2020.

NOTE - 13 PROVISION FOR GRATUITY

As at 31 st December	Undergraduate Rs	EDC Rs	CSC Rs	eLC Rs	Total Rs
Balance as at 01.01.2019	45,549,965	211,050	15,040	215,378	45,991,433
Additions During the Year	61,326,810	103,048	20,554	41,518	61,491,930
Payments During the Year	(5,027,861)	-	-	-	(5,027,861)
Balance as at 31.12.2019	101,848,915	314,098	35,594	256,896	102,455,503
Adjustments / Transferred During the Year	349,692	(314,098)	(35,594)	(37,686)	(37,687)
Additions During the Year	12,893,778	-	-	-	12,893,778
Payments During the Year	(2,492,166)	-	-	-	(2,492,166)
Balance as at 31.12.2020	112,600,218	-	-	219,210	112,819,428

The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows, using interest rates that are denominated in the currency in which the benefits will be paid and that have terms to maturity approximating to the terms of the related liability. The present value of the defined benefit obligations depends on a number of factors that are determined on an actuarial basis using a number of assumptions about discount rate, future salary increments and mortality rates. Due to the long-term nature of these plans, such estimates are subject to significant uncertainty.

All assumptions are reviewed at each reporting date. Accordingly, the employee benefit liability is based on the actuarial valuation as of 31st December 2020. The UCSC's accounting policy for gratuity is to recognize actuarial gains and losses in the period in which they occur in full in the statement of Financial Performance.

Actuarial and Management Consultant (Pvt) Ltd, qualified actuaries has done actuarial valuation on the defined benefit plan – Gratuity as at 31-12-2020. The assumptions used in determining the cost of retirement benefits are as follows.

Retiring Gratuity Formula: Half month's Salary plus Allowance for each completed year of service for those with at least 5 years' service.

NOTES TO THE FINANCIAL STATEMENTS

Mortality: A 1967/70 Mortality Table

Disability: 10% of the Mortality Table

Staff Turnover Rates: Permanent Staff: 2.00% p.a. and Contract Staff as given in the Annex

Contract Staff: Staff Turnover Rate

AGE GROUP	RATE
XV: 18 to 34	25%
XV: 35 to 44	15%
XV: 45 to 54	5%

And thereafter Zero.

Rate of discount 08% p.a.

Rate of salary Escalation

Academic staff 7.50% p.a.

Academic Support Staff 7.00% p.a.

Non-Academic staff 6.50% p.a.

Retirement age

Academic Staff 65 yrs.

Non-Academic staff 60 yrs.

(The employee who are aged over the specified retirement age have been assumed to retire on their respective next birthday)

Defined Obligations

Sensitivity analysis to discount rate –

One percentage point increase (+1%) in Discount Rate Rs. 104,283,312

One percentage point decrease (-1%) in Discount Rate Rs. 122,613,401

Sensitivity analysis to salary & Allowance increment rate –

One percentage point increase (+1%) in Discount Rate Rs. 122,520,912

One percentage point decrease (-1%) in Discount Rate Rs. 104,202,689

NOTES TO THE FINANCIAL STATEMENTS

Actuarial valuation is done for the year 2020 and accounting policy has been changed due to this treatment. Accordingly, Gratuity is adjusted on prospectively. As a results of actuarial valuation Gratuity Expense has been reduced up to 12.9 Mn. with compare to 61.3 Mn. in last year.

NOTE - 14

NOTE - 14 (A) CAPITAL GRANT UNSPENT

As at 31st December

CAPITAL GRANT - 101 ACCOUNT -UNSPENT REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS

	2020 Rs.	2019 Restated Rs.
Opening Balance	-	-
Capital Grant Received	15,000,000	36,750,000
	15,000,000	36,750,000
Expenditure incurred	(15,000,000)	(33,090,957)
Transfer to Acquisition of Property, Plant & Equipment	-	(2,767,073)
Transfer to operating Revenue	-	(891,970)
Subtotal	-	-

CAPITAL GRANT - 102 ACCOUNT-UNSPENT ACQUISITION OF FIXED ASSETS AND CONSTRUCTIONS

Opening Balance	724,862	894,512
Grant Transferred	-	2,767,073
Capital Grant Received	8,000,000	32,250,000
	8,724,862	35,911,586
Expenditure Incurred	(8,724,862)	(35,186,723)
Subtotal	-	724,862

GENERATED FUNDS FOR CAPITAL- UNSPENT

	943,628	3,288,627
Opening Balance		
Capital Grant Received	19,371,000	30,861,804
	20,314,628	34,150,431
Expenditure Incurred	(17,850,601)	(33,206,802)
Subtotal	2,464,028	943,628
GRAND TOTAL OF GOVT. GRANT AND GEN. FUND CAPITAL GRANT UNSPENT AS AT 31.12.2020	2,464,028	1,668,491

NOTE - 14 (B) PROJECT GRANTS - UNSPENT

As at 31st December

PROJECT GRANTS - UNSPENT

Opening Balance

Grant Received during the year

Less: Grant spent During the Year

Subtotal

GRAND TOTAL OF PROJECT GRANTS UNSPENT AS AT 31.12.2020

2020 Rs.	2019 Restated Rs.
9,389,299	12,067,546
2,100,000	17,594,765
11,489,299	29,662,311
(5,696,601)	(20,273,012)
5,792,698	9,389,299
5,792,698	9,389,299

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 15

NOTE - 15 (A) CAPITAL GRANT - 101 ACCOUNT - SPENT

As at 31st December

CAPITAL GRANT - 101 ACCOUNT - SPENT

REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS

Opening Balance

Expenditure Incurred

Amortisation During the Year

Subtotal

2020 Rs.	2019 Restated Rs.
123,732,617	91,764,819
15,000,000	33,090,957
138,732,617	124,855,776
(1,290,427)	(1,123,159)
137,442,190	123,732,617

CAPITAL GRANT - 102 ACCOUNT- SPENT

ACQUISITION OF FIXED ASSETS AND CONSTRUCTIONS

Opening Balance

Expenditure Incurred

Amortisation During the Year

Subtotal

345,620,645	370,574,046
8,724,863	35,186,723
354,345,507	405,760,769
(61,103,745)	(60,140,125)
293,241,762	345,620,645

GENERATED FUNDS FOR CAPITAL- SPENT

Opening Balance

Transferred to General Reserve

Transferred to Undergraduate Current A/C

Expenditure Incurred

Amortisation During the Year

Subtotal

330,824,481	297,617,679
(10,079,154)	-
(106,821)	-
17,850,601	33,206,802
338,489,109	330,824,481
-	-
338,489,109	330,824,481

IT GRANT - SPENT

Opening Balance	709,081	1,791,474
Expenditure Incurred	-	-
	709,081	1,791,474
Amortisation During the Year	(709,081)	(1,082,393)
Subtotal	-	709,081
TOTAL CAPITAL GRANT SPENT AS AT 31.12.2020	769,173,061	800,886,824

NOTE - 15 (B) PROJECT GRANTS - SPENT

As at 31st December

PROJECT GRANTS - SPENT

IDRC PROJECT CAPITAL GRANT - SPENT

Opening Balance

Subtotal

2020 Rs.	2019 Restated Rs.
978,477	978,477
-	-
978,477	978,477

COMMON PROJECT/ OTHER GRANTS - SPENT

Opening Balance

Transferred to General Reserve

7,242,844	7,321,259
(3,376,881)	-

NOTES TO THE FINANCIAL STATEMENTS

Transferred to Undergraduate Current A/C

Spent During the Year

Amortisation During the Year

Subtotal

SUB TOTAL

UGC GRANT- SPENT

Opening Balance

Spent During the Year

Amortisation During the Year

Subtotal

NeLC GRANT - SPENT

Opening Balance

Amortisation During the Year

Subtotal

NeLC GRANT - VEHICLE - SPENT

TOTAL PROJECT GRANTS AS AT 31.12.2020

(2,076,373)	-
9,500	677,290
1,799,090	7,998,549
(566,174)	(755,705)
1,232,917	7,242,844
-	-
132,652	166,582.36
-	-
132,652	166,582
(33,930)	(33,930)
98,722	132,652
-	-
71,855	147,924
(71,855)	(76,070)
-	71,855
2,310,116	8,425,828

NOTE - 16 RESERVES

As at 31st December

Balance as at 01.01.2020

Prior Year Adjustments

Adjustment for Provision of Gratuity

Transfer Net Assets Value to Undergraduate Unit

Transfer from Capital Grant Spent

Surplus / (Deficit) for the Year

Balance as at 31.12.2020

2020 Rs.	2019 Restated Rs.
537,273,315	468,413,543
(1,036,237)	(1,220,097)
37,686	-
2,182,536	-
13,456,694	-
104,152,312	70,079,870
656,066,307	537,273,315

NOTE - 17 RESTRICTED FUNDS

As at 31st December

BIT Award

Allocation for BIT Development

Prof V.K. Samaranayaka Award

Prof V.K. Samaranayaka Endowment Fund

Doner Fund for Disable Student

Allocation for Research & Development

JICA Award

THA De Zoysa Award

Allocation for Equipment Replacement

Best e Lerner Award

Staff Development Allocation

Virtusa Academic Excellence

Sheoria Robustra Scholarship - 1

Sheoria Robustra Scholarship - 2

2020 Rs.	2019 Restated Rs.
55,669	50,780
32,742,968	23,543,418
248,635	239,645
17,879,683	16,264,948
30,054	30,054
150,240,497	143,581,966
164,078	164,928
251,612	226,504
2,315,411	2,318,411
319,622	310,618
16,052,618	15,162,308
339,577	311,506
820,961	725,920
819,756	762,790

NOTES TO THE FINANCIAL STATEMENTS

Allocation for Student's Distress Fund

Best Performance Award -Motorola

Best Performance Award -IFS

Best Performance Award -Sampath Bank

Prof.Mohan Munasinghe Award -1

Prof.Mohan Munasinghe Award -2

CINTEC Award

David Peiris Medal

Mrs. Soma Gunathilake Memorial Award

Mrs. Wimala Jayarathne Memorial Award

Scholarship from Other Parties

Bond Value Recovery A/C

Allocation Medical Scheme

Allocation for UCSC Infrastructure Development

TOTAL

6,816,833	6,543,864
174,305	166,355
169,127	161,177
174,549	166,649
72,329	69,339
70,171	66,849
129,399	123,656
767,590	733,871
265,144	244,498
275,212	254,299
34,500	84,850
17,790,425	17,664,425
8,513,470	8,359,489
4,548,580	8,131,384
262,082,777	246,464,503

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 18 - INTER UNIT CURRENT ACCOUNTS

Unit	Undergraduate	ADMTC	Postgraduate	EDC	CSC	ICTer	eLC	Projects (Common)	Total
Debit Entries									
Undergraduate	-	-	186,090,055	115,975,456	28,405,767		2,490,425	-	332,961,704
Postgraduate	-	224,750	-	-	5,545,063	-	-	19,250	5,789,063
EDC	-	-	5,586,601	-	-	-	18,130,746	10,500	23,727,847
CSC	-	-	-	6,662,123	-	-	172,000	1,303,402	8,137,525
ADMTC	7,386,589	-	-	2,008,558	557,952	-	-	23,257	9,976,356
eLC	-	2,500	-	-	-	-	-	654,093	656,593
ICTer	190,301	-	100,000	-	-	-	5,000	-	295,301
Projects (Common)	34,235	-	-	-	-	-	-	-	34,235
Total	7,611,125	227,250	191,776,656	124,646,136	34,508,783	-	20,798,171	2,010,502	381,578,623
Credit Entries									
Undergraduate	-	7,386,589	-	-	-	190,301	-	34,235	7,611,125
Postgraduate	186,090,055	-	-	5,586,601	-	100,000	-	-	191,776,656
EDC	115,975,456	2,008,558	-	-	6,662,123	-	-	-	124,646,136
CSC	28,405,767	557,952	5,545,063	-	-	-	-	-	34,508,783
eLC	2,490,425	-	-	18,130,746	172,000	5,000	-	-	20,798,171
ADMTC	-	-	224,750	-	-	-	2,500	-	227,250
Projects (Common)	-	23,257	19,250	10,500	1,303,402	-	654,093	-	2,010,502
ICTer	-	-	-	-	-	-	-	-	-
Total	332,961,703	9,976,356	5,789,063	23,727,847	8,137,525	295,301	656,593	34,235	381,578,623

NOTES TO THE FINANCIAL STATEMENT

NOTE - 19 - SEGMENT INFORMATION

Year Ended 31 st December 2020	Undergraduate (UG)	Postgraduate (PG)	EDC	CSC	eLC	ADMTC	Common Projects	ICTer	Total
Revenue	357,880,000	99,397,546	32,129,900	4,679,000	6,758,945	2,896,500	7,456,517	967,500	512,165,908
Interest Income	3,971,048	27,660,039	38,262,875	3,554,370	8,953,453	1,175,745	3,046,562	552,389	87,176,481
Deferred Income	63,775,211	-	-	-	-	-	-	-	63,775,211
Other Income	42,754,866	3,392,766	1,692,489	9,800,381	3,853,950	212,157	291,501	-	61,998,110
Total Revenue	468,381,125	130,450,351	72,085,263	18,033,751	19,566,348	4,284,402	10,794,580	1,519,889	725,115,710
Personnel Emoluments	263,199,576	381,783	2,027,894	627,477	2,323,004	153,276	-	-	268,713,010
Travelling	126,512	5,085	3,806	35,007	1,955	2,070	-	320	174,755
Supplies	6,558,788	268,047	1,045,743	449,275	22,850	39,505	-	-	8,384,208
Contractual Services	32,630,031	242,375	600,266	96,383	233,280	88,933	-	8,264	33,899,532
Retirement Benefits	52,853,604	-	171,782	107,546	193,388	-	66,952	-	53,393,272
Other Recurrent Expenditure	18,566,439	50,684,886	55,442,418	15,804,355	2,471,887	3,196,265	8,148,479	729,340	155,044,069
Depreciation & Amortization	101,274,049	-	-	-	80,502	-	-	-	101,354,551
Total Expenses	475,208,998	51,582,176	59,291,910	17,120,043	5,326,866	3,480,049	8,215,431	737,924	620,963,396
<i>Surplus/ (Deficit)</i>	<i>(6,827,872)</i>	<i>78,868,174</i>	<i>12,793,353</i>	<i>913,708</i>	<i>14,239,482</i>	<i>804,353</i>	<i>2,579,148</i>	<i>781,965</i>	<i>104,152,312</i>
Total Assets	813,544,127	708,641,234	581,957,869	82,843,358	141,273,347	17,450,922	81,856,677	9,764,533	2,437,332,067
Total Liabilities	472,834,947	102,990,483	77,934,756	8,838,105	5,260,127	10,281,381	6,758,619	458,456	685,356,873

NOTES TO THE FINANCIAL STATEMENTS

Undergraduate Programme (UG)- This consists undergraduate academic activities of the UCSC.

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

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

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

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

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

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

Professional Development Center (PDC) - This unit established to ensure the quality of career competencies of UCSC undergraduates by enhancing professional skills, morality, ethical awareness and ethical behavior. The center will offer training/awareness programs for UCSC undergraduates on current trends in the IT industry, industrial practices and career paths in various disciplines. All the Assets and Liabilities of The PDC Center was transferred to Undergraduate unit in year 2020 with the approval of the Board of Management.

Common Projects - This unit consists of various external project related activities.

Total Assets and Total Liabilities of the segment report included intercompany current Account Balances.

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 20 OTHER DISCLOSURES

20.1 UCSC is an Institute which established under Ordinance No. 01 of 2002 and located inside the premises of University of Colombo. The Address of the land is No. 35, Reid Avenue, Colombo 07. This land is belonging to University of Colombo, 94, Cumaratunga Munidasa Mawatha. Colombo 03. Hence, University of Colombo School of Computing has not recognized land value in the books of accounts.

20.2 There are no material events occurring after the reporting period that require adjustment or disclosure in the financial statements

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

S/N	Name of the Complainer	Case	Case Filed by	Court	Current status
1	Mr. SADSP Jayathilaka Lecturer (Probationary)	LT2/ 473/2014	Mr. SADSP Jayathilaka	Labour Tribunal	Case Lay-by
2	Mr. S D Muthukudaarachchi Electrician Gr. II	LT8/857/2015	Mr. SD Muthukudaarachchi	Labour Tribunal	Case lay – by
3	Mr. S D Muthukudaarachchi Electrician Gr. II	1. MC204024/01/2015 2.. 41685/01/2015 3. 41686/01/2015	Fraud Bureau	Colombo Chief Magistrate's Courts	Next hearing date will be 03.02.2021. In 03.02.2021 the Case was postponed to 19.05.2021 for record of the evidence of the 3rd witness.
4	Mr. S J Paheerathan Lecturer (Probationary)	DMR/07902/10	UCSC	District Court Colombo	Next hearing date of this case is 27.01.2021. In 27.01.2021 the case was postponed to 27. 03. 2021.

S/N	Name & Designation of Bond Violator	Nature of Termination & Date of Termination	Bond Value (Rs.)	Total Value of Bond & Other Dues to the UCSC (Rs.)	Amount Received as at 31.12.2020(Rs.)	Due amount as at 31.12.2020 (Rs.)
1.	Mr. SJ Paheerathan Lecturer	Vacation of Post 11.01.2004	3,221,250.55	3,225,956.96 The due amount excluding UPF loan balance of Rs. 389,880.00) 3,615,837.00 (the due amount including UPF loan of Rs. 389,880.00+ Distress loan Rs. 137,648.00+ salary lieu in notice Rs. 46,710.00+Library books Rs.128,551.25)	1,949,094.59 (the amount recovered to UCSC from his available UPF balance after deducted the UPF loan balance of 389,880.00)	1,276,862.41 (without any interest)
2.	Mr. R Senanayake Lecturer (Probationary)	Vacation of Post w.e.f 01.01.2006	641,007.15	798,588.54 (Revised bond value according to the personal file - Rs. 716,831.40+ salary lieu in notice Rs.81,757.14)	510,175.01	288,413.53 (without interest)
3.	Mr.HM Siriwardhana Lecturer Probationary	Vacation of Post w.e.f. 01.01.2018	2,619,437.40	4,781,357.50	Gratuity was calculated and amount of Rs.271,650.00 has kept under UCSC.	5,004,557.50

NOTES TO THE FINANCIAL STATEMENTS

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

NOTE - 21 RELATED PARTY TRANSACTION

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

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 22 CORRECTION OF ACCOUNTING ERRORS

The Amount of Rs. 724,862.50 paid to Colombo Municipal Council as Security deposit was capitalized and the error was identified in year 2020. Accordingly, UCSC has restated the comparative amounts for prior period presented in which the error occurred. The effects of Financial statement in year 2019 is as follows.

Description	Previous Balance Rs.	Effect Rs.	Corrected Balance Rs.
Decrease in Electricity Connection Cost	24,748,215.63	(724,862.50)	24,053,353.13
Increase in Refundable Deposit	4,135,000.00	724,862.50	4,859,863.00
Decrease in Depreciation for Electricity Connection	318,675.65	(9,333.85)	309,341.80
Decrease in Provision for Electricity Connection Depreciation	318,675.65	(9,333.85)	309,341.80
Decrease in Deferred Income	62,388,941.00	(9,333.85)	62,379,607.00
Increase in Capital Grant Spent 102	345,611,310.76*	9,333.85	345,620,644.61
Increase Capital Grant Unspent 102 balance as at 01.01.2019**	169,649.82	724,862.50	894,512.32
Decrease Capital Grant Spent 102 balance as at 01.01.2019**	371,298,908.83	(724,862.50)	370,574,046.33
Decrease in Undergraduate Unit Deficit during the year 2019	(46,900,440.00)	(9,333.85) +9,333.85	(46,900,440.00)

* After adjusted Rs. 724,862.50

** Due to this effect balance as 31.12.2019 also affected by the same amount. Accordingly, Capital Grant unspent balance as at 31.12.2019 is Rs. 724,862.50 and Capital Grant Spent balance as at 31.12.2019 is 345,620,644.61.

Graphic Design Course fee of the ADMTC Unit has been restated by Rs.125,000.00 for the year 2019 and as a results Graphic Design Course Income and Surplus for the year has been increased by Rs. 125,000.00. This income previously recognized to Advance course fee Income (Deferred Income) The effects of Financial statement in year 2019 is as follows.

NOTES TO THE FINANCIAL STATEMENTS

Description	Previous Balance Rs.	Effect Rs.	Corrected Balance Rs.
Increased Graphic Design Course Fee Income	3,200,000.00	125,000.00	3,325,000.00
Decreased Advance Course Fee (Deferred Income)	250,000.00	(125,000.00)	125,000.00
Increased ADMTC Unit Surplus	2,018,950.00	125,000.00	2,143,950.00

NOTE - 23 TRANSFER CENTER ASSETS TO UNDERGRADUATE UNIT

Following Assets Values, Provision for Depreciation, Revaluation Reserve, Remaining Net Assets Value (General Reserves) or Capital grant spent balances (Treasury Grant and Projects) as at 31.12.2019 was transferred to Undergraduate Unit with effect from 01.01.2020 on prospective basis. This is impact only to individual unit accounts and no impact to the combined account.

Unit	Assets Category	Assets Value as at 31.12.2019 Rs.	Provision for Depreciation Balance as at 31.12.2019 Rs.	Net Assets Value Rs.	Total Net Assets Value of the Unit Rs.	Revaluation Reserve as at 31.12.2019 Rs.
Postgraduate	Lab. & Technical	2,582,636	2,545,389	37,246	1,465,354	-
	Furniture & Fittings	5,304,027	3,896,792	1,407,235		
	Office Equipment	1,361,332	1,361,332	-		
	Library Books	284,700	263,828	20,873		
	Rehabilitation of Capital Assets	5,033,170	5,033,170	-		
EDC	Lab. & Technical	433,833	433,833	-	3,779,932	3,000,000
	Furniture & Fittings	925,790	843,169	82,621		
	Office Equipment	20,071,589	19,969,401	102,187		
	Motor Vehicles	3,000,000	3,000,000	-		
	Library Books	141,622	141,622	-		
CSC	Rehabilitation of Capital Assets	7,190,242	3,595,120	3,595,122	106,821	-
	Lab. & Technical	32,852,408	32,852,408	-		
	Furniture & Fittings	2,681,761	2,574,940	106,821		
	Office Equipment	4,984,277	4,984,277	-		
	Library Books	487,615	487,615	-		
E Learning	Furniture & Fittings	913,713	806,438	107,275	670,854	-
	Office Equipment	18,334,697	17,771,118	563,579		
	Library Books	788,098	788,098	-		

NOTES TO THE FINANCIAL STATEMENTS

Unit	Assets Category	Assets Value as at 31.12.2019 Rs.	Provision for Depreciation Balance as at 31.12.2019 Rs.	Net Assets Value Rs.	Total Net Assets Value of the Unit Rs.	Revaluation Reserve as at 31.12.2019 Rs.
ADMTC	Lab. & Technical	128,164,520	128,164,520	702,971	2,075,714	-
	Furniture & Fittings	2,160,390	2,160,390	-		
	Office Equipment	5,801,229	5,500,267	300,962		
	Rehabilitation of Capital Assets	7,794,779	6,722,998	1,071,780		
Common Projects	Furniture & Fittings	957,586	956,928	658	1,790,248	-
	Office Equipment	19,773,031	17,983,440	1,789,590		
	Library Books	219,783	219,783			
ICTer	Office Equipment	250,500	127,267	123,233	123,233	

NOTE - 24 SUSTAINABLE DEVELOPMENT GOALS DISCLOSURE

24.1 Sustainable Development Agenda Goal No. 01. No Poverty, fulfills the most basic needs. To achieve this goal Mahapola Trust Fund granted scholarships to 360 undergraduates amounting to Rs. 15.9 Mn. The University Grants Commission granted Bursaries to 58 undergraduates amounting Rs. 4.4Mn. and UCSC granted 38 scholarships for the undergraduates amounting Rs. 1.63Mn. in the year 2020 for those who were in the lower income level.

24.2 Programms were initiated to provide Good Health and Wellbeing to the UCSC staff 121 No. of employees benefitted under staff medical welfare scheme in 2020 by spending Rs. 4.9Mn. This covers the Sustainable Development Agenda Goal No. 03, Good Health and Well-Being.

24.3 A Successful Sustainable Development Agenda Goal No. 08 Decent work and Economic Growth requires decent work opportunities for people to stimulate the economy. Accordingly, in the year 2020 University of Colombo School of Computing provided higher education for 928 youth in the country and UCSC invested an average of Rs.552,145 per Student.

24.4 To provide good quality education for youth and the UCSC sustainability increased well qualified teachers by facilitating teacher training through International Corporation and Collaboration. In 2020 UCSC has spent Rs. 6.53 Mn. for research work. This covers Sustainable Development Agenda Goal No. 04, Quality Education.

NOTES TO THE FINANCIAL STATEMENTS

24.5 To provide quality education for youth and the UCSC sustainability, increased its infrastructure facilities refurbishment and renovation of existing building, facilities, etc. Accordingly, UCSC has spent Rs. 3.38 Mn. for Renovation and Rs. 24.0 Mn. for other infrastructure facilities during the year. This also covers Sustainable Development Agenda Goal No. 04, Quality Education.

NOTE - 25 INTEREST INCOME

For the year ended 31st December

	2020 Rs	2019 Restated Rs.
Interest on Loan and Advances	728,523	640,341
Interest on Investment	1,032,542	680,137
Overnight Repo Interest Income	2,209,983	2,084,206
TOTAL	3,971,048	3,404,684

NOTE - 26 OTHER INCOME

For the year ended 31st December

	2020 Rs	2019 Restated Rs.
Miscellaneous Receipts	407,545	347,586
Cloak Returning Penalty	-	9,900
Selection Test Fees	2,437,000	1,815,000
Undergraduate Registration & ID Fee	629,200	427,650
Library Fine	5,913	19,765
Certificate Fee	567,724	390,684
Examination Fees	22,375	23,500
Hostel Fee	-	56,150
Library Fine	438,000	270,000
General Convocation	-	592,500
Liquidated Damages	-	44,250
Retention Money-Wijaya Construction	-	1,075,705
Supplier Registration Fee	328,000	236,000
Rent Income	-	12,000
Non-Refundable Bid Deposits	79,000	198,500
TOTAL	4,914,758	5,519,190

NOTE - 27 PERSONAL EMOLUMENTS

For the year ended 31st December

Personal Emoluments - Academic

	2020 Rs	2019 Restated Rs.
Salaries and Wages	75,571,178	63,749,195
Adjustment Allowance	-	395,961
Other Allowance	2,662,143	2,035,708
Academic Allowance	68,873,964	61,969,883
Special Allowance	9,320,191	8,759,610
Research Allowance	15,366,031	14,870,626
Cost of Living Allowance	8,321,717	7,791,860
Subtotal	180,115,224	159,572,844

NOTES TO THE FINANCIAL STATEMENTS

Personal Emoluments - Non Academic

Salaries and Wages	48,657,170	42,700,055
Overtime & Holiday Pay	2,346,230	2,884,090
Monthly Compensation Allowance (MCA)	15,102,719	12,733,301
Other Allowance	161,359	34,207
Special Allowance	6,664,803	5,631,369
Research Allowance	2,465,855	2,407,466
Cost of Living Allowance	7,686,216	7,692,986
Subtotal	83,084,352	74,083,473
TOTAL	263,199,576	233,656,316

NOTE - 28 TRAVELING EXPENSES

For the year ended 31st December

	2020 Rs	2019 Restated Rs.
Travelling Expenses - Local	126,512	220,158
Travelling Expenses- Foreign	-	878,293
TOTAL	126,512	1,098,450

NOTE - 29 SUPPLIES

For the year ended 31st December

	2020 Rs	2019 Restated Rs.
Stationery & Office Requisites	5,987,937	7,020,409
Fuel & Lubricants	425,462	670,841
Uniforms & Tailoring Charges	5,400	7,200
Mechanical & Electrical Goods	139,989	133,243
TOTAL	6,558,788	7,831,693

NOTE - 30 CONTRACTUAL SERVICES

For the year ended 31st December

	2020 Rs	2019 Restated Rs.
Maintenance - Vehicles	356,704	352,840
Maintenance - Plant Machinery and Equipment	3,404,033	4,067,746
Maintenance - Buildings & Structures	371,785	648,931
Maintenance - Furniture	-	-
Maintenance - Other	43,585	655,068
Communication Services	9,327,182	10,169,468
Electricity Services	9,618,889	16,975,931
Printing & Advertising	1,411,052	1,404,022
Cleaning Services	6,068,672	4,263,341
Security Services	1,782,274	1,840,601
Water	220,401	454,567
Rent & Hire Charges	5,000	-
Insurance & License	20,452	219,152
TOTAL	32,630,031	41,051,666

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 31 RETIREMENT BENEFITS

For the year ended 31st December

	2020 Rs	2019 Restated Rs
Retirement Benefits-Academic		
University Provident Fund	18,224,216	15,999,341
Employees' Trust Fund	4,598,101	4,054,824
Pension	4,766,290	4,281,499
Gratuity	12,785,585	50,178,255
Subtotal	40,374,192	74,513,920
Retirement Benefits- Non Academic		
University Provident Fund	5,917,439	5,288,013
Employees' Trust Fund	2,046,711	1,677,976
Employees' Provident Fund	584,518	-
Pension	3,822,551	3,101,867
Gratuity	108,193	11,148,555
Subtotal	12,479,411	21,216,411
TOTAL	52,853,604	95,730,331

NOTE - 32 OTHER RECURRENT EXPENDITURE**For the year ended 31st December**

	2020	2019 Restated
	Rs	Rs
Holiday Warrant & Season Tickets	205,790	375,190
Special Services	1,018,178	1,606,572
Committee & Council	782,655	1,085,200
News Papers & Periodicals	70,150	119,980
Audit Fees	1,434,400	2,257,439
Entertainment Expenses	955,107	1,570,397
Hostel -Expense	244,323	583,754
Hostel -Rent	2,450,625	2,072,250
Visiting Lecture Fee	882,073	706,210
Rates & Taxes	147,396	40,440
Subscriptions,Contributions, & Membership Fee	147,522	203,346
Staff Development	181,200	702,700
Non-Fixed Assets Disposal	12,816	-
Travel Grants to Teachers	-	16,725
Property Loan Interest	133,577	250,795
Inauguration Expenses	-	8,750
Bank Charges	8,453	30,723
Examination Expenses	5,179,178	3,041,868
Selection Test Expenses	-	36,500
Student Welfare	-	35,843
Awards & Indemnities	15,000	67,500
Workshops & Seminars	17,500	41,000
Consultancy Fee	50,000	16,000
Postal Charges	146,130	161,082
Convocation Expenses	-	592,500
Quality Assurance Expenses	81,965	192,386
ICTer Conference Expenses	-	891,970
Student New Initiatives	-	2,865
TOTAL	14,164,039	16,709,982

NOTES TO THE FINANCIAL STATEMENTS**NOTE - 33 DEPRECIATION AND AMORTIZATION****For the year ended 31st December**

	2020	2019 Restated
	Rs	Rs
Furniture & Fittings	5,789,092	5,138,437
Laboratory & Teaching Equipment	24,595,567	26,406,580
Office Equipment	29,791,480	19,942,242
Electricity Connection	2,402,336	309,342
Water Supply System	2,280,840	2,280,840
Library Books and Periodicals	713,708	679,593
Rehabilitation & Improvement of Capital Assets	3,067,665	2,042,144
Vehicles	600,000	600,000
Buildings	27,217,786	26,370,914
	96,458,473	83,770,093
Software Amortization	4,815,576	4,257,745
TOTAL	101,274,049	88,027,837

7. UCSC HIGHLIGHTS 2020 – VISIBILITY, EVENTS AND ACTIVITIES

7. UCSC HIGHLIGHTS 2020 – VISIBILITY, EVENTS AND ACTIVITIES

The UCSC Web site is the main portal to communicate the key highlights of the institute. In 2020, UCSC web site has further improved considering the main theme of the University of Colombo. It has a dual-domain URL, namely <http://www.ucsc.cmb.ac.lk> and <http://www.ucsc.lk>. All major activities and events taken place monthly is informed to the Board of Management and the Senate of the University of Colombo to maintain the visibility of progress and issues of institutes. UCSC website is also linked with social networks to update the activities of the organization to the public. Because of the world pandemic most of UCSC meetings, lectures and other academic activities were carried out using zoom facilities. Following table shows the key highlights of 2020 with respect to each month.

7.1 MONTHLY HIGHLIGHTS - ACTIVITIES, EVENTS, AND PROGRAMMES

Month	Activities
January 2020	<ul style="list-style-type: none"> 1st - New Year Celebrations at UCSC 5th - GDG Cloud Sri Lanka organised a seminar on “Learn Big data and machine learning from a Googler” by Mr. Keshan Sodimana, Machine Learning Google Developer Expert and Mr. Valliappa Lakshmanan, Head of Data Analytics & AI Solutions, Google Cloud 9th - Lunch Time seminar on “Talk on taxi aggregator services” conducted by Associate Prof. Samitha Samaranayake, School of Civil and Environmental Engineering at Cornell University, USA. and 9th – “UCSC Padura” was organized by the Undergraduate of UCSC in the evening. 12th - Certificates awarded to the participants who have successfully completed the ADMTC training courses on <ul style="list-style-type: none"> Advanced Multimedia Web Design & Development Techniques And Graphic Design & Creativity Development 13th - Started student registration for new batch of External Degree Programme (BIT) 2020 13th – Awarded IFS scholarships for selected UCSC undergraduates 20th – A workshop on “e-procurement” was conducted by Mr. Samantha Upananda of Sri Lanka Parliament 22nd - the initial meeting of ICTer2020 was conducted 23rd - Public Talk on Colombo Machine Learning Meet up was held by Mr. Nuwan I. Senaratna, Computer Scientist & AI Specialist; Ex Software Engineer & Engineering Manager at Facebook, and 23rd - Facilitated to conduct LEARN Meeting 25th - Awarded certificates for 31 participants who have successfully completed the training course on Java Application Development using JavaSE by CSC 25th - Sponsored to host AISEC-Excellentia '20 at the UCSC Auditorium 26th - Awarded 22 & 35 certificates to the participants who were successfully completed the Training courses on Fundamentals of IT for Beginners & Java Application Development using JavaSE by CSC respectively 29th - Staff Development Seminar on Deep Learning for Computer Vision by Senior Prof. N.D. Kodikara, UCSC

	<ul style="list-style-type: none"> ● 30th - Registration of New Undergraduates 2018/2019 intake of CS and IS for the academic year 2020
February 2020	<ul style="list-style-type: none"> ● 3rd - The commencement of second semester exams of internal undergraduate degrees for all study years ● 5th – Conducted a recruitment test for University of Colombo by eLC ● 6th - 6 staff members of UCSC received Long service awards for serving 25 yrs, 30 yrs and 35 yrs service within the university system ● 13th - Conducted e-test for KPMG recruitments by eLC ● 17th to 21st - Final Year Group Project presentations and viva for 240 students (40 groups) ● 22nd – 1st batch of certificate course on Java Application Development using JavaSE 2020 was started for 38 participants by CSC ● 22nd - Awarded certificates for 19 participants who successfully completed the short course on Dynamic Web Application Development with PHP and MySQL by CSC ● 23rd - Two certificate courses were started by CSC <ul style="list-style-type: none"> ○ Java Application Development using JavaSE for 35 participants ○ Software Quality Assurance for 26 participants ● 24th to 28th - Final year (honors degree programme) project presentation and viva for 60 students ● 24th to 26th - Board of Survey for Library Books ● 28th - Annual General Meeting of UCSC Welfare Society at the Mini Auditorium
March 2020	<ul style="list-style-type: none"> ● 2nd – Conducted selection examination for UoC and NILIS by eLC ● 3rd - Inauguration of UCSC Undergraduate New Intake (200/200 Computer Science & 97/100 Information System) ● 3rd – Conducted workshops for CISCO Online Courses ● 4th & 5th - Industrial Placement Presentations for 260 students ● 6th – Discussion for Curriculum Development of IT Courses for Faculty of Arts ● 8th - Commencement of short course on Graphic Designing and Creativity Development by ADMTC ● 8th - The Selection Test of Masters Degree Programme (727/817 Applicants) ● 10th - Discussion with Creative Software – Possible Collaboration on R&D Projects ● 25th - Discussion on Free Access to LMS Servers and Educational Resources of Universities with ITN - https://www.itntv.lk/discussion/hathweni-peya/ ● 26th – Online Proposal Defences for MPhil programme
April 2020	<ul style="list-style-type: none"> ● 1st – Conducted Online staff awareness session on Process Improvement and documentation of the Master's Project/ Independent Studies ● 3rd - Conducted online Thesis Defence of Mr. R S Madanayake ● 9th - Published the Journal for ICTer 2020 ● The following days conducted online Selection Interviews for Masters Programmes <ul style="list-style-type: none"> ○ 20th - Master of Information Security programme ○ 23rd - Master of Business Analytics programme ○ 25th & 26th - Master of Information Technology programme
May, 2020	<ul style="list-style-type: none"> ● Online Interviews were carried out for Masters Degree Programmes for more than 500 candidates on 3rd, 5th & 9th May. ● Online meeting was held on 11th May for ICTer 2020 conference ● Coursera programme was offered to UCSC staff and students on 15th May ● Released the results of Diploma in Information Technology on 23rd May

	<ul style="list-style-type: none"> ● Online meeting was held on 20th May between UCSC and Alumni Association to support students who had difficulties on finance, internet connectivity and laptops ● 25th - Online workshop on Microsoft office 360 was carried out for UCSC Technical staff & 15 staff members participated ● 25th - Seven students of 4th year received laptops to carry out their research projects from home. 5 laptops were released to 5 academic /non academic staff to work from home
June 2020	<ul style="list-style-type: none"> ● 1st - Final year proposal defence were carried out for IS degree programme ● 8th - Conducted proposal defence for Software Engineering degree programme ● 16th & 18th - Conducted group project evaluation for all 2nd year students ● 18th - Released the results of Higher Diploma in Information Technology. 274 students were received the HDIT ● 23rd - UCSC Alumni Association donated 4 laptop computers to 4 students who had financial difficulties to engage their online academic activities ● 23rd - UCSC Alumni Association financially supported 38 students of UCSC by giving a special allowance of Rs.5000/- each ● 26th - Submitted Self-Evaluation Reports for the Programme Reviews 2020, for BIS and BCS clusters, to the Quality Assurance Council ● 29th - Released the results of eligible student of all Masters programmes (MBA-41, MIS-30, MIT-101 and MCS-100)
July 2020	<ul style="list-style-type: none"> ● 5th - Awarded 18 certificates for the participants who successfully completed a short course on Advanced Multimedia Web Design and Development Technique ● 7th - UCSC and Sampath Bank jointly signed a non disclosure agreement with Central Bank to develop, deploy and test a Blockchain Technology based Shared Know-Your-Customer (KYC) Proof of Concept (POC) at the Central Bank of Sri Lanka ● 8th - Released final examination results and list of awards and medals of UCSC undergraduates ● 11th & 12th - Conducted final semester examinations of Master Programmes ● 16th - Released the BIT examination results and list of awards/medals ● 18th & 19th - Conducted semester examinations of Master Programmes ● 22nd - Received 15 water sinks as a donation from Persistent Systems Lanka (Pvt) Ltd ● 22nd - Reviewed online election system for Old Boy's Association of Ananda College, Colombo ● 22nd - Conducted e-test for recruitment of Instructor in Computer Technology for Faculty of Nursing, UOC ● 25th & 26th - Conducted semester examinations of Master Programmes ● 31st - Conducted staff awareness workshop on Assets Management and Board of Survey by Mr. Anura Lokugamage, Senior Consultant/SLIDA ● 1st – 31st - Carried out registration for new intake of Masters Programmes
August 2020	<ul style="list-style-type: none"> ● 2nd - Hold the online Inauguration ceremony of Master Programmes 2019/2020 intake ● 7th - Started lectures on 2018/2019 & 2019/2020 intakes of Master Programmes ● 9th - Awarded 18 certificates for participants who successfully completed a certificate course on Software Quality Assurance using Test Automation Frameworks ● 15th - Awarded 28 certificates for participants who successfully completed a certificate course on JAVA Application Development using JavaSE ● 15th - Conducted an online qualifier round selection of National Olympiad in Informatics team for International Olympiad in Informatics 2020

	<ul style="list-style-type: none"> ● 16th - Awarded 22 certificates for participants who successfully completed a certificate course on JAVA application Development using JavaSE ● 16th - Started a new batch of Advanced Multimedia Web Design and Development Techniques ● 17th - Conducted aptitude test to select 2019/2020 intake for BSC in IS degree programme for 2800 students ● 20th - Conducted BIT Semester II question bank reviewing Workshop from eLC ● 22nd & 29th - Conducted two-day final round selection of National Olympiad in Informatics team for International Olympiad in Informatics 2020 ● 30th - Awarded 17 certificates for participants who successfully completed a certificate course on Graphic Design and Creativity Development
September, 2020	<ul style="list-style-type: none"> ● 3rd - Conducted the workshop on developing the question bank for the Foundation of Information Technology programme. ● 4th - Started lectures on 2018/2019 & 2019/2020 intakes of Master Programmes ● 7th - Started undergraduate 1st-semester examination for 1st, 2nd, 3rd, and 4th-year students ● 16th - Conducted BIT Semester II question bank reviewing Workshop ● 19th & 20th - Conducted Master Examination Paper Marking Workshop ● 20th - Started a new batch of JAVA application Development using JavaSE ● 23rd - Conducted online staff health awareness workshop on Diet for Diabetics via zoom by Dr. Ranil Jayawardena, Senior Lecturer, Faculty of Medicine, UOC ● 24th - Conducted a public auction for damaged items (Inventory and non-inventory items) of BOS 2019 ● 25th - Paper Review workshop for ICTER Conference
October 2020	<ul style="list-style-type: none"> ● 2nd - Conducted FIT e-test by e-LC ● 3rd - Final day of undergraduate examinations ● 3rd - Started a new batch of JAVA application Development using JavaSE ● 19th - Commencement of Undergraduate Second Semester, 2020 ● 29th - UCSC undergraduates won the 2nd Place of eCSW Hacking Challenge organised by SL Certs at the e-Cyber Security Week 2020
November 2020	<ul style="list-style-type: none"> ● 5th - Organized the virtual International Conference on Advances in ICT for Emerging Regions 2020. (ICTer2020). https://icter.org/conference/ <ul style="list-style-type: none"> ○ Conducted 2 Keynotes speeches – <ul style="list-style-type: none"> <i>“From Machine Learning to Deep Learning” by Professor Wray Buntine, Professor, Monash University, Australia</i> <i>“Deep learning for computer vision” by Senior Professor Nihal Kodikara, Senior Professor, University of Colombo School of Computing</i> ● 6th – <ul style="list-style-type: none"> ○ Conducted 2 Keynotes speeches - <ul style="list-style-type: none"> <i>“Eversense Everywhere Human Communication” by Professor Adrian David Cheok, Director of the Imagineering Institute, Malaysia</i> <i>“Future of HCI in Emerging Regions” by Professor Anirudha Joshi, Professor, IDC School of Design, Indian Institute of Technology, Bombay, India</i> ○ https://www.icter.org/conference/keynote-speakers/ ● 10th - Annual General Meeting of ACM Student Chapter was held and the new committee was appointed ● 13th - Preliminary Proposal Defense of MPhil programme was held online

	<ul style="list-style-type: none"> ● 17th, 20th & 23rd - Interim Presentations of Final Year projects were held online ● 27th – Conducted BIT Curriculum Development Workshop
December 2020	<ul style="list-style-type: none"> ● The Virtusa conducted following online sessions to uplift the employability skills of undergraduates of UCSC and organized by the PDC. Around 300-500 students participated for these sessions. All these sessions are now available online in the UCSC Youtube-Channel. <ul style="list-style-type: none"> 2nd - CV writing skills by Mr. Suweda Rajaratnam 4th - Introduction to Sales force by Mr. Jen Brenda 7th - Interview facing Skills by Mr. Aniston Leo 9th - AI/ML by Mr. Chathusha Wijenayake 14th - Presenting Skills by Mr. Hingston Lovell 16th - Python by Mr. Tharaka Mahabage 18th - PM methodologies by Mr. Lahiru Ratnapala 21st - Natural Language processing by Mr. Chathusha Wijenayake ● 6th - Started a short course on Advanced Web Design and Development Techniques (3rd batch) ● 8th - Conducted Work shop on Electrical Installation and Maintenance Training for UCSC maintenance staff by Eng DMAK Dissanayake ● 11th - Published Call for applications - Master Programmes - 2020/ 2021 Intake ● 11th - Published Call for Applications - MPhil/ PhD in Computing - 2021 ● 12th - Re-started the short course on JAVA application Development using JavaSE Batch 3 via online mode ● 12th - The end of 1st/ 3rd semesters of Master Programmes in the academic year 2020 ● 14th - Prof. K. P. Hewagamage was a resource person of the Annual Research Symposium of the Faculty of Medicine 2020 and discussed the “<i>Role of Learning Analytics in the evidence based Digital Education</i>” https://www.youtube.com/watch?v=frPpOmsYbPI ● 15th - Conducted Work shop on Electrical Installation and Maintenance Training for UCSC maintenance staff by Eng DMAK Dissanayake ● 18th - Plenary Speech by Prof. K P Hewagamage, Director/UCSC at the Annual Research Symposium 2020 of faculty of Nursing, UoC “<i>ICT is Everywhere ..., Why not for Healthcare ?</i>” <i>The role of ICT in Health Care for Emerging Challenges</i> ● 19th - UCSC supported the Faculty of LAW to conduct online Annual Research Symposium ● 20th - Re-started the short course on JAVA application Development using JavaSE Batch 4 via online mode ● 22nd - “Unduwap Wasantha 2020” the online programme was organized by Welfare Society for staff of UCSC to recognize their contribution in 2020 to motivate the staff ● 26th - started a new short course on G raphics Design and Creativity Development

8. AUDIT REPORT

8.AUDIT REPORT 2020

My No: HED/B/UCSC/2020/FA/04

Date:17 May 2021

Director,
University of Colombo School of Computing.

Report of the Auditor General on Financial Statements of the University of Colombo School of Computing for the Year ended 31 December 2020 and on Other Legal and Regulatory Requirements under Section 12 of the National Audit Act No. 19 of 2018

1. Financial Statements

1.1 Qualified Opinion

The audit of the financial statements of the University of Colombo School of Computing affiliated to the University of Colombo for the year ended 31 December 2020 comprising the statement of financial position as at 31 December 2020 and the statement of financial performance, statement of changes in equity and cash flow statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, was carried out under my direction in pursuance of provisions in Article 154 (1) of the Constitution of the Democratic Socialist Republic of Sri Lanka with provisions of Section 12 of the National Audit Act, No.19 of 2018 read in conjunction with Section 17 of the University of Colombo School of Computing Ordinance No. 1 of 2002, imposed under Sub-Section 107 (5) and Section 18 of the Universities Act No. 16 of 1978, and Section 108 (1) of the Universities Act. The report of the Auditor General in pursuance of provisions in Article 154 (6) of the Constitution will be tabled in Parliament in due course.

In my opinion, except for the effects of the matters described in basis for qualified Opinion section of this report, the financial statements of the institution give a true and fair view of the financial position as at 31 December 2020, and its financial

performance and cash flows for the year then ended in accordance with Sri Lanka Public Sector Accounting standards.

1.2 Basis for Qualified Opinion

- (a) Action had not been taken to review again and to indicate the useful lives of software and property, plant and equipment, totalling to Rs. 166,356,155 and fully depreciated, but already in use, in the financial statements in terms of Sri Lanka Public Sector Accounting Standards No. 03.
- (b) The interest income of the fixed deposits related to the year had been understated by Rs. 1,169,673 and the interest income receivable by 31 December 2020 had been understated by Rs. 2,355,153 as the interest income earned for the year from 05 fixed deposits of the Department of Postgraduate Studies and the interest income receivable had not been accurately calculated. Accordingly, the surplus for the year had been understated by that amount.

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

1.3 Other Information included in the Annual Report 2020 of the Organization

Information, included in the Annual Report - 2020 of the Institution obtained by me prior to the date of this audit report, but not included in the financial statements and my audit report in relation to the financial statements is called as the other information. Management is responsible for the other information.

My opinion on financial statements does not cover any other information and I do not express any kind of assurance or opinion on it.

In relation to my audit on the financial statements, it is my responsibility to read the other information identified above and to consider in reading so whether other information is quantitatively inconsistent with the financial statements according to my

knowledge obtained during the audit or otherwise. I have nothing to report in this regard.

1.4 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 Institution's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intend to liquidate the Institution or to cease operations, or has no realistic alternative but to do so.

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

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

1.4 Auditor's Responsibility on 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 to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements

represent the underlying transactions and events in a manner that achieves fair presentation.

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

2 Report on Other Legal and Regulatory Requirements

2.1 Specific provisions are included in the following requirements of the National Audit Act, No. 19 of 2018.

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

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

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

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

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

2.2.2 to state that the Institution has not complied with any applicable written law, general and special directions issued by the governing body of the Institution as

per the requirement of section 12 (f) of the National Audit Act, No. 19 of 2018 except for the following observation;

References to Laws, Rules / Directives	Observation
University Grants Commission Circular No. 2009/2 dated 05 February 2009	Although it had been informed that the maximum limit of the distress loan that can be granted is Rs. 250,000, the institution had paid ten times of the basic salary as the disaster loan to 44 officers without considering the maximum limit and as a result, it was observed that a total of Rs. 11,364,433 had been paid in excess.

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

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

2.3 Other Matters

- (a) Debtor balances to be recovered from external parties totaling to Rs. 1,516,933, comprised of debtor balances of the Computer Service Division that are 03 years to 06 years old and totaling to Rs. 853,500 and debtor balances totaling to Rs. 663,433 in the years 2018 and 2019 had not been recovered.
- (b) Although a period of 03 to 16 years had elapsed for a total of Rs. 6,569,834 that had to be recovered from three lecturers, who had violated the bond by the last day of the year under review, action had not been taken to recover the amount.

- (C) Action had not been taken to obtain the approval of the General Treasury for 2 funds called as the Staff Development and Staff Medical Fees amounted to Rs.24,566,088 as at 31 December in the year under review.

W.P.C. Wickramaratne

Auditor General

Responses to the Auditor General's Report in terms of Section 12 of the National Audit Act No. 19 of 2018 on Financial Statements and Other Legal and Regulatory Requirements for the Year as at 31st December 2020 of the University of Colombo School of Computing, affiliated to the University of Colombo.

1. Financial Statements

1.1 On the Qualified opinion

Was noted

1.2 The basis for the Qualified opinion

Query	Answer
(a) The software and Property, Plants and Equipment with the total of Rs. 166,356,155, which are completely depreciated but already in use had not been reviewed in accordance with Sri Lanka Public Sector Accounting Standards No. 03 and shown in the financial statements.	UCSC began preparing the Fixed Assets Register in 2020, but due to the Covid-19 pandemic throughout the year, office operations were affected and the Fixed Assets Register was not completed within the year due to the minimum number of office days per year. Necessary steps have been taken to complete the re-preparation of the Fixed Assets Register of the Institution by the year 2021 and to complete the Revaluation of Assets in accordance with paragraph 65 of 07 Sri Lanka Public Sector Accounting Standards 07.
(b) Due to the fact that the interest income for the year and the interest income receivable for 05 fixed deposits of the Postgraduate, Research and Publications Division have not been calculated correctly, the fixed deposit interest income for the year of Rs. 1,169,673 and the interest income receivable as at 31st December 2020 of Rs. 2,355,153 had been accounted	The fixed deposits mentioned in the inquiry are investments made on 15.03.2018 for a period of 05 years and those investments will be matured on 15.03.2023. For these investments, the investment income for 2019 and 2020 have been underestimated as mentioned in the audit query.

in less. Accordingly, the surplus for the year was less by the particular amount.	The interest income receivable omitted under the estimation has been adjusted to the relevant accounts in the year 2021 under the Journal Number GJ 012 and the relevant error has been rectified.
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1.3 Other Matters Included in the Annual Report 2020 of the Institute

Was noted

1.4 Responsibilities of the management and governing body for the financial statement

Was noted

1.5 Responsibility of the Auditor for the Financial Statements

Was noted

2. Report on other legal and regulatory requirements

2.1 Was noted

2.1.1 Was noted

2.1.2 Was noted

2.1.3 Was noted

2.2 Was noted

2.2.1 Was noted

2.2.2. Was noted

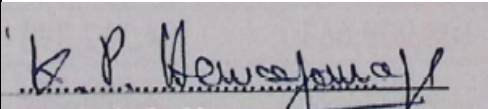
Query	Answer
<p>Circular of the University Grants Commission No. 2009/2 dated 05th February 2009</p> <p>Observation</p> <p>The maximum distress loan Payment limit is Rs. 250,000, but the Institute had disbursed ten times of the basic salary as the distress loan for 44 employees, disregarding the ceiling, and accordingly a total of Rs. 11,364,433 was observed to have been overpaid.</p>	<p>The 195th Board Meeting of the University of Colombo School of Computing discussed on granting distress loans to the staff due to the increase in the basic salary of the staff based on the University Grants Commission Circular 17/2016 for the staff members which was recommended by its Finance and Management Committee. Further, according to the University Grants Commission Circular 2009/02, on restrictions of the Distress Loan and University Grants Commission Circular 2016/04, the ability of the relevant institution to make decisions regarding the generated income were discussed, It was decided to provide ten times of the basic salary as distress loan to the staff of the institution and to obtain the full provision for the distress loan from the generated income of the institution and not to use any treasury Grants for the same.</p> <p>The distress loans have been provided to the staff mentioned in the query as per the decision of the above Board of Management of UCSC.</p>

2.2.3 Was noted

2.2.4 Was noted

2.3 Other facts

Query	Answer
<p>(a) The total receivables of Rs. 853,500/- from 3 to 6 years old and the total receivables of Rs. 633,433/- for year 2018 and 2019 of the Computer Service Center, which lead to a total receivable from external parties of Rs. 1,516,933/- had not been recovered.</p>	<p>The management committee of the Institute discussed about these outstanding balances and it was decided that the administrative officers in charge of the relevant division should take action to recover the money within the year 2021 and submit a report on the non-performing balances to the financial committee of the institution for further action.</p>
<p>(b) The total amount due from three Academic staff members, who have violated the bonds as of 31st December 2021 is Rs. 6,569,834 had not been recovered even though a period of 03 to 16 years had elapsed.</p>	<p>(1) Amount due from Mr. SJ Paheeradan Rs. 1,276,862.00 After recovering available balance from the Universities Provident Fund, Case No. DMR / 07902/10 has been filed at the Colombo District Court for recovering of Rs. 1,276,862/- from him. The case will be heard again on 17.08.2021 and the balance (including interest) will be recovered at the end of the proceedings.</p> <p>(2) Amount due from Mr. R. Senanayake Rs. 288,414.00 Mr. Senanayake's provident fund balance has been recovered and there is a balance in his Pension Fund. That balance that is close to the balance amount that should be further recovered from him. Action will be taken to get release that amount as well. Attempts taken to contact him and his family through the address he had given to the UCSC were unsuccessful. The Attorney General's Department has been instructed to initiate legal action in this regard.</p> <p>(3) Amount due from Mr. HM Siriwardena Rs. 5,004,558.00 Mr. HM Siriwardena's provident fund balance was requested to be released to UCSC in June 2020 with the required documents to the University Grants Commission and since then the UCSC has made several inquiries regarding the delay. Upon release of the provident fund, it is possible to recover a sum of nearly Rs. 2,000,000. In addition, Mr. Siriwardena has been asked to provide the documents required to release his Universities Pension fund balance, but he has not yet provided the required documents from his side, but he has sent an e-mail stating that he will come to Sri Lanka and take necessary action in this regard. Further discussions are being held with Mr. Siriwardena and legal action is planned against him if he fails to settle the balance after the release of the Provident Fund.</p>

<p>(c) Steps have not been taken to obtain Treasury approval for 2 funds namely Staff Development and Staff Medical Fees Funds of the total value of Rs. 2, 24,566,088, As at 31st December of the year under review.</p> 	<p>The Staff Development Account and the Staff Medical Fees Accounts mentioned in the query are maintained 100% of the generated income of the institution as per the following circulars and letter provisions and no treasury grant has been used for this purpose.</p> <ul style="list-style-type: none"> I. University Grants Commission Circular No. 04/2016 Guidelines for UGC of funds generated from self- funding activities in the Universities & HEIs. II. Letter No: BD/UNI/COL/COPE/2011 issued by the Director General National Budget highlighting universities authority to create specific funds. <p>- Staff Development Account The balance of this account consists of funds allocated for staff development from the foreign project grant implemented by the institution and the money earned from those investments. The balance of this account is used to train and improve the staff of the organization and a policy document has been approved by its Board of Management and being implemented.</p> <p>- Staff Medical Fees Account Subject to the decision of the Board of Management, the above account balance consists of the budgetary provisions of the Institute's Earnings from Postgraduate and External Degree programmes and the contributions of the staff members with the approval of the Board of Management of the Institute. The above account is used to pay the medical benefits of the staff members.</p>
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Prof. K P Hewagamage
Director

