

COMPUTING EDUCATION DURING THE PANDEMIC

ANNUAL REPORT 2020

UCSC

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

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ANNUAL REPORT 2020



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

VISION

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

MISSION

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

GOALS

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

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

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

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

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

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

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 acidities 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 out brake 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 authories 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.

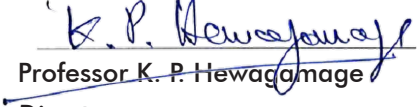
It was planned to conduct the Programme Review of undergraduate degree programmes during 2020 and UCSC staff was able to complete the required documentation, but UGC decided to postpone it to 2021. We were forced to cancel the recruitment of new cadre vacancies until end of the year 2020 due to pandemic.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



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

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;

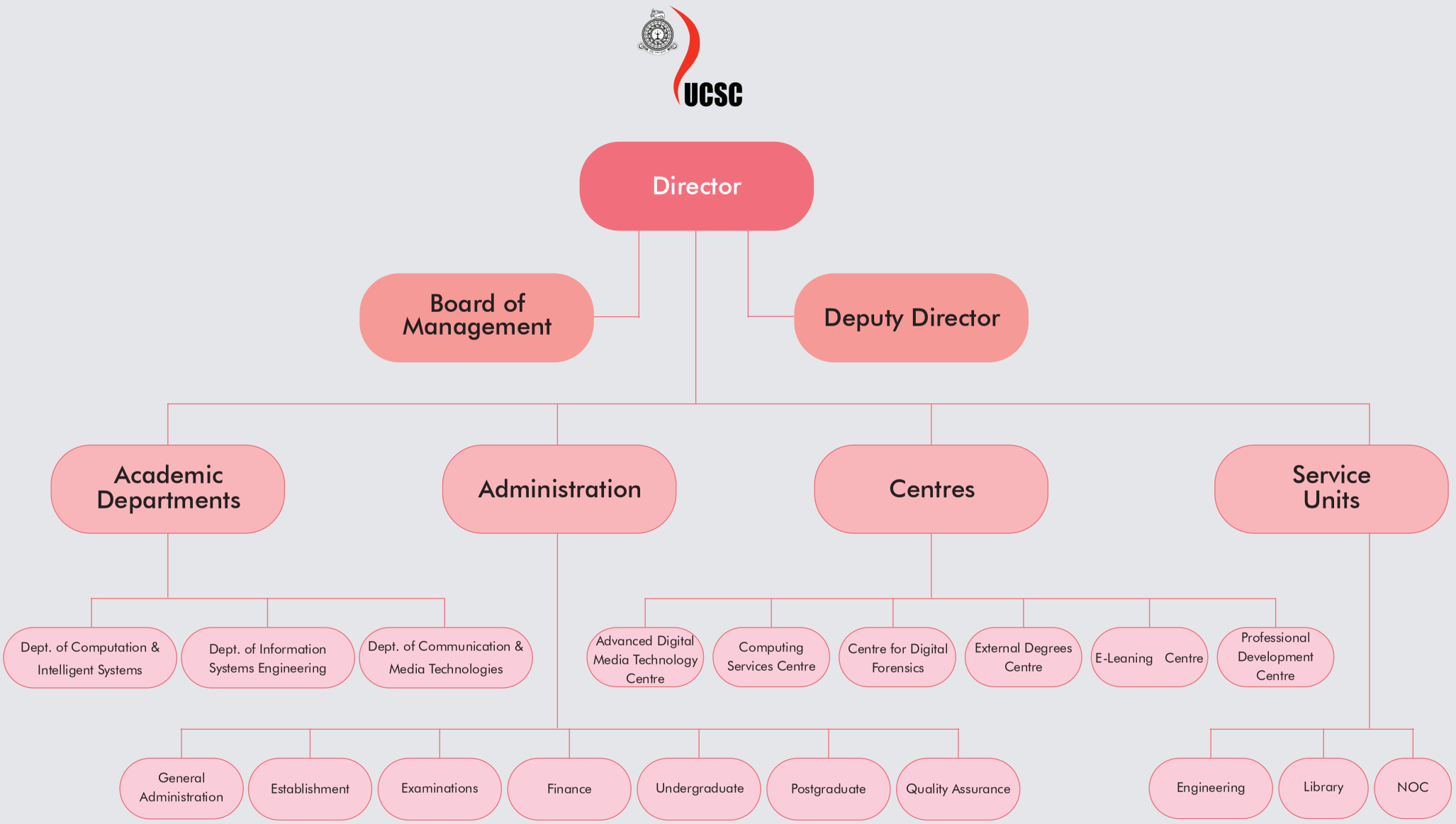
Department of Computation & Intelligent Systems (CIS) *Dr. D.A.S. Athukorala*	**Department of Communication & Media Technologies (CMT)** *Dr. G.D.S.P. Wimalaratne*	**Department of Information Systems Engineering (ISE)** *Dr. M.D.J.S. Goonetillake*

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

Advanced Digital Media Technology Centre (ADMTC) *Dr. S.P. Matara Arachchi*	**Computing Services Centre (CSC)** *Dr. K.L. Jayaratne/* *Mr. G.P.N. Botheju*	**External Degrees Centre (EDC)** *Mr. Mr. W.V. Welgama*
E-Leaning Centre (e LC) *Dr. T.A. Weerasinghe*	**Professional Development Centre (PDC)** *Dr. L.N.C. De Silva*	**Centre for Digital Forensics (CDF)** *Dr. T.N.K. De Zoysa*

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 Organization Structure

KEY PERFORMANCE INDICATORS (KPIS) OF UCSC (2020/2019)

EDUCATION (ENROLLED/GRADUATED)

Internal Degrees

	Reg.	Graduated
2020	929	250
2019	899	237

External Degree (BIT)

	Reg.	Graduated
2020	1248	284
2019	862	177

Postgraduates Degrees (Masters)

	Reg.	Graduated
2020	501	126
2019	426	185

Diploma in Information Technology (DIT) - BIT Level 1

	Reg.	Awarded
2020	2649	651
2019	2373	436

Higher Diploma in Information Technology (HDIT) BIT Level 2

	Reg.	Awarded
2020	1804	274
2019	1634	120

Postgraduates Diploma

2020	12
2019	44

Visiting Students (FoSc)

2020	1157
2019	972

Visiting Students - Part Time (Short Courses)

2020	347
2019	551

Foreign Students

2020	14

RESEARCH

Research (MPhil/PhD)

	Reg.	Graduated
2020	28/08	03/00
2019	35/08	03/01

Funded Research Projects

		Completed
2020	12	02
2019	21	09

Publications

2020	63
2019	56

Citations

2020	4829

CONSULTANCY/ PROJECTS

2020	07
2019	15

SOCIAL PROGRAMMES

2020	05
2019	13

GOVERNANCE

Permanent Academic Staff

2020	46	Professors 03, PhD 28, Masters 09
2019	47	Professors 03, PhD 27, Masters 06

Permanent Academic Support Staff

2020	06
2019	06

Temp Academic Staff (Instructors & Asst. Lect.)

2020	39
2019	43

Permanent Admin and Non-Ac Staff

2020	62
2019	52

Contract Staff

2020	41
2019	56

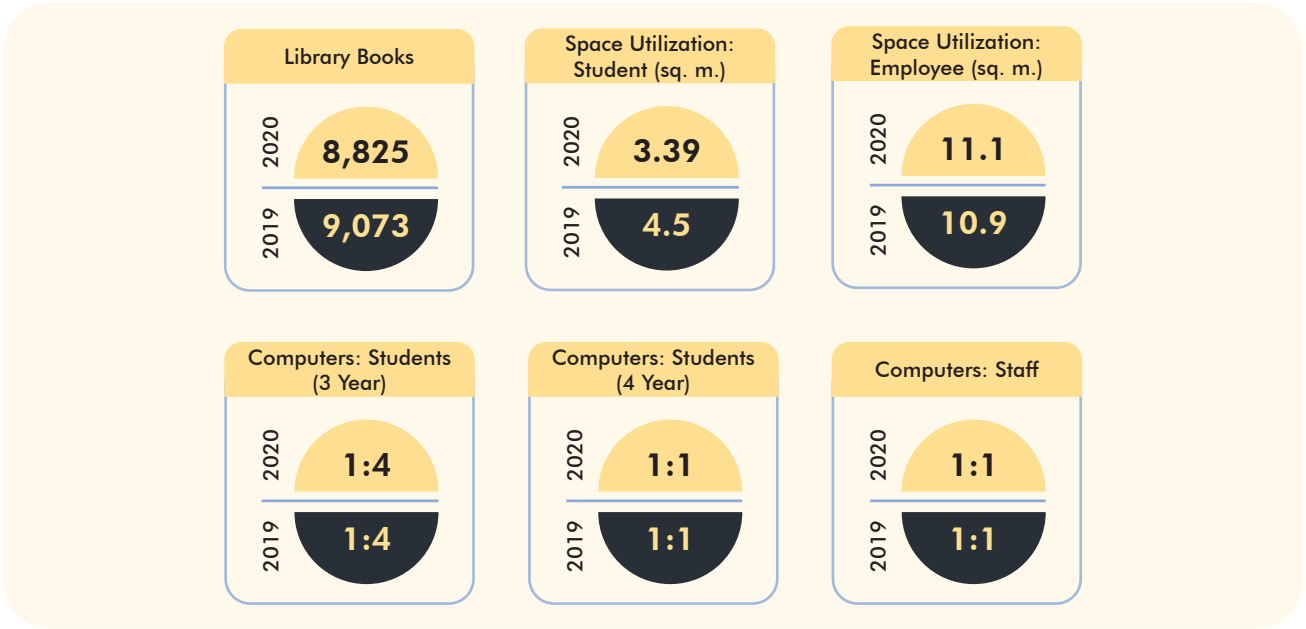
Research/ Project Staff

2020	17
2019	16

FINANCE (MILLIONS LKR)



RESOURCES UTILIZATION



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GOVERNANCE

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.

OFFICERS OF THE UCSC

DIRECTOR
Prof. K P Hewagamage





DEPUTY DIRECTOR
Dr. D.A.S. Athukorala

HEADS OF THE DEPARTMENTS



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

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





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

ADMINISTRATIVE OFFICERS

Mr. K K K Dharmathilaka/ Deputy Registrar – General Administration Division, **Mrs. Prasangika Henegama**/ Deputy Registrar (On Sabbatical Leave), **Ms. S D Chandralatha**/ Senior Assistant Registrar – Establishments Division, **Ms. J. A. M. S. Wijerathna**/ Senior Assistant Registrar – Postgraduate, Research and Projects Division, **Mrs. S. F. Imam**/ Assistant Registrar – Examinations and Registration Division, **Mrs. W. M. N. K. Weerasuriya**/ Assistant Registrar – External Degree Centre, **Ms. P. M. K. Jayarathna**/ Assistant Registrar – Director's Office, **Ms. K. Prathayini**/ Assistant Registrar – Academic, Publications and Welfare Division.

FINANCIAL OFFICERS

Mr. E M Gunarathna/ Deputy Bursar, **Mrs. V. G. M. Priyangika**/ Senior Assistant Bursar, **Mrs. K. H. A. D. Silva**/ Senior Assistant Bursar, **Mr. K. A. H. K. Jayarathna**/ Assistant Bursar.

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.

BOARD OF MANAGEMENT (BOM)

11 Meetings of the Board of Management were held monthly during the year 2020.

Ex- Officio Members	
Director	Prof. K.P. Hewagamage
Deputy Director & Head of CIS	Dr. D.A.S. Athukorala
Nominee, Secretary of Higher Education	Mr. L. Waduge
Nominee, Ministry of Finance	Mrs. K.A. Ramya Kanthi
Dean, Faculty of Science	Prof. K.R.R. Mahanama, Prof. Upul Sonnadara
Head of CMT	Dr. G.D.S.P. Wimalaratne
Head of ISE	Dr. M.D.J.S Goonetillake
Appointed Members	
Members, Council of University of Colombo (02)	Prof. Sam Karunaratne, Mr. J.M.U.B. Jayasekara
Members, UOC Senate (02)	Prof. Sumedha Jayanetti, Prof. Pavithra Kailasapathy
Nominees, UGC (02)	Mrs. C. Mubarak, Dr. Upali Mampitiya
Representatives, IT Industry (02)	Mr. Saman Perera, Dr. Romesh Ranawana
Nominees, Academic Syndicate (03)	Dr. K.L. Jayaratne, Prof. N.D. Kodikara, Dr. H.A. Caldera, Dr. M.G.N.A.S. Fernando

FINANCE AND MANAGEMENT COMMITTEE (FMC)

The Finance and Management Committee (FMC) is a sub-committee with the primary objective of assisting 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. The composition of the committee is as mentioned below.

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

AUDIT COMMITTEE (AC)

The Audit Committee (AC) is a Subcommittee, with the primary objective of assisting 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 3 meetings of the year 2020 are given with respect to each member.

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

INTERNAL AUDIT

During the year 2020, the Internal Audit works were carried out by the University of Colombo Internal Audit Division and the outsourced Ernst & Young professional audit firm as per the approved Internal Audit Plan on the following audit areas. Accordingly, its activities consist of pre – Auditing activities carried out with regard to refund of University Provident Fund, Payment of Retirement Gratuity, Payment of Salary Arrears, Pension Payment Applications, and Contractor Final Payments and Audit of Personal Files.

E & Y Internal Audit works will be carried out covering UCSC operational areas on a quarterly basis and submit their reports. Quarterly Internal Audit Reports are discussed at the Audit Committee meetings. Their audit activities include checking operations and performance of Centers/divisions, including Masters and External Degrees, other internal operational units, verification of research projects, – all areas of Finance including Fixed Assets and Inventory Registers, Board of Survey and Fixed Assets disposals, Construction Projects, Statutory Payments, Procurements, Maintenance Activities.

ACADEMIC SYNDICATE

The 12 Academic Syndicate were held monthly during the year 2020. The composition of the Academic Syndicate consists of the Director, who is the chairperson, the head of each department of study, a nominee of each Board of Study, the Coordinator of each centre or their nominees, a nominee of the Faculty board of the Faculty of Science of the University of Colombo, two members appointed by the Vice Chancellor on the recommendation of the board to represent the Information Technology industry, senior professors, professors, associate professors and senior lecturers from each department of study and two members elected from amongst permanent staff of the School engaged in teaching as 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 to the Board of Studies.

Some of important decisions recommended at the Academic Syndicate are required 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. The composition of the Academic Syndicate of University of Colombo School of Computing is as follows.

Prof. K.P. Hewagamage, Director (Chairperson), Dr. D.A.S. Atukorale, Deputy Director & Head/CIS and Snr Lec Gr.I, Dr. G.D.S.P. Wimalaratne, Head/CMT & Se. Lecturer Gr. I, Dr. (Mrs.) M.D.J.S. Goonetillake, Head, /ISE, Senior Lecturer Gr. I, Prof. N.D. Kodikara, Senior Prof. G.K.A. Dias, Professor, Dr. A.R. Weerasinghe, Senior Lecturer Gr. I, Dr. D.N. Ranasinghe, Senior Lecturer Gr. I, Dr. T. Sritharan, Senior Lecturer Gr. I, Mr. G.P. Seneviratne, Senior Lecturer Gr. I, Dr. D.D. Karunaratne, Senior Lecturer Gr. I, Dr. T.N.K. De Zoysa, Senior Lecturer Gr. I, Dr. C.I. Keppetiyagama, Senior Lecturer Gr. I, Dr. K.L. Jayaratna, Senior Lecturer Gr. I (on leave), Dr. H.A. Caldera, Senior Lecturer Gr. I, Dr. M.G.N.A.S. Fernando, Senior Lecturer Gr. I, Dr. (Mrs.) S.M.K.D. Arunatileka, Senior Lecturer Gr. II, Dr. M.D.R.N. Dayaratne, Senior Lecturer Gr. II, Mr. K.P.M.K. Silva, Senior Lecturer Gr. II, Mrs. M.W.A.C.R. Wijesinghe, Senior Lecturer Gr. II, Mr. W.V. Welgama, Senior Lecturer Gr. II, Dr. H.E.M.H.B. Ekanayake, Senior Lecturer Gr.II Dr. (Mrs.) T.A. Weerasinghe, Senior Lecturer Gr. II, Coordinator/eLC , Dr. M.I.E. Wickramsinghe, Senior Lecturer Gr. II, Dr. (Ms) K.H.E.L.W. Hettiarachchi, Senior Lecturer Gr. II, Dr. P.V.K.G. Gunawardana, Senior Lecturer Gr. II, Dr. B.H.R. Pushpananda, Senior Lecturer Gr. II, Dr.(Mrs) H.N.D. Thilini , Senior Lecturer Gr. II, Dr. (Mrs) L.N.C. De Silva, Senior Lecturer Gr. II, Dr. S.S.P. Matara Arachchi, Senior Lecturer Gr. II, Coordinator/ ADMTC, Dr. H.K.T.C. Hallolluwa, Senior Lecturer Gr. II, Dr. Kasun Karunanayaka, Senior Lecturer Gr. II (Contract), Dr. (Mrs.) M.G.D.K. Fernando, Senior Lecturer Gr. II (Contract), Mr. G.P.N. Boteju, Instructor, Coordinator/CSC (on invitation) , Prof. R.D. Wijesekara, Nominee/ Faculty of Science, UOC, Mrs. H.P. Henegama, DR/ Academic & Publication, Ms. D.K.M. Rathnayake, SAR/ Examination, Ms. J.A.M.S. Wijerathna, SAR/ Post Graduate Division, Ms. S.F. Imam, AR/Examination, Ms. K. Prathayini, AR/Academic and Publication, Ms. W.M.N.K. Weerasooriya, AR/EDC.

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.

BOARD OF INTERNAL UNDERGRADUATE DEGREES (BOS-IUD)

During the year 2020, , 12 meetings of the BOS/IUD were formally held and the composition of the committee consists of Director who is the chairperson, the head of each department, all permanent teachers, a representative of the Faculty board of the Faculty of Science nominated from among members of the Faculty of Science who are engaged in teaching at the School, all permanent Instructors engaged in Undergraduate teaching and two students elected from among internal Undergraduate students registered with the School. All matters related to internal undergraduate degrees, such as teaching, learning, assessment and administrations are discussed in detail at BOS/IUD.

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. The composition of the committee is Director who is the chairperson, the head of each department, the coordinators of centres which are engaged in Research and Development, postgraduate training, one representative nominated by each Department and one by each centre which are engaged in Research and Development, postgraduate training and two members appointed by the Academic Syndicate to co-ordinate each identified programme. All matters related to the research, postgraduate studies are discussed in detail in this board, and matters which require the approval, are forwarded to the Academic Syndicate.

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. 12 number of monthly meetings were held to discuss all the matters related to external and extension study programmes managed by the UCSC and matters which require the approval, are forwarded to the Academic Syndicate. The composition of the committee includes the Director, who shall be the chairperson, the Coordinator or nominee of each centre, one nominee from each Department of study and the members appointed by the Academic Syndicate to coordinate each internal and external programme.

DEPARTMENTS OF STUDY

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/department-of-computation-and-intelligent-systems/).

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/department-of-communication-and-media-technologies/).

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/department-of-information-systems-engineering/)

CENTRES

ADVANCED DIGITAL MEDIA TECHNOLOGY CENTRE (ADMTC)

The Advanced Digital Media Technology Center of the University of Colombo School of Computing is one of the key centers that played a significant role even in that pandemic period. Dr. S S P Mathara Arachchi/ Senior Lecturer of UCSC is the coordinator of the centre. 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, staff portal and maintaining UCSC social media profiles (Facebook, Linkedin, Twitter, Youtube, and Instagram)
- 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
- UCSC interior and exterior design-related activities (signs, banners), designing newspaper advertisements, flyers, brochures, invitations, and designing digital materials.

ADMTC has commenced (completed or ongoing) the Graphic Design and Creativity Development course in 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 Manages the auditorium of the UCSC, and the following key activities were held before the pandemic situation in March 2020.

- "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 5th January 2020.
- National Olympiad in Informatics (NOI) organized by the ACM Student Chapter of UCSC on 9th January 2020.
- Excellentia' 20 organized by AIESEC student movement of University of Colombo on 25th January 2020.
- Undergraduate Inauguration of UCSC on 3rd March 2020.
- ICTer Conference 2020 on 5th and 6th November 2020.

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

- Research Symposium organized by the Faculty Law, University of Colombo on 19th December 2020
- Research Symposium organized by the Faculty of Education, University of Colombo on 23rd December 2020



In addition the above, Workshop on Capacity Development of Academic and Technical Staff on Virtual Capsule for Teaching/ Learning Activities (Smart Lecture Rooms) for staff of the Department of Agribusiness Management of the Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka, was conducted by University of Colombo School of Computing (UCSC) on 11th September 2020. The workshop was delivered by the Advanced Digital Media Technology Center (ADMTC) of UCSC, being led by Dr. Samantha Mathara Arachchi, Senior Lecturer of UCSC and under the supervision of Professor K.P. Hewagamage, the Director of UCSC.

In addition to the above, the aim of this workshop was to familiarize the academic staff with the smart lecture room environment, obtain experience to apply new technology in university teaching/ learning process and to apply the latest technologies in research and development programs.



An interactive session was conducted on Screen and Voice Broadcasting, Student Demonstration, Movie and Camera Broadcasting, Interactive Whiteboard, Response & Comparison etc. Also the participants were made aware of Group Collaboration, Making Quizzes and Surveys, File Management and Remote Commands. Classroom management software by Mythware and Samsung QB65H-TR smart screen were used to demonstrate and train the participants. 18 participants of the staff of the Department of Agribusiness Management in Sabaragamuwa University were joined for one day workshop held in University of Colombo School of Computing.

This assignment was funded by the Ministry of Higher Education via AHEAD-OMST under the program component of Accelerating Higher Education Expansion and Development (AHEAD). Government of Sri Lanka (GoSL) and the World Bank have agreed, to support the higher education sector through a Bank funded Accelerating Higher Education Expansion and Development (AHEAD) operation. Under the AHEAD Operation, the Faculty of Agricultural Sciences (the contractor of the agreement), has identified some activities such as; Integrating entrepreneurial skills development into the teaching and learning process, Enhancing training and research opportunities, Upgrading facilities for improving practical exposure and Enhancing personal and professional development of students. Through this workshop, Department of Agribusiness Management of the Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka expects to improve the quality of Higher Education by applying new tools and technologies in the university teaching/learning process.

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 under the Institute of Computer Technology (ICT) to provide Consultancy Services to both public organizations as well as private institutes.



The activities undertaken by the CSC are three folds.

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

Short Term Training Courses of 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 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.

Provide Software Development and Consultancy Services by CSC

During 2020 CSC conducted the below mentioned recruitment tests to external parties.

- e-Test for recruiting Instructor in Computer Technology, Dean's Office - Faculty of Nursing/ University of Colombo on 22nd July 2020.
- Confirmation test for Management Assistant Grade III – National Institute of Libraries and Information Sciences (NILIS) on 4th September 2020.

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.

- 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
- Setting and moderating the e-test paper for the recruitment test of Assistant Network Manager (Grade II) of the Institute of Indigenous Medicine (IIM)

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.

EXTERNAL DEGREES CENTRE (EDC)

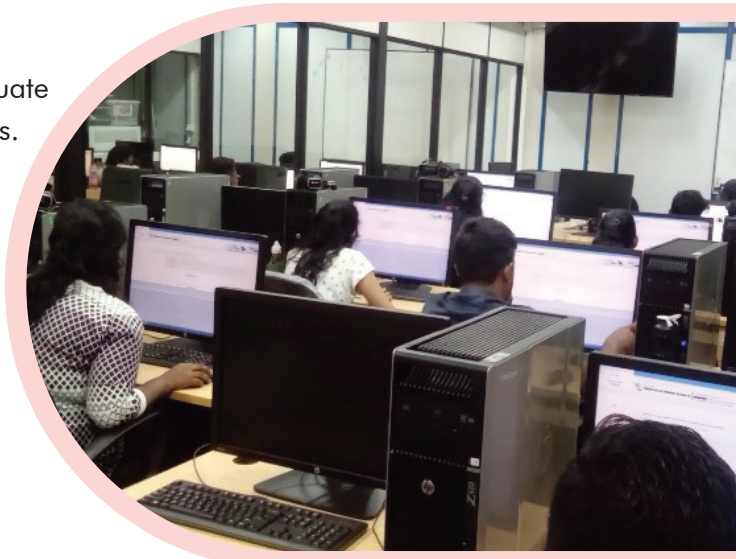
The External Degree Centre (EDC), https://ucsc.cmb.ac.lk/academic-programmes/edc/ was established in order to manage the external and extension programmes of UCSC in order to provide effective and efficient service to the general public. Currently, EDC coordinates the Bachelor of Information Technology (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, Re-registration of current, conducting meetings with teaching institutions, conducting a webinnar for the students who are registered for the Final Year Project. 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-LEANING CENTRE (ELC)

eLC is a service Centre of the UCSC to support undergraduate and postgraduate degree programmes and short courses. During the last decade, it has become a national centre by providing services for both local and international organizations. eLC has a team of dedicated staff to engage with online course development work, provide e-facilitation and conduct research and development work in e-learning.



Online courses administered by eLC

- 35 online courses of the BIT degree programme (http://vle.bit.lk)
- 215 online/blended learning courses of the internal undergraduate degree programmes of UCSC (http://ugvle.ucsc.cmb.ac.lk)
- 84 online courses of the postgraduate degree programmes of UCSC available in the http://pgvle.ucsc.cmb.ac.lk
- 10 online courses for the FIT certificate programme (http://fitvle.bit.lk/)



During 2020, eLC carried out several major activities such as revising of the FIT programme curriculum and starting of the re-development of the online learning content, development of online courses for semesters 1 and 2 of the BIT degree programme streamlining with the curriculum revision of the programme, reviewing and redeveloping question banks of the FIT online courses and semester 1 and 2 courses of the BIT degree programme, and conducting online assessments for UCSC and several other organizations including KPMG, NILIS and the University of Colombo throughout the year.

Moreover, during 2020, eLC started conducting several externally funded projects, including the two major projects: (1) developing a Moodle-based online course titled "Managing Information for Academic Research: for Undergraduates" for the Main Library, University of Colombo and (2) a UGC-funded project to develop the "Pre-university Online English Language Training" (ELT) programme to enhance the level of English language competency of the state university entrants.

PROFESSIONAL DEVELOPMENT CENTRE (PDC)

The Professional Development Centre (PDC) is one of the centers at UCSC, established to keep a close liaison with the IT industry to improve the academic activities through industry-academia partnership. The mission of the Professional Development Center is to produce socially responsible professionals with entrepreneurial skills, leadership qualities, and integrity. The center facilitates training programs to improve the professional skills of both the academic staff and the undergraduates. The PDC invites the IT industry to conduct awareness programs 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.

The PDC carried out several activities for the year 2020 (https://ucsc.cmb.ac.lk/professional-development-centre-pdc-activities/). In prior to the closure, the final industry placement evaluations were carried out for the academic year 2019/2020. Amidst the COVID pandemic, Tech talk sessions were conducted for the 3rd-year undergraduates via the zoom due to the pandemic. The IT industry professionals conducted fifteen (15) live sessions and sent eighteen (18) video recordings on technical and professional skills. Thirty-eight (38) new companies registered under the UCSC internship program, and all the relevant interviews/ company evaluations were conducted via zoom. Two hundred ninety-one (291) students were placed in 89 IT companies and 8 UCSC Projects under the undergraduate internship program for 2020/2021.

Separate meetings were held with professionals from the IT industry (ISM APAC (PVT) LTD, LSEG (PVT) LTD, Creative Software, WSO2) to enhance the industry-academia partnership and uplift the research culture with academic-industry collaboration. Students were consistently encouraged to participate in the online sessions organized by the IT industry during the lockdown period due to the pandemic situation through publishing web banners and competitions. The PDC facilitated the 'Digital Discoverer Program' initiated by Virtusa, and under that program, eight (8) online sessions were conducted for internal/external undergraduates in UCSC. Furthermore, the PDC assisted the UCSC career fair organizing committee in organizing the virtual UCSC career fair 2020. Apart from that, a lunchtime Seminar by Prof. N.D. Kodikara (Senior Professor, UCSC) was organized for UCSC staff and 4th-year students on "Deep Learning for Computer Vision".

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 it's support to conduct various postgraduate programs at UCSC.

In 2019 to end of 2020 CDF has generated Rs. 907,222.00 as it's 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 it 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 excepted provide additional services in the field of Digital Forensics to the government and the private sector and earn more income in year 2021.



EDUCATION

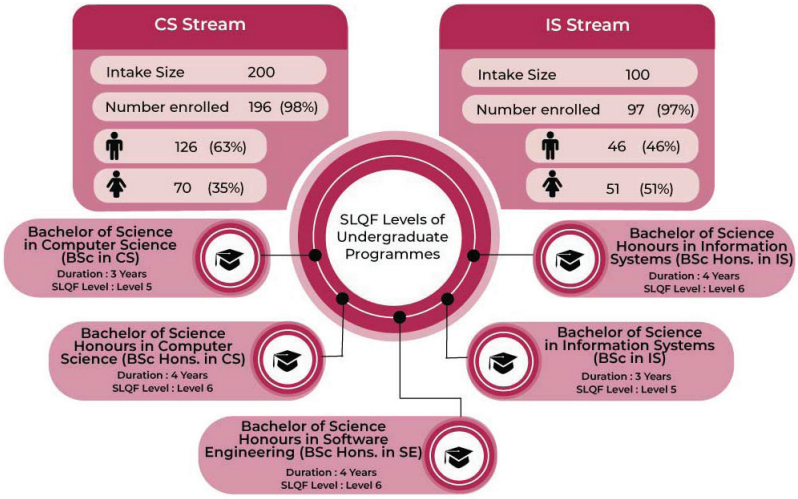
The major responsibility of UCSC is to promote computing education according to the international standards and norms of the University of Colombo. Hence, degree programmes classified with respect to undergraduate (internal), postgraduate, and external. The three Boards of Studies are responsible for the operational processes of these educational programmes.

UNDERGRADUATE EDUCATION

The major responsibility of UCSC is to promote computing education according to the international standards and norms of the University of Colombo. Hence, Degree programmes are classified as undergraduate (internal), postgraduate, and external. The three Boards of Studies are responsible for the operational processes of these educational programmes.

INTERNAL UNDERGRADUATE DEGREE PROGRAMMES

UCSC offers two undergraduate programmes in Computer Science, Software Engineering, and Information systems at the SLQF Level 6 and two programmes at the SLQF level 5. 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%.



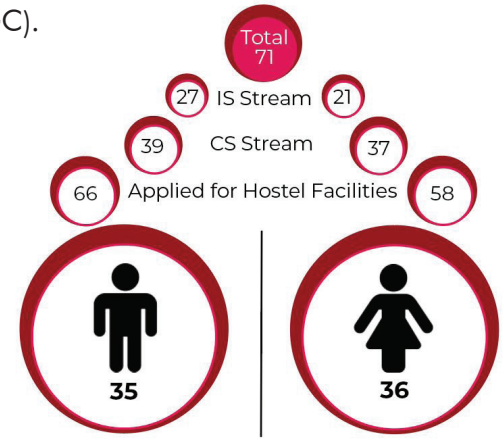
An academic year usually consists of two semesters where each semester comprises 15 weeks. The inauguration for the new undergraduate students selected for UCSC was held on 3rd March 2020 and followed by the orientation programme from 4th March 2020 to 18th March 2020 before the commencement of the academic year. https://ucsc.cmb.ac.lk/events/undergraduate-inauguration-2020/



UNDERGRADUATE STUDENT WELFARE

HOSTEL FACILITIES

In the year 2020, the UCSC provided the neediest 1st year undergraduates with residential facilities in keeping with the UCSC policy and according to the progress of the University Grants Commission (UGC).



LIBRARY SERVICES

The primary role of the UCSC library is to facilitate academics and the student body of UCSC with a variety of reliable and quality resources that support learning, teaching, and research work. The Library possesses a rich collection of books, magazines, conference proceedings, theses, and dissertations covering a vast area of disciplines related to Computer Science. The library users can accomplish their need for timely access to the information relevant to the resources through the online public access catalog of the UCSC library (http://pusthaka.ucsc.cmb.ac.lk/). UCSC digital library provides free access to the dissertations of undergraduate and postgraduate studies (http://dl.ucsc.cmb.ac.lk/jspui/).

For further information, visit https://ucsc.cmb.ac.lk/library/

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. 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.

COUNSELLING FOR UNDERGRADUATES

Student counseling is a service provided free of charge by the UCSC for all undergraduate students. Our experience over the past decades has shown that the level of stress resulting from various incidents of life, such as family matters, relationships, learning, and career decisions, is increasing. The UCSC Counselling service focuses on providing a conducive environment for students who seek help at the early stage of their particular psychosocial problem. Our Counsellors are qualified to give a listening ear to the students and to assist them in helping themselves in dealing with issues that they are facing.

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 Alumni association of UCSC. Students who faced a lot of issues of buying a computer to engage with academic activities were supported with the help of the Alumni association to buy computers.

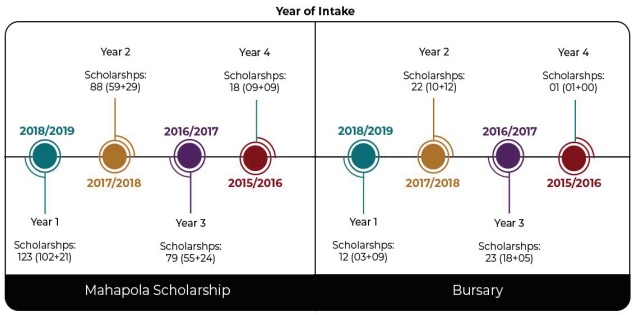
FINANCIAL ASSISTANCE FOR UNDERGRADUATE STUDENTS

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 SCHOLARSHIP AND BURSA

The Mahapola scholarship sponsored by the Mahapola Trust Fund of the Ministry of Commerce & Consumer Affairs was awarded to 308 students during the year 2020. The value of Merit and Ordinary scholarships were Rs. 5,050 and 5,000 respectively. Bursaries were awarded in

accordance with UGC Circulars, which govern the selection of students for Bursaries. Further, 58students were awarded Bursaries during 2020.



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, 29 students were offered scholarships from the Student Welfare and Distress Fund. Among them, there were ten 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.

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

SCHOLARSHIP FUNDED BY FOREIGN DONORS AND INDUSTRY

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.

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

Degree Programme	Number of scholarships and scholarship amount	Duration
Industry Scholarship	08 Scholarships Rs. 5,000/- per month	12 months
Foreign Scholarship	02 Scholarships Rs. 5,000/- per month	Until the studentship end

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. The student union represents all years of study, study programmes, and all ethnic groups, and it is the formal body represent in formal meetings and informal discussions.

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.

STUDENT ACTIVITIES

Student activities are carried out through the Student Union and societies of UCSC mainly to promote cultural and recreational activities among students. Some of these activities conducted during 2020 includes UCSC Padhura (Musical Show), annual outing of ISACA Student group, AGM of ISACA Student group, T-Shirt Designing Competition (online), Online Avurudhu Competitions, ReidExtreme 1.0 (Software Hackathon), Workshop for CreativeEye, and competition, Workshop Controlling using GitHub by Computer Society, Workshop - Introduction to DevOps and AGM of UCSC ACM Chapter.



STUDENT ACHIEVEMENTS

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. Some of these activities participated during 2020 include

- Mora Scrabbler 2019, University of Moratuwa (3rd Place)
- Haxmas 2020 organised by Information Institute of Technology (Finalists)
- HackX organised by University of Kelaniya (Finalists)
- Hacktitutude 2020 organised by 99x Technology (Finalists)
- Oration 2020 - Inter University Speech competition, (Semi-Finalists)
- "ILLUMINATE" inter-university best speaker by university of Sri Jaywardenapura (1st place)
- CodeFest organised by SLIIT (Finalists)
- MoraExtreme, University of Moratuwa (2nd Place)
- IEEEXtreme, Internationa programing competition by IEEE (4th Place & Globally 97th)
- SHARp 1.0 organized by Society of Computer Science University of Sri Jayawardenpura (Finalists)
- Unilever Inquisitive Minds Ideathon, (Winner)
- Inter-University Esports Championship (2nd Place)
- Hacking Challenge eCSW by Lanka CERT (2nd Place)
- Code with Woman In Engineering (3rd Place)
- Inter-university Quiz by HEMAS (3rd Place)

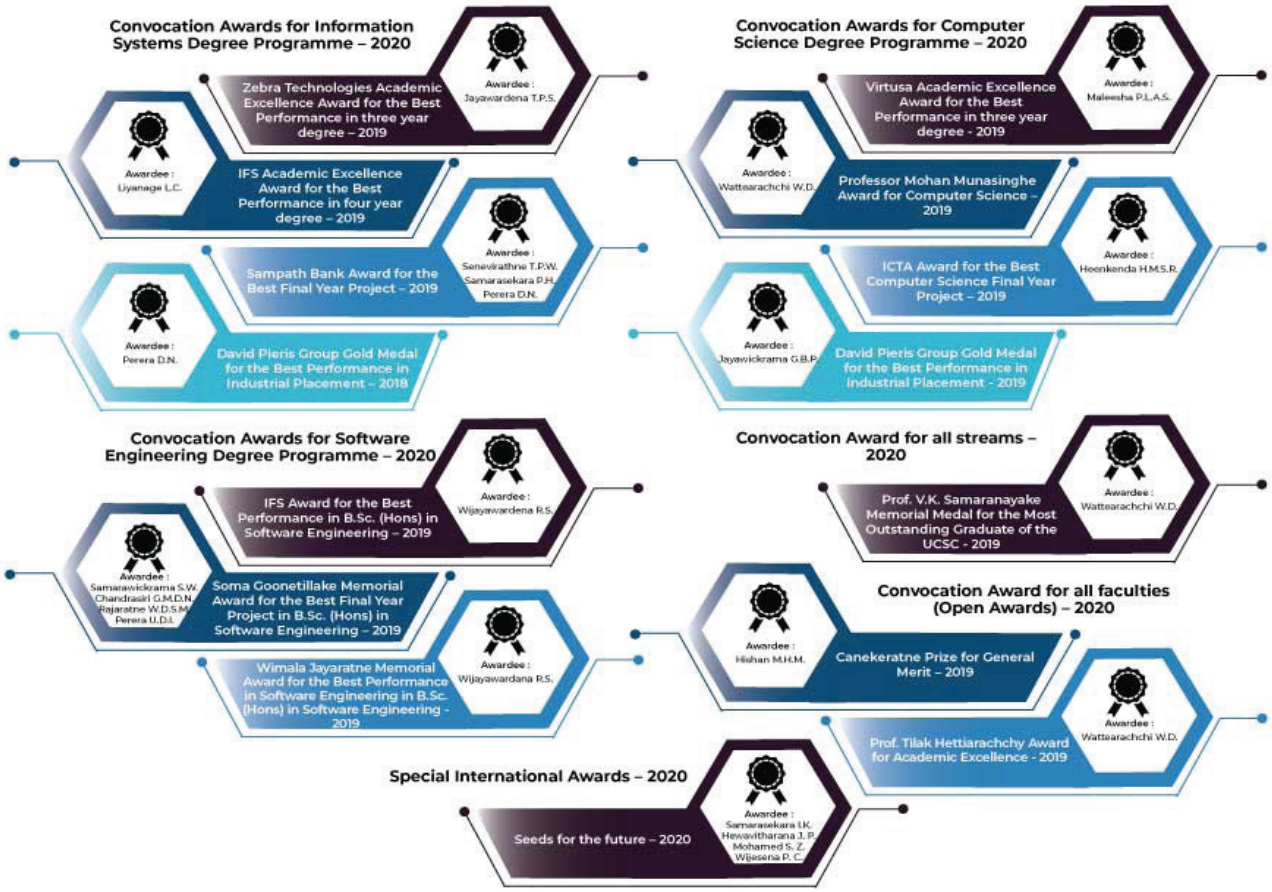
GRADUATION 2020

The convovation 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.

Programme of Study	No. of students Sat for the Final Exam		Total no. of students Graduated											
			First Class		Second Upper		Second Lower		Pass		Total		Pass Rate %	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
B.Sc. in Computer Science	90	34				1	13	3	73	30	86	34	95	100
B.Sc. in Information Systems	22	56	0	0	3	6	1	11	14	36	18	53	81	95
B.Sc. (Hons) in Computer Science	24	7	6	1	8	2	7	3	2		23	6	96	86
B.Sc. (Hons) in Information Systems	11	9	5	3	2	6	4				11	9	100	100
B.Sc. (Hons) in Software Engineering	3	7		4	1	2	1	1	1		3	7	100	100
TOTAL	**150**	**113**	**11**	**8**	**14**	**17**	**26**	**18**	**90**	**66**	**141**	**109**	**94%**	**96%**
%			7%	7%	9%	15%	17%	16%	60%	58%				

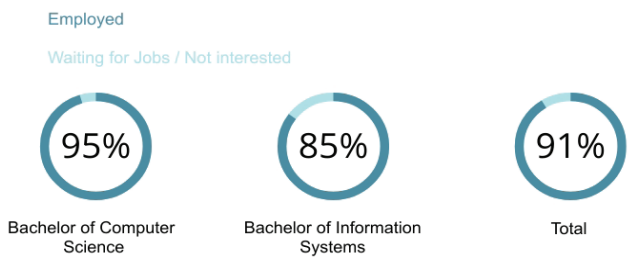
UNDERGRADUATE AWARDS

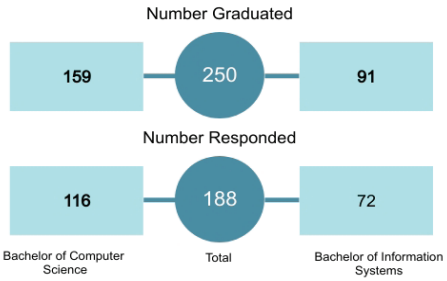
Several convocation awards are declared for all degree programmes at UCSC. There is a pre-defined criterion for these awards and all selections are approved by the Senate of the University of Colombo. The following tables describe the awards declared on 30th December 2020.



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%.**





POSTGRADUATE STUDIES

MASTER DEGREE PROGRAMME

All master degrees of UCSC are taught masters in SLQF level 9 except for MSc in Computer Science which is SLQF level 10 with a 15 credits research project.

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.

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 programme 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. The 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 a new batch of the programme was also not started in the year 2020.

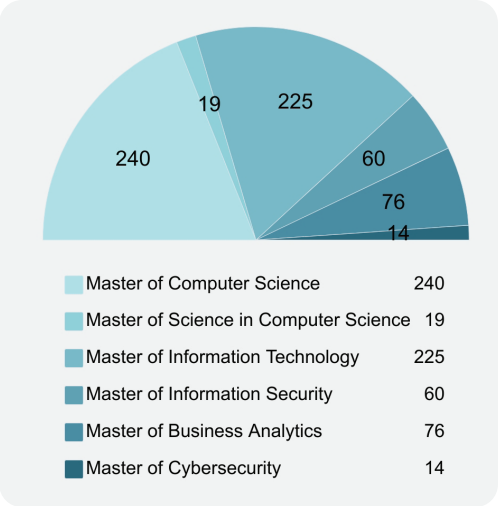
MASTER OF BUSINESS ANALYTICS

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; http://pgvle.ucsc.cmb.ac.lk.

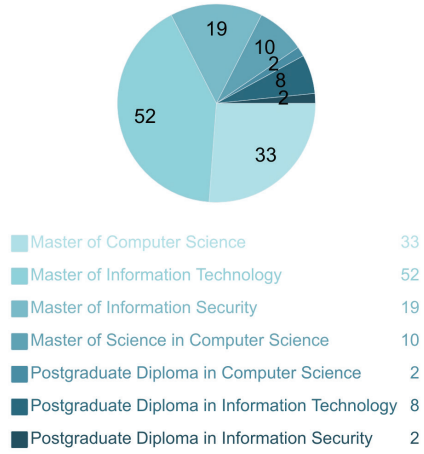
ENROLMENT



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 semester 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.

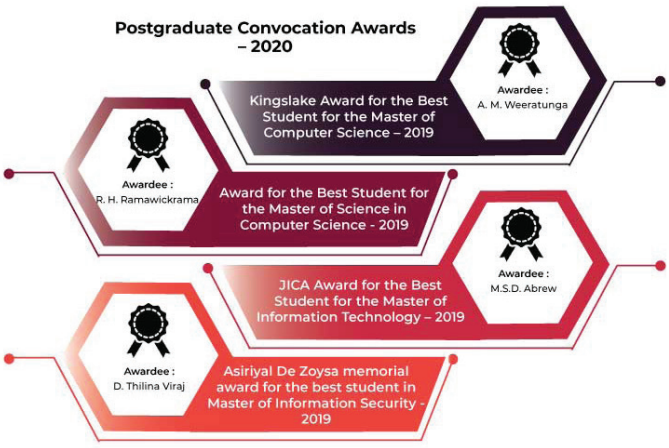
The student handbook for Master Degree programme was published in 2020 and its online version is available at the UCSC website http://www.ucsc.cmb.ac.lk/pg.

GRADUATION OF MASTERS PROGRAMME



Postgraduate Convocation for Master degree programmes 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 graducation ceremony at a later date. 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.

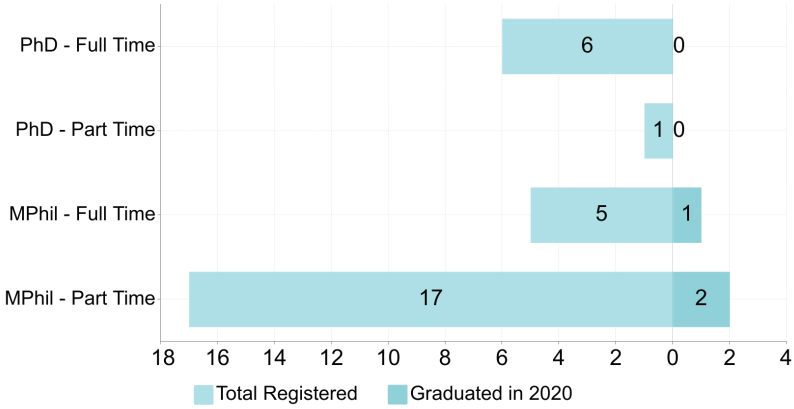
The list of postgraduate students who were eligible to receive special awards based on their performances in the programme, was also announced on 31st December 2020. Details are given below.



RESEARCH DEGREES – MPHIL AND PHD PROGRAMMES

The UCSC has a faculty of highly qualified staff specializing 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 constitutes 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.

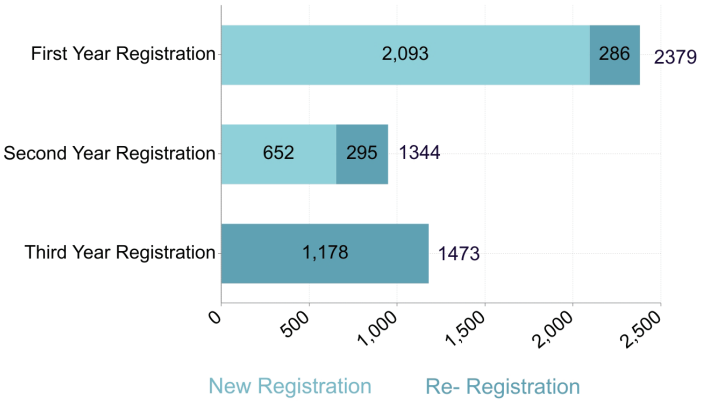
By considering the experience of the last few years, the bylaws and regulations of both the MPhil and PhD degree programmes were revised in 2019. The revised By-laws and Regulations of the MPhil/ PhD in Computing degree programmes have been approved by the Senate and the Council of the University of Colombo.



EXTERNAL & EXTENSION COURSES

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.



STUDENT PERFORMANCE – 2020

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

External Undergraduates	2020	2019
DIT - New Intake	2099	1098
DIT – Registered	2370	2373
DIT – Diplomas	**651**	436
[DIT/Registered]%	**27%**	**18%**
HDIT - Higher Diploma Intake	639	401
HDIT - Higher Diploma Registered	1303	1634
HDIT - Higher Diplomas	**274**	120
[HDIT/Registered]%	**21%/**	**7%**
BIT - Degree Intake	289	174
BIT - Degree Registered	1312	862
BIT – Graduates	**284**	177
[BIT/Registered]%	**22%**	**20%**

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

CONVOCATION AWARDS

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

Name of Award/Medal		2020
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	1st Semester – 2019	R.M.D. Roshinie
	2nd Semester – 2019	B.A.S. Hansamali
	3rd and 4th Semesters – 2019	L.P.S.S. Kumara

EMPLOYABILITY

At the time of convocation, the employability details of graduates were collected using a small questionnaire. The current statistics shows employability of BIT degree programme before the graduation is over 87%.

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.

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. http://www.bit.lk.

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.

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/

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.

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

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.



RESEARCH

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.

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.

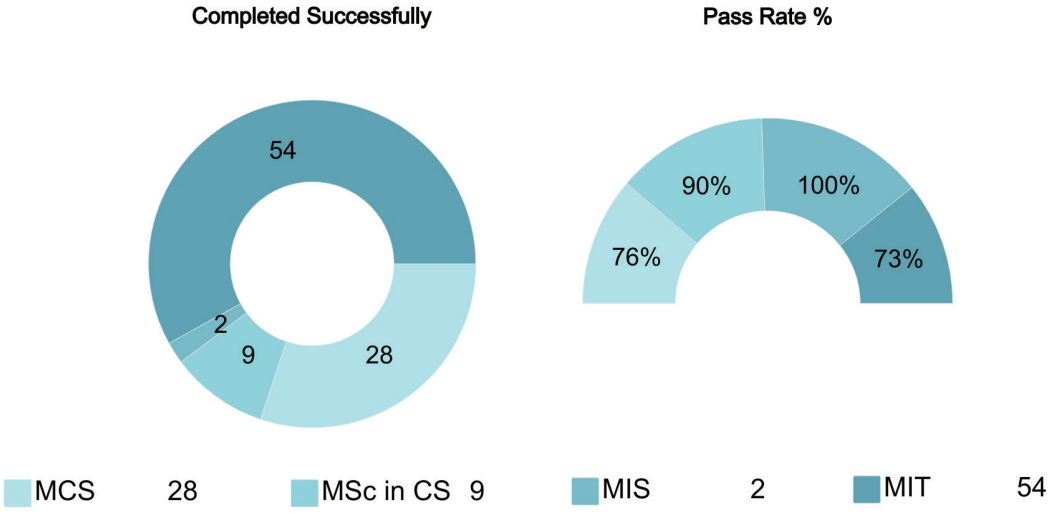
Degree Programme	Number of Students	No. of Projects
BSc Honours in Computer Science	32	32
BSc Honours in Information Systems	20	7
BSc Honours in Software Engineering	8	3

- Investigating the chest imaging features of Covid-19 patients using machine learning techniques (3)
- Predicting Undergraduate student's performance using an effective machine learning model (4,9)
- An automated process to extract morphological features of the knee joint using Arthroscopic images (3)
- Data dependancy aware Hardware-Software Partitioning for FPGA-based MPSoC (9, 11)
- Using Sentiment Analysis to Detect Biases Shown by News Organizations (16)
- Applicability of Deep Learning on voice/speaker recognition (8, 9)
- A Deep Learning Approach for Automatic Sinhala Poem Generation (9,11)
- A SOM Inspired Semi-supervised Learning Algorithm (9)
- Applicability of end-to-end deep neural architecture on sinhala speech recognition (8, 9, 17)
- Performance analysis on web server architectures (9)
- Semi-supervised learning approach to identify elephants using colour images with convolutional neural networks (9, 10, 15)
- Suggestion mining and aspect extraction from online reviews and forums (8, 9)
- Evaluating reviews removing human personality bias (10, 16)
- Behaviour Based Tracking for Human Following Robot (3, 8, 9)
- Simulation of a Virus Transmission on a Dynamic Heterogeneous Node Graph Structure (3)
- Identification of False smut and Neck blast diseases in paddy grains using Computer Vision (3,12,15)
- X-Paxos/E-Paxos extensions to handle byzantine+leaderless+asynchronous scenarios (8, 9)
- Efficient Aggregation Model for Federated Learning in the Presence of non-IID Data (9, 10)
- Exploring transformer architectures for improving Sinhala - Tamil MT (10, 16)
- An Effective Data Transformation Approach for Privacy Preserved Learning Analytics Clustering and Prediction (4, 10, 17)
- Context-Aware Assistive Technology Framework for Visually Impaired Indoor Navigation (9, 10, 16)
- Using Deep Learning Methods in inferring natural selection from genomic data (3, 15)
- A Deep Learning Method to Image Colorization (8, 9)
- Resource Intensive Query Generation for Stress Testing GraphQL APIs (9)

- Suggesting optimisation for Web-pages related to In-Page SEO using ML (9)
- A reinforcement learning approach to behaviour planning in autonomous vehicles (9,10,11,12,13)
- A Decentralized Framework for Blacklisting Phishing URLs (9, 16)
- A Deep Learning based approach for the detection and classification of diabetic retinopathy in human retina (3)
- Communication-affinity aware colocation of containers (8, 9)
- Microbiome data analysis for disease likelihood prediction (3)
- Uncovering types of IPs behind malicious domains (9, 16)
- Enhance the Quality of VR based CPR Training by Improving Realism (VR for CPR) (3, 4, 9)
- cGraph: Graph Based Extensible Cyber Threat Intelligence Platform (9,16)
- An algorithmic approach for automating the sorting and grading harvested TJC mangoes (2,12)
- UrbanAgro : Application to Support Sri Lankan Urban Farmers to Detect and Control Common Diseases in Tomato Plants (12, 15)
- Security bug detection and prediction in JavaScript projects (9)
- Effectiveness of Music Based Mathematically Generated Arts for Social Well-being (3,10,11)
- Augmented Reality based Approach to Manage Stress and Anxiety (3,8)
- An Interactive 3D Metaphoric Data Visualization System for Pandemics (3,11)
- Gamifying the Early Learning capabilities of kids addressing the issue of Social Distancing (4,10,11)
- Sinhala and Tamil OCR based Voice-assisted Reading System for Visually Impaired people 4,10,16)

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. 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.



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 applications were received for the MPhil degree and only 02 applicants were eligible to register in the programme.

FUNDED RESEARCH PROJECTS

INTERNAL RESEARCH AND DEVELOPMENT PROJECTS

UCSC staff submitted proposals to internal and external authorities to obtain funds for research and development activities of the UCSC. Following table shows to the details of each funded project.

Research Project/Activity	Principal Investigator/ Research Group	Donor Agency or Sponsoring Organization	Type of Grant (Local or Foreign)
Detecting the onset and progression of depression from textual cues in online communication for providing timely intervention	Dr. A R Weerasinghe	UCSC	Local
Modeling and Prediction of Solid Waste Generation using Machine Learning Approaches in Sri Lanka	Dr. M G N A S Fernando	UCSC	Local
Enhance English language learning through m-learning in different learning communities	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, Sweden	Foreign
Swedish Research Link	Dr. T.N.K. De Zoysa	Swedish Research Council, Sweden	Foreign
Entity Resolution in Multimedia Databases	Dr. K.L. Jayaratne	National Science Foundation	Local
Conversational Interfaces for Local Languages under Innovation Commercialization Enhancement (ICE)/ AHEAD project	Dr. A.R. Weerasinghe	World Bank	Foreign
Research Collaboration between and UCSC and Genomics Lab PVT. LTd under Innovation Commercialization Enhancement (ICE) /AHEAD project	Ms. M.W.A.C.R Wijesinghe/ Dr. A.R. Weerasinghe		
Cost Effective Modeling and Simulation Solutions under Innovation Commercialization Enhancement (ICE)/ AHEAD project	Prof. N.D. Kodikara		
Blockchain and dApps under Innovation Commercialization Enhancement (ICE)/ AHEAD project	Dr. T.N.K. De Zoysa		

Permanent academic staff of UCSC, comprising both senior and junior staff, were supported to attend both local and international conferences/ symposiums.

Type of Conference	Published/ Presented
Local conferences	49
International conferences	22
TOTAL	**71**

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.

Staff members were also supported to utilize the allocation to cover their research expenses directly related to their research work . The following table shows the 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.

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.

Group Name	Goal of Research Group	URL of Research Group	Aligned UN's Sustainable Development Goals
Social Life Networks (SLN)	To provide the 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	http://ucsc.cmb.ac.lk/social-life-networks/	2, 4, 9, 11, 12, 15
Sustainable Computing Research Group (SCoRe)	To generate computing solutions through identifying low cost methodologies and strategies that lead to sustainability.	http://ucsc.cmb.ac.lk/research-groups/sustainable-computing-research/	3, 4, 8, 9, 11, 15
The modeling and simulation group	To design and develop innovative indigenous modeling &simulation solutions to local context and reduce import expenditure while blinding the local expertise to build internationally recognized modeling &simulation solutions	http://ucsc.cmb.ac.lk/research-groups/modelling-simulation-group/	4, 9
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	http://ucsc.cmb.ac.lk/research-groups/language-technology-research-laboratory/	3, 4, 5, 9,10
Distributed Computing	To develop novel middleware architectures and parallel algorithms based on shared persistent space and the emergent behavior of large scale distributed systems	http://ucsc.cmb.ac.lk/research-groups/distributed-computing-group/	4, 8, 9

The Bioinformatics and Computational Biology (BCB)	To conduct collaborative research with industry and academia in bioinfomatics data processing analysis.	http://ucsc.cmb.ac.lk/research-groups/bioinformatics-and-computational-biology-bcb-research-group/	1, 2, 3, 15
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	https://ucsc.cmb.ac.lk/unmanned-aerial-vehicles-research-lab/	2, 3, 4, 8, 9, 11, 12, 13, 15

RESEARCH PUBLICATIONS AND AWARDS

The following table shows the summary of research publications in 2020.

Type of publication	Local	International	Total
Conferences	29	19	48
Journals	3	12	15
TOTAL	**32**	**31**	**63**

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 , 9 awards were received for research work from different external organizations. Details are given below.

Name of the awards	Awarding Agency	Publication or Project	Team members
Best Paper Award	13th International Research Conference (KDUIRC 2020), KDU, Sri Lanka	"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	" 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	" Usage of Combinational Acoustic Models (DNN-HMM and SGMM) and Identifying the Impact of Language Models in Sinhala Speech Recognition"	Dr. Randil Pushpananda, Dr. Ruvan Weerasinghe, Dr Thilini Nadungodage
Executive Dean's Commendation for Outstanding Doctoral Thesis Award for 2019	Science and Engineering Faculty, Queensland University of Technology, Australia	"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	For Biomedical Engineering in 2020	Ms K P U Jayasinghe
Best Student Paper Award	Digital Forensics Research Workshop (DFRWS EU 2020)	"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)	"EMvidence: A Framework for Digital Evidence Acquisition from IoT Devices through Electromagnetic Side-Channel Analysis"	Dr Asanka Sayakkara
Elite Award of ICT Researcher of the year	Computer Society of Sri Lanka (CSSL)		Dr. K L Jayaratne
Elite Award of ICT Educator of the year	Computer Society of Sri Lanka (CSSL)		Dr. S T Nandasara

KEYNOTE/ INVITED SPEECHES OF UCSC STAFF

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?
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 ජයගන්නේ කෙසේද"

VISITING RESEARCHERS AT UCSC

Name of the staff	Event	Topic
Professor Adrian David Cheok, Director of the Imagineering Institute, Malaysia	5th-6th November 2020	Keynote Speech on "Everysense 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, United Kingdom	07th August to 12th December 2020	To deliver a lecture series for MIS Students
Dr. Primal Wijesekara Research Scholar University of California, USA	03rd January to 17th June 2020	To deliver a lecture series for MIS, MIT and Cybersecurity students

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

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", " Everysense 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/

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 statistics of ICTer Journal as follows:	
Number of submissions (2020)	16
Number accepted	05
Number published	04
Number of issues	03

3 Issues 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

The above three issues of ICTer Journals are available at http://journal.icter.org/index.php/ICTer/issue/archive

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 Imparied 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	Ketipearachchi 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, Technology in Society"*, Elsivier, Volume 62, 2020, ISSN 0160-791X, https://doi.org/10.1016/j.techsoc.2020.101321.
07	Hussain W., Perera H., Whittle J., Nurwidyantoro A., Hoda R., Shams R. A., & Oliver G. (2020)."*Human Values in Software Engineering: Contrasting Case Studies of Practice*" in IEEE Transactions on Software Engineering, 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". Asian Research Journal of Mathematics, 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", International Journal of Bioscience, Biochemistry and Bioinformatics 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"*, International Journal of Psychosocial Rehabilitation, 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"*, TEST Engineering and Management, ISSN:0193-4120, vol.82,pp.12731-12737,(Jan-Feb.2020),http://www.testmagzine.biz/index.php/testmagzine/article/view/2889/

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01	Wasura Wattearachchi, 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, 20th – 22nd 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 (IHIET 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 (IHIET 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.
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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
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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, 05th – 06th 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, 05th – 06th 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 , Ruvan Weerasinghe (2020), *"Deep Learning Based Sinhala Optical Character Recognition (OCR)"*, 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 , Ruvan Weerasinghe, (2020), *"A Comparison of Transformer, Recurrent Neural Networks and SMT in Tamil to Sinhala MT"*, 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/
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21	Chashika Weerathunga, Dr. A.R. Weerasinghe, Dr.K.D. Sandaruwan (2020), *"Lip Synchronization Modeling for Sinhala Speech",* 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), *"A Framework to Decide Adaptive Functionalities by Considering User Emotions and the Context",* 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), *"Cross Language Information Retrieval for Accessing the English Web in Sinhala",* 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/
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25	M.V.P.T.Lakshika, H.A.Caldera, W.V.Welgama (2020), *"Abstractive Web News Summarization Using Knowledge Graphs",* 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/
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27	N.H.P.I. Maduranga , H.E.M.H.B. Ekanayake (2020), *"An Enhanced Learner Evaluation Method Based on Psychophysiological Signals",* 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), *"Unsupervised Techniques for Meta-Analysis of Cancer Genomic Data",* 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/
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30	M.A.I.Perera, Ms. C.R. Wijesinghe, Dr. A.R. Weerasinghe (2020), *"Analysis of Expression Data Using Unsupervised Techniques",* 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), *"Secure Codecity with Evolution: Visualizing Security Vulnerability Evolution of Software Systems",* 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), *"Hub genes identification in Brain Cancer With Gene Expression Data",* 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), *"Protein-Protein Interaction Networks Comparison Between Paediatric Neuroblastoma Cancers And Glioblastoma Multiforme Cancers With Gene Expression Data",* 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), *"Genomic Data Analyzing Workflow for Single Nucleotide Polymorphisms in Human Nervous System Cancers"*, 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), *"Combinatorial Impact Of Technical Indicators On Price Prediction In Colombo Stock Market",* 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), "*Three-Way Framework Using Fuzzy Concepts and Semantic Rules in Opinion Classification*" , 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, *"Technical and User Evaluation of Babbage Cabbage - An Empathetic Biological Media",* Applied Internet and Information Technologies 2020 (AIIT 2020), 16 October, 2020, Zrenjanin, Serbia http://www.tfzr.uns.ac.rs/aiit/
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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/
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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
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49	Hewagamage, K.P. (2020). *"ICT is Everywhere… Why Not Healthcare?"*. Abstract at the Annual Research Symposium on "Strengthening Nursing Education for Emerging Health System Challenges" of the Faculty of Nursing, 18th December 2020
50	Dharmawardene, R.P., Ananda, M.G.L., Weerasinghe, T.A. (2020). *"Vocabulary Learning in ESL: Strategies Preferred by Undergraduates in Sri Lanka",* The 6thAnnual International Conference on Humanities and Asocial Sciences (RUICHSS), University of Ruhuna, Sri Lanka, 05.11.2020, p 11.



HUMAN RESOURCES

ACADEMIC AND NON-ACADEMIC

The human resources of an organization are the key foundation and the essential asset for development. There are two different policies to manage academic and non-academic human resources according to the guidelines of the university grant commission.

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 both degree programmes were 300 students. More than the qualification, the capability of staff members are very critical for the successful management of the academic programmes.

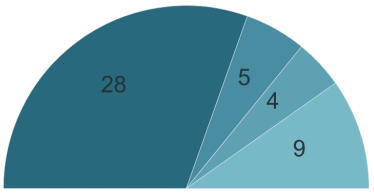
Designation Department/ Division/ Unit/ Centre	Cadre Positions	Current Staff	
		Permanent	Contract/Temp/ Assignment*
1. Director's Office	5	4	1
2. Establishment Division	8	4	2
3. General Administration Division	11	6	3
4. Academic & Publication (Undergraduate) Division	13	8	5
5. ISE Department (Academic)	58	21	40
6. CIS Department (Academic)	43	12	
7. CMT Department (Academic)	53	13	
8. Finance Division	14	12	1
9. Examination Division	11	7	2
10. Advanced Digital Media and Technology Centre (ADMTC)	6		2
11. Centre for Digital Forensic (CDF)	4	1	2
12. Library	6	2	2
13. Postgraduate Division	3	2	2
14. Engineering & Maintenance	10	5	4
15. Network Operating Centre (NOC)	15	5	4
16. External Degree Centre (EDC)	13	8	4
17. Professional Development Centre (PDC)	2		1
18. Computer Service Centre (CSC)	2		1
TOTAL	**277**	**110**	**76**

Staff category	Current Staff Distribution		
	Male	Female	Total
Academic Staff	40	27	67
	5	14	19
Administrative Staff	1	9	10
Financial Administrative	2	2	4
Academic Support Staff	12	7	19
Technical Staff *1	1		1
	3		3
Clerical & Allied		4	4
	9	27	36
Primary Staff	2		2
	2		2
	14	5	19
	91	**95**	**186**

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	12	18
Temporary Instructor				5	14	19
Total	**32**	**14**	**46**	**13**	**27**	**40**

OVERALL PROFILE OF THE UCSC STAFF

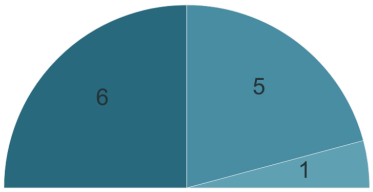
In 2020, one Academic staff member obtained study leave to read a doctoral degree in a foreign university. Two Academic staff members obtained sabbatical leave.



Highest Computing Qualification of the Academic Staff

Number of Staff - 46

PhD
MPhill
MSc
BSc (Hons)



Highest Academic Qualifications of the Administrative and Finance Staff

Number of Staff -13

MPhill
Msc/MBA
Bachelor

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.

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

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. 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. 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 supported to attend ICTer2020 and NICT2020 conferences, in order to improve their research and development awareness.

The training programmes offered for the UCSC staff during 2020.

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	03
03	Staff Development programme - Staff Development Centre, University of Colombo	Academic	01
04	Awareness programme on e – Procurement – conducted by the Miloda Academy of Sri lanka	Executive - Finance	03
05	One day training programme on "Combatting Corruption" - conducted by the Miloda Academy of Sri lanka	Executive - Finance	02
06	Diploma in Labour Education, conducted by Institute of Human Resource Advancement	Clerical	02
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 staff	01
09	3 day training programme on "Public Service Disciplinary Procedures" - -conducted by Miloda Academy of Financial Studies	Executive	01
10	Virtual seminar on "Sri Lanka Accounting Standards " – conducted by the Institute of Chartered Accountants Sri lanka	Executive	03
11	National Conference of Chartered Accountants - conducted by the Institute of Chartered Accountants Sri Lanka	Executive	03
12	" Electrical equipment usage and its maintenance – conducted by an industry expert	Primary Level staff	15
13	Cousera – online courses	Executive/ Clerical	02

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 illnesses. Further, UCSC organized 1 health seminar for all staff during 2020, with the support of the 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.

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.

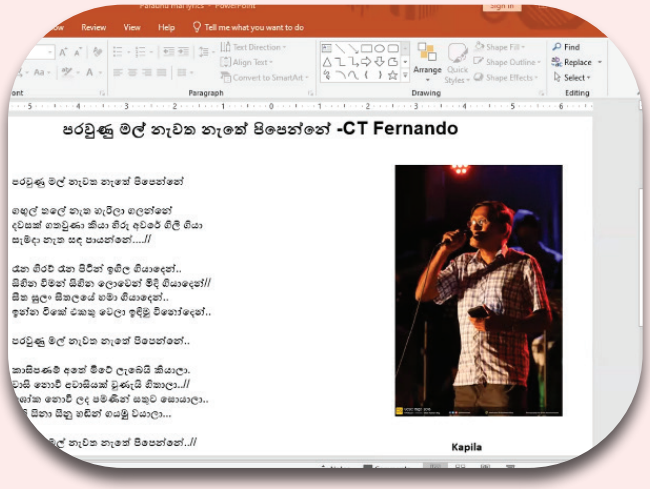
With the outbreak of the Covid-19 epidemic in the early 2020s, many of the welfare community's collective activities were suspended due to the cessation of collective action. The welfare society organized the collection of financial aid as much as possible for needy members who had been locked down and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











INSTITUTIONAL DEVELOPMENT

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 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.

The Main QAC activities carried-out in 2020:

1. Carried out data gathering and analysis with respect to degree programmes and institutes.
2. Carried out BIT Curriculum revision
3. Introduce MOOCs for Undergraduate/ Postgraduate/ External Degree Programmes and Personal Development Centre
4. Introduced a procedure for the paper setting of undergraduate/ postgraduate/ external degree programmes
5. Actions were taken based on summary reports of feedback forms of Undergraduate/ Postgraduate Degree Programmes
6. Carried out the employability survey of students graduating in 2020 in coordination with PDC
7. Improved the process of company registration for industrial training in coordination with PDC
8. Prepared a strategic plan of QAC based on the Strategic Plan of UCSC

INFRASTRUCTURE DEVELOPMENT



CAPITAL PROJECTS – 2020

The Engineering and Maintenance Division is responsible for providing buildings and other infrastructure facilities to assure an environment conducive for teaching, learning, and research activities of the UCSC by ensuring the development and rehabilitation projects are planned and implemented within the agreed time frames and fund allocations while maintaining the quality of work. The summary details of Rehabilitation Projects carried out by the UCSC in the year 2020 are shown in the following table.

Name of the project	Project cost [Rs.]
Refurbishment of the Research Floor Area at the UCSC.	6,069,649.75
Supply, Installation, Testing, Commissioning and Maintenance of Split Type Air Conditioning Units for the Administrative Building	4,252,975.05
Supply, Installation, Commissioning, Testing, Extension and Maintenance of the Fire Protection System at the UCSC	7,116,154.00
Renovation and Refurbishment of Service Block (Washroom Area) in the UCSC Building Complex.	17,161,963.85
Landscaping Phase I near the Outdoor Student Pavilion at UCSC.	522,610.00
Rehabilitation, GI Works, Aluminum Doors, Window & Glass Portioning at UCSC.	624,300.00
TOTAL	**35,747,652.65**

DEVELOPMENT OF THE INSTITUTIONAL RECOGNITION

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

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

CONTRIBUTIONS FROM UCSC STAFF MEMBERS

Name	Organization
Athukorala D.A.S. (Dr.)	• Secretary – Computer Society of Sri Lanka
	• Visiting Lecturer - Faculty of Management & Finance, University of Colombo
	• Member of Technical Evaluation Committee
	- Ministry of Ports & Shipping
	- Urban Development Authority
	• Consultant
	- 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 Reviwer Program Committee Member of International Research Conference on Smart Computing & Systems Engineering - Department of Industrial Management, University of Kelaniya
De Silva L.N.C. (Dr.) (Mrs.)	• 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
	- 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.)	• Consultant
	- 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 Reviwer/ Session Chair
	- 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 Tresurer - Colombo SIGCHI chapter
	• Country Representative - International Federation for Information Processing
Hewagamage K.P. (Prof.)	• Member of Council, University of Colombo
	• Member of Presidential Taskforce for Education in 2020
	• Member of the Board of Management
	- National Institute of Library and Information Sciences
	- Institute of Biochemistry, Molecular Biology & Biotechnology
	- National Apprentice and Industrial Training Authority
	• Director – Lanka Education and Research Network (LEARN)
	• 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 Educaiton
	• Member of UGC standing Committee on External Degrees
Hettiarachchi K.H.E.L.W. (Dr.) (Ms)	• 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
	- 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.	• Technical Evaluation Committee Member – Postgraduate Institute of Archeology
Jayaratne K.L. (Dr.)	• Member of Police Information and Communication Systems Operational Committee, Ministry of Defence.
	• Member of Technical Evaluation Committee
	- Sri Lanka Standards Institution
	- Department of Registration of Persons
	- Ministry of Education

Maduranga N.H.P.I.	• 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.)	• Visiting Lecturer
	- Institute of Human Resource Advancement, University of Colombo
	- Sri Palee Campus, University of Colombo
	- University of Vocational Technology
	• Member of Technical Evaluation Committee
	- Department of Labour
	- Ministry of Environment
	• Consultant - Ministry of Environment
	• Coordinating Young Computer Scientist (YCS) evaluation which was organized by Ministry of Education & Federation of Information Technology Industry Sri Lanka (FITIS)
	• Technical Consultant for Annual Research Symposium 2020 of Faculty of Law, University of Colombo
Perera D. (Mrs)	• Consultant – Sri Lanka Mahaweli Authority
Thilakeratne K.M	• Member of Technical Evaluation Committee, Education Employees Co-operative Thrift & Credit Society Limited
Weerasinghe T.A. (Dr.) (Mrs)	• Member of Technical Evaluation Committee, Educational Publications Department, Ministry of Education • Visiting Lecturer - Management Faculty, University of Colombo - Faculty of Graduate Studies • Member - 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 Reviwer, International Conference on Advances in ICT for Emerging Regions
Weerasinghe A.R. (Dr.)	• Member
	- 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 – Institute of Biochemistry, Molecular Biology & Biotechnology
	• Visiting Lecturer
	- University of Ruhuna
	- Informatics Institute of Technology

	- Institute of Biochemistry, Molecular Biology & Biotechnology
	• Reviewer
	- National Science Foundation
	- Informatics Institute of Technology
	• Consultant - Eastern University of Sri Lanka
Welgama V.W	• Member of Technical Evaluation Committee, Education Employees Co-operative Thrift & Credit Society Limited
Wickramasinghe M.I.E. (Dr.)	• Visiting Lecturer - University of Ruhuna
	• Technical Evaluation Committee Member
	- Department of Registration of Persons
	- Ministry of Defence
	- Coconut Cultivation Board
	• Consultant
	- Lanka Sathosa
	- Rajarata University
	• Chairman – Technical Evaluation Committee /Gurugedara Education Employees Co-operative Thrift & Credit Society Limited
	• Reviwer of Conference/Journals
	- 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 - National Best Quality Software Awards
De Zoysa T.N.K. (Dr.)	• Technical Evaluation Committee Member - Sri Lanka Export Development Board • Consultant - Development Lotteries Board - State Mortgage Bank

UCSC CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDG) – 2020

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.

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 to reduce 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.	**Tuition fees are not charged** from undergraduate students under the free education policy. Mahapola and Bursary **scholarships are provided** using government funds. Special scholarships are provided using generated income **Special financial supports** are provided through the Alumni association **Free Computers are provided** to students who cannot purchase with the help of the Alumni Association Welfare Society carried out many activities **to support those who were suffering due to financial issues** due to the covid-19 pandemic	Expand the education to 500 students irrespective of their family income

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 	Subsided canteen for students to provide good quality food at a low price. UCSC established the canteen committee to ensure and monitor the quality of food. Conduct meetings to solve issues raised by students against the canteen owner and improved awareness of both the staff and students.	The project of **building the kitchen extension** for the canteen was started Special **financial assistance** was provided for students who lost their parents **Scholarships for living** were provided even during online teaching and learning Staff members who faced critical financial problems were **supported through distress loan and welfare society** During the WFH period, staff was **promoted to engage in home gardening** activities The Social Life Networks Research Group contributed **deploying the GoviNena Home garden app to promote home gardening**	Improve **canteen facilities and provide high-quality food** for students and staff. Provide **financial assistance for low-income** students Provide **loan facilities** for the staff who are in distress. Improve activities with respect to staff welfare. Carry out **ICT research related to e-agriculture.**

GOAL 3: GOOD HEALTH AND WELL-BEING

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 Progress	Target by 2030
03	Ensure healthy lives and promote well-being for all at all ages 	UCSC has implemented a **Medical scheme for its staff** and arranged awareness programmes. The medical center provides **medical assistance** for UCSC students free of charge and UCSC provides **free transport** facilities for students up to National Hospital Colombo. **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 **Counseling service** to staff and students	Using the mdical support scheme, the **staff and their immediate family members were supported during 2020** Special seminar to improve the **awareness of good health** practices were conducted The WFH was practiced among all staff to **minimize the spread of Covid-19 virus** Many guidelines were issued to maintain **social distancing and health practices** such as washing hands and having face mask during working hours Suspected staff members were **granted paid leave to stay** at home due to covid-19 infection Government and university guidelines were followed to **minimize the spread of Covid-19** All examinations were carried out based on the strick health regulations to protect staff and students **Professional counseling** was provided to both staff and students	Improve the level of satisfaction of staff and students Enhance current health care facilities for all students & staff Improve the counseling service

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 learningtunities for all 	UCSC provides free education, equitable and quality education by offering Certificate, Diploma, Higher Diploma courses and BIT degree for external students FIT programme as the foundation programme for those who are willing to improve their ICT knowledge and alternative learning path BSc. Degree programmes for areas in computing (5 degrees) according to international standards Postgraduate degree programmes in 6 areas of specialization UCSC has fulltime professors and senior academic staff to deliver high-quality teaching and research to students Maintain 90% employability rate among students.	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** All online lectures are recorded, allowing students to access them in both **synchronized and asynchronized modes** **Free Internet access was provided when accessing UCSC online learning environment** and participating in the online meeting through Zoom service Many **quality assurance activities** were carried out during 2020 **to improve the process of education** delivery while collecting students feedback at regular time points during the semester **Curriclum development of BIT and FIT** programmes were carried out to improve the quality of open educational initiatives of UCSC Several **student surveys** were carried out to **find out students issues** and facilitate them to engage in the education effectively The PDC carried out several activities in collaboration with the industry to **increase graduates professionalism through quality education**	Meet quality assurance indicators introduced by UGC from time to time to ensure high-quality education and international standards

GOAL 5: GENDER EQUALITY

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

GOAL 6: CLEAN WATER AND SANITATION

Goal No.	Description of goal	UCSC activities in line with SDGs	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 facilities and sanitary facilities by spending recurrent and generated an income of UCSC	The **service block of the building was rebuilt** to improve the sanitation facility, considering the staff and student population in the building **Drinking water** was provided for **all staff and students free of charge** The **condition of water** was **checked** at a regular time point. **Regular cleaning** activities were carried out, and they were **recorded daily**	Ensure drinking water for all students and staff and sanitation facility for all including differently-abled students

GOAL 7: AFFORDABLE AND CLEAN ENERGY

Goal No.	Description of goal	UCSC activities in line with SDGs	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 Monitor energy usage to manage the usage	According to the **energy saving policy, low consumption equipments** such as LED bulbs were used to replace when it is necessary. **Monitor the energy usage** to take actions to minimize the actions required **monthly** **A formal policy on Energy** savings was approved Many repair activities with respect to electricity supply were carried out to **minimize the electricity wastage**	Save energy by 15% by 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 the 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 **and workplace** Jobs were **secured for staff at UCSC by introducing WFH** culture along 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 economic 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 Carry out research and development projects to contribute technology innovation	**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 capital development was carried out to **upgrade the infrastructure** Many projects were supported for **innovative development considering the current covid 19 situation** ICTer Conference and Journal was the mechanism for **knowledge dissemination** to **promote industrialization** and innovation Research groups and projects were **encouraged/supported to carry out research activities to find innovative solutions** for crisis such as COVID through funding R & D activities	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 Carry out research projects to address different inequalities in the society Facilitate differently abled students and staff	**Welfare society carried out activities considering all staff on the same level** to promote their participation and reduce the inequality depending on the designation in the organization Facilitated students to acquire additional awareness to **improve their soft skills** 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 above

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 Use online technologies allow remote access to education	**All activities are revised and redesigned** considering Covid-19 pandemic situation to deliver online Students and staff carried out a program 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 afforadable degree programme for all** **Several projects** were carried out to promote sustainable **SMART cities.**	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 	UCSC follows waste management policies and sends waste for recycling. UCSC considers e-waste disposal process to minimize the environment damages Establish a policy to reduce the Enger consumption Become a paperless organization	Due to covid-19 pandemic situation, a significant amount of **consumption of electricity and water was reduced** UCSC continued to **monitor the consumption** of materials Repaired many types of **equipment and furniture** such as cupboards to reuse them again **E-waste management** policies were followed	Manage the consumption of energy and other resources. Obtain the maximum usage of goods/ assets before its disposal. Maintain good waste management and recycling system.

GOAL 13: CLIMATE ACTION

Goal No.	Description of goal	UCSC activities in line with SDGs	2020 Progress	Target by 2030
13	Take urgent action to combat climate change and its impacts 	Control usage of goods that have a direct effect on climate change such as different electronic devices, papers, and plastics Promote a paperless environment to reduce solid waste and manage the least plastic waste daily	UCSC **minimized the consumption of energy** due to the covid-19 situation and WFH The **policy of saving energy was formally approved,** and it was practiced when replacing all electronic equipment **Minimized the consumption of papers** Carried out **landscaping activities to increase the green environment** of the UCSC Reduce the consumption of papers by introducing activities such **as e-signature and electronic communication** under the work from home policy	Achieve the status of green campus

GOAL 14: LIFE BELOW WATER

Goal No.	Description of goal	UCSC activities 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	Minimized the consumption of water Improved the waste management in the organization	Contribute by reducing water consumption and protecting the quality of water Allocate funds for R&D activities to conserve and sustainably use the oceans, seas and marine resources for sustainable development

GOAL 15: LIFE ON LAND

Goal No.	Description of goal	UCSC activities 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 	Promote a paperless environment to reduce solid waste and manage the least plastic waste daily Promote research and development promote the life on land	**Landscaping activities** were carried out to increase the green environment of the UCSC, ensuring the protection of the t terrestrial ecosystem **Reduce the consumption of papers** by introducing activities such as e-signature and electronic communication under the work from home policy The scoreLab research group conducted **several research projects to protect, restore and promote sustainable use of terrestrial ecosystems** **Project to reduce the human-elephant conflict**	Provide innovative solutions to improve life on the land

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 Carry out projects to promote peace and justice in the society	All students are **educated about violence and ragging** within the university premises as well as online environment Activities were carried out to **develop friendship and harmony** among staff and students groups Several **research projects were carried to promote social peace and justice** as final year research projects Staff and student **complaints are addressed to minimize the issues** and provide a 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 International collaboration for research and development Promote consultancy and support for projects at other organizations	PDC continued its activities to promote **better relationships between academia and industry** UCSC took part actively many **national initiatives and projects** UCSC staff are promoted to actively **contribute national development to improve partnership** UCSC actively contributed main campus, UGC and other universities to improve the partnerships	Achieve the status of development with sustainability as the primary indicator of achievement

RISK AND OPPORTUNITIES IN THE DEVELOPMENT

RISK AND CONTINGENCY PLAN

Covid19 pandemic has become a serious issue that has resulted in many challenges and risks to continue the normal business and planned activities. Hence, key risks are identified to analyse the mitigation actions in line with the strategic goals and objectives of the institute.

Risk	Description	Mitigating Actions
Disruption to activities and action plan	Covid19 pandemic has resulted in a very uncertain environment, directly disrupting the engagement of the work and complete planned tasks on time, both academic and administrative management.	Information Technology and Online Platforms will be considered to carry out some of those activities to minimize the risk and maintain the continuity of the work. Strick guidelines will be followed when performing activities in the physical context. Continuously review the Action plan, identify gaps and adjust in accordance with the prevailing environment. (Eg. Online delivery of lectures, conduct examinations online and conduct of online meetings)
Failures of Technology	Due to the high volume of the work, the current capacity information technology infrastructure will not be enough, and technical failures could occur due to continuous usage by a large number of users. Hence, this will affect the smooth functioning of all online activities.	Continously monitor the usage of IT infrastructure and increase the security aspects of framework and services. Acquire new hardware and IT services based on the requirement.

Competitive Programmes offered by other institutes	There are several public and private Higher Education Institutes which offer programmes and services similar to UCSC. There will be more new organizations which will offer competitive services challenging UCSC.	Quality assurance will be a key process to maintain the high standards of academic and administrative programmes/activities of the UCSC. More publicity will be provided to increase the awareness of UCSC services and its standard.
Weaknesses in the Internal controls	Teamwork will be key to achieve many successes during the pandemic period. Remote working envioronment has resulted a less supervision and inadequate contribution will affect the operational efficiency of the institute	Leadership-based management will be used to obtain cooperation and collaboration to achieve targets in the plans. It is required to identify innovative ways of doing things differently to solve issues in the new normal condition. Guidance and motivation of the staff will be introduced to work in an agile working context.
Knowledge and skill gaps in working context	Many staff members will not have equal knowledge/skills to use IT in an online remote working environment. Staff may not have the required devices and facilities to engage the work remotely	Carry out special training programmes to improve the competency of staff in all categories to work in new normal. Facilitate the staff to acquire hardware, software and other services to engage in the work remotely.

OPPORTUNITIES

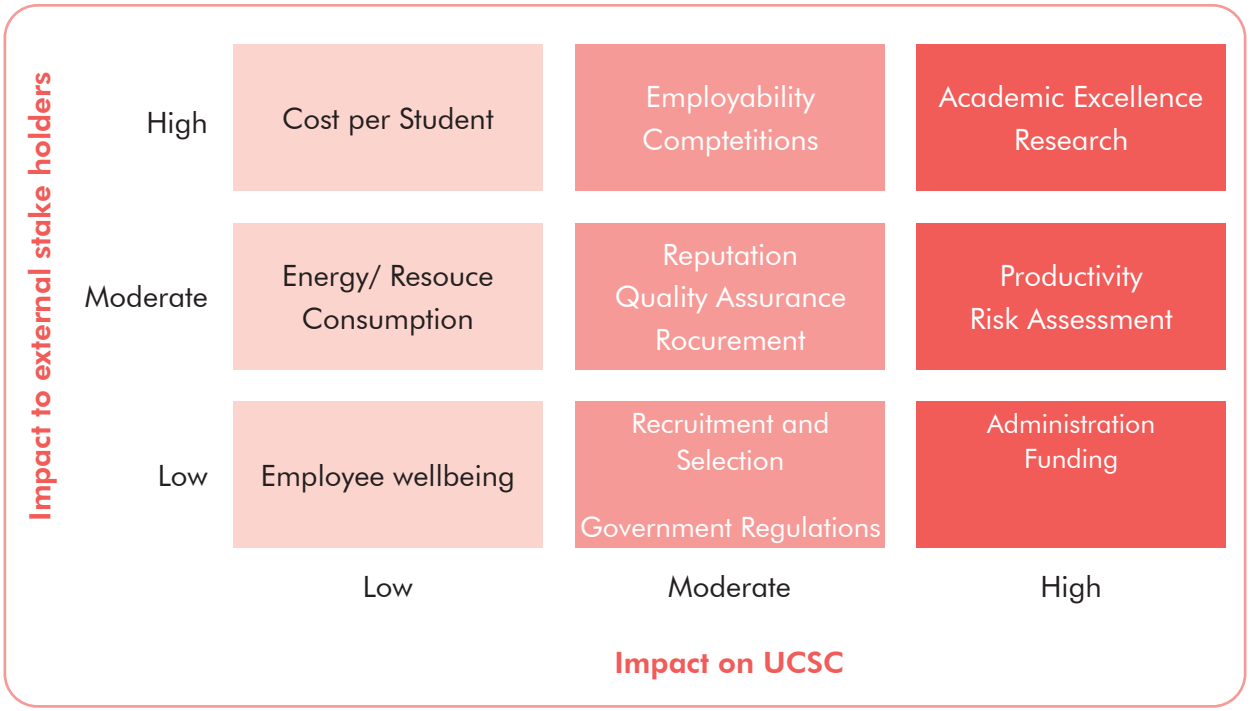
Opportunity	Description	UCSC response
Higher demand for computing / IT related study programmes	The job market of IT based services will be increased as well as it will not be disturbed due to the pandemic situation. Hence, the demand for IT-related study programmes will be increased in the coming years.	All academic programmes should be continued minimizing the effect due to the pandemic situation. Hence teaching, learning and assessment will be carried out considering digital architecture.
National requirements of addressing problems using IT services	The country is facing a pandemic situation, and it has resulted in a social crisis. Some of these issues could be addressed or minimize the negative effect by using IT-based services.	Promoting research and development activities targeting national issues Providing direct support for the government organization using the expertise of IT in the UCSC.

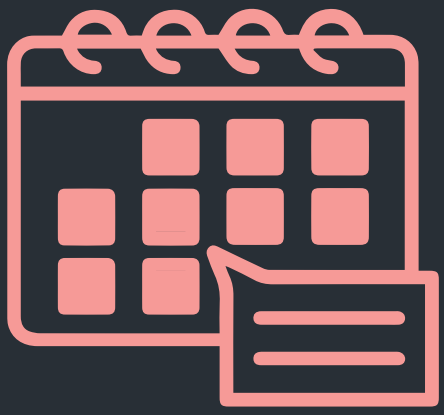
MATERIALITY ANALYSIS

Factors that substantially affect the value creation of the UCSC over the short, medium and long terms with the prevailing socio-economic environment are recognized and analyzed under materiality analysis. UCSC focuses materiality under five key areas, which highly impact on performance and sustainability of the institute via both internal and external stakeholders.

Main Category	Sub Category
Education	Academic Excellence
	Employability
	Quality Assurance
	Research
Environment	Reputation
	Energy/Resource Consumption
	Comptetitions
Economic	Procurement
	Funding
	Cost per student
Governance	Regulations
	Administration
	Risk Management
Human Resource	Recruitment and retention
	Employees well being
	Productivity

MATERIALITY MATRIX





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, 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.

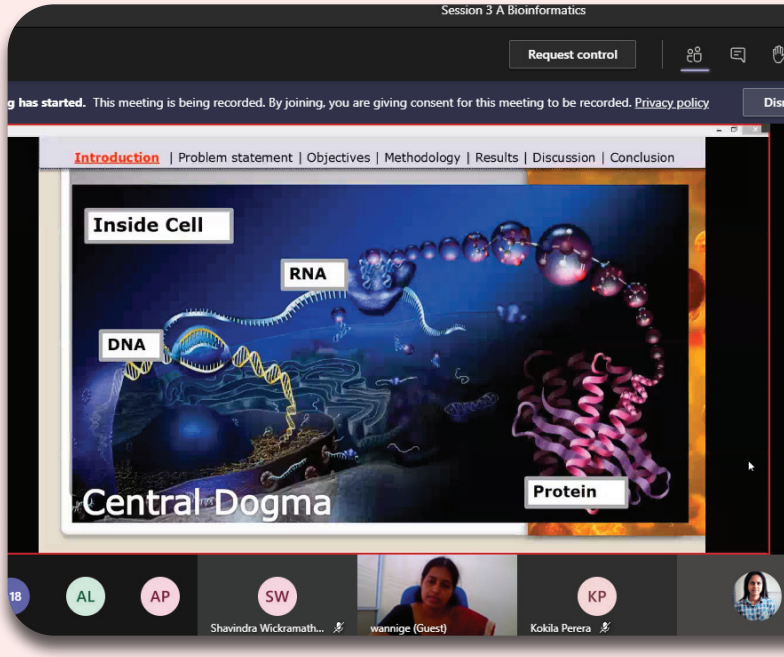
Month	Activities
January	• New Year 2020 Celebrations
	• Seminar on "Learn Big data and machine learning from a Googler" by Mr. Keshan Sodimana, Machine Learning Google Developer Expert and Mr. Valliappa Lakshmanan, Head of Data Analytics & AI Solutions, Google Cloud
	• Seminar on "Talk on taxi aggregator services" Associate Prof. Samitha Samaranayake, School of Civil and Environmental Engineering at Cornell University, USA
	• "UCSC Padura" (Musical Show) was organized by the Undergraduate of UCSC.
	• Certificate award ceremonies for the participants of Advanced Multimedia Web Design & Development Techniques, Graphic Design & Creativity Development, Java Application Development using JavaSE and Fundamentals of IT for Beginners
	• Registration of new students for External Degree Programme (BIT) 2020
	• Awarding ceremony of undergraduates selected for IFS scholarships
	• A workshop on "e-procurement" by Mr. Samantha Upananda of Sri Lanka Parliament
	• Talk on Colombo Machine Learning by Mr. Nuwan I. Senaratna, Computer Scientist & AI Specialist; Ex Software Engineer & Engineering Manager at Facebook, and UCSC graduate
	• AISEC-Excellentia '20 at the UCSC Auditorium
	• Seminar on Deep Learning for Computer Vision by Senior Prof. N.D. Kodikara, UCSC
	• Registration of New Undergraduates 2018/2019 intake of 300 students
February	• The commencement of second-semester exams of internal undergraduate degrees for all study years
	• 6 staff members of UCSC received Long service awards for serving 25 yrs, 30 yrs and 35 yrs service within the university system
	• Final Year Project presentations and viva
	• Certificate award ceremonies for the participants of Dynamic Web Application Development with PHP and MySQL, Java Application Development using JavaSE for 35 participants and Software Quality Assurance
	• Annual General Meeting of UCSC Welfare Society
March	• Inauguration of UCSC Undergraduate New Intake for computer scince and information system streams of study
	• Workshops for CISCO Online Courses
	• Industrial Placement Presentations
	• Selection Test of Masters Degree Programme
	• Discussion on Free Access to LMS Servers and Educational Resources of Universities with ITN - https://www.itntv.lk/discussion/hathweni-peya/
April	• Workshop Process Improvement and documentation of the Master's Project/ Independent Studies
	• Published 2020 first issue of ICTer Journal
	• online Selection Interviews for Masters Programme
	• Started all academic activities online
May	• Online selection interviews for Masters Degree Programmes
	• Launched and call for papers for ICTer 2020 conference
	• Coursera programme to UCSC staff and students
	• Announced Diploma in Information Technology awardees (552)
	• Programme launched to support students with the help of UCSC Alumni Association
	• Workshop on Microsoft office 360 was carried out for UCSC Staff

June	• Released the results of Higher Diploma in Information Technology (274)
	• UCSC Alumni Association donated 4 laptops for students who had financial difficulties to engage their online academic activities and monthly financial support for 38 students
July	• Certificate award ceremony for participants of Advanced Multimedia Web Design and Development Technique
	• 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
	• Released final examination results and list of awards and medals of UCSC undergraduates (284 graduates)
	• Final semester examinations of Master Programmes
	• Conducted semester examinations of Master Programmes
	• Received donation of 5 water sinks from Persistent Systems Lanka (Pvt) Ltd
	• Conducted an online election for Old Boy's Association of Ananda College,
	• Workshop on Assets Management and Board of Survey by Mr. Anura Lokugamage, Senior Consultant/SLIDA
	• Registration for the new intake of Masters Programmes
August	• Inauguration ceremony of Master Programmes 2019/2020 intake
	• Online lectures started for Master Programmes
	• Certificate awarding ceremony for participants of Software Quality Assurance using Test Automation Frameworks, JAVA Application Development using JavaSE, Advanced Multimedia Web Design and Development Techniques, and Graphic Design and Creativity Development
	• Online selection of National Olympiad in Informatics team for International Olympiad in Informatics 2020
	• Aptitude test to select 2019/2020 intake for BSC in IS degree programme
September	• Started undergraduate examination for 1st, 2nd, 3rd, and 4th-year students
	• Seminar on health awareness "Diet for Diabetics" via zoom by Dr. Ranil Jayawardena, Senior Lecturer, Faculty of Medicine, UOC
October	• UCSC undergraduates won the 2nd Place of eCSW Hacking Challenge organised by SL Certs at the e-Cyber Security Week 2020
November	• International Conference on Advances in ICT for Emerging Regions 2020. (ICTer2020). https://icter.org/conference/ and https://www.icter.org/conference/keynote-speakers/
	• Annual General Meeting of ACM Student Chapter
December	• Online seminar to uplift the employability skills of undergraduates of UCSC
	• Workshop on Electrical Installation and Maintenance Training for UCSC maintenance staff by Eng DMAK Dissanayake
	• Prof. K. P. Hewagamage presented at the Annual Research Symposium of the Faculty of Medicine 2020 "Role of Learning Analytics in the evidence based Digital Education" https://www.youtube.com/watch?v=frPpOmsYbPI
	• Plenary Speech by Prof. K P Hewagamage, Director/UCSC at the Annual Research Symposium 2020 of faculty of Nursing, UoC *"ICT is Everywhere ..., Why not for Healthcare ?"* *The role of ICT in Health Care for Emerging Challenges*
	• "Unduwap Wasantha 2020" the online programme was organized by the Welfare Society for staff of UCSC to recognize their contribution in 2020 to motivate the staff


ucsc
UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING
Undergraduate Inauguration 2020
UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING






Session 3 A Bioinformatics
Request control
has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy
Introduction | Problem statement | Objectives | Methodology | Results | Discussion | Conclusion
Inside Cell
RNA
DNA
Protein
Central Dogma
AL
AP
SW
Shavindra Wickramath...
wannige (Guest)
KP
Kokila Perera







FINANCE

According to the regulations, it is required to submit the 2020 annual financial statements within the first two months of 2021 after obtaining the Board of Management approval. Following extracts in this section are prepared based on those Financial Statements 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.

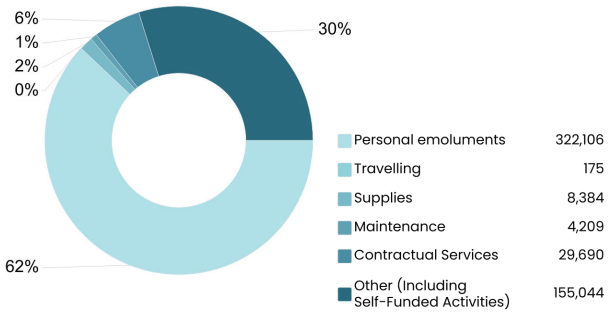
RECURRENT EXPENDITURE

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/= had 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).

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 (Including Self-Funded Activities)	155,044	191,415	200,847
TOTAL	**519,608**	**585,099**	**487,802**
Government Allocation	**357,880**	**337,200**	**198,785**



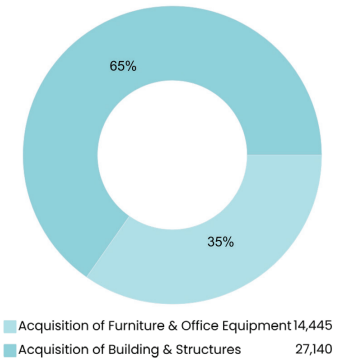
Since the government's allocation for recurrent expenditure was sufficient only to cover the personal emoluments and part of other recurrent expenditure, the management was very careful and controlled all the other recurrent expenses, as you see when you compare figures of 2020 with 2019 in the table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

CAPITAL EXPENDITURE

Due to Government capital grants is insufficient, UCSC generated funds were used to carry out planned activities. During the year, capital expenditure was 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).

Rs. 000

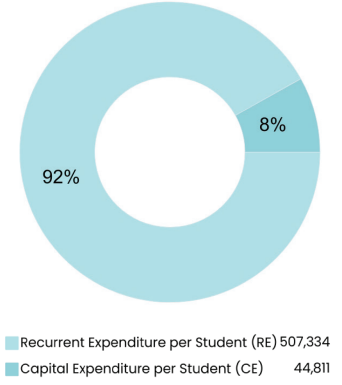
Subject	2020	2019	2018
Acquisition of furniture & Office Equipment	14,445	68,939	61,579
Acquisition of Building & Structures	27,140	33,091	85,628
TOTAL	**41,585**	**102,030**	**147,207**
Government Allocation	**23,000**	**69,000**	**112,250**



FINANCIAL PERFORMANCE ANALYSIS

Rs.

Subject	Exp. per Student
Recurrent Expenditure per Student (RE)	507,334
Capital Expenditure per Student (CE)	44,811
COST PER STUDENT	**552,145**



STATEMENT OF FINANCIAL POSITION

As at 31st 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 are 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
24th February 2021

Dr. Ajantha Athukorala
Deputy Director

STATEMENT OF FINANCIAL PERFORMANCE

For the year ended 31st December	Note	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
Total		**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**
DEFICIT FROM UNDERGRADUATE PROGRAMME		**(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
SURPLUS FROM EXTENSION PROGRAMMES		**107,619,071**	**113,145,210**
PROJECTS			
Common Projects	19	2,579,148	2,436,058
ICTer Conference	19	781,965	1,399,041
SURPLUS FROM PROJECTS		**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."

STATEMENT OF FINANCIAL PERFORMANCE

For the year ended 31st 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."

STATEMENT OF CASH FLOWS

For the year ended 31st 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)
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.

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.

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.

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

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
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.

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.

b. 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 03% 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.

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

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 in 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.

4.2.2 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 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.

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 31st December	2020	2019 Restated
	Rs.	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 31st December	Balance as at 01.01.2020	Deposits During the Year	Withdrawals During the Year	Balance as at 31.12.2020
	Rs.	Rs.	Rs.	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.

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.

Unit	2019 Prior to Restate	Removed from Cash & Cash Equivalents	Added to Cash & Cash Equivalents	2019 Restated
	Rs.	Rs.	Rs.	Rs.
SHORT TERM INVESTMENT				
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**	**56,280,719**	**-**	**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.

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 2019	Recover after one Year 2019	Total 2019 Restated
	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**

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-CLASSIFIATION 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.

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	2019 Restated
	Rs.	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
Other Refundable Deposits	4,144,000	4,868,863
Water Mart Systems (Pvt) Ltd	16,000	16,000
OTHER RECEIVABLES		
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**

NOTE - 04 INTEREST RECEIVABLE

As at 31st December	2020	2019 Restated
	Rs.	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	2019 Restated
	Rs.	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

Cost:	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**
Provision for Depreciation:					
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**

NOTE - 07 WORK IN PROGRESS

	Canteen Building	Outdoor Pavilion	Toilet Block	Air Conditioner- Administration	Research Floor Area	Interier 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 & Periodicals
	Rs
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**
PROVISION FOR DEPRECIATION:	
Balance as at 01.01.2020	**9,878,804**
Add: Depreciation During the Year	713,709
Error Adjustment	1,238
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**

NOTE - 09 PROPERTY, PLANT AND EQUIPMENT

Description	Laboratory & Teaching Equipment	Furniture & Fittings	Office Equip-ment	Motor Vehi-cles	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 at31.12.2019	**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**

NOTE - 10 INTANGIBLE ASSETS

Software	2020	2019 Restated
	Rs.	Rs.
COST:	**36,104,346**	**16,863,111**
Balance as at 01.01.2020		**19,241,235**
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	2019 Restated
	Rs.	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	-

Cancelled Cheque	232,160	195,088
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	2019 Restated
	Rs.	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**

Accordingly, the 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 31st December	Undergraduate	EDC	CSC	eLC	Total
	Rs.	Rs.	Rs.	Rs.	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.

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	XV: 18 to 34	XV: 35 to 44	XV: 45 to 54
Rate	25%	15%	5%

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

The 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 result of actuarial valuation, Gratuity Expense has been reduced up to 12.9 Mn. compare to 61.3 Mn. in last year.

NOTE - 14

NOTE - 14 (A) CAPITAL GRANT - UNSPENT

As at 31st December	2020	2019 Restated
	Rs.	Rs.
CAPITAL GRANT - 101 ACCOUNT - UNSPENT REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS		
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		
Opening Balance	**943,628**	**3,288,627**
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	2020	2019 Restated
	Rs.	Rs.
PROJECT GRANTS - UNSPENT		
Opening Balance	**9,389,299**	**12,067,546**
Grant Received during the year	2,100,000	17,594,765
	11,489,299	**29,662,311**
Less: Grant spent During the Year	(5,696,601)	(20,273,012)
Subtotal	**5,792,698**	**9,389,299**
GRAND TOTAL OF PROJECT GRANTS UNSPENT AS AT 31.12.2020	**5,792,698**	**9,389,299**

NOTE - 15

NOTE - 15 (A) CAPITAL GRANT - SPENT

As at 31st December	2020	2019 Restated
	Rs.	Rs.
CAPITAL GRANT - 101 ACCOUNT - SPENT REHABILITATION AND IMPROVEMENT OF CAPITAL ASSETS		
Opening Balance	**123,732,617**	**91,764,819**
Expenditure Incurred	15,000,000	33,090,957
	138,732,617	**124,855,776**
Amortisation During the Year	(1,290,427)	(1,123,159)
Subtotal	**137,442,190**	**123,732,617**
CAPITAL GRANT - 102 ACCOUNT- SPENT ACQUISITION OF FIXED ASSETS AND CONSTRUCTIONS		
Opening Balance	**345,620,645**	**370,574,046**
Expenditure Incurred	8,724,863	35,186,723
	354,345,507	**405,760,769**
Amortisation During the Year	(61,103,745)	(60,140,125)
Subtotal	**293,241,762**	**345,620,645**
GENERATED FUNDS FOR CAPITAL- SPENT		
Opening Balance	**330,824,481**	**297,617,679**
Transferred to General Reserve	(10,079,154)	-
Transferred to Undergraduate Current A/C	(106,821)	**-**
Expenditure Incurred	17,850,601	33,206,802
	338,489,109	**330,824,481**
Amortisation During the Year	-	-
Subtotal	**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	2020	2019 Restated
	Rs.	Rs.
PROJECT GRANTS - SPENT IDRC PROJECT CAPITAL GRANT - SPENT		
Opening Balance	**978,477**	**978,477**
	-	**-**
Subtotal	**978,477**	**978,477**
COMMON PROJECT/ OTHER GRANTS - SPENT		
Opening Balance	**7,242,844**	**7,321,259**
Transferred to General Reserve	(3,376,881)	-
Transferred to Undergraduate Current A/C	(2,076,373)	-
Spent During the Year	9,500	677,290
	1,799,090	**7,998,549**
Amortisation During the Year	(566,174)	(755,705)
Subtotal	**1,232,917**	**7,242,844**

NeLC GRANT - SPENT		
Opening Balance	**71,855**	**147,924**
Amortisation During the Year	(71,855)	(76,070)
Subtotal	**-**	**71,855**
NeLC GRANT - VEHICLE - SPENT **TOTAL PROJECT GRANTS AS AT 31.12.2020**	**2,310,116**	**8,425,828**

NOTE - 16 RESERVES

As at 31st December	2020	2019 Restated
	Rs.	Rs.
Balance as at 01.01.2020	**537,273,315**	**468,413,543**
Prior Year Adjustments	(1,036,237)	(1,220,097)
Adjustment for Provision of Gratuity	37,686	-
Transfer Net Assets Value to Undergraduate Unit	2,182,536	-
Transfer from Capital Grant Spent	13,456,694	-
Surplus / (Deficit) for the Year	104,152,312	70,079,870
Balance as at 31.12.2020	**656,066,307**	**537,273,315**

NOTE - 17 RESTRICTED FUNDS

As at 31st December	2020	2019 Restated
	Rs.	Rs.
BIT Award	55,669	50,780
Allocation for BIT Development	32,742,968	23,543,418
Prof V.K. Samaranayaka Award	248,635	239,645
Prof V.K. Samaranayaka Endowment Fund	17,879,683	16,264,948
Doner Fund for Disable Student	30,054	30,054
Allocation for Research & Development	150,240,497	143,581,966
JICA Award	164,078	164,928
THA De Zoysa Award	251,612	226,504
Allocation for Equipment Replacement	2,315,411	2,318,411
Best e Lerner Award	319,622	310,618
Staff Development Allocation	16,052,618	15,162,308
Virtusa Acadamic Excellence	339,577	311,506
Sheoria Robustra Scholarship - 1	820,961	725,920
Sheoria Robustra Scholarship - 2	819,756	762,790
Allocation for Student's Distress Fund	6,816,833	6,543,864
Best Performance Award -Motorola	174,305	166,355
Best Performance Award -IFS	169,127	161,177
Best Performance Award -Sampath Bank	174,549	166,649
Prof.Mohan Munasinghe Award -1	72,329	69,339
Prof.Mohan Munasinghe Award -2	70,171	66,849
CINTEC Award	129,399	123,656
David Peiris Medal	767,590	733,871
Mrs. Soma Gunathilake Memorial Award	265,144	244,498
Mrs. Wimala Jayarathne Memorial Award	275,212	254,299
Scholarship from Other Parties	34,500	84,850
Bond Value Recovery A/C	17,790,425	17,664,425
Allocation Medical Scheme	8,513,470	8,359,489
Allocation for UCSC Infrastructure Development	4,548,580	8,131,384
TOTAL	**262,082,777**	**246,464,503**

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**

NOTE - 19 - SEGMENT INFORMATION

Year Ended 31st 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**
Surplus/ (Deficit)	***(6,827,872)***	***78,868,174***	***12,793,353***	***913,708***	***14,239,482***	***804,353***	***2,579,148***	***781,965***	***104,152,312***
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**

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.

NOTE - 20 OTHER DISCLOSURES

NOTE 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.

NOTE 20.2

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

NOTE 20.2

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 postposed to 27. 03. 2021.

NOTE 20.4

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

S/N	Name & Designation of Bond Violator	Nature of Termination & Date of Termination	Bond Value (Rs.)	Total Value of Bond & Other Dues to the UCSC (Rs.)	Amount Received as at 31.12.2020(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)
3	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.2 71,650.00 has kept under UCSC.	5,004,557.50

NOTE - 21 RELATED PARTY TRANSACTION

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

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.

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	-		
	Rehabilitation of Capital Assets	7,190,242	3,595,120	3,595,122		

CSC	Lab. & Technical	32,852,408	32,852,408	-	106,821	-
	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	-		
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

NOTE 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.

NOTE 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.

NOTE 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.

NOTE 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.

NOTE 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	2019 Restated
	Rs	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	2019 Restated
	Rs	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
Libraray 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	2020	2019 Restated
	Rs	Rs
PERSONAL EMOLUMENTS - ACADEMIC		
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**
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	2019 Restated
	Rs	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	2019 Restated
	Rs	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	2019 Restated
	Rs	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 - 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**

NOTE - 31 RETIREMENT BENEFITS

For the year ended 31st December	2020	2019 Restated
	Rs	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**

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
Rates & Taxes	147,396	40,440
	96,458,473	**83,770,093**
Software Amortization	4,815,576	4,257,745
TOTAL	**101,274,049**	**88,027,837**

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

The above report is attached herewith.

W. P.C. Wickramaratne
Auditor General

Copies: - 01. Secretary - Ministry of Education
02. Secretary - Ministry of Finance
03. Chairman - University Grants Commission
04. Vice Chancellor - University of Colombo

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

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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.

1.5 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 was 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



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