Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
PI/ORG	Kasun De Zoysa/University of Colombo School of Computing/Sri Lanka (LEARN)
Budget/Period	*195940 EURO / 24 months*
Justification	Cyber attacks and network related criminal activities are increasing exponentially around the globe and this detracts from the optimal utilization of Asi@Connect Internet capacity and equipment.

Master of Cybersecurity

About Admission Learning Living Staff Student

About

The University of Colombo School of Computing (UCSC) has been able to position itself as a centre of excellence in ICT in the university system of Sri Lanka. Competency of the academic staff is one of the crucial factors in UCSC's focus on high-quality academic excellence. The UCSC presently has 3 professors, 27 PhD qualified academics graduated from leading universities in UK, Canada, Australia, Japan, Sweden etc., to assist in the academic activities.

University of Colombo School of Computing

UCSC Intro

VISIT US
w.ucsc.lk

Asi@Connect provides dedicated high-capacity internet connectivity for research and education communities across Asia-Pacific; operating at speeds of up to 10 Gbps, it currently interconnects universities and research centres in 21 countries/economies across the region. It also connects to the 50 million European researchers and academics served by the GÉANT network and supports collaborative programmes in areas such as Earth observation, disaster warning, climate research, food security, delivery of e-health and e-learning.

mc.ucsc.cmb.ac.lk

University of Colombo School of Computing

Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
Programme	Master of Cybersecurity offers postgraduate qualifications for staff members of NRENs and developing country universities in the domain of network security and digital forensics.
Entry Qualifications	Computing Degree from a University or Institution recognized by the University Grants Commission (UGC), Sri Lanka
Award of Degree	• not less than a GPA of 2.00 for all the Courses which total up to 45 Credits; and • not less than a C Grade (Pass) for the Independent Study

Objective:

• Acquire a detailed understanding of cybersecurity challenges in networks.

• Assess the cybersecurity risks faced by an organization.

• Design and implement networked, software and distributed systems with cybersecurity in mind.

• Gain expertise in both theory and practice of cybersecurity.

• Gain a detailed understanding of the interdisciplinary aspects (technical, business, law, management, policy) of cybersecurity

Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
Activity	Syllabus Preparation
Period	June 2018 to October 2018
Activity Results	**Activity Summary** ● Detail syllabus preparation – Completed ● LMS was created.

Semester 01

MC1001 : Principles of Cybersecurity

MC1002 : Cryptographic Systems

MC1003 : Network protocols and standards

MC1004 : Network design and performance

MC1005 : Special Topics in Cybersecurity

Semester 02

MC2001 : Database Security

MC2002: Malware and Software Vulnerability Analysis

MC2003 :Network Security

MC2004: Security in Mobile and Wireless Networks

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Activity	Syllabus Preparation
Period	June 2018 to October 2018
Activity Results	**Activity Summary** ● Detail syllabus preparation – Completed ● LMS was created.

Semester 03

MC3001 : Digital Forensic

MC3002 : Cybercrime and Legislation

MC3003 : Data Mining and Open Source intelligence

MC3004 : Incident Management

Semester 04

MC4001 : Security Auditing and Risk Management

MC4002 : Network Troubleshooting and Hardening

MC4203 : Independent Studies in Cybersecurity

Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

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Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
Activity	Student Registration
Participants	16 participants form Afghanistan, Nepal, India, Bangladesh, Thailand and Sri Lanka.
Activity Results	**Activity Summary** ● Nominated 29 staff members who have a basic degree in computing ● 16 students were selected ● 15 students were formally registered ● 14 students are actively participating

Afghanistan

2018/MC/019
S M Forotan

2018/MC/001
Hariharan M

2018/MC/008
M H Faqeri

2018/MC/009
N Haidary

Bangladesh

2018/MC/006
Md S Ali

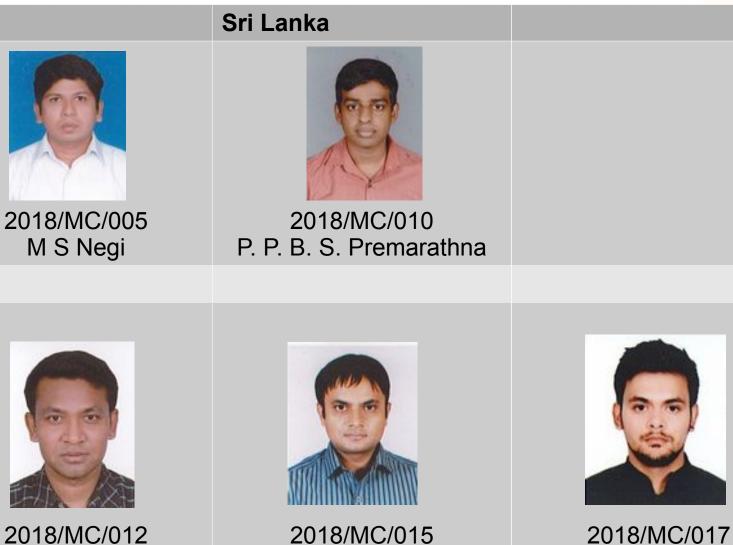2018/MC/007
Md S Islam

2018/MC011
P K Das

India
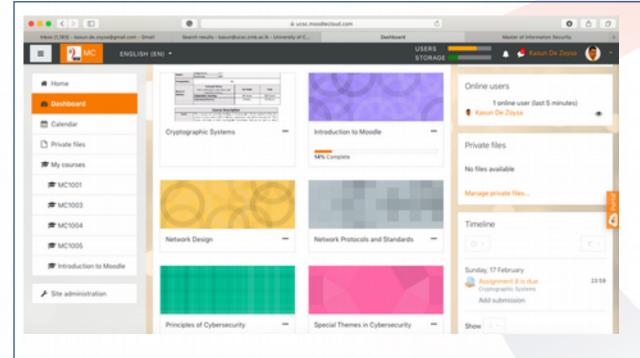
2018/MC/001
Hariharan M

2018/MC/005
M S Negi

Sri Lanka

2018/MC/010
P. P. B. S. Premarathna

Nepal

2018/MC/002
H Shrestha

2018/MC/012
R K Pariyar

2018/MC/015
V Gautam

2018/MC/017
K Lamichhane

Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
Activity	The First Semester
Period	*November 2018 to April 2019*
Activity Results	**Activity Summary** • The students are actively access the LMS facility, use learning materials for each course and work on their assignments. • Students will arrive to Sri Lanka on 21st of April, 2019 and they will stay in Sri Lanka until 04th of May, 2019.

ucsc.moodlecloud.com

The hands on sessions and examinations will be started from 21st of April, 2019.

Activity Progress – [Master of Cybersecurity - Distance Master Program in Cybersecurity]

Title	Master of Cybersecurity - Distance Master Program in Cybersecurity
Outcome	Produce 14 Master of Cybersecurity Graduates
Dissemination	All learning materials are published in a LMS and it is open for any interesting communities.
Benefits	• Mitigates the security risk on NERNs. • Enhances the teaching capacity and security experience of academics and engineers who work for NRENs. • Helps optimal use of network equipment and bandwidth.

Sustainability:

• The future participants should not need to visit UCSC (Sri Lanka) for their hands-on sessions and examinations.

• The graduated students can conduct the hands-on sessions and examination in their countries with the supervision of UCSC.

• UCSC will maintain the LMS, conduct the examinations and offer the Master of Cybersecurity postgraduate qualification for the successful candidates.

Since it offers a Master Degree in Cybersecurity postgraduate qualification, this will help Asia to defend against cyber-attacks.

Thank You