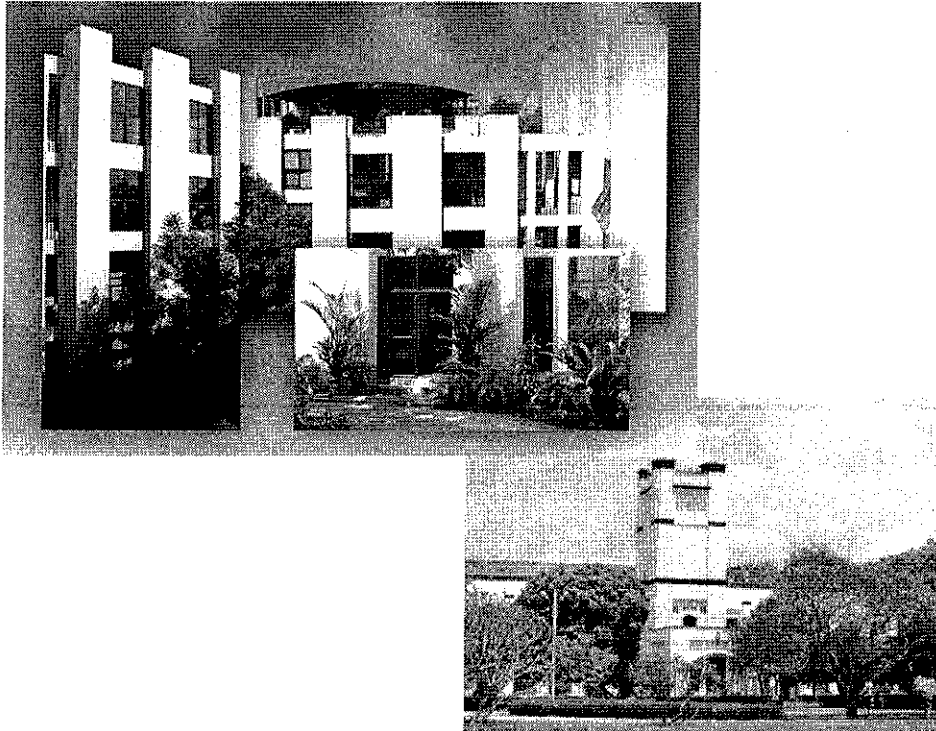




# Annual Report 2011



UNIVERSITY OF COLOMBO  
**SCHOOL OF COMPUTING**

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# UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

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# **UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING**

## **ANNUAL REPORT AND ACCOUNTS FOR 2011**

### **VISION & MISSION**

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#### **Vision Statement**

Create new knowledge, sustain a culture of critical inquiry and foster a spirit of service and commitment to the nation.

#### **Mission Statement**

Producing men and women of the highest technical competency with high ethical standards and social accountability, capable of creative, analytical and independent thinking, contributing to national development.

### **DIRECTOR'S REVIEW**

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As a centre of Higher Learning in Computer Science, Information and Communication Technology (ICT), the UCSC has continued to train students at undergraduate and postgraduate levels as well as those in the ICT industry with the latest developments in this field. 737 internal undergraduates enrolled for the four degrees programmes offered via the UGC intake. Beside 1160 science graduates were trained in use of ICT in respective scientific domains and 2365 students were provided the opportunity to do the BIT degree as an external student. 143 students were enrolled for the master's degree while 13 enrolled for research degrees. From those who enrolled in previous years 352 completed degrees at undergraduate level and 95 at postgraduate level.

To distinguish from other training institutes UCSC put a lot of emphasis on creating new knowledge through research. While commencing one new research project the staff published 63 conference and journal papers. UCSC also continued to carry out consultancy projects for the government ministries and others, including for an overseas university. Staff and Students continued to be successful at national events winning CERT Quiz and gaining recognition at NBQSA, e-Swabhimani and excelling in Postgraduate Research. Staff continued to be involved in many external committees, boards and professional bodies as their contribution to the society, while students continued with their IT outreach programmes to rural areas targeting school children.

We celebrated a quarter century's worth of achievements last year. We also set out on some ambitious plans for the future. In particular, the UCSC is ready to put into motion its plans for expansion, its venturing into other countries, and active involvement in the wider university system through the Higher Education for the 21<sup>st</sup> Century (HETC) initiative. Although some of the key planned activities were deviated due to unsuccessful bids for the Undergraduate Development Grant and Post Graduate Development grants from the HETC and some staff was de-motivation for not recognising the efforts putting across detail project implementation plans, the UCSC not only generated an income higher than the main university but also achieved higher employment rate among the university graduates.

Despite being overlooked for the Human Resource Development grants, we were able to attract four MPhil registrations leading to PhD from other universities. Only successful HETC bid was to strengthen the External Degree Programme which will commence next year. UCSC undertook and successfully completed

the HETC funded programmes such as the Pre-Orientation Programme for the training of English and IT of over 16,000 undergraduates, the university selection and allocation system for the UGC and many other challenging projects. UCSC also was successful in securing three NRC grants and NSF grant for research projects.

Long due physical infrastructure development of the UCSC commenced towards the end of the year. This will partially address some critical space issues faced over the last five years. UCSC while continued to hold the most qualified computing staff in the country with 18 PhD holders further strengthen its lecturer pool to partially address the shortage of its Human Resources. Overseas staff exchange programme was initiated for the first time with one of our staff visiting Umea University and their visiting UCSC for a period of six weeks.

While continue to work on the curriculum development to align existing degree programmes with international standards, new degrees in software engineering, bioinformatics were planned to commence next year.

## UCSC AT A GLANCE

|                                         |             | 2009       | 2010       | 2011       |
|-----------------------------------------|-------------|------------|------------|------------|
| <b>Education (Enrolled/Graduated)</b>   |             |            |            |            |
| Internal Undergraduates                 | All         | 748        | 739        | 737        |
|                                         | In (240 %)  | 228 (95%)  | 236 (98%)  | 238 (99%)  |
|                                         | Out (In %)  | 196 (86%)  | 229 (97%)  | 223 (94%)  |
| Science Undergraduates                  |             | 1006       | 1023       | 1160       |
| External Diploma                        | All         | 3490       | 4281       | 4287       |
|                                         | In (All %)  | 2052 (59%) | 2514 (59%) | 2365 (55%) |
|                                         | Out (All %) | 429 (12%)  | 361 (08%)  | 576 (13%)  |
| External Higher Diploma                 | All         | 1749       | 1863       | 2019       |
|                                         | In (All %)  | 737 (42%)  | 688 (37%)  | 863 (43%)  |
|                                         | Out (All %) | 310 (18%)  | 199 (11%)  | 309 (15%)  |
| External Degree                         | All         | 1126       | 1188       | 1293       |
|                                         | In (All %)  | 417 (37%)  | 403 (34%)  | 442 (34%)  |
|                                         | Out (All %) | 161 (15%)  | 140 (12%)  | 129 (10%)  |
| Postgraduates                           | All         | 397        | 443        | 531        |
|                                         | In          | 128        | 177        | 143        |
|                                         | Out         | 17         | 89         | 94         |
| Extension Programmes                    |             | 900        | 935        | 678        |
| <b>Research</b>                         |             |            |            |            |
| Research (MPhil/PhD)                    | All         | 28/01      | 31/01      | 46         |
|                                         | In          | 05         | 06         | 13         |
|                                         | Out         | 1          | -          | 1          |
| Research Projects                       | All         | 07         | 06         | 05         |
|                                         | New         | 1          | 2          | 1          |
| Publications                            |             | 76         | 69         | 63         |
| <b>Consultancy Projects</b>             |             |            |            |            |
|                                         | Local       | 12         | 25         | 14         |
|                                         | Foreign     | 03         | 05         | 01         |
| <b>Social Responsibility Programmes</b> |             | 10         | 18         | 10         |

|                                                               |              | 2009       | 2010     | 2011     |
|---------------------------------------------------------------|--------------|------------|----------|----------|
| <b>Governance</b>                                             |              |            |          |          |
| Permanent Academic Staff                                      | All          | 34         | 34       | 36       |
|                                                               | Prof (All %) | -          | 02 (06%) | 02 (06%) |
|                                                               | PhD (All %)  | 17 (50%)   | 18 (53%) | 18 (50%) |
| Permanent Academic Support Staff                              |              | 09         | 04       | 02       |
| Temporary Academic Staff (Instructors)                        |              | 19         | 15       | 11       |
| Permanent Admin and Non-Ac Staff                              |              | 26         | 35       | 32       |
| Contract Staff (including casual & trainee)                   |              | 84         | 72       | 37       |
| Research/Project Staff                                        |              | 36         | 18       | 14       |
| <b>Finance</b>                                                |              |            |          |          |
| Annual Recurrent Expenditure (Millions SLR)                   |              | 84         | 80       | 92       |
| Treasury Grant (Recurrent) (Millions SLR)- Act.               |              | 69         | 65       | 83       |
| Treasury Grant (Capital) (Millions SLR) – Actual              |              | 4          | 5        | 16       |
| Generated Income                                              |              | 116        | 123      | 159      |
| UCSC Contribution for UG (Millions SLR) (Generated %)         |              | 20 (17%)   | 31 (25%) | 22 (14%) |
| UCSC Budget (Millions SLR)                                    |              | 186        | 171      | 205      |
| Research/Project (Millions SLR)                               |              | 104        | 84       | 6.1      |
| Cost per Employee (SLR '000s) per annum                       |              | 414        | 457      | 578      |
| Cost per Student (SLR '000s) – Treasury                       |              | 113        | 108      | 125      |
| <b>Infrastructure</b>                                         |              |            |          |          |
| Library Books                                                 |              | 9,600      | 9,999    | 10,214   |
| Computers : staff                                             |              | 1:1        |          |          |
| Computers : students (General students)<br>(Special students) |              | 1:4<br>1:1 |          |          |
| Space Utilization (employee) (sq. m.)                         |              | 5.98       | 6.99     | 9.42     |
| Space Utilization (student) (sq. m.)                          |              | 1.87       | 1.89     | 1.90     |

## OVERVIEW OF THE UCSC

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The University of Colombo School of Computing (UCSC) was established on 1st September, 2002 by merging the Institute of Computer Technology (ICT) and the Department of Computer Science (DCS), both 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 Universities (Amendment) Act No.1 of 1995, as a Centre of Higher Learning for the purpose of providing, promoting and developing higher education in Computer Science, Information and Communication Technology. It is a Higher Educational Institution within the meaning of the Act. The UCSC Ordinance was Gazetted on 15th Nov 2002 (GZT NO. 1262/32) and Amended to include the Centre for Digital Forensics on 22 July 2011 (GZT NO. 1715/32).

### A Brief History

The teaching of Computing in the University of Colombo first started way back in 1967 by the setting up of the Statistical Unit as a separate unit of the Department of Mathematics. Later with the initial guidance of Professor V.K. Samaranayake, the statistical unit was enhanced as the Statistical Consultancy and Data Processing Service Centre. This had paved the way to many future developments. By 1985, this Centre had grown into the Department of Statistics and Computer Science (DSCS). The major function of this department was to conduct special degree programmes in Statistics and in Computer Science. The DSCS offered Computer Science specialization programme, producing just 40 students per batch, in no way sufficient to meet the growing demand in the field of Computer Science (CS).

In 1997, a batch of 50 students was taken directly to study Computer Science, through the University Grants Commission, however, by this time, it was realized by many that the Computer Science subdivision of the DSCS need to be expanded as a separate department to meet the growing demand in the field of Computer Science. As a result, in 2001, the DSCS was separated into two departments namely Department of Computer Science and Department of Statistics.

The Department of Computer Science identified its own limitations of operating in the restrictive framework of a Faculty and at the same time it understood the importance of having a strong industry relationship for exploiting future growth potential. The university understood the importance of a strategic merger between the industry focused Institute of Computer Technology (ICT) and the more theoretically oriented Department of Computer Science of the University of Colombo.

The ICT had a strong relationship with the industry at the same time a high institutional profile among foreign donor agencies. The ICT also enjoyed much more autonomy in their business operations making it easier for receiving large amounts of resources from Japan International Cooperation Agency (JICA), Swedish International Development Agency (Sida) and several other donors.

This merger gave birth to the University of Colombo School of Computing (UCSC) on 1<sup>st</sup> September 2002. Prof. V.K Samaranayake became the founder Director of the UCSC, whose proactive thinking set the path to achieve success in several succeeding endeavours of the UCSC. Through all this, the UCSC has been able to position itself as a Centre of Excellence in ICT in the university system of Sri Lanka.

### ORGANIZATION OF THE UCSC

The three departments and six Centres continued to plan and execute their programmes of activities for the current year too.

## Departments of the UCSC

For the undergraduate academic programme, government funding is directly received by the UCSC through the UGC. Money received is inadequate to carry out the planned activities for the year and hence some of the generated income is used for undergraduate academic activities. The UCSC has three academic departments and the academic staff is allocated to these departments based on their specialization and teaching expertise. Three department heads are assigned to look after the undergraduate, postgraduate and external & extension programmes respectively as none of them offer programmes of its own. The three departments are,

4. Computation & Intelligent Systems (CIS);
5. Communication & Media Technologies (CMT);
6. Information Systems Engineering (ISE).

## Centres of the UCSC

UCSC also performs many secondary activities. These activities are organized under six separate centres. Each centre has a coordinator who manages the day-to-day operations of the centre. The six centres are as follows:

7. Advanced Digital Multimedia Centre (ADMTC);
8. Computing Services Centre (CSC);
9. External Degrees Centre (EDC);
10. e-Learning Centre (e LC);
11. Professional Development Centre (PDC);
12. Centre for Digital Forensics (CDF).

## GOVERNANCE

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As laid down in the corporate plan, core areas of activity of the UCSC are *Education, Research, Consultancy and Social Responsibility*. Of these, Research has been recognized as the central pillar which sets the UCSC apart from the rest of the ICT Education sector, and which contributes in turn to the other three pillars. These pillars themselves are supported by two main sources; the Human and Physical Infrastructure/Resources and the Administrative/Financial services. In addition, all these aspects are held together and directed for optimal efficacy by a 'roof' of Good Governance.

### Management

Management of the UCSC is handled by the officers of the UCSC with the assistance of the heads of the departments and centre coordinators. Director chaired all UCSC Statutory and Selection Committees.

### Officers of the UCSC

**Director:** Prof GN Wikramanayake; **Deputy Director:** Dr DN Ranasinghe (till Sept); Prof ND Kodikara (from Oct);

### Heads of the Departments of the UCSC

**CIS:** Mr GP Seneviratne; **CMT:** Mr GKA Dias; **ISE:** Prof ND Kodikara (till Oct); Dr DD Karunaratna (from Nov);

### Centre Coordinators of the UCSC

**ADMTC:** Mr ST Nandasara; **CSC:** Dr AT Dharmaratne; Mr. LP Jayasinghe; **EDC:** Mrs SP Ariyaratne; **eLC:** Dr DD Karunaratne (till Nov); Dr KP Hewagamage (from Dec); **PDC:** Dr SMKD Arunathilake; **CDF:**

Mr KS Goonathilake (from Sept).

### **Authorities**

The Authorities of the School are the Board of Management; Academic Syndicate; Boards of Study; Departments of Study and Centres.

### **Board of Management**

12 monthly meetings and 04 Special Meetings of the Board of Management were held during the year. The composition of the Board of Management is given below.

Director (Chairman); Deputy Director; Heads of Dept (CIS/CMT/ISE); **Nominee/Secretary, Ministry of Higher Education:** Mr Piyasena Ranepura; **Nominee/Ministry of Finance:** Mr R Uduwawala; **Dean, Faculty of Science:** Prof K R R Mahanama (Acting Jan-Feb); Prof TR Ariyaratne; **Nominees of Council, UOC:** Mr C Maliyadda; Mr Mahinda. Rajapakse (till July), Mr Asoka Pathirage (from Sep); **Nominees of Senate, UOC:** Prof KH Thennakoon; **Nominees of the UGC:** Mr S Mudalige; Deshamanya Mr MDD Pieris; **Representatives of the IT Industry:** Mr Jayantha De Silva; Mr Mano Sekeram; **Nominees of Academic Syndicate, UCSC:** Dr HL Premaratne (till Oct); Dr DAS Atukorale (till Oct); Dr SMKD Arunathilake (till Oct); Dr DN Ranasinghe (from Nov), Dr GDSP Wimalaratne (from Nov), Dr MC Jayawardena (from Nov); Former Director (Invited): Dr AR Weerasinghe.

Two Sub-Committees, the Finance & Management Committee and the Audit Committee assisted the Board of Management. Both committees held 03 meetings each during the year. Composition of the two committees is given below.

### **Finance and Management Committee**

Director (Chairman); Deputy Director; Mr Piyasena Ranepura; Mr R Uduwawala; Prof TR Ariyaratne; Deshamanya Mr MDD Pieris; Mr Jayantha De Silva.

### **Audit Committee**

Mr Sujeewa Mudalige (Chairman); Deputy Director; Mr Jayantha De Silva; Mr C Maliyadda.

### **Academic Syndicate**

11 meetings of the Academic Syndicate were held during the year. The composition of the Academic Syndicate is given below.

Director; Deputy Director; Heads of Dept (CIS/ CMT/ISE); Centre Coordinators (ADMTC/CSC/ EDC/eLC/PDC); **Nominee (Faculty of Science):** Prof RD Wijesekara; **Representatives/IT Industry:** Dr RAC Ranasinghe; Senior Academics (UCSC); **Two Teaching Staff:** Mr LP Jayasinghe; Mr WDGM Wathugala (till Oct); Mr. WMR Weerasuriya (from Nov).

### **Boards of Study**

There are three boards of studies, namely IUD, RHD and EEP. They focus on Internal Undergraduate Degrees (IUD), Research and Higher Degrees (RHD) and External and Extension Programmes (EEP). The three boards had 9, 10 and 11 meetings respectively during the year.

## EDUCATION

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### Programmes and Students

UCSC offers a wide variety of programmes at different levels. Table 1 identifies the courses (programmes) conducted by the UCSC along with the students and staff involved.

Table 1: Type of Courses Offered

| Course                                    | Total Students | Total Academic Staff | Total non Academic Staff |
|-------------------------------------------|----------------|----------------------|--------------------------|
| Undergraduate and Postgraduate Programmes | 1,125          | 48                   | 62                       |
| Research and other Projects               | 41             | 13                   | 10                       |
| Extension courses                         | 678            | 07                   | 55                       |
| External degree                           | 5,562          | 41                   | 11                       |
| Online                                    | 13,841         | 3                    | 15                       |
| Other – Faculty of Science                | 1,160          | 19                   | 2                        |

### Undergraduate Education

Computing for undergraduates were first introduced way back in 1967 as part of Faculty of Science. UCSC continues to offer this opportunity for faculty of science 1160 students. Computing as a degree commenced in 1990. All together 1897 undergraduates are being trained at the UCSC. UCSC currently offers Computer Science (CS) degree for 486 students and Information and Communication Technology degree (ICT) for 251 students.

#### Internal Degrees

UCSC continued to offer the two internal degree programmes in the field of CS and ICT. These two degree programmes are formulated to focus on different market segments in the IT industry and has a three and four year options. CS degree programme select students from A/L physical science stream while the ICT degree is open to all streams.

The *Bachelor of Computer Science* (BCSc) and the *Bachelor of Science in Computer Science* (BSc (CS)) degrees are designed to cater for the high demand of CS professionals worldwide. The BCSc Degree programme is a three year programme whereas the BSc (CS) is a four year programme.

The ICT Programme is designed to produce a new kind of Information systems (IS) professional to fill the gap between business requirements and technical solutions. This degree Programme is designed to produce this new breed of ICT professionals. The curriculum of this programme also emphasizes the importance of soft skills such as communication and teamwork. The three-year degree is named as the *Bachelor of Information and Communication Technology* (BICT), while the four-year degree is named as the *Bachelor of Science in Information and Communication Technology* (BSc (ICT)).

To make the degree programmes internationally accepted it was necessary to align our degree programmes according to internationally recognised ACM/IEEE guidelines. Several workshops on Curriculum Design were conducted to initiate this process. In this process it was identified that the Information and Communication Technology (ICT) degree programme has to be aligned with the Information Systems stream of the ACM/IEEE. Thus approval was obtained from the UGC to change the ICT degree to Information Systems degree. As most graduates end up as software engineers it was required to introduce a Software Engineering degree. University approval to implement a Software Engineering stream for the Computer Science intake was also obtained. Accordingly UCSC will now be offering four computing

degrees, namely: Computer Science, Software Engineering, Information Systems and Information Technology degrees. Among them the Software Engineering and Information Systems will be new degree programme for those entering universities from the 2012/13 intake.

The CS degree programme was redesigned to offer as 2+1 (3 year) and 2+2 (4 year) degrees instead of existing 3 year exist and 3+1 (4 year). New programme will contain a 4 year Software Engineering (SE) stream in addition to the existing 3 and 4 year CS exists. Changes are expected to be implemented from the 2012 intake.

Curriculum revision resulted in a name change from ICT to IS for which approval was obtained from the UGC. New 3 year degree will be called Bachelor of Information Systems (BIS) and the 4 year Bachelor of Science in Information Systems Engineering BSc (ISE). Implementation of the new curriculum is to take effect from the 2012 intake.

### Enrolment

The UCSC admitted a batch of 160 students for the Degree in CS Programme while 78 students were admitted for the Degree in ICT Programme bringing the total registered students at the UCSC to 737 (Table 2). Selection for the ICT programme included an aptitude test held in Jaffna, Vauniya, Anuradapura, Kandy and Colombo. 740 of the 1678 sat qualified for the ICT degree, while 269 were absent. New GCE (A/L) ICT subject was also considered as a possible course to enter the ICT programme of the UCSC. Inauguration for the 2011 intake was held on 24<sup>th</sup> Oct. CS and ICT registrations were carried out in 8 and 5 stages respectively due to the student transfer policy. In total 190 CS and 97 ICT students were registered while 32 CS and 20 ICT were transferred. There were 2 CS and 1 ICT re-registrations. Due to the ministry pre-orientation programme which was implemented with the help of the UCSC, a separate orientation programme was not held for this intake. UoC organised a shramadana for the new intake on 4<sup>th</sup> Sept. New intake commenced lectures soon after the inauguration held on 24<sup>th</sup> Oct.

Table 2: Internal Undergraduate Programmes

| Course                       | Intake 2011 | 1st Year Students | 2nd Year Students | 3rd Year Students | 4th Year Students | Total | No of Graduated |
|------------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------|-----------------|
| Bachelor of Computer Science | 160         | 160               | 148               | 138               | 0                 | 446   | 106             |
| BSc in Computer Science      | 40          | 0                 | 0                 | 0                 | 40                | 40    | 40              |
| Bachelor of ICT              | 80          | 78                | 77                | 76                | 0                 | 231   | 57              |
| BSc in ICT                   | 20          | 0                 | 0                 | 0                 | 20                | 20    | 20              |
| UCSC Undergraduates          | 300         | 238               | 225               | 214               | 60                | 737   | 223             |
| BSc Faculty of Science       | -           | 439               | 355               | 326               | 40                | 1160  | -               |
| Internal Undergraduates      | 300         | 677               | 580               | 540               | 100               | 1897  | 223             |

All courses are conducted in English Medium

### Visiting Staff

All the academic and academic support staff participated in delivering the internal undergraduate programmes. ICT degree programme consists of many courses that require external support. 15 persons were invited as visiting lecturers to conduct 11 courses of the ICT degree programme.

### Industrial Placement

PDC continued to keep a close liaison with the IT industry and for improvement of the academic programmes through industry partnership thereby enhancing the quality of the undergraduates. During the year PDC placed 226 undergraduates at 66 organisations for their 6 months training. PDC organised companies to voluntarily take part in a series of guest lectures, through which the undergraduates are made aware of the role they have to play as professionals after they graduate. Through these lectures, the undergraduates were provided with a good orientation program and preparation before being sent for

Internship. They were clearly communicated of the objectives and skills to gain during the internship.

Apart from the industrial training, the PDC organised Soft Skill Development Programme for the 4<sup>th</sup> year undergraduates with the aim of improving their soft skills that are much needed in the industry to get a "foot in the door" of their profession. The successful undergraduates are awarded a certificate from Toastmasters International.

### **Student Activities**

Student activities are carried out through the student union mainly to promote cultural, ritual and recreation activities. These activities included Shramadana Campaign, Prith Ceremony, Sports Day, Paduru Sajjaya, Blood Donation Campaign, Vesak Bhakhi Gee, Going Down Party, Wanivila Ceremony and Christmas Carols. UCSC students conducted several workshops at UCSC and at Schools to assist students and teachers with GCE (O/L) & (A/L) ICT.

### **Student Achievements**

UCSC students won the Information Security Quiz organised by Sri Lanka CERT. The "Business Cloud for SMEs" project of HPD Jayathilaka, N Kularathne and EADI Embuldeniya received special recognition at the NBQSA. 13 teams participated at the IEEEExtreme 5.0 competition and the best among UCSC was placed 216 in the world. Students also participated at Google Summer Code, Imagine Cup and Motorola Enterprise Mobility Software Development Competitions.

### **Sports**

Three students, namely S.K. Wegapitiya (2009/CS/169); E.M.S.C.B. Ekanayake (2009/CS/033); W.M.H.P. Weerasinghe (2009/CS/161) participated at the Birla Institute of Technology and Science (BITS) open sports meet (BOSM) in Athletics (Men) held in Pilani, Rajasthan, India from 14-18 Sept 2011. Wegapitiya won Gold in Javelin Throw; Weerasinghe won Gold in Long Jump and Ekanayake won bronze in 200m. P.G.C. Dangalla (2008/ICT/007) participated at BOSM in Hockey (Men) and H.D.S.P. Ariyaratne (2008/CS/008) in Carom (Men). S.D.J.M.N. Arsakularatne (2008/CS/141) took part at XXVI World University Games, Shenzhen, China and PAJ Munidasa (2009/CS/174) at International Inter-Varsity Invitational Cricket Tournament, Malaysia.

### **Graduation**

Graduation ceremony was held for 202 students from 4 degree programmes. Students for the ICT degree programme are selected from any A/L stream. In table 3 student performance by stream is also shown for these students.

It was observed that most of the students who obtained the 3-year Degree Programme were recruited by reputed firms in the IT industry on lucrative contracts even before they finished their 3<sup>rd</sup> year industrial placements. A survey was carried out during the convocation which was held six months after completing the degree. 133 of the 158 graduands who took part in the survey had already found employment (84%). Percentage of females employed (92%) were slightly higher than the males (87%). Percentage of 4 year degree students (97%) employed was higher than that for the 3 year Degree (86%). All First Class Students and Second Uppers were employed while only 79% of the General Students were employed. All the unemployed individuals expected a salary of Rs. 20,000 or more, while 6% of those employed earn less than Rs. 20,000. Most employed was earning between Rs. 40,000 to 50,000 with 7 students earning over Rs. 100,000. Average Salary of a graduand was between Rs. 50,000-60,000. Most were employed in the Private Sector (87%).

Table 3: Performance of UCSC Gradautes

| Intake      | First | Upper | Lower | Pass | TOTAL |
|-------------|-------|-------|-------|------|-------|
| BSc         | 1     | 4     | 14    | 74   | 93    |
| BICT        | 4     | 7     | 10    | 29   | 50    |
| Mathematics | 3     | 5     | 7     | 19   | 34    |
| Biology     | 0     | 0     | 3     | 4    | 07    |
| Commerce    | 1     | 2     | 2     | 5    | 10    |
| Arts        | 0     | 0     | 0     | 6    | 06    |
| BSc CS      | 10    | 12    | 16    | 3    | 41    |
| BSc ICT     | 6     | 6     | 6     | 0    | 18    |
| Mathematics | 4     | 5     | 5     | 0    | 14    |
| Biology     | 3     | 1     | 0     | 0    | 04    |
| Commerce    | 0     | 0     | 0     | 0    | 00    |
| Arts        | 0     | 0     | 2     | 0    | 02    |
| TOTAL       | 21    | 29    | 46    | 106  | 202   |

Figure 1 shows that the UCSC graduands employability is next to Engineering and Medicine. Similar survey carried out for the external degree showed that of the 140 graduates 81% were employed while only 9% was looking for employment.

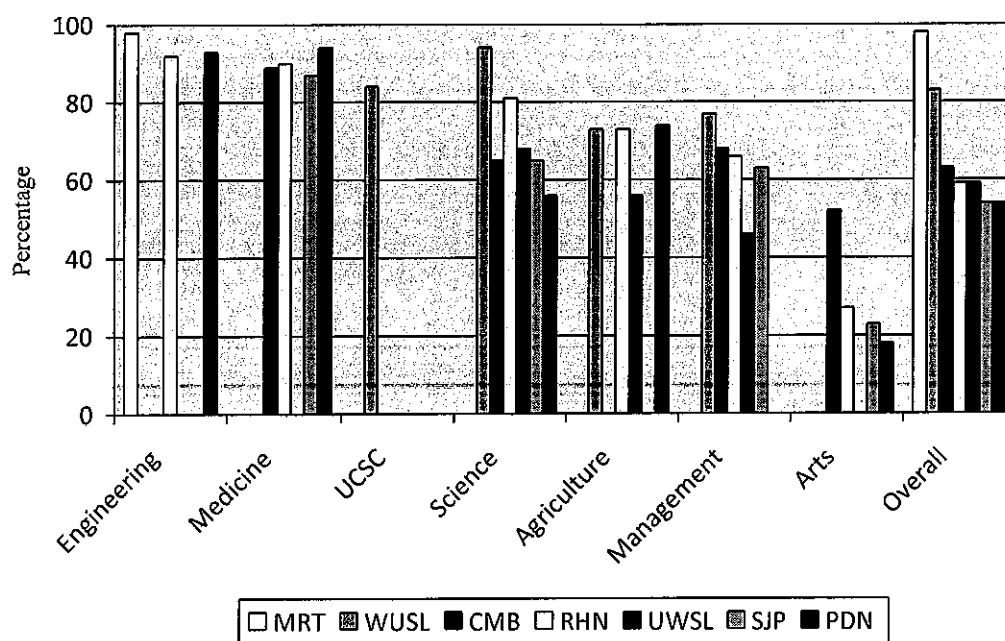


Figure 1: Employability of University Graduates

### Awards

Three awards, namely Prof. Mohan Munasinghe Award for Computer Studies, David Peiris Group Gold Medal & Prof VK Samaranayake medal for most outstanding Graduate of the UCSC was awarded to ADS Jayatilake. CINTEC Award went to MMATN Mannapperuma while Virtusa Academic Excellence Award to MRB Mudannayake. Three awards introduced to the ICT degree programme is to be given from next convocation.

Attracting good students is our primary concern as it contributes towards the quality of the students we produce. Students enrolling for the undergraduate programme are selected centrally by the University Grant Commission (UGC). It is based on student preference. Currently most student's first choice is either Engineering or Medicine. Also most students were unaware of the UCSC degree programmes and career opportunities in the computing field. Thus UCSC continued to organize workshops over two days for

potential new admissions which were well attended. So far those shown interest have not had the opportunity to enrol for the internal programme.

## Postgraduate Education

Postgraduate programmes were first offered at Colombo in 1986 through postgraduate diploma programmes. UCSC now offers three masters degree programmes and research degrees have 531 students (Table 4). Master of Computer Science offered since 1990 had 147 students. Information Technology programme offered since 2000 had 136 students. Information Security programme had 25 in the first batch. New Bioinformatics programme is also ready to commence. 46 research students are carrying out research leading to MPhil/PhD.

Table 4: Postgraduate Degree Programmes

| Course                      | Intake 2011 | 1st Year Students | 2nd Year Students | 3rd Year Students | 4th Year Students | Total      | No of Graduated |
|-----------------------------|-------------|-------------------|-------------------|-------------------|-------------------|------------|-----------------|
| Master of Computer Science  | 60          | 80                | 67                | 15                | 13                | 235        | 26              |
| Master of IT                | 57          | 72                | 64                | 27                | 10                | 230        | 42              |
| MSc in Information Security | 26          | 25                | 0                 | 0                 | 0                 | 51         | 0               |
| MSc Advanced Computing      | 0           | 0                 | 0                 | 0                 | 07                | 7          | 01              |
| PGD Advanced Computing      | 0           | 0                 | 0                 | 0                 | 01                | 1          | 08              |
| MSc Computer Science        | 0           | 0                 | 0                 | 0                 | 03                | 3          | 05              |
| PGD Computer Science        | 0           | 0                 | 0                 | 0                 | 0                 | 0          | 04              |
| MSc IT                      | 0           | 0                 | 0                 | 0                 | 04                | 4          | 04              |
| PGD IT                      | 0           | 0                 | 0                 | 0                 | 0                 | 0          | 04              |
| <b>Taught PGD</b>           | <b>143</b>  | <b>177</b>        | <b>131</b>        | <b>42</b>         | <b>38</b>         | <b>531</b> | <b>94</b>       |
| MPhil                       | 13          | 13                | 07                | 07                | 06                | 46         | 01              |
| <b>Total</b>                | <b>156</b>  | <b>190</b>        | <b>138</b>        | <b>49</b>         | <b>44</b>         | <b>577</b> | <b>95</b>       |

All courses are conducted in English Medium

## Masters Programmes

Each programme caters towards distinct categories of people.

The *Master of Information Technology* (MIT) is a programme targeted at graduates in disciplines other than computing who wish to pursue a career in an IT related area. This is also suitable for those who wish to specialize in a multidisciplinary field overlapping with IT such as Management, Networking or Multimedia technology.

The *Master of Computer Science* (MCS) programme is designed for CS/IT professionals who already possess a degree in Computing and who wish to acquire a postgraduate qualification in CS/IT with research exposure.

The *Master of Science in Information Security* (MSc IS) programme is designed for graduates who wish to acquire a postgraduate qualification in the area of Information Security. This programme offers mid-career opportunities for those working in the areas of information technology, information system audit and information security.

First year of the new two year masters programme in Information Security for 25 students was completed. Two ongoing master's programmes in Computer Science and Information Technology continued to enrol nearly 150 students. New master's programme in Bioinformatics was designed in collaboration with IBMBB of the University of Colombo.

## External Degree & Extension Courses

External degree programme commenced in 2000 had 5,700 enrolled while 678 followed the extension programmes. In addition the pre-orientation programme 13,841 sat the exams taking the number trained during the year at UCSC to over 20,000.

BIT programme alone has attracted 27,148 since its inception. In 2011 2365 new students joined the programme (Table 5). These students not only represent all districts in the country but also overseas in UAE. BIT (External) degree programme was able to double the planned intake as well as to produce the first overseas registered graduates of the BIT programme. BIT students were provided access to computing resources through NODES centres of the Ministry for a very nominal fee.

Table 5: External Degree Programme

| Course                             | Intake 2011 | 1st Year Students | 2nd Year Students | 3rd Year Students | Total       | No of Graduated |
|------------------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------------|
| Diploma in Information Technology  | 2365        | 3095              | 943               | 249               | 4287        | 576             |
| Higher Diploma in IT               | 648         | 943               | 369               | 707               | 2019        | 309             |
| Bachelor of Information Technology | 279         | 249               | 458               | 586               | 1293        | 129             |
| <b>All</b>                         |             | <b>3095</b>       | <b>1312</b>       | <b>1293</b>       | <b>5700</b> |                 |

Table 6 highlights the performances of the BIT students over the last six years identifying number registered and graduated along with targets.

Table 6: External Degree Performance over last Six Years

| External Undergraduates          | KPI  | 2007 | 2008 | 2009 | 2010 | 2011 |
|----------------------------------|------|------|------|------|------|------|
| DIT - Diploma Intake             | 2000 | 1558 | 1540 | 2052 | 2514 | 2365 |
| DIT - Diploma Registered         | 3000 | 1904 | 2001 | 2548 | 3202 | 3095 |
| DIT - Diplomas                   | 600  | 528  | 607  | 429  | 361  | 576  |
| HDIT - Higher Diploma Intake     | 600  | 520  | 588  | 537  | 549  | 648  |
| HDIT - Higher Diploma Registered | 1500 | 1121 | 1079 | 1148 | 1172 | 1312 |
| HDIT - Higher Diplomas           | 300  | 128  | 386  | 310  | 199  | 309  |
| BIT - Degree Intake              | 300  | 159  | 236  | 258  | 228  | 279  |
| BIT - Degree Registered          | 1000 | 842  | 1102 | 1126 | 1188 | 1286 |
| BIT - Graduates                  | 150  | 108  | 138  | 161  | 140  | 129  |

Intake excludes repeaters

Note: 2007 (DIT), 2008 (HDIT), 2009 (BIT) saw the introduction of GPA based evaluation system and a major curriculum revision under eBIT project. 2009 graduates benefitted from the relaxation of the requirement to pass all compulsory courses. 2011 introduced a minimum D grade for each course to fulfil the degree criteria.

## Graduation

Performance of those participated at the 2011 convocation is shown in Table 7. 140 graduates were conferred the degree at this Convocation. 113 (81%) were already employed and 45 (32%) of them were looking for better employment. Among the 27 (19%) unemployed only 12 (09%) had looked for employment due to studies and other reasons.

Table 7: Those Graduated at the Convocation held in 2011

| Intake | First | Upper | Lower | Pass | TOTAL |
|--------|-------|-------|-------|------|-------|
| BIT    | 3     | 8     | 10    | 119  | 140   |

## Awards

Prof. VK Samaranayake Medal for the Best Performance at the Bachelor of Information Technology (External) Degree was awarded to SDDN Sirimevan. New award was introduced for the best individual project. This was awarded to SDDN Sirimevan. Best e-Learner awards for the 4 semesters were awarded to WAMLB Karunarathna (I), RL Edirisuriya (II) & UV Vandebona (III) & MMNF Razana (IV).

## Institutes

Many training institutes have offered face to face classes and learning support for the BIT candidates. Over 200 institutes have participated in this process with around 50 institutions in some academic years. UCSC do not accredit any of these institutions but have recognised their contributions for the success of the programme. Each year UCSC publish the summary of examination results for each course by institute so that the candidates can identify the available institutions and plan their learning mode. More than half the candidates study on their own with the help of the VLE and online/recommended material. In 2010/11 35 institutions from 13 districts conducted training for five or more candidates. Among them 08 institutions were involved in all three years (marked \* in the Table 8). Number of institutes participating significantly increased as the war in the North-East provinces ended in 2010.

Table 8: Institutes involved in the BIT Programme

| District   | Institute                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ampara     | (3) Global Institute of Professional Education                                                                                                                                                                                                                                                                                                                                    |
| Batticaloa | (3) Esoft Computer Studies                                                                                                                                                                                                                                                                                                                                                        |
| Colombo    | (23) Earth International<br>(24) *Esoft Computer Studies<br>(25) Foundation of IT Professionals<br>(26) *IDM Computer Studies<br>(27) Infortec International<br>(28) *Matrix Institute of IT<br>(29) *Openarc School of Business and Technology<br>(30) Rotary Management Centre<br>(31) Sharp Vision Computer Institute<br>(32) TEC Sri Lanka<br>(33) Wide Awake Computer School |
| Galle      | (5) Earth International<br>(6) Esoft Computer Studies                                                                                                                                                                                                                                                                                                                             |
| Gampaha    | (9) *Earth International<br>(10) Esoft Computer Studies<br>(11) IDM Computer Studies<br>(12) Urban College for Business and Technology                                                                                                                                                                                                                                            |
| Jaffna     | (7) BIT Corner<br>(8) Esoft Computer Studies<br>(9) *Mobile@Net Computer Services                                                                                                                                                                                                                                                                                                 |
| Kalutara   | (3) Institute for Quality Studies                                                                                                                                                                                                                                                                                                                                                 |
| Kandy      | (9) *Esoft Computer Studies<br>(10) IDM Computer Studies<br>(11) Infortec International Institute<br>(12) Matrix Institute of IT                                                                                                                                                                                                                                                  |
| Kegalle    | (3) Institute of Computer Studies                                                                                                                                                                                                                                                                                                                                                 |
| Kurunegala | (5) *Esoft Computer Studies<br>(6) Infortec International Institute for IT                                                                                                                                                                                                                                                                                                        |
| Matara     | (7) Esoft Computer Studies<br>(8) IDM Computer Studies                                                                                                                                                                                                                                                                                                                            |

|                            |                                                |
|----------------------------|------------------------------------------------|
| (9) Matrix Institute of IT |                                                |
| Monaragala                 | (3) Global Institute of Professional Education |
| Vavuniya                   | (3) Esoft Computer Studies                     |

UCSC also continued to offer over ten extension certificate courses attracting nearly 700 students. Table 9 identifies the details of the CSC courses (programmes) conducted by the UCSC.

Table 9: CSC Training Programmes

| Course                                                         | B         | P          |
|----------------------------------------------------------------|-----------|------------|
| 3D Modeling and Animation                                      | 4         | 36         |
| 3D Modeling for Real-Time Simulations                          | 1         | 05         |
| Advanced Java Application Development using J2EE               | 3         | 72         |
| Advanced Multimedia Web Design and Development Techniques      | 5         | 94         |
| Computer Aided Drafting Using AutoCAD 2008                     | 1         | 21         |
| Digital Video Production and Animation                         | 1         | 09         |
| Dynamic Web Development with PHP and MySql                     | 3         | 60         |
| Graphics Design and Creativity Development                     | 4         | 44         |
| Intensive Course on Office Applications                        | 2         | 27         |
| Instructional Design for e-Learning                            | 1         | 07         |
| JAVA Application Development                                   | 3         | 71         |
| Linux Administration                                           | 1         | 06         |
| Linux Essentials                                               | 2         | 39         |
| Linux Systems and Network Security                             | 1         | 05         |
| Network. & Com. Hardware                                       | 1         | 33         |
| Unix Linux Fundamentals, Network & System Administration (C)   | 4         | 109        |
| Upgrading and Maintenance of Personal Computer Environment (C) | 2         | 19         |
| Web Design, Development                                        | 1         | 21         |
| <b>TOTAL</b>                                                   | <b>40</b> | <b>678</b> |

### Foreign Students

To be accepted as a centre of excellence in the region it is important to attract foreign students. Although foreign student category to enrol students had been there for a while only students who have done their A/L elsewhere but with local connections have applied so far. During 2011 first student enrolled under the foreign student category for the CS degree programme. He was a local who had studied overseas. Details of foreign student enrolment are given in table 10.

Table 10: Foreign Students

| Course           | Medium  | Intake 2011 | 1st Year Students | 2nd Year Students | 3rd Year Students | 4th Year Students | No of Graduated |
|------------------|---------|-------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Computer Science | English | 01          | 01                | -                 | -                 | -                 | -               |

### New Courses Started

Enhancing ICT skills and Improving English Language Skills programmes were launched by the ministry through the HETC funding. UCSC developed learning material and conducted online examination using ministry owned NODES centres. This Pre-Orientation Programme covering English and IT was attended island wide by 16,000 students.

UCSC continued to hold e-Testing for selecting students for the BIT programme and also implemented similar testing environment for the Institute of Chartered Accountants (ICA) students. Information of the new courses commenced is given in table 11.

Table 11: New Courses

| Course              | Medium  | Certificate | Diploma | Postgraduate Diploma | Master | M.Phil | Ph.D |
|---------------------|---------|-------------|---------|----------------------|--------|--------|------|
| Online IT & English | English |             | -       | -                    | -      | -      | -    |

## RESEARCH

### Research, Innovation and Publications

Research is carried out under different research groups and through research students (Table 13). UCSC admits graduates with good first degree results in Computer Science/Engineering for its full/part time (FT/PT) MPhil programme mainly centred on research projects in progress. Six new students registered during the year and one evaluation was held. Currently 31 students are working on 13 disciplines under 13 senior academics of the UCSC. 10 MPhil students had publications during the year.

Table 12: Staff Research Areas

| Research Area        | FT        | PT        | Total     | New      |
|----------------------|-----------|-----------|-----------|----------|
| Bioinformatics       | 0         | 1         | 1         | 0        |
| Computer Graphics    | 1         | 2         | 3         | 0        |
| Software Engineering | 0         | 1         | 1         | 0        |
| Data Mining          | 1         | 0         | 1         | 0        |
| Digital Forensic     | 1         | 0         | 1         | 0        |
| e-Business           | 0         | 2         | 2         | 0        |
| e-Learning           | 2         | 1         | 3         | 1        |
| GIS                  | 2         | 1         | 3         | 0        |
| High Performance     | 1         | 1         | 2         | 1        |
| Image Processing     | 1         | 2         | 3         | 1        |
| Machine Learning     | 3         | 4         | 7         | 3        |
| Local Language       | 0         | 1         | 1         | 0        |
| Sensor Networks      | 1         | 2         | 3         | 0        |
| <b>TOTAL</b>         | <b>13</b> | <b>18</b> | <b>31</b> | <b>6</b> |

To promote research at the UCSC a research fund was established in 2009. Both Masters and External degree programme annually contribute for this fund which has grown to 10 million in few years. Senior staff could annually utilise up to 250,000 rupees to participate at research meetings and publish research in international conferences and journals. Among the years publications 58 were conference papers held in 19 countries. 21 (58%) academic staff published research papers. Table 13 gives the details of the publications.

Table 13: Research Summary

| Subject           | Published | Commercialized | Presented |
|-------------------|-----------|----------------|-----------|
| No of Researches  | 87        | -              | 58        |
| No of Innovations | -         | -              | -         |
| No of Journals    | 4         | -              | -         |
| No of Books       | 1         | -              | -         |

|                |    |   |    |
|----------------|----|---|----|
| No of Articles | 58 | - | -  |
| Other          | -  | - | -  |
| Total          | 63 | - | 58 |

### Conferences, Seminars & Workshops

Setting up mechanisms for identifying & carrying out relevant research is another strategy of the UCSC. Organising the annual UCSC Research Symposium for Final Year undergraduates was continued. A Research Day to disseminate research carried out by staff was introduced this year with the participation of the overseas external examiner. UCSC also continued to publish two issues of the ICTer Journal. Organize International IT Conference for Emerging Regions and hosted INET conference workshops at UCSC. UCSC also revised mechanism for utilizing Research Fund by all academics to encourage further involvement in research.

UCSC successfully held the annual Prof. V.K. Samaranayake oration at the UCSC and attracted new funds for the Prof. V.K. Samaranayake endowment fund. Details of the conferences, seminars and workshops are given in table 14.

Table 14: Conferences, Seminars and Workshops

| Subject                                    | Participated | Published | Presented |
|--------------------------------------------|--------------|-----------|-----------|
| Senior Academics local conferences         | 22           | 1         | 0         |
| Senior Academics International conferences | 17           | 46        | 6         |
| Research Seminar (Staff)                   | 20           | 0         | 13        |
| UCSC Symposium (abstracts)                 | 150          | 48        | 13        |
| Organized International Conference (ICTer) | 175          | 32        | 19        |
| Organized International Workshop           | 122          | 0         | 0         |
| ICTer Journal                              | 25           | 10        | 0         |
| Total                                      | 531          | 137       | 51        |

### Awards Received

UCSC continued to encourage students and staff to participate in national and international competitions. Over the last few years UCSC has won several open awards awarded by NBQSA, e-Swabhimani, APICTA and Manthan. Students have excelled at Imagine Cup and other events.

Group of students won the Information Security Quiz competition organised by Sri Lanka CERT. Another group obtained special recognition at the National Best Quality ICT Awards. Details of the awards received are given in table 15.

Table 15: Research Awards

| Subject              | No of Awards | No of Academics | No of Students |
|----------------------|--------------|-----------------|----------------|
| Local Awards         | 2            | 1               | 3              |
| National Awards      | -            | -               | -              |
| International Awards | -            | -               | -              |
| Other                | -            | -               | -              |
| Total                | 2            | 1               | 3              |

## Academic Staff

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During the year three permanent instructors were promoted to Lecturer (Probationary), one Lecturer (Probationary) was recruited and another was terminated. One academic and one administrator went on sabbatical, while another academic returned after completing his sabbatical. However UCSC failed to attract required personnel to fill the available positions. Only 38 of the 72 Academic & Academic support carder positions are filled. Retaining trained technical personal and attracting good young academics were extremely difficult due to better prospects in the private sector. Beside the permanent staff to carry out daily activities UCSC rely on visiting staff to deliver some of their programmes.

In order to attract international human resources short term visiting researchers from Australia, Sweden, UK and USA was hosted during the year. UCSC also commenced the first staff exchange programme under Linnaeus Palme Project with Umea University, Sweden and UCSC staff member successfully conducted a course in Umea.

Details of the UCSC academic staff is given in table 16.

Table 16: Staff Research Areas

| Subjects      | Medium  | Senior Professor | Professor | Senior Lecturer | Lecturer | Asst Lecturer | Instructor |
|---------------|---------|------------------|-----------|-----------------|----------|---------------|------------|
| Computing (P) | English | -                | 02        | 18              | 16*      | -             | 02         |
| Computing (C) | English | -                | -         | -               | 02       | -             | 08         |

\*09 on leave

### Non-Academic Staff: Permanent (P) Contract/Assignment (C/A)

Efforts were put into the development and implementation of management and strategic information system. Outcome was not encouraging due to less involvement by the potential users. Implementation work of the ongoing Examination Processing System was continued. Online payment facility for external and extension programmes and postgraduate programmes was introduced. Financial system at the UCSC was upgraded and a project to implement surveillance and RFID based books monitoring system for the library was initiated.

Details of the UCSC non-academic staff is given in table 17. Although carder for over 100 Non-Academic and Project staff were approved UCSC only 35 permanent position have been fill and the most of the work is carry out by contract and assignment staff.

Table 17: Non-Academic Staff

| Type | Most Senior(Admin) | Senior Staff | Junior Staff | Minor Employees | Project Staff |
|------|--------------------|--------------|--------------|-----------------|---------------|
| P    | 5                  | 4            | 20           | 6               | -             |
| C    | -                  | 4            | 20           | 11              | 14            |
| A    | -                  | 2            | -            | -               | -             |

## FINANCE

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### Recurrent Expenditure

UCSC contributes towards the day to day operations using generated income as treasury funds are inadequate to carry out the undergraduate activities. Cost per undergraduate student is 125,000. UCSC contributed 22 million for the internal undergraduate programme which was 28% of its generated income. Breakdown of recurrent expenditure is given in table 18.

Table 18: Recurrent Expenditure

| Subject               | Rs. 000' |         |
|-----------------------|----------|---------|
|                       | 2010     | 2011    |
| Personal emoluments   | 68,015   | 79,931  |
| Travelling            | 484      | 1,132   |
| Supplies              | 3,895    | 4,227   |
| Maintenance           | 2,906    | 3,627   |
| Contractual Services  | 23,453   | 26,675  |
| Other                 | 54,672   | 56,915  |
| Total                 | 153,425  | 172,507 |
| Government Allocation | 65,381   | 83,102  |

### Capital Expenditure

UCSC invested in physical resources to improve its computing facilities. Servers were set up for Streamed Video and Flash Video of existing material and for e-testing. Equipment of the network operating centre was upgraded to meet increased throughput. Details of capital expenditure are given in table 19.

Table 19: Capital Expenditure

| Subject                                      | Rs. 000' |        |
|----------------------------------------------|----------|--------|
|                                              | 2010     | 2011   |
| Acquisition of furniture & Office Equipments | 6,043    | 2,656  |
| Acquisition of Machineries                   | -        | -      |
| Acquisition of Building & Structures         | -        | 15,420 |
| Other                                        | 15,257   | 10,099 |
| Total                                        | 21,300   | 28,175 |
| Government Allocation                        | 3,420    | 16,000 |

### Projects (Local/Foreign Funded)

UCSC has a strong research group in several disciplines. Modelling & Simulation, e-Learning and Language Technology are among those that have reached the user community. UCSC has created a collaborative interdisciplinary research culture as well as strengthen industry university collaboration. Initiated industry collaborated research through a 1.5 million project with Orel Solutions and with few others with funding from NSF and NRC. Three Sida funded projects (Networking, PhD, NeLC) was successfully completed while research work of ongoing research projects such as M-ATM, TikiriDB, VIPNet was continued.

Beside research based projects UCSC carry out consultancy services to public and private sector. UCSC is well known for some of its work in the past. UCSC has assisted with the National Elections since 1981. Birth Marriage certificates are now issued over the counter using UCSC software. Sinhala language is supported in modern computers due to the efforts of UCSC through

the design and development of Sinhala Unicode.

Implementation of a university student selection and allocation system for the UGC was one of the major development activities carried out by the UCSC. This will significantly reduce the time taken for university admissions as well as the accuracy of the process adopted. UCSC also implemented a touch screen based voting system for ICA which was used to select their office bearers. Through the e-learning centre several e-testing based recruitment test were conducted for UGC and other universities. UCSC also continued to carrying out Digital Forensic activities to assist court cases.

While maintaining strategic partnerships with key stakeholders the UCSC continued implementation of e-Government projects in the country and commenced new projects with HETC and Government Ministries. UCSC submitted proposals for HETC funding under UDG, PGD and EEP. However, UCSC was successful only in the EEP proposal. UCSC through also implemented an e-learning framework for Royal University of Bhutan through World Bank funding. Theekshana, a UCSC owned company generated nearly Rs. 15 million of which over Rs. 8 million was in foreign exchange. Details of the UCSC projects carried out are listed table 20.

Table 20: Recurrent Expenditure

Rs. 000'

| Name & Detail             | Grant        | Funding Agency                     | TCE   | RFA   | DF |
|---------------------------|--------------|------------------------------------|-------|-------|----|
| LTRL (2010-11)            | 18,845       | IDRC, Canada                       |       |       |    |
| M-ATM (2008-11)           | 6,566        | Royal Inst. of Tech.(KTH), Sweden  |       |       |    |
| Tele centre.Org (2010-11) | 1,948        | Telecentre Foundation, Philippines |       |       |    |
| Tikiri DB (2010-2012)     | 1,751        | Swedish Inst. of Comp. Sc., Sweden |       |       |    |
| VIP Net (2010-2011)       | 1,357        | APNIC (Pvt) Ltd, Australia         |       |       |    |
| Linnaus Palm (2011)       | 100          | Linnaus Palm, Sweden               | 100   | 100   |    |
| <b>Foreign Funds</b>      |              |                                    |       |       |    |
| FASS (2011-2012)          | 408          | Ministry of Defence, Sri Lanka     | 408   | 408   |    |
| Orange (2011-2012)        | 1,500        | Solutions (Pvt) Ltd, Sri Lanka     | 1,500 | 1,500 |    |
| Copsayura (2011-13)       | 1,628        | National Science Foundation        | 1,628 | 1,628 |    |
| Vidusayura (2011)         | 50           | Sri Lanka Navy                     | 50    | 50    |    |
| <b>Local Funds</b>        | <b>1,908</b> |                                    |       |       |    |

TCE – Total Cost Estimated; RFA – Request for Applications; DF – Discount Factor

### Project Expenditure (Local/Foreign Funded)

Rs. 000'

| Name                       | TCE<br>B/F Accu.<br>Cost | Exp<br>in 2010 | Exp<br>in 2011 | Cumulative<br>Exp as at<br>31.12.2011 | % of<br>Physical<br>Progress |
|----------------------------|--------------------------|----------------|----------------|---------------------------------------|------------------------------|
| LTRL                       | 16,469                   | 2,718          | 1,956          | 21,143                                | 100%                         |
| M-ATM                      | 1,855                    | 2,314          | 3,359          | 7,528                                 | 80%                          |
| Tele centre.Org            | 120                      | 1,828          | 462            | 2,410                                 | 100%                         |
| Tikiri DB                  | -                        | 1,435          | 378            | 1,813                                 | 60%                          |
| VIP Net                    | -                        | 1,358          | 1,059          | 2,417                                 | 100%                         |
| <b>Foreign Project Exp</b> | <b>18,444</b>            | <b>9,653</b>   | <b>7,214</b>   | <b>35,311</b>                         |                              |
| FASS                       | -                        | -              | 40             | 40                                    | 30%                          |
| Orange                     | -                        | -              | 645            | 645                                   | 50%                          |
| <b>Local Project Exp</b>   | <b>-</b>                 | <b>-</b>       | <b>685</b>     | <b>685</b>                            |                              |

### Financial Progress (Expenditure)

Rs. 000'

| Subject                  | Provision | Exp     | Savings/Excess |
|--------------------------|-----------|---------|----------------|
| Recurrent except Project | 180,107   | 172,507 | 7,600          |
| Capital except Project   | 87,463    | 28,175  | 59,288         |
| Project - Local funded   | 745       | 745     | -              |
| Project - Foreign funded | 5,402     | 5,402   | -              |
| Total                    | 273,717   | 206,829 | 66,888         |

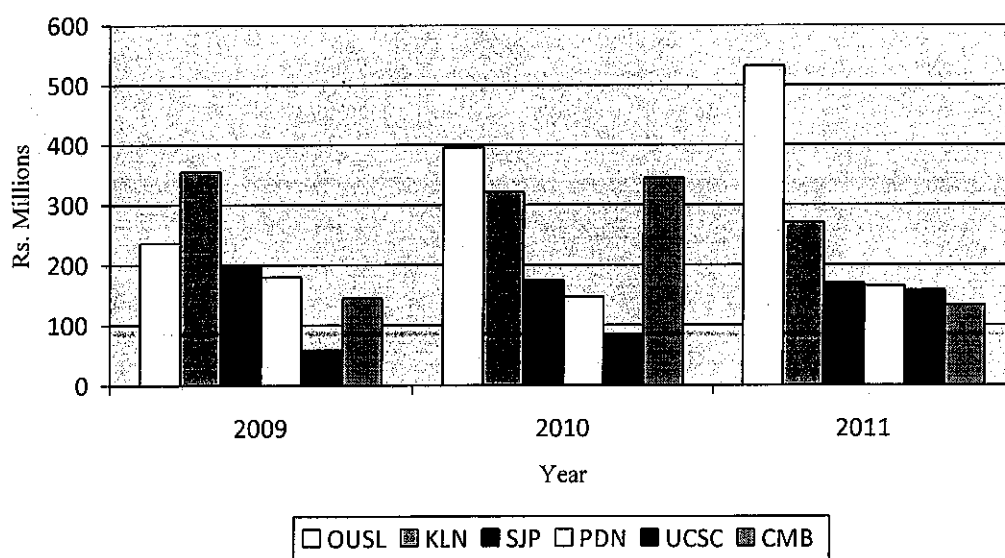
### Financial Progress (Generated Income)

Rs. 000'

| Source of Revenue     | Provision | Collection | Deficit / Surplus |
|-----------------------|-----------|------------|-------------------|
| Undergraduate Studies | 88,646    | 87,981     | 665               |
| Postgraduate Studies  | 26,987    | 55,595     | (28,608)          |
| Consultancies         | 39,341    | 31,045     | 8,296             |
| External Degree       | 51,761    | 72,845     | (21,084)          |
| Other                 | -         | -          | -                 |
| Total                 | 206,735   | 247,466    | (40,731)          |

Excluding the Undergraduate income UCSC earned 159,485. Generated income of the UCSC was much higher than most universities and higher education institutes, including its main university.

### Generated Income



### Financial Performance Analysis

Rs. 000'

| Subject                                | Formula                     | Exp. per Student |
|----------------------------------------|-----------------------------|------------------|
| Recurrent Expenditure per Student (RE) | RE / No of Student strength | 125              |
| Capital Expenditure per Student (CE)   | CE / No of Student strength | 38               |
| Total                                  |                             | 163              |

### **Infrastructure Facilities Received in 2011**

UCSC operate with limited space with inadequate space to conduct lectures. Students do not have adequate space in the canteen, common and study rooms. As the university was unable to provide land UCSC commenced Build West wing and fourth floor extensions to meet shortage in undergraduate classrooms and to accommodate fulltime research students.

While meeting the short term infrastructure needs expansion plans were designed to meet medium and long term goals. Construction of a canteen and administrative building at the current canteen location was identified along with replacing the existing auditorium with lecture halls/study rooms cum auditorium were among the medium term goals. Requirement to set up buildings outside the University of Colombo was also identified as long term goals. Details of the building work are given below.

| Rs. 000'                |                     |                   |
|-------------------------|---------------------|-------------------|
| Infrastructure Details  | Expenditure<br>(Rs) | Physical Progress |
| UCSC Building Extension | 15,420              | 30%               |

### **Any Other Details / Performance Relevant to this Report**

To enhance visibility locally and internationally monthly print media coverage of UCSC activities was maintained along with redesigning of the UCSC web site to improve presence.

UCSC considers taking IT education and products to the periphery is one of their social responsibilities. During the year UCSC partnered with Rupavahini Corporation to introduce educational programme for A/L students. UCSC also continued community interface through SLBC Radio programme conducted every Wednesday morning from 9 to 10. UCSC also assist Ministry of Education and Schools in conducting Software Competitions including the International Olympiad in Informatics.

UCSC provided real opportunities for students to exercise social responsibility both within and outside the university. Several workshops were organised by the students. For the first time UCSC provided international exposure for all staff and their families through a welfare trip to Chennai. UCSC continued with the staff medical insurance scheme.

**UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING**  
**UNIVERSITY OF COLOMBO**  
**COMBINED BALANCE SHEET AS AT 31ST DECEMBER 2011**

| <u>ASSETS</u>                                 | 2011               | 2010               |
|-----------------------------------------------|--------------------|--------------------|
|                                               | Rs                 | Rs                 |
|                                               | N.B.V              | N.B.V              |
| <u>Non Current Assets</u>                     |                    |                    |
| <u>Property, Plant &amp; Equipment</u>        |                    |                    |
| Buildings                                     | 13,609,495         | 14,575,191         |
| Lab & Teaching Equip. Furniture & Fittings    | 63,508,994         | 65,844,162         |
| Library Books and Periodicals                 | 882,382            | 841,155            |
| Motor Vehicles                                | 5,015,623          | -                  |
| Total                                         | 83,016,494         | 81,260,508         |
| Rehabilitation and Improv. of Capital Assets. | 31,309,842         | 34,381,973         |
| Construction Work in Progress                 | 15,420,756         |                    |
| <u>Current Assets</u>                         |                    |                    |
| Inventories                                   | 2,588,631          | 3,251,260          |
| Receivables & Prepayments                     | 33,202,229         | 35,580,959         |
| SIDA Funds                                    | 60,429,110         | 222,763,074        |
| LEARN Funds                                   | -                  | 51,256,779         |
| Cash & Cash Equivalent                        | 482,533,173        | 401,219,612        |
| Total Current Assets                          | 578,753,143        | 714,071,684        |
| <b>TOTAL ASSETS</b>                           | <b>708,500,240</b> | <b>829,714,167</b> |
| <u>EQUITY &amp; LIABILITIES</u>               |                    |                    |
| <u>Capital &amp; Reserves</u>                 |                    |                    |
| <u>Capital</u>                                |                    |                    |
| Capital Grant Unspent                         | 3,361,251          | 6,976,033          |
| IT Grant Unspent                              | 895,466            | 895,466            |
| Capital Grant Spent                           | 39,984,898         | 34,638,590         |
| IT Grant Spent                                | 7,785,509          | 11,218,659         |
| E Learning Project-Grant                      | -                  | (330,992)          |
| E Learning Project-Spent                      | -                  | 28,434,793         |
| IDRC Project -Grant                           | 1,076,325          | 1,076,325          |
| IDRC Project -Spent                           | 648,785            | 648,785            |
| Foreign Funded Projects-Unspent               | 5,851,551          | 10,213,648         |
| Foreign Funded Projects-Spent                 | 3,250,000          | 3,368,988          |
| Differed Gants                                | 37,430,874         | -                  |
| Contribution from the UoC                     | 8,155,714          | 8,155,714          |
| Total                                         | 108,440,373        | 105,296,009        |
| Reserves                                      | 342,298,905        | 272,126,842        |
| Restricted Funds                              | 54,954,738         | 43,215,316         |
| <u>Non Current Liabilities</u>                |                    |                    |
| Retirement Benefit                            | 23,393,238         | 20,233,733         |
| <u>Current Liabilities</u>                    |                    |                    |
| Other Accruals & Payables                     | 117,960,098        | 112,930,480        |
| SIDA Funds                                    | 60,429,110         | 222,763,074        |
| LEARN Funds                                   | -                  | 51,256,779         |
| Bank Overdraft                                | 1,023,778          | 1,891,933          |
| Total                                         | 179,412,986        | 388,842,266        |
| <b>TOTAL EQUITY &amp; LIABILITIES</b>         | <b>708,500,240</b> | <b>829,714,167</b> |

28.02.2012

Director(UCSC)

Senior Assist. Bursar

# UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

## UNIVERSITY OF COLOMBO

COMBINED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST DECEMBER 2011

|                                             | 2011<br>Rs  | 2010<br>Rs   |
|---------------------------------------------|-------------|--------------|
| <u>Undergraduate Programme</u>              |             |              |
| <u>Income</u>                               |             |              |
| Government Grant                            | 83,102,728  | 65,381,575   |
| Deferred Income - Grants                    | 19,778,039  | 13,011,762   |
| Other                                       | 4,879,143   | 3,381,045    |
|                                             | 107,759,910 | 81,774,382   |
| <u>Undergraduate Programme -Expenditure</u> |             |              |
| Personnel Emoluments                        | 50,717,167  | 42,753,294   |
| Traveling expenses                          | 387,447     | 221,935      |
| Supplies                                    | 2,424,562   | 2,361,498    |
| Contractual services                        | 24,159,062  | 19,250,982   |
| Retirement Benefits                         | 8,133,475   | 7,543,504    |
| Subscription, Contri. and Membership Fee    | 44,139      | 73,471       |
| Staff Development                           | 349,643     | 196,875      |
| Other Recurrent Expenses                    | 6,094,293   | 7,718,630    |
| Depreciation                                | 18,551,317  | 13,011,763   |
| Total                                       | 110,861,105 | 93,131,952   |
| Deficit from Undergraduate Programme        | (3,101,195) | (11,357,570) |
| <u>Extension Programme</u>                  |             |              |
| M Sc. Programme                             | 30,760,124  | 18,508,949   |
| External Degrees Centre                     | 43,468,371  | 28,800,148   |
| Computing Services Centre                   | 654,128     | 783,607      |
| Advanced Digital Media Technology Centre    | 175,248     | 680,697      |
| e Learning Centre                           | 197,251     | -            |
| Professional Development Centre             | (461,413)   | (397,450)    |
| Surplus from Extension Programme            | 76,568,975  | 48,375,951   |
| <u>Projects</u>                             |             |              |
| eLearning Centre                            | -           | 3,905,611    |
| Foreign Funded Common Projects              | -           | 568,418      |
| NeLC                                        | -           | 47,595       |
| IDRC Virtual Village                        | 65,944      | (28,602)     |
| Surplus from Projects                       | 65,944      | 4,493,022    |
| Net Surpluses/( Deficit)                    | 73,533,724  | 41,511,403   |

# UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

University of Colombo

Combined Cash Flow Statement for the year ended 31st December 2011

|                                                       | 2011<br>Rs   | 2010<br>Rs   |
|-------------------------------------------------------|--------------|--------------|
| Cash flow from operating activities                   |              |              |
| Deficit/Surplus for the year                          | 73,533,724   | 41,511,402   |
| <u>Adjustment for</u>                                 |              |              |
| Depreciation -                                        | 25,380,877   | 24,553,435   |
| Provision for Gratuity                                | 3,233,192    | 2,901,523    |
| Overprovision for Depreciation                        | (67,655)     |              |
| Differed Income                                       | (23,974,726) | (22,883,071) |
| Transfer from Previous Grant Received                 | (5,245,357)  | (63,331,585) |
| Profit from sales of property plant & equipment       | (1,283,000)  | (114,460)    |
| Exchange Gain                                         | (784,747)    | 1,054,488    |
| Operating surplus before working capital changes      | 70,792,308   | (16,308,268) |
| Working capital changes                               | 8,070,977    | 42,953,011   |
| Net cash generated from operating activities          | 78,863,285   | 26,644,744   |
| Cash flows from investing activities                  |              |              |
| Acquisition of property plant & equipment             | (28,430,366) | (33,523,733) |
| Proceeds from sales of property plant & equipment     | 1,283,000    | 120,010      |
| Rehabili. & maintenance of property plant & equip     | (561,288)    | (9,447,495)  |
|                                                       | 51,154,631   | (16,206,474) |
| Cash flows from financing activities                  |              |              |
| Capital grant received                                | 18,205,340   | 83,420,743   |
| Project Grant Received                                | 6,202,608    |              |
| Transfer from Completed Project Balances              | (5,805,939)  |              |
| NeLC Project Transfer                                 | (379,400)    |              |
| Gratuity paid                                         | (73,688)     | (87,720)     |
| Receipts from Restricted Funds                        | 12,093,420   | 12,535,300   |
| Net Increase/decrease in cash and cash equivalent     | 81,396,972   | 79,661,849   |
| Exchange Gain/(Loss)                                  | 784,747      | (1,054,488)  |
| Cash and cash equivalent at the beginning of the year | 399,327,677  | 320,720,316  |
| Cash and cash equivalent at the end of the year       | 481,509,395  | 399,327,677  |

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

Financial Highlights

Rs. '000

| Financial Year                                 | 2011           | 2010           | 2009           | 2008           | 2007           | 2006           |
|------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Balance sheet</b>                           |                |                |                |                |                |                |
| Cash & Cash Equivalent                         | 481,510        | 401,220        | 327,808        | 260,935        | 201,245        | 164,656        |
| Receivables & Prepayments                      | 33,202         | 35,580         | 34,859         | 32,253         | 19,219         | 13,058         |
| Inventories                                    | 2,588          | 3,251          | 2,404          | 2,126          | 1,548          | 1,859          |
| SIDA Funds managed by UCSC                     | 60,429         | 222,763        | 186,424        | 77,020         | 81,555         | 86,432         |
| LEARN Funds managed by UCSC                    | -              | 51,256         | 74,896         | 49,024         | 61,861         | 27,695         |
| Rehabilitation and Improv. of Capital Assets.  | 31,309         | 34,381         | 21,694         | 20,455         | 18,918         | 16,231         |
| Construction works in Progress                 | 15,420         | -              | -              | -              | -              | -              |
| Property, Plant & Equipment                    | 83,016         | 81,261         | 75,535         | 83,684         | 88,079         | 115,581        |
| <b>Total Assets</b>                            | <b>707,474</b> | <b>829,712</b> | <b>723,620</b> | <b>525,497</b> | <b>472,425</b> | <b>425,512</b> |
| Capital                                        | 108,440        | 105,296        | 108,690        | 109,010        | 102,707        | 124,218        |
| Reserves                                       | 342,299        | 272,126        | 232,899        | 179,578        | 138,765        | 109,647        |
| Restricted Funds                               | 54,954         | 43,215         | 30,110         | 22,528         | 19,597         | 18,457         |
| Other Liabilities                              | 201,781        | 409,075        | 351,921        | 214,381        | 211,356        | 173,190        |
| <b>Total Liabilities &amp; Funds</b>           | <b>707,474</b> | <b>829,712</b> | <b>723,620</b> | <b>525,497</b> | <b>472,425</b> | <b>425,512</b> |
| Government Grant - Recurrent                   | 83,102         | 65,381         | 68,610         | 71,555         | 78,695         | 52,850         |
| Government Grant - Capital                     | 16,000         | 4,920          | 4,167          | 11,055         | 10,560         | 36,740         |
| <b>Total Govt. Grant Received</b>              | <b>99,102</b>  | <b>70,301</b>  | <b>72,777</b>  | <b>82,610</b>  | <b>89,255</b>  | <b>89,590</b>  |
| Recurrent Expenditure U/Programme              | 92,310         | 80,120         | 84,461         | 80,083         | 76,564         | 65,617         |
| Capital Expenditure                            | 28,628         | 21,301         | 8,542          | 12,764         | 12,305         | 29,064         |
| <b>Total expenditure U/programme</b>           | <b>120,938</b> | <b>101,421</b> | <b>93,003</b>  | <b>92,847</b>  | <b>88,869</b>  | <b>94,681</b>  |
| Contribution from Generated income             | 21,836         | 31,120         | 20,226         | 10,237         | -              | 5,091          |
| Contribution from Generated Gross income -%    | 14%            | 25%            | 17%            | 10%            | 0%             | 9%             |
| Contribution from Generated Net income -%      | 28%            | 62%            | 35%            | 18%            | 0%             | 21%            |
| Generated Income                               | 159,429        | 123,267        | 115,690        | 105,426        | 68,494         | 58,981         |
| Recurrent Expenditure Extension Programmes     | 80,197         | 73,313         | 58,399         | 47,316         | 40,117         | 35,141         |
| Grant Received for the foreign funded projects | 6,202          | 93,581         | 104,834        | 70,969         | 35,700         | 46,356         |
| No. of Internal students                       | 737            | 739            | 748            | 754            | 584            | 592            |
| No. of Employees                               | 144            | 151            | 162            | 156            | 147            | 139            |
| Cost per student P.A. ('000)                   | 125            | 108            | 113            | 106            | 131            | 111            |
| Cost per employee P.A. ('000)                  | 578            | 457            | 414            | 384            | 372            | 359            |



# විගණකාධිපති දෙපාර්තමේන්තුව

கணக்காய்வாளர் துறைமறை அறிப்பறி திறன்க்களம்

AUDITOR GENERAL'S DEPARTMENT



මගේ අංකය  
எனது இல  
My No

සිව/ස/සුසිවස්ස/2011/වස්ථ  
உமது இல  
Your No.

දිනය  
திகதி  
Date

2012 නොවැම්බර් 22 දින

අධ්‍යක්ෂ,

කොළඹ විශ්වවිද්‍යාලීය පරිගණක අධ්‍යයන ආයතනය.

කොළඹ විශ්වවිද්‍යාලීය පරිගණක අධ්‍යයන ආයතනයේ 2011 දෙසැම්බර් 31 දිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය ප්‍රකාශන පිළිබඳව 1978 අංක 16 දරන විශ්වවිද්‍යාල පනතේ 108(2) වගන්තිය සහ 1971 අංක 38 දරන මුදල් පනතේ 13(7)(ඵ) වගන්තිය ප්‍රකාර විගණකාධිපති වාර්තාව

මගේ සමාංක හා 2012 ජූලි 04 දිනැති මාගේ ලිපියට යොමුවේ .

02. ඉහත සඳහන් ලිපිය සමඟ එවන ලද මාගේ වාර්තාවේ ඉංග්‍රීසි අනුවාදය මේ සමඟ එවා ඇත.

එච්.ඒ.එස්. සමරසිංහ

විගණකාධිපති.

පිටපත් :

1. සභාපති , විශ්වවිද්‍යාල ප්‍රතිපාදන කොමිෂන් සභාව
2. ලේකම් , උසස් අධ්‍යාපන අමාත්‍යාංශය
3. ලේකම් , මුදල් හා ක්‍රමසම්පාදන අමාත්‍යාංශය
4. උපකුලපති , කොළඹ විශ්වවිද්‍යාලය

අංක 306/72 පොල්දූව පාර,  
බත්තරමුල්ල , ශ්‍රී ලංකාව

இல. 306/72, பொல்துவ வீதி,  
பத்தரமுல்லை இலங்கை

No.306/72, Polduwa Road,  
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தொலைபேசி  
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பக்ஸ் இல  
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110  
2887223

ඉලෙක්ට්‍රොනික් තැපෑල  
#- மெயில்  
E-mail.

oaggov@sltnet.lk



# විගණකාධිපති දෙපාර්තමේන්තුව

கணக்காய்வாளர் தலைமை அலுவலகம்

## AUDITOR GENERAL'S DEPARTMENT



මගේ අංකය  
எனது இல.  
My No

CE/C/UCSC/2011/FA

ඔබේ අංකය  
உமது இல.  
Your No.

දිනය  
திகதி  
Date

04 July 2012

The Director  
University of Colombo School of Computing

Report of the Auditor General on the Financial Statements of the University of Colombo School of Computing for the year ended 31 December 2011 in terms of Section 108(2) of the Universities Act, No. 16 of 1978 and Section 13(7)(a) of the Finance Act, No. 38 of 1971

The audit of financial statements of the University of Colombo School of Computing for the year ended 31 December 2011 comprising the balance sheet as at 31 December 2011 and the income statement, statement of changes in equity and cash flow statement for the year then ended and a summary of significant accounting policies and other explanatory information 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 read in conjunction with Section 13(1) of the Finance Act No.38 of 1971 and Section 23 of the University of Colombo School of Computing Ordinance, No. 1 of 2002 enacted under Section 108(2) of the Universities Act No. 16 of 1978. My comments and observations which I consider should be published with the Annual Report of the University of Colombo School of Computing in terms of Section 13(7)(a) of the Finance Act appear in this report.

### 1:2 Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with Sri Lanka Accounting Standards and for such internal control as the management determines is necessary to enable the preparation of financial statements that are free from material misstatements whether due to fraud or error.

### 1:3 Auditor's Responsibility

My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with Sri Lanka Auditing Standards. Those Standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements.

අංක 306/72 පොල්දූව පාර,  
බත්තරමුල්ල, ශ්‍රී ලංකාව

இல. 306/72, பொல்துவ வீதி,  
பத்தரமுல்லை இலங்கை

No.306/72, Polduwa Road,  
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2887223

ඉලෙක්ට්‍රොනික් තැපෑල  
ஈ-மெயில்  
E-mail.

oaggov@sltnet.lk

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgements, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the institution's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the institution's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of financial statements. Sub - sections (3) and (4) of Section 13 of the Finance Act, No. 38 of 1971 give discretionary powers to the Auditor General to determine the scope and the extent of the audit.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified audit opinion.

1:4 **Basis for Qualified Opinion**

My opinion is qualified based on the matters described in paragraph 2.2 of this report.

2. **Financial statements**

2:1 **Qualified Opinion**

In my opinion, except for the effects of the matters described in paragraph 2.2 of this report, the financial statements give a true and fair view of the financial position of the University of Colombo School of Computing as at 31 December 2011 and its financial performance and cash flows for the year then ended in accordance with Sri Lanka Accounting Standards.

2.2 **Comments and Financial Statements**

The financial statement of the University of Colombo School of Computing affiliated to the University of Colombo for the year under review had been presented for audit on 28 February 2012. The draft report was furnished on 06 June 2012 after carrying out the audit of the accounts. Accounting deficiencies amounting to Rs. 49,129,601 were pointed out in the draft report and the amended financial statements prepared by rectifying all those accounting deficiencies had been presented on 06 June 2012. The possibility of such further deficiencies outside the sample selected cannot be ruled out in audit.

### 2.2.1 Sri Lanka Accounting Standards

According to Sri Lanka Accounting Standard 18(14) if the useful life of fully depreciated assets further exists, such assets should be revalued. Nevertheless, the fully depreciated Motor Van costing Rs. 2,775,000 had not been so revalued.

### 2.2.2 Non – compliance with Laws , Rules , Regulations and Management Decisions.

Reference to Laws, Rules, Non – compliance  
Regulations and Management  
Decisions

- |     |                                                                                                                                    |                                                                                                                                                                                                                                                                                       |
|-----|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Financial Regulation 756                                                                                                           | The fixed assets costing Rs.413,404,222 according to the accounts in the annual financial statements of the institution for the year under review had not been verified.                                                                                                              |
| (b) | Financial Regulation 371                                                                                                           | The institution had failed to recover the distress loans amounting to Rs. 289,046 and the festival advances amounting to Rs. 5,900 obtained by the officers of the institution and lapsed for more than 05 years, even during the year under review.                                  |
| (c) | National Budget Circular No. 142 of 31 December 2008 and the University Grants Commission Circular No. 2/2009 of 05 February 2009. | Even though the distress loans granted from 01 January 2009 should be restricted to a maximum limit of Rs.250,000, a sum of Rs. 763,200 exceeding such limit had been paid to 08 officers.                                                                                            |
| (d) | Public Enterprises Circular No. 95 of 14 June 1994.                                                                                | Even though other allowances in addition to the salary cannot be paid without obtaining the approval of the Director General of Establishments, a sum of Rs. 119,500 had been paid to 03 officers as projects financial and administration allowance without obtaining such approval. |

### 2.2.3 Transactions not Supported by Adequate Authority

Contrary to the Public Administration Circulars No. 29/98 , No. 29/98(1), No.07/2007(1) and No. 02/2009, a sum of Rs. 69,111 had been paid in the year 2011 as the second and third languages proficiency, in accordance with the Establishment Circular No.6/2003 issued by the University Grants Commission.

## 3. Financial Review

### 3.1 Financial Results

According to the financial statements presented, the working of the institution for the year ended 31 December 2011, before taking in to account in Government Grant for recurrent expenditure, had resulted in a deficit of Rs.9,569,004 as compared with the corresponding deficit of Rs. 23,870,170 for the preceding year. The deficit for the year under review had been converted to a surplus of Rs. 73,533,724 due to the Government Grant of Rs. 83,102,728 received for recurrent expenditure and the deficit for the preceding year had been converted to a surplus of Rs. 41,511,405 due to the Government Grant of Rs. 65,381,575 received for the recurrent expenditure of that year. The increase of Rs. 17,721,153 in the Government Grant for recurrent expenditure had specially affected the improvement of Rs. 32,022,319 in the year under review.

## 4. Operating Review

### Underutilizations of Funds

The unspent IT Grant of the Graduate Programme amounted to Rs. 895,466 and that amount remained non- moving over a period exceeding three years.

## 5. Accountability and Good Governance

The Annual Reports for the years 2008 and 2009 had been forwarded after a delay on 16 September 2011 for tabling in Parliament. The Annual Report for the year 2010 had been forwarded to the Ministry on 08 March 2012. A copy of the draft Annual Report of the institution for the year under review had not been presented to audit along with the financial statements in terms of Section 6.5.1 of the Public Enterprises Guidelines on Good Governance.

6. **System and Controls**

Deficiencies in systems and controls observed during the course of audit were brought to the notice of the Director of the institution from time to time. Special attention is needed in respect of the following areas of control.

- (a) Advances
- (b) Accounting
- (c) Funds Utilization

H.A.S. Samaraweera  
Auditor General

**UNIVERSITY OF COLOMBO  
SCHOOL OF COMPUTING**

**UCSC Comments on Auditor General's  
Report - 2011**

2.2. **Comments on Financial Statement**

Auditors pointed out that certain account balances contained accounting deficiencies that had not been properly reconciled with ledger accounts.

2.2.1 **Sri Lanka Accounting Standard**

Instead of revaluating each asset with useful life according to SLAS 18, the entire class of such asset had been fully depreciated.

However, even if we revalue these assets, the only result is increase the reserve and compared with the cost involved in this process there is not much benefit for the institute.

2.2.2 **Non Compliance with Rules, Regulation and Management decisions**

- a) As per F.R. 756 a physical verification started in 2011, but it was incomplete. However a fresh verification started in 2012 it is being carried out.
- b) Loans obtained by the officers not reporting to work could not be recovered. However action has been taken to recover these loans from their UPF balances.
- c) Other than the EPF loans the distress loan is the only loan scheme available for University employees. According to the government circular, up to a maximum of Rs. 250,000/- is granted from treasury funds while the balance amount is granted from generated funds. On granting the approval from generated funds the views of the Board of Management having considered the activities carried by the UCSC was that as a motivation factor it is necessary to retain these experts and professionals within the UCSC and to continue to provide the full loan amount.
- d) Administration and financial activities of foreign funded Research Project is carried out by the permanent staff members. They are paid a monthly allowance at very cost effective manner on approval of the Board of Management. If these activities were carried out by employees recruited from outside the cost would have been very much higher.

2.2.3 **Transaction not supported by Adequate Authority**

2<sup>nd</sup> and 3<sup>rd</sup> language proficiency allowance paid in accordance with the Establishment Circular No 06/2003 issued by the University Grant Commission.

4. **Under Utilization of Funds**

Action has already been taken to utilize balance unspent IT grant in 2012.

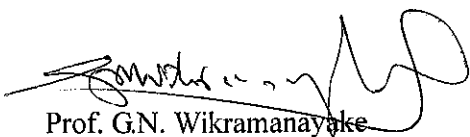
5. **Tabling Annual Reports**

Audited Financial Statement and Auditor General's report are main documents in the Annual report. Since these documents were not ready at that time a draft annual report could not be submitted with these documents. However, subsequently on 13.07.2012 we submitted the same to the Auditor General.

6. **System and Controls**

Special attention will be given to the sections mentioned.

Thank for your Audit queries.

  
Prof. G.N. Wikramanayake  
Director