Important dates

Closing date of applications: June 23, 2014 (first batch), Sept. 20, 2014
Selection Test: July 4th, 5th and Sept. 26th 2014
Registration for the Academic Year 2014/2015: October 18th, 2014
Commencement of Academic Activities: November 08, 2014

Important information

A list of qualifications presently recognised by the OUSL for granting exemptions is given in Appendix 1 of this prospectus. If you possess any other qualification, which you think would entitle you to obtain exemptions for any course(s), you should apply for its evaluation, using the prescribed form obtainable from the BSE office at Block 12, Colombo Regional Centre, or else you can use the form attached at the end of this prospectus. The form can also be downloaded from our website (http://www.ou.ac.lk/prog/bse).

University Holidays

Thai Pongal Day
Independence Day
Sinhala and Tamil New Year Day
May Day
Vesak Poya Day
Holy Prophet’s Birthday
Christmas Day
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About the University

The Open University of Sri Lanka

The Open University of Sri Lanka (OUSL) is the only recognised university in Sri Lanka where students may pursue further education by distance education techniques in keeping with the philosophy of Open and Distance Learning.

The OUSL has the same legal and academic status as other national universities in Sri Lanka. It was set up by the Government of Sri Lanka under the Universities Act No. 16 of 1978, for the purpose of providing higher educational opportunities to working adults.

The OUSL consists of four academic faculties:

- the Faculty of Engineering Technology
- the Faculty of Natural Sciences
- the Faculty of Humanities and Social Sciences and
- the Faculty of Education.

There are six Regional Centres in Anuradhapura, Batticaloa, Colombo, Jaffna, Kandy, and Matara, and 20 Study Centres spread throughout the country.

Faculty of Engineering Technology

The Faculty of Engineering Technology is a pioneer among all academic institutions in the world, in the delivery of distance education programmes in Engineering.

The Faculty of Engineering Technology offers its own programmes of study leading to Certificates, Advanced Certificates, Diplomas, Degrees, Postgraduate Diplomas and Degrees in different specialisations.

The Faculty consists of six academic departments: Agricultural and Plantation Engineering, Civil Engineering, Electrical and Computer Engineering, Mathematics and Philosophy of Engineering, Mechanical Engineering, and Textile and Apparel Technology.

The Faculty also has a multi-disciplinary Engineering Research Unit (ERU) dedicated to enhancing research in the Faculty.
Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers the Bachelor of Software Engineering (BSE) degree programme. It is the largest department in the Faculty in terms of student numbers. In addition to BSE, it conducts study programmes leading to the award of Advanced Certificate in Technology, Diploma in Technology, Bachelor of Technology and research degrees in three specialisations: Computer Engineering, Electrical Engineering, and Electronic and Communication Engineering. It has produced a large number of graduates to date. The main focus of the Department is to provide a flexible curriculum in fundamental and advanced topics in above specialisations for producing well qualified graduates ready to overcome national as well as international challenges.

The Department is served by well qualified dedicated academic and non academic staff. The academic staff consists of an Emeritus Professor in Electrical Engineering, nine Senior Lecturers, and eleven Lecturers. In addition, there are thirty non-academic and temporary staff members in the Department.

Every year the Department produces well qualified graduates. The standard of the final year student projects was highly praised by renowned professional bodies such as Institute of Engineers Sri Lanka (IESL). Undergraduate students have published research papers in international forums and journals and brought value and credit to the Department of Electrical & Computer Engineering as well as to the OUSL itself. Students have won several awards for their engineering projects in competitions organised by IESL, SLAAS and other universities. They have also won the first place in several international competitions.

The Department has well equipped laboratories for all specialisations: the electrical engineering laboratory, the computer engineering laboratory, the advanced electronics laboratory and the electronics workshop at the Colombo Regional Centre. Some of these laboratories are also located in Kandy, Matara and Batticaloa Regional Centres. A state-of-the-art software engineering laboratory is located at the Colombo Regional Centre.

Moreover, the Department, in collaboration with software companies, is providing a number of scholarships and placements in the industry itself to work while studying. The students for scholarships are selected by each company through an interview.
Bachelor of Software Engineering (BSE) Programme

Software Engineering has become one of the major computing disciplines today. In the early days, it was a discipline within Computer Science. Over the years it has evolved to what it is today and gained prominence as the foundation of all software systems. The Joint Task Force of IEEE Computer Society and Association for Computing Machinery (ACM), after several years of research, has developed guidelines for such degrees, and today these guidelines are used worldwide for developing Software Engineering degree programmes.

Software engineering is the discipline where you learn to design, develop and maintain software systems that are reliable and efficient while satisfying the requirements of the customers. Software engineers usually solve problems for customers in different domains outside software engineering – engineering, natural science, social science, business etc.

Taking all these into account, this programme has been carefully designed along the curriculum guidelines published by the IEEE Computer Society and ACM, and in consultation with professionals in the software industry and academia.

We are proud to announce that the Bachelor of Software Engineering programme of the OUSL is the first-ever industry-oriented software engineering programme offered by a local university, with UGC approval.

The primary focus of the programme is to produce well qualified graduates - software engineers - to work in the software industry. To this end, the programme contains a significant practical component and provides students the opportunity to work alongside software industry professionals.

Why do BSE?

According to recent industry surveys, there is a huge demand for IT specialists in Sri Lanka and in the rest of the world. When you consider today’s software industry, qualifications and experience in the discipline of software engineering have become major recruitment criteria. Hence having such an academic qualification will make your future in this industry much brighter. At OUSL, a reputed National University in Sri Lanka, you have an excellent opportunity to earn a well recognised degree that is well suited for the software industry. After successful completion of the BSE degree, you will work either in the software industry or in a
division of an institution where design, development and maintenance of software are undertaken.

**About the programme design**

In developing this programme we have followed the guidelines provided by the Joint Task Force formulated by two leading computer associations in the world – IEEE Computer Society and ACM. In addition, we have considered the demand and expectations of the IT sector in Sri Lanka. While developing the curriculum and the courses in the programme, we have had the participation and untiring efforts of professionals from reputed software companies and academics qualified in the software engineering field.

In this discipline, it is essential to have a reasonable depth of knowledge in an application domain other than software engineering. If not, students need to do specialised higher-level courses in the same discipline. Since the Department of Electrical Engineering offers courses mainly in engineering, a special effort has been made to meet this requirement in the curriculum. As a result, an additional post secondary qualification is compulsory as an entry requirement.

On the other hand, it has been recognised that while engaged in studies, working alongside software professionals is essential in order to become a good software engineering graduate. To achieve this objective, students have to work in the software industry. Accordingly, the Sri Lanka Association of Software and Service Companies (SLASSCOM) facilitates students to secure placements in the software industry. The OUSL has signed a Memorandum of Understanding (MOU) with SLASSCOM to this effect. The SLASSCOM acts as the catalyst of growth for the Sri Lankan IT and BPO industry by facilitating trade and business, propagation of education and employment, encouragement of research and innovation, and by supporting the creation of a progressive national policy framework.

**Duration**

One who possesses the minimum entry qualifications to the programme can complete the programme in 3 academic years. However, this is a 4-year specialised degree in software engineering according to the contents of the programme. As a post secondary qualification is required to enter to the programme, the exemptions gained for this qualification enables the degree to be completed in a minimum time period of 3 years.
**Who should apply?**

This programme is designed to produce qualified graduates for the software industry and for any other sector where the software design, development and maintenance of software systems are carried out. If you are willing to work as a software engineer in an institution where the development and maintenance of software are undertaken, the BSE is the degree programme you are looking for.

Anyone who possesses the following minimum entry qualifications can apply for the Bachelor of Software Engineering degree programme.

i. 3 GCE A/L passes in any stream except general English and general Information Technology subjects **AND**

ii. one year equivalent of post secondary qualifications

i.e.72 OUSL credit exemptions with a minimum of 36 credits at Level 3 or above, Details about the OUSL credits and Levels are given in the section *Courses*. Please refer the Appendix 1 for the number of credits granted for each evaluated qualification.

Some examples of obtaining 72 OUSL credits are given below:

- **3 GCE (Advanced Level) passes**
  - ⇒ 36 OUSL credits
  and
  academic/ professional qualification up to intermediate level (this qualification can be from any discipline - not necessarily from an IT field). (for example NDT, HNDIT Semester II, CMA Stage II and so on)
  - ⇒ 36 OUSL credits (at level 3 or above)
  - ⇒ Total = 36 + 36 = 72 OUSL credits. Basic entry qualifications fulfilled.

- **2 G.C.E. (Advanced Level) passes**
  - ⇒ 24 OUSL credits
  and
  AAT Stage I
  - ⇒ 12 OUSL credits
  and
  NCC (IDCS)
  - ⇒ 36 OUSL credits (at level 3 or above)
  - ⇒ Total = 24 + 12 + 36 = 72 OUSL credits. Basic entry qualifications fulfilled.
There are many similar combinations. If your qualifications are not listed in the Appendix 1, you can apply for evaluation of such qualifications (refer the following section, *How to apply*).

**How to apply**

Applications can be obtained from any of the Regional Centres of the OUSL (Appendix 5) or Study Centres of the OUSL. For instructions on filling the application form please refer the Appendix 4. Photocopies of your GCE (Advanced Level) and other qualifications should be sent along with your application form.

If your qualifications are not listed in the Appendix 1 or if you have partially completed a diploma/degree programme of more than one year, you can apply for an evaluation of your qualifications using the prescribed form (Application for Evaluation of Qualifications for Exemptions) attached at the end of this prospectus. These forms can be also obtained from the Programme Coordinator at the BSE office or downloaded from our website. The *evaluation form and the detailed documents* asked for should be sent separately to the Programme Coordinator as mentioned in the form *well before the application closing date*. After this evaluation the faculty will decide if your qualifications can be considered for entry into the programme.

After you submit the duly filled application form (you must give a correct email address and a telephone number to communicate), you will be notified by email/telephone the date and time for the interview and the selection test to be held in Colombo. Please refer the webpage on BSE for updates on the selection test dates.

**Selection criteria**

You must sit and pass the selection test and the interview in order to get the eligibility to enter the BSE programme. Only those candidates who have been shortlisted according to the educational/professional qualifications given in the application form will be called for the interview. Those who pass the selection test and interview, will be officially informed by mail and called for registration. The final list of selected candidates will also be published in our website [http://www.ou.ac.lk/prog/bse](http://www.ou.ac.lk/prog/bse).

**Registration for BSE**

When you are selected for the BSE programme you will be called for registration, prior to which you will receive a registration pack. In this pack you will find a voucher for the payment of
tuition fees along with other registration fees. Payment should be made at a People’s Bank branch and the receipt, along with your original certificates, should be brought to the counselling desk at the OUSL on the day of the registration. You will then be offered courses according to the qualifications you already have.

Academic year will start in early November but you will participate the 3 month compulsory orientation programme on ‘Start at OUSL’ from early August.

**Fees**

Students have to pay a tuition fee of Rs.225,000/= payable in six instalments (Rs. 75,000 x 3) for three years, two instalments per year. The first instalment of tuition fee is Rs. 40,000/= and the second instalment is Rs. 35,000/=. This total tuition fee is valid for five consecutive academic years counting from the first registered year. Thereafter, if a student has to register for any course, the tuition fee will be paid according to rates valid for that particular academic year.

Apart from the tuition fee it is necessary to pay the following fees in each academic year:

- Registration fee – Rs. 400,
- Facilities fee – Rs. 1500, and
- Library Facilities fee – Rs. 100. (A refundable deposit of Rs.500 will be charged when you borrow books from the library)

One time payment for the courses offered in ‘Start at OUSL’ programme to be completed before the academic year:

- Approx Rs.7500

In addition, government approved taxes may be levied on the total payment.

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**Please note that the tuition fee will not be refunded after you get registered to the programme.**
Awards/Scholarships

“Virtusa Academic Excellence Award for the Best Student in Bachelor of Software Engineering” is granted for the student with the highest grade point average (GPA) upon graduation. The award consists of a gold medal and a cash prize.

The Open University also grant three scholarships for the best three students of that particular academic year based on the performance of the previous year.
Courses

The Programme of study consists of a combination of courses and other requirements such as industrial placement. You are guided at registration to select a set of courses that is optimal for you. To register for a particular course, you need to fulfil given prerequisites for that course, either by gaining exceptions or by successful completion. Prerequisites for all courses offered in the programme are given in the Appendix 2.

Course Code

Each course has a course title and a unique course code.

The letters and numbers denoting the Departments, Categories, Levels, and Credit Rating make up the code of a course. For example, a course having the code ECX4267 provides the following information:

Accordingly this particular course is offered by the Department of Electrical and Computer Engineering. It is an Engineering (X) category course at level 4 with a credit value of six (6) (read the section Credit Rating to learn how to calculate the credit rating of a course). The serial number of the course is 67.

Departmental Codes

The first two letters of the course codes indicate the department offering the particular course. The letters allocated for some departments of the Faculty of Engineering are as follows:

<table>
<thead>
<tr>
<th>Department</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical and Computer</td>
<td>EC</td>
</tr>
<tr>
<td>Textile and Apparel</td>
<td>TT</td>
</tr>
<tr>
<td>Mathematics and Philosophy</td>
<td>MP</td>
</tr>
</tbody>
</table>
The code \textbf{VR} denotes a virtual course. These are not courses that you can enrol in, but, when you possess qualifications for which you cannot be granted an exemption from an existing course, you gain credits with appropriate category, and level.

\textbf{Category of Courses}

Courses and other requirements fall into distinct \textit{Course Categories} with specific alphabetical letters denoting them:

<table>
<thead>
<tr>
<th>Category</th>
<th>Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Courses</td>
<td>X</td>
</tr>
<tr>
<td>Engineering projects</td>
<td>Y</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Z</td>
</tr>
<tr>
<td>Industrial courses</td>
<td>I</td>
</tr>
<tr>
<td>Management</td>
<td>M</td>
</tr>
<tr>
<td>General courses</td>
<td>J</td>
</tr>
<tr>
<td>Industrial placement</td>
<td>W</td>
</tr>
<tr>
<td>Computer literacy</td>
<td>K</td>
</tr>
<tr>
<td>Language Courses</td>
<td>L</td>
</tr>
</tbody>
</table>

\textbf{Course Levels}

Each course is also assigned a \textit{Level}, between zero (0) and seven (7). The level indicates the relative complexity and advancement of the course content.

Level 3 indicates first level in the undergraduate programme while Level 6 denotes the highest.

\textbf{Credit Rating}

Each course is also assigned a credit rating, reflecting the academic value of the course and the amount of time a student is expected to devote to that course. The total effective time expected to be spent by an average student for a course in which the academic value is one credit is about 25 hours of study time. To compute the credit value of a course, multiply the digit given at the fifth position in the course code by three.

At the OUSL, the maximum number of credits a student can offer per academic year is limited to forty five (45). Thus, an average student opting to offer the maximum allowable credits (45) in an academic year is expected to spend about 1125 hours for studies during the academic year.

The completion of minimum 150 credits is needed to complete the BSE Degree. The details can be found on page 19.
Courses in BSE

List of courses available for the BSE is given below.

Courses Offered at Level 3

**Engineering (X) category courses**
- ECX3163 Introduction to computing

**Mathematics (Z) category courses**
- ECZ3161* Mathematics for computing

Courses Offered at Level 4

**Engineering (X) category courses**
- ECX4265 Data structures and algorithms
- ECX4267 Software engineering concepts

**Industrial (I) category courses**
- ECI4262 Object oriented design and programming
- ECI4164 Networking and web technology
- ECI4166 Data modelling and database systems

**Mathematics (Z) category courses**
- MPZ4160* Discrete mathematics I
- TTZ4161* Probability and statistics

**General (J) category courses**
- ECJ4160 Communication skills for engineers

Courses Offered at Level 5

**Engineering (X) category courses**
- ECX5263 Computer organization and operating systems

**Industrial (I) category courses**
- ECI5161 Human computer interaction
- ECI5267 Software quality assurance and testing
- ECI5266 Advanced database systems

**General (J) category courses**
- MPJ5263 Technology, society and environment

**Management (M) category courses**
- ECM5360 Management and professional issues

**Mathematics (Z) category courses**
- MPZ5160* Discrete mathematics II
Courses Offered at Level 6

Engineering (X) category courses
ECX6263 Software construction

Industrial (I) category courses
ECI6260 Software project management  ECI6265 Artificial intelligence techniques
ECI6261 Electronic commerce  ECI6267 Software architecture and design

Engineering projects (Y) category courses
ECY6489 Group Project (Software Engineering)

Other than the above courses, Industrial Training module has to be completed.

* These course codes may change in the near future

Prerequisites
To offer courses one has to satisfy the prerequisites for each course. These pre-requisites are given in Appendix 2.

Industrial placements
It is mandatory for you to complete a minimum period of one year’s industrial training at a software company. From this placement, students gain on-site experience by working alongside professionals and the opportunity to observe good practices as well as developing necessary skills to work as a software engineer.

The department is working closely with the Sri Lanka Association for Software and Service Companies (SLASSCOM) to give you an opportunity to do your training in the best software companies in the country. SLAASCOM has informed its member companies to offer training placements for OUSL students. The University facilitates the process by forwarding student CVs to a number of companies through SLAASCOM. The actual selection criteria are decided by the companies themselves. Generally this involves a technical test and/or an interview.

Alternatively, if you are already employed or have found a training placement on your own at a company, discuss with the Programme Facilitator/Chief Academic Coordinator. If the credentials of the company are acceptable to the University, you will be allowed to carry out training at the company.
Study system

The Open University of Sri Lanka conducts the study programmes in distance mode with a strong emphasis on the multimedia instructional materials, printed materials and audio-visual aids. The Faculty of Engineering Technology is a pioneer in the world in delivering engineering courses in the distance mode.

The central element of self-study is the printed course material and the Study Guides produced by the University, which provide a series of carefully designed activities and self assessment questions in order to develop critical and creative thinking abilities. In addition, necessary support for the students are provided by online classrooms, audio-visual material, day schools or tutor clinics (face-to-face sessions), laboratory work, field work and seminars. Pre scheduled day schools are conducted by the academics of the Faculty of Engineering Technology and professionals from the industry. These day schools provide the opportunity for the students to discuss the issues encountered in self-learning of a particular course. Facilities available for self-learning, such as library facilities, Audio-Visual Resource Centre, elementary computer labs, and more can be found in the section Student Services.

The online classrooms, in Moodle, play a vital role in the distance education programmes offered by the university. Each course offered in this study programme has an online classroom which provides access to every registered student over the web. Following are some of the benefits of an online classroom:

- access to the latest course information and learning resources
- prompt feedback from the course coordinators
- peer learning through active participation in group discussions happening in the classroom
- online submission of course work.

All of the courses offered in this programme are hosted in the National Online Distance Education Service (NODES). More details of NODES and their access centres (NACs) can be found in the section Student Services.

The OUSL facilitates life long learning. Therefore, the programmes offered by OUSL open up avenues for everyone, especially for employed persons. Therefore the University makes every effort to schedule activities during the weekends and public holidays as far as possible. However, certain activities such as laboratory sessions may have to be scheduled during
weekdays. Since the activity schedule is given to the students at the beginning of the academic year, we expect you to plan your work well in advance.

**Course Activities**

Each course has different activities. Tutor Marked Assignments (TMAs), laboratory work, Mini Projects, Case Studies, Presentation sessions, Online Quizzes (OQs) and Continuous Assessment Tests (CATs) are some. The activities would depend on the course requirements.

**Assessment**

Each course in a programme of study is assessed separately. Assessment consists of two components, namely Continuous Assessment and Final Examination. The purpose of the continuous assessment is to facilitate student learning, which involves activities such as Tutor Marked Assignments (TMAs), laboratory work, Mini Projects, Case Studies, Presentation sessions, Online Quizzes (OQs), and Continuous Assessment Tests (CATs).
Awarding the degree

In order to gain the degree students have to fulfil the minimum credit requirements in each category and obtain 150 credits altogether from level 3 and above. However students cannot claim credits over the maximum limit for each category and should obtain credits subject to the restrictions for levels and categories of the courses. This has been summarised in the following table.

<table>
<thead>
<tr>
<th>Category</th>
<th>Letter Denoting Category</th>
<th>Minimum credits</th>
<th>Maximum credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial/Academic</td>
<td>I</td>
<td>90</td>
<td>108</td>
</tr>
<tr>
<td></td>
<td></td>
<td>subject to a minimum of 36 credits being at levels 5 and 6, and a maximum of 36 credits at level 3</td>
<td>subject to a minimum of 36 credits being at levels 5 and 6, and a maximum of 36 credits at level 3</td>
</tr>
<tr>
<td>Engineering</td>
<td>X</td>
<td>9</td>
<td>27</td>
</tr>
<tr>
<td>Management</td>
<td>M</td>
<td>9</td>
<td>24</td>
</tr>
<tr>
<td>General</td>
<td>J</td>
<td>9</td>
<td>24</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Z</td>
<td>12</td>
<td>30</td>
</tr>
<tr>
<td>Project</td>
<td>Y</td>
<td>12</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>subject to a minimum of 12 credits being at level 6</td>
<td>subject to a minimum of 12 credits being at level 6</td>
</tr>
<tr>
<td>English</td>
<td>L</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Computer literacy</td>
<td>K</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>150</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>subject to a minimum of 72 credits being at levels 5 and 6, of which at least 36 credits at level 6</td>
<td></td>
</tr>
<tr>
<td>Training modules</td>
<td>W</td>
<td>Industrial training module of at least 30 week duration</td>
<td></td>
</tr>
</tbody>
</table>

A student can request exemptions from courses in recognition of previously obtained qualifications and experience. A list of exemptions that have been evaluated is given in Appendix 1.

However all credit exemptions granted may not be counted towards the degree as a student should acquire at least seventy five (75) credits from among the courses listed in the categories of Industrial/Academic (I), Engineering (X), and Projects (Y) in order to obtain the degree. These shall be from courses at levels five and six, of which at least thirty six (36) credits should be from level six.

In addition to the above requirement, students must complete the following compulsory courses as well.
ECX3163 Introduction to computing
ECZ3161* Mathematics for computing
ECX4265 Data structures and algorithms
ECX4267 Software engineering concepts
ECI4262 Object oriented design and programming
ECI4164 Networking and web technology
ECI4166 Data modelling and database systems
MPZ4160* Discrete mathematics I
TTZ4161* Probability and statistics
ECJ4160 Communication skills for engineers
ECX5263 Computer organization and operating systems
ECI5161 Human computer interaction
ECI5267 Software quality assurance and testing
ECM5360 Management and professional issues
MPZ5160* Discrete mathematics II
ECI6260 Software project management
ECI6267 Software architecture and design
ECX6263 Software construction
ECY6489 Group Project (Software Engineering)

* These course codes may change in the near future

Degrees are awarded either with First Class, Second Class (Upper), Second Class (Lower) or Pass. The applicable class will be decided according to the Grade Point Average (GPA) which is computed using the grades obtained for the courses and their credit ratings as shown in the Appendix 3.

The best student with the highest GPA and above 3.3 is awarded Virtusa Academic Excellence Award which is sponsored by Virtusa (Pvt) Ltd. The award consists of a gold medal as well as a cash award.
Future career

When you graduate from the BSE degree programme, you are armed with a degree as well as more than one year’s experience in the industry, so you can embark on your career with confidence. Your career path, starting from Software Engineer, can go up to Tech Lead, and then to Project Manager or Software Architect depending on whether you choose to embark in a management or technical career. You can also start as a Testing or Quality Assurance (QA) Engineer and go up to QA Lead and then onto QA Manager or Quality Analyst.

Student services

Student Affairs Division

The Student Affairs Division maintains personal and academic records of all OUSL students. Any change of address, medium of study, study centre, civil status, change of courses, etc., should be immediately informed in writing to:

   Senior Assistant Registrar,
   Student Affairs Division,
   The Open University of Sri Lanka,
   P. O. Box 21,
   Nawala, Nugegoda - 10250

When writing the letter, your name, registration number and the programme of study must be indicated. The telephone number of the Student Affairs Division is 011-2823920.

Any changes to this information must also be immediately informed to the Programme Coordinator as well.

You are required to provide your contact numbers and email address to our Programme Coordinator at the BSE office.

Counselling

General counselling by the staff of the BSE programme on academic matters is available to all prospective applicants and students. You can contact the BSE office for this purpose or contact directly the relevant academic staff member if you know the extension number. Further, Programme Coordinator/ BSE programme may be contacted for all non-academic matters. (Tel.: 011 2881081; Email: bse@ou.ac.lk)
**Library Facilities**

Students have access to the main library of the University at Nawala, Colombo and the four regional libraries at Anuradhapura, Batticaloa, Kandy and Matara Regional Centres. The main library is well stocked, but lending facility to students is limited to two books at a time, and requires a deposit. It is open throughout the year except on the seven "University Holidays" and a few days during the Sinhala and Tamil New Year and Christmas. The main library has an Audio-Visual Resource Centre (AVRC) with a substantial collection of video and audio material in many subject areas for the use of students. Access to internet, WiFi coverage and photocopying facilities are also available. The study centres also have a small collection of books, and audio-visual material, mainly for reference.

**Elementary Computer Labs**

Computer facilities are available at a number of Regional and Study centres free of charge. These are at Ambalangoda, Anuradhapura, Bandarawela, Batticaloa, Colombo, Galle, Kandy, Kegalle, Kurunegala, Matara Polonnaruwa and Ratnapura. Limited Internet facilities are also available at Colombo, Kandy and Matara Regional Centres and certain study centres.

**Software Engineering Laboratory**

A newly set up computer lab, specially designed for software engineering is located at the main campus at Nawala. The practical component of the courses is done here. In addition, students are given the opportunity to use the software engineering laboratory whenever it is free.

**National Online Distance Education Service (NODES)**

The National Online Distance Education Service (NODES) was set up by the Distance Education Modernization Project (DEMP) in 2007. The NODES comprises a Network Operation Centre established with a 45 mbps IP/VPN backbone and a 2-10 mbps high speed network which connects 26 NODES Access Centres (NACs) located in most districts of the country.

To facilitate participation of students in post-secondary online education, 26 NACs are currently available. They are located at the existing OUSL regional centres, in universities and at Sri Lanka Institute of Advanced Technical Education (SLIATE). The NACs are equipped with all modern state-of-the art equipment necessary for online education, such as an average 25 computers, printers, scanners, video conferencing facilities, wireless access, faxes and
photocopying machines. All OUSL students are entitled to use NAC facilities free of charge, though a monthly time quota is enforced.

**Canteens**

Canteens are available at Colombo, Kandy and Matara Regional Centres. These provide services on both weekdays and weekends.

**Temporary Residential Facilities**

The University provides temporary residential facilities at Colombo, Kandy and Matara Regional Centres for a limited number of students attending approved academic activities.

**Student Union**

The Faculty Student Union is elected by and from amongst the students of the Faculty. The University Student Union is constituted by the four Faculty Student Unions.

**World University Service (WUS) Shop**

Students can purchase stationery and consumable items at reasonable prices from the WUS shops which are located in the Colombo and Kandy Regional Centres.
Staff of the faculty

Faculty office

Dean of the Faculty: Prof. S.A Ariadurai
Assistant Registrar: Mr. D.S.D Kasun

Heads of the Departments relevant to the BSE programme

Department of Electrical and Computer Engineering: Dr. A.P. Madurapperuma
Department of Mathematics and Philosophy of Engineering: Dr. S. Krishnakumar
Department of Textile and Apparel Technology Dr. M.E.R Perera

BSE office

Programme Facilitator Dr. (Ms.) KGHUW Rathnayake
Chief Academic Coordinator Dr. (Ms.) DDM Ranasinghe
Programme Coordinator Ms. Jasmine Nanayakkara

Staff of the BSE programme

OUSL staff

Department of Electrical and Computer Engineering

Dr. Ajith P. Madurapperuma
M.Sc. Computer Engineering (Havana, Cuba), M.Sc. in Computer Science (Cardiff, UK), PhD (Cardiff, UK)
Senior Lecturer – Gr. I

Dr. LSK Udugama
MSc (Donetsk Polytechnical Institute ),
PhD (Donetsk State Technical University), MIEEE
Senior Lecturer – Gr. I

Eng. (Ms.) H Pasqual
BSc Eng (Hons) (Moratuwa), MEng(Saitama)
Senior Lecturer – Gr. II

Dipl. Ing. KARD Gunaratne
Dipl. Ing. (Ilmenau)
Lecturer

Eng. (Ms) SADAN Dissanayake
B Tech (Eng)(Hon)(OUSL), AMIE(SL)
Lecturer (Probationary)

Dr. (Ms.) KGHUW Rathnayake
BSc (Hons) (Moratuwa), PhD (Murdoch)
Senior Lecturer – Gr. I

Dr. (Ms.) DDM Ranasinghe
BSc (Colombo), PhD (OUSL)
Senior Lecturer – Gr. II

Mr. NR Premathilaka
BSc (Eng) (Peradeniya), Msc (Colombo)
Lecturer

Eng. CJ Basnayakege
B.Tech (Eng)(Hons)(OUSL), AMIE(SL), MIEEE
Lecturer (Probationary)

Eng. (Ms) GSN Meedin
B.Tech (Eng) (Hons) (OUSL)
Lecturer (Temporary)
Other departments

Dr. SAMANS Senanayake
BSc Eng (Hons) (Moratuwa),
MSc (Cranfield), PhD (Cranfield)
Senior Lecturer – Gr. I
Department of Mechanical Engineering

Eng. (Mrs) PR Dadigamuwa
BScEng(Hons)(Moratuwa), MPhei(OUSL),MIE(SL), CEng
Senior Lecturer – Gr . I
Department of Mechanical Engineering

Mr. BD Witharana
BSc Eng (Hons) (Moratuwa),
M.Phil (OUSL)
Senior Lecturer – Gr. II
Department of Mathematics and Philosophy of Engineering

Mr. LSA Perera
BSc (Colombo), MA (IGNOU),
MSC. (Moratuwa)
Lecturer
Department of Textile and Apparel Technology

Mr. CPS Pathirana
BSc (Special) (Hons) (Ruhuna),
MSc (SJP)
Lecturer (Probationary)
Department of Mathematics and Philosophy of Engineering

Ms. MI Sudasinghe
BSc Agric. Eng (Hons) (Ruhuna), M.Phil (Peradeniya)
Lecturer (Temporary)
Department of Mathematics and Philosophy of Engineering

Visiting staff

Ms. Geetha Bibile
BA (Hons) in English & ELT

Mr. Nihal Perera
BTech(Eng) (OUSL), PGDBA(IT)

Mr. Prasanna S. Haddela
BSc. (Colombo), MSc (Colombo), MACM
Lecturer
SLIIT

Mr. Dhanushka Rupasinghe
Btech (Eng) (Hons) (OUSL)
Software QA Lead
Virtusa PLC

Mr. Kasun Dilunika
BSc (Peradeniya), SCJP, SCWCD
Software Architect
Aepona (Pvt) Ltd

Eng. SLA Nonis
BSc Eng. (Mechanical), MIE(SL), M.I.Prod.E.(UK)
Senior Consultant
OUSL

Mr. Ruchiranga Wijeratne
BSc(IT)( Portsmouth UniversityUK ), SCJP
Senior Software Engineer,
Wapice Software Experts Ltd.

Mr. AWS Wimal SK Perera
BSc (Colombo), MSc in Applied Statistics (Colombo)
Statistical Officer
Department of Census and Statistic
### Appendix 1

#### Exemptions given for the different educational/professional qualifications

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Courses exempted (credits)</th>
<th>Virtual courses (credits)</th>
<th>Level 3 credit requirement</th>
<th>Total credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCE (A/L) Sri Lanka or GCE (A/L) London</td>
<td>Pass in any subject in G.C.E.(A/L) Sri Lanka/ London except Combine mathematics or Pure mathematics or Mathematics or General English or General IT</td>
<td>VRZ2400</td>
<td>12 for each subject</td>
<td>12</td>
</tr>
<tr>
<td>GCE (A/L) Sri Lanka or GCE (A/L) London</td>
<td>Pass in Combine mathematics or Pure mathematics or Applied Mathematics or Mathematics in G.C.E.(A/L) Sri Lanka/ London</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OUSL Foundation</td>
<td>Completion of OUSL foundation of any faculty except Natural Science and Engineering Technology</td>
<td>VRI2400, VRI2401, VRI2402 (36)</td>
<td>36</td>
<td></td>
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<tr>
<td>OUSL Foundation</td>
<td>Completion of OUSL foundation of the faculty of Natural Science or Engineering Technology</td>
<td>VRZ2400, VRI2401, VRI2402 (36)</td>
<td>36</td>
<td></td>
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<tr>
<td>OUSL - Advance Certificate in Technology (OUSL) Civil, Textile, Agriculture</td>
<td>ECZ3161 (3)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>39</td>
</tr>
<tr>
<td>OUSL - Advance Certificate in Technology (OUSL) Civil, Textile, Agriculture</td>
<td>Diploma in Technology (OUSL) Civil, Textile, Agriculture</td>
<td>ECZ3161 (3)</td>
<td>VRI3600, VRI3601, VRI4600 (36)</td>
<td>Satisfied</td>
</tr>
<tr>
<td>OUSL - Advance Certificate in Technology (OUSL) Electrical, Electronics, Mechanical, Mechatronics, Manufacturing, Automobile</td>
<td>Diploma in Technology (OUSL) Electrical, Electronics, Mechanical, Mechatronics, Manufacturing, Automobile</td>
<td>ECZ3161, ECX3163 (6)</td>
<td>VRI3600, VRI3601, VRI4600 (36)</td>
<td>Satisfied</td>
</tr>
<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>MPZ3230</td>
<td>ECZ3161 (3)</td>
<td></td>
<td>3</td>
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<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>MPZ4230</td>
<td>TTZ4161 (3)</td>
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<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>ECX3233</td>
<td>ECZ3161 (3)</td>
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<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>ECX4235</td>
<td>ECX4265 (6)</td>
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</tr>
<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>ECX4237</td>
<td>ECX4267 (6)</td>
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<tr>
<td>OUSL Faculty of Engineering Technology Individual courses</td>
<td>ECX5236 and ECX5235</td>
<td>ECX5263 (6)</td>
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<tr>
<td>SLIIT (SL Institute of Information Technology) Certificate in IT</td>
<td>SLIIT (SL Institute of Information Technology) Certificate in IT</td>
<td>ECX3163, ECZ3161 (6)</td>
<td>VRI3400 (12)</td>
<td>18</td>
</tr>
<tr>
<td>SLIIT (SL Institute of Information Technology) Associate Diploma in IT</td>
<td>SLIIT (SL Institute of Information Technology) Associate Diploma in IT</td>
<td>ECX3163, ECZ3161, ECX4164, ECX4166 (12)</td>
<td>VRK3200, VRI3600 (24)</td>
<td>Satisfied</td>
</tr>
<tr>
<td>Qualification</td>
<td>Courses exempted (credits)</td>
<td>Virtual courses (credits)</td>
<td>Level 3 credit requirement</td>
<td>Total credits</td>
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<tr>
<td>---------------</td>
<td>---------------------------</td>
<td>---------------------------</td>
<td>---------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>SLIIT (SL Institute of Information Technology) Diploma in IT</td>
<td>ECX3163, ECX4265, ECX4267, ECZ3161, ECI4164, ECI4166 (24)</td>
<td>VRI3600, VRI4600 (36)</td>
<td>Satisfied</td>
<td>60</td>
</tr>
<tr>
<td>BIT – Bachelor in Information Technology (University of Colombo) 1st Semester</td>
<td>ECX3163 (3)</td>
<td>VRI3101, VRI3600, VRK3200 (27)</td>
<td>Satisfied</td>
<td>3</td>
</tr>
<tr>
<td>BIT – Bachelor in Information Technology (University of Colombo) 1st year – Diploma in IT</td>
<td>ECX3163, MPZ4160, ECI4166 (9)</td>
<td>VRI3101, VRI3600, VRK3200 (27)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>BIT – Bachelor in Information Technology (University of Colombo) 3rd Semester</td>
<td>ECX3163, MPZ4160, ECI4166, ECI4262, ECX4267 (21)</td>
<td>VRI3101, VRI3600, VRK3200 (27)</td>
<td>Satisfied</td>
<td>48</td>
</tr>
<tr>
<td>BIT – Bachelor in Information Technology (University of Colombo) 2nd year – Higher Diploma in IT</td>
<td>ECX3163, MPZ4160, ECI4166, ECI4262, ECX4267, ECX4265 (21)</td>
<td>VRI3101, VRI3600, VRK3200, VRI4600 (45)</td>
<td>Satisfied</td>
<td>66</td>
</tr>
<tr>
<td>BIT Individual subjects</td>
<td>ECZ3161 (3)</td>
<td>VRI2400, VRI2401, VRI2402, VRI3600, VRI4600 (72)</td>
<td>Satisfied</td>
<td>72</td>
</tr>
<tr>
<td>HNDIT (Higher National Diploma in IT) Semester I</td>
<td>ECX3163 (3)</td>
<td>VRI3500 (15)</td>
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<tr>
<td>HNDIT (Higher National Diploma in IT) Semester II</td>
<td>ECX4265, ECX4267 (12)</td>
<td>VRI3200 (6)</td>
<td>Satisfied</td>
<td>18</td>
</tr>
<tr>
<td>HNDIT (Higher National Diploma in IT) Semester III</td>
<td>ECI4166 (3)</td>
<td>VRI4500 (15)</td>
<td>Satisfied</td>
<td>18</td>
</tr>
<tr>
<td>HNDIT (Higher National Diploma in IT), IT2004 Introduction to Communication and Computer Networks and IT4103 Web Programming</td>
<td>ECI4164 (3)</td>
<td>VRI4500 (15)</td>
<td>Satisfied</td>
<td>18</td>
</tr>
<tr>
<td>Higher National Diploma in Information Technology (HND IT), SLIATE, mathematics for Computing &amp; GCE A/L combine mathematics – (New syllabus from 2010)</td>
<td>ECZ3161</td>
<td>VRI3600, VRI4600 (36)</td>
<td>Satisfied</td>
<td>3</td>
</tr>
<tr>
<td>HNDIT (Higher National Diploma in IT) Semester III with IT 3103 Object Oriented Analysis and Design</td>
<td>ECI4262*</td>
<td>VRI3600, VRI4600 (36)</td>
<td>Satisfied</td>
<td>6</td>
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<tr>
<td>HNDIT (Higher National Diploma in IT), IT4301 Software Testing and IT4303 Software Quality Management</td>
<td>ECI5267</td>
<td>VRI3600, VRI4600 (36)</td>
<td>Satisfied</td>
<td>6</td>
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</table>

*ECI4262 is not included in the credit total.
<table>
<thead>
<tr>
<th>Qualification</th>
<th>Courses exempted (credits)</th>
<th>Virtual courses (credits)</th>
<th>Level 3 credit requirement</th>
<th>Total credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIBM (National Institute of Business Management) Diploma in Computer System Design (DCSD) (from 2010)</td>
<td>ECX3163, ECI4262, ECX4265, ECX4267 (21)</td>
<td>VRI3600 (18)</td>
<td>Satisfied</td>
<td>39</td>
</tr>
<tr>
<td>NIBM (National Institute of Business Management) Higher Diploma in Computer Based Information Systems (HDCBIS) (from 2010)</td>
<td>EC14164, EC14166, EC15266, EC15267 (18)</td>
<td>VRI4600 (18)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>NIBM (National Institute of Business Management) DCSD and HDCBIS</td>
<td>ECX3163, ECI4262, ECX4265, ECX4267, EC14164, EC14166, EC15266, EC15267 (39)</td>
<td>VRI2400, VRI3600, VRI4600 (48)</td>
<td>Satisfied</td>
<td>87</td>
</tr>
<tr>
<td>NCC (National Computing Centre) – Advance Diploma (IADCS)</td>
<td>EC14164, ECI4166 (6)</td>
<td>VRI3600, VRI4400 (30)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>NCC (National Computing Centre) – Diploma (IDCS)</td>
<td>ECX3163, ECX4267 (9)</td>
<td>VRI3600, VRI3300 (27)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>NCC (National Computing Centre) IDCS and IADCS</td>
<td>EC14164, ECI4166, ECX3163, ECX4267 (15)</td>
<td>VRI2400, VRI3300, VRI3600, VRI3601, VRI4400, (69)</td>
<td>Satisfied</td>
<td>84</td>
</tr>
<tr>
<td>ACS (Australian Computer Society) Diploma in IT (New syllabus – from 2006)</td>
<td>ECX3163, ECI4262, ECX4267, EC14166 (18)</td>
<td>VRI3600 (18)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>ACS (Australian Computer Society) Diploma in IT (Old syllabus)</td>
<td>ECX3163 (3)</td>
<td>VRI3600, VRI3501 (33)</td>
<td>Satisfied</td>
<td>36</td>
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<tr>
<td>BCS (British Computer Society) Certificate</td>
<td>ECX3163, ECX4265, ECX4267 (15)</td>
<td>VRI3200, VRI31600 (24)</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>BCS (British Computer Society) Diploma (For the core module only). For optional courses additional credits will be granted.</td>
<td>ECX3163, ECX4267, ECX4265 (15)</td>
<td>VRM4200, VRI3600 (24)</td>
<td>Satisfied</td>
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</tr>
<tr>
<td>IESL (The Institution of Engineers, Sri Lanka) Part II</td>
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<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
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</tr>
<tr>
<td>CMA (Certified Management Accountants) – Stage I</td>
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<td>VRI3600 (18)</td>
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<tr>
<td>CMA (Certified Management Accountants) – Stage II</td>
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<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>36</td>
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<tr>
<td>CIMA (Chartered Institute of Management Accountants) - Stage I</td>
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<td>VRI3600 (18)</td>
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<tr>
<td>CIMA (Chartered Institute of Management Accountants) - Advanced Diploma-Stage II</td>
<td></td>
<td>VRI3600, VRI3601, VRX3199 (39)</td>
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<td>39</td>
</tr>
<tr>
<td>IBSL (Institute of Bankers of Sri Lanka) Certificate in Banking and Finance</td>
<td></td>
<td>VRI3600 (18)</td>
<td>18</td>
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<tr>
<td>IBSL (Institute of Bankers of Sri Lanka) Advance Certificate</td>
<td></td>
<td>VRI3600, VRI3601, VRX3199 (39)</td>
<td>Satisfied</td>
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</tr>
<tr>
<td>AAT- Association of Accounting Technicians (Sri Lanka) - Stage I</td>
<td></td>
<td>VRI2400 (12)</td>
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<td></td>
</tr>
<tr>
<td>Qualification</td>
<td>Courses exempted (credits)</td>
<td>Virtual courses (credits)</td>
<td>Level 3 credit requirement</td>
<td>Total credits</td>
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<td>------------------------------------------------------------------------------</td>
<td>---------------------------</td>
<td>---------------------------</td>
<td>-----------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>AAT- Association of Accounting Technicians (Sri Lanka) - Stage II, AAT- Association of Accounting Technicians (Sri Lanka) intermediate</td>
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<td>VRI3600 (18)</td>
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</tr>
<tr>
<td>AAT- Association of Accounting Technicians (Sri Lanka) - Stage III</td>
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<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>36</td>
</tr>
<tr>
<td>NDES (National Diploma in Engineering Sciences) (Old curriculum)</td>
<td>ECZ3161, ECX3163 (6)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>42</td>
</tr>
<tr>
<td>NDES (New curriculum) in any field</td>
<td>ECZ3161 (3)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>45</td>
</tr>
<tr>
<td>NDES (Electronics, power or Telecommunication) (New curriculum)</td>
<td>ECZ3161, ECX3163 (6)</td>
<td>VRI3600, VRI3601, VRI4200 (42)</td>
<td>Satisfied</td>
<td>48</td>
</tr>
<tr>
<td>NDES (Power, civil, mechanical) (Old curriculum)</td>
<td>ECZ3161 (3)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>39</td>
</tr>
<tr>
<td>Completion of 1st and 2nd phases of NDES (New curriculum 2003) Power, Electronics or Telecommunication</td>
<td>ECZ3161 (3)</td>
<td>VRI3600 (18)</td>
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<td>21</td>
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<tr>
<td>NDET (National Diploma in Engineering Technology) (Electrical/Electronic)</td>
<td>ECX3163 (3)</td>
<td>VRI3600 (18)</td>
<td></td>
<td>21</td>
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<tr>
<td>NDT (National Diploma in Technology) Electronic &amp; telecom</td>
<td>ECZ3161, ECX3163 (6)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>42</td>
</tr>
<tr>
<td>Completion of first and second year of NDT in any field</td>
<td>ECZ3161 (3)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>39</td>
</tr>
<tr>
<td>HNDE (Higher National Diploma in Engineering) (Electrical Power/Electronics)</td>
<td>ECZ3161, ECX3163 (6)</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>42</td>
</tr>
<tr>
<td>National Diploma in Information and Communication Technology</td>
<td>ECX3163</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>39</td>
</tr>
<tr>
<td>Diploma in System Design and Programming, Vocational Training Authority</td>
<td>ECX3163</td>
<td>VRI3600, VRI3601 (36)</td>
<td>Satisfied</td>
<td>39</td>
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</table>
## Appendix 2
### Prerequisites of the courses

CR - Concurrent Registration  
EL - Eligibility  
P - Pass

### Courses Offered at Level 3

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code and Title</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>ECX3163 Introduction to computing</td>
<td>None</td>
</tr>
<tr>
<td>Z</td>
<td>ECZ3161* Mathematics for computing</td>
<td>None</td>
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</tbody>
</table>

### Courses Offered at Level 4

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code and Title</th>
<th>Pre-requisites</th>
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<tbody>
<tr>
<td>X</td>
<td>ECX4267 Software engineering concepts</td>
<td>ECX3163(EL) or (ECX3163(CR) and VRX3199), ECX4265(CR), ECI4262 (CR)</td>
</tr>
<tr>
<td></td>
<td>ECX4265 Data structures and algorithms</td>
<td>ECX3163(EL) or (ECX3163(CR) and VRX3199), MPZ4160 (CR)</td>
</tr>
<tr>
<td>I</td>
<td>ECI4262 Object oriented design and programming</td>
<td>ECX3163(EL) or (ECX3163(CR) and VRX3199), MPZ4265(CR)</td>
</tr>
<tr>
<td></td>
<td>ECI4164 Networking and web technology</td>
<td>ECI4163(EL) or (ECX3163(CR) and VRX3199)</td>
</tr>
<tr>
<td></td>
<td>ECI4166 Data modelling and database systems</td>
<td>ECI4163(EL) or (ECX3163(CR) and VRX3199)</td>
</tr>
<tr>
<td>Z</td>
<td>MPZ4160* Discrete mathematics I</td>
<td>ECZ3161(CR) or VRZ1300</td>
</tr>
<tr>
<td>J</td>
<td>ECI4160 Communication skills for engineers</td>
<td>None</td>
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### Courses Offered at Level 5

<table>
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<tr>
<th>Category</th>
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</thead>
<tbody>
<tr>
<td>I</td>
<td>ECI5161 Human computer interaction</td>
<td>ECI4267 (EL)</td>
</tr>
<tr>
<td></td>
<td>ECI5267 Software quality assurance and testing</td>
<td>ECI4267(EL)</td>
</tr>
<tr>
<td></td>
<td>ECI5266 Advanced database systems</td>
<td>ECI4166(P)</td>
</tr>
<tr>
<td>X</td>
<td>ECX5263 Computer organization and operating systems</td>
<td>ECI3163(P), ECX3161(EL), MPZ4160(EL)</td>
</tr>
<tr>
<td>J</td>
<td>MPJ5263 Technology, society and environment</td>
<td>None</td>
</tr>
<tr>
<td>M</td>
<td>ECM5360 Management and professional issues</td>
<td>None</td>
</tr>
<tr>
<td>Z</td>
<td>MPZ5160* Discrete mathematics II</td>
<td>MPZ4160(CR), ECZ3161(P) or VRZ1300</td>
</tr>
<tr>
<td>W</td>
<td>ECW5011 Industrial Training (Software Engineering)</td>
<td>None</td>
</tr>
</tbody>
</table>

* A pre-requisite for all courses at level 5 is ECI4160(CR)

### Courses Offered at Level 6

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code and Title</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>ECI6260 Software project management</td>
<td>ECI5267(EL)</td>
</tr>
<tr>
<td></td>
<td>ECI6261 Electronic Commerce</td>
<td>Pass in 18 credits at level 4 and above including ECI4164</td>
</tr>
<tr>
<td></td>
<td>ECI6267 Software architecture and design</td>
<td>ECI6263(CR), ECI4267(P)</td>
</tr>
<tr>
<td></td>
<td>ECI6265 Artificial intelligence techniques</td>
<td>ECI4265(P), MPZ4160(P)</td>
</tr>
<tr>
<td>X</td>
<td>ECX6263 Software construction</td>
<td>ECI3163(P), ECI4265(EL), ECI4267(EL), MPZ4160(EL), MPZ5160(CR)</td>
</tr>
<tr>
<td>Y</td>
<td>ECI6489 Group Project</td>
<td>36 credits from I or/and X category at Level 4 and above, ECI6260(CR), ECI6267(CR)</td>
</tr>
</tbody>
</table>

* A pre-requisite for all courses at level 6 is ECI4160(EL)  
* These course codes may change in the near future
Appendix 3

Scheme of Assessment

Extracts from relevant Rules and Regulations applicable to Bachelor of Software Engineering

2 Scheme of Assessment

2.1 The assessment of a student in any course shall consist of two components, viz. Continuous Assessment and Final Examination.

2.2 The content, nature and weightage of each of these components shall be in accordance with the Rules relating to the scheme and method of assessment as determined by the Faculty of Engineering Technology.

2.3 A student shall be eligible to appear at the Final Examination in respect of any course of the programme, only if he/she has been awarded a minimum of 40% for the Continuous Assessment component in respect of that course. The eligibility thus obtained to sit for the Final Examination in respect of any course shall be valid for a period stipulated by the Senate.

2.4 A student who fails to obtain 40% for Continuous Assessment or fails to obtain a grade C or higher at the Final Examination before the lapse of the eligibility in respect of any course, shall be deemed to have failed that course and shall be awarded the grade FA. Such a student may repeat that course by re-registering subject to section 2.7.

2.5 The overall assessment mark (Z%) of a student in respect of any course shall be based on both the Continuous Assessment mark (X%) and the mark obtained at the Final Examination (Y%) and shall be computed and grades awarded as follows.

For courses offered by the Faculty of Engineering Technology

\[ Z = \begin{cases} 
0.5X + 0.5Y, & \text{for } Y \geq 40 \\
Y, & \text{for } Y < 40 
\end{cases} \]

- \( 85 \leq Z < 90 \): A+
- \( 63 \leq Z < 70 \): B+
- \( 45 \leq Z < 50 \): C+
- \( 30 \leq Z < 35 \): D+
- \( 75 \leq Z < 85 \): A
- \( 55 \leq Z < 63 \): B
- \( 40 \leq Z < 45 \): C
- \( 20 \leq Z < 30 \): D
- \( 70 \leq Z < 75 \): A-
- \( 50 \leq Z < 55 \): B-
- \( 35 \leq Z < 40 \): C-
- \( Z < 20 \): E


For courses offered by other faculties of the Open University of Sri Lanka the grades awarded shall be in accordance with the rules pertaining to the scheme of assessment of such courses.

2.6 A student who is awarded a C-, D+, D or E grade for a particular course cannot count that course towards his/her credit requirements unless he/she re-sits the Final Examination on a subsequent occasion and obtains a C grade.

2.7 A student who either repeats a course or who re-sits a Final Examination or is exempted from a course shall be deemed to have obtained a mark which is not higher than 40% and a grade not higher than C.

2.8 A student who withdraws from a course by a written communication addressed to the Registrar within a period of three months from the commencement of the course may be allowed to re-
register for that course in a subsequent academic year without being considered a repeat student. The date of commencement of the course shall be as determined by the Senate for the purpose of this Rule.

2.9 A student, who is eligible to sit for the Final Examination in a course (under section 2.3) but has not done so, may postpone sitting such examination, for a period stipulated by the Senate. Such a student shall be awarded the grade RX in respect of that course in which he/she is so absent.

3. **Award of the Degree**

3.1 A candidate who satisfies the requirements for the award of the Degree of Bachelor of Software Engineering shall be awarded such Degree as specified in Section 3 of the Regulations either with:
- First Class Honours, or
- Second Class Honours (Upper Division), or
- Second Class Honours (Lower Division), or
- Pass, in accordance with the guidelines given in Section 3.4.

3.4 A candidate who has satisfied the conditions for the award of the Degree of Software Engineering in accordance with Regulation 3.1 shall be allotted Grade Points Values (GPV) in respect of the courses at levels 5 and 6 with higher grades, equivalent to a total of 72 credits that shall include all compulsory courses at levels 5 and 6, if applicable. In situations where 72 credits cannot be obtained exactly, the courses shall be selected to the nearest value below 72, and the remainder credit shall be taken as a part credit of the course with the highest grade from the rest of the courses.

\[
GPV = \frac{\sum (GPV) \times (Credit \ Rating \ of \ the \ course)}{\sum (Credit \ Rating \ of \ the \ course)}
\]

2.0 points per credit at grade C
2.3 points per credit at grade C+
2.7 points per credit at grade B-
3.0 points per credit at grade B
3.3 points per credit at grade B+
3.7 points per credit at grade A-
4.0 points per credit at grade A
4.0 points per credit at grade A+

The Grade Point Average (GPA) shall be computed as follows.

3.5 A candidate shall be awarded the Degree of Bachelor of Software Engineering according to the GPA obtained as follows:

- \(3.00 > \text{GPA} \geq 2.00\): Pass
- \(3.30 > \text{GPA} \geq 3.00\): Second Class Honours (Lower Division)
- \(3.70 > \text{GPA} \geq 3.30\): Second Class Honours (Upper Division)
- \(\text{GPA} \geq 3.70\): First Class Honours
Appendix 4

Explanatory Notes for Filling the Application Form

Before you start filling the ‘Application Form’ please read the following explanatory notes. It will help you to understand the questions and eventually help you to fill in the form.

When filling out this form please use BLOCK CAPITAL letters. If a question does not apply to you write ‘NA’. Write one number or letter in each box. Write ‘X’ in appropriate boxes.

Please hand over or send the completed application form to the Regional centre from where it was purchased on or before 23rd June 2014 (or 15th September 2014 for late submissions).

A. PROGRAMME CHOICE

A1. Programme Code

Programme Code consists of four boxes. Boxes 1 & 2 are for writing the Programme. The Programme codes for the Bachelor of Software Engineering degree is BS 00. You should fill the boxes as given below.

B S 0 0

A2. Academic Year

Write the following numbers in the relevant boxes

2 0 1 4 / 1 5

A3. Programme Name

For Bachelor of Software Engineering Programme, you must write them in the boxes as shown below.


A4. Currently Registered Student at OUSL

Write ‘X’ in the appropriate box. If you are current student then, Yes X No

A5. Current OUSL Student No.

If you are a current student write your Registration Number here.

A6. Previous OUSL Student No. (Where applicable)

If you have followed an OUSL programme previously, state your previous OUSL student Registration Number here.

You need not fill A5 & A6, if you are not following any other programme at OUSL or if you were not a student at OUSL on a previous occasion.

A7. Preferred OUSL Centre Code

Write the centre codes of two Regional centres in the order of preference in the appropriate boxes. Include the centres which are closer to your home/workplace, even if currently no activities are held there. Please note that the Laboratory Classes and Day Schools are conducted only at the Colombo Regional Centre.

1. 2. 

<table>
<thead>
<tr>
<th>Centre</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anuradhapura</td>
<td>K110</td>
</tr>
<tr>
<td>Jaffna</td>
<td>J060</td>
</tr>
<tr>
<td>Batticaloa</td>
<td>K070</td>
</tr>
<tr>
<td>Kandy</td>
<td>K030</td>
</tr>
<tr>
<td>Colombo</td>
<td>C010</td>
</tr>
<tr>
<td>Matara</td>
<td>M080</td>
</tr>
</tbody>
</table>
A8. **Medium of Study (one only)**

The Bachelor of Software Engineering Programme is conducted in English Medium only. Write ‘X’ in appropriate box as shown below.

| English | X |

B. **PERSONAL INFORMATION**

B1. **Title**

Write ‘X’ in appropriate box.

B2. **National Identity Card No.** Print one number or letter in each box.

NIC number is compulsory for all Sri Lankan students to register with the OUSL. Currently, if you do not possess one, you are advised to obtain one prior to the registration.

B3. **Passport No.**

Only for Foreign Nationals. Print one number or letter in each box.

B4. **Initials**

Print one letter in each box.


B5. **Last Name**

Write your surname. Print one letter in each box.

F  E  R  N  A  N  D  O

B6. **Names Denoted by Initials**

Write all the names corresponding to each of your initials. Print one letter in each box. Continue to the second line only after the first line is full.

A  N  T  H  O  N  B  O  G  A  H  A  W  A  T  T  A  L  A  G  E  C  H  A  M  M  I  K  A

B7. **Permanent Address**

Write your postal address where we should correspond with you. This address should be a reliable address since all your correspondence with the university will be directed to this address.

7  8  3  /  5  A  ,  N  A  M  A  L  P  L  A  C  E  K  A  D  U  W  E  L  R  O  A  D  M  A  L  E

B8. **Postal Code**

Print one number in each box. For example, Nugegoda 10250

B9. **Gender**

B10. **Civil Status**

For B9 and B10 write ‘X’ in appropriate boxes.

B11. **Date of Birth (DD/MM/YYYY)**

Fill in order of Day, Month and Year of Birth.
B12. Telephone Numbers
Write all your contact telephone numbers in the appropriate columns.

B13. E-mail Address
If you can be contacted through e-mail, please write your e-mail address. Please give only one email address.

C. ACADEMIC QUALIFICATIONS

C1. G.C.E. (Advanced Level) Results
Write your G.C.E (AL) results of three main subjects and General English with subject code, grade and year of obtaining the results.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>Subject</th>
<th>Code</th>
<th>Subject</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>01</td>
<td>Agriculture Science</td>
<td>08</td>
<td>Higher Mathematics</td>
<td>11</td>
</tr>
<tr>
<td>Chemistry</td>
<td>02</td>
<td>Biology</td>
<td>09</td>
<td>Common General Test</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics</td>
<td>07</td>
<td>Combined Mathematics</td>
<td>10</td>
<td>General English</td>
<td>13</td>
</tr>
</tbody>
</table>

For all other courses please indicate the code given in your G. C. E. (A/L) Result sheet.

C2. G. C. E. (Ordinary Level) Results
Write your G.C.E (OL) results with subjects, grades and year of obtaining the results.

C3. Other Relevant / Higher Academic Qualifications
If you have any academic qualifications listed in BSE Prospectus 2011/2012 you may list here indicating the name of the institution and year of obtaining the qualification. Ignore the Qualification Code and Institution Code.

For example, if you obtained SLIIT (SL Institute of Information Technology) Diploma in IT fill the corresponding boxes as below.

<table>
<thead>
<tr>
<th>Qualification Code</th>
<th>Year Received</th>
<th>Institution Code</th>
<th>Institution Name</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>008</td>
<td></td>
<td>SLIIT Diploma in IT</td>
<td>P</td>
</tr>
</tbody>
</table>

C4. Relevant Professional Qualifications
You may write your Professional Qualifications here. You may ignore Qualification Code & Title Code.

For example, if you obtained CIMA qualifications fill the corresponding boxes as below.

<table>
<thead>
<tr>
<th>Qualification Code</th>
<th>Year Received</th>
<th>Institution Code</th>
<th>Institution Name</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>008</td>
<td></td>
<td>CIMA</td>
<td>P</td>
</tr>
</tbody>
</table>

D. WORK EXPERIENCE

D1. Status
Write ‘X’ in appropriate box.

D2. Chronological Order
You may write your work experience in chronological order (i.e., current job at top). Ignore Org. Code & Title Code.

E. SELECTION TEST

E1. Please refer to the application form given. The Application number is your Index number. Fill the box accordingly. Keep the preferred centre and other boxes blank.

F. DECLARATION OF APPLICANT

Please put the date and sign the application form.
### Appendix 5

**OUSL Regional Centres**

<table>
<thead>
<tr>
<th>Regional Centre</th>
<th>Address</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anuradhapura</td>
<td>Jayanthi Mawatha, Anuradhapura</td>
<td>025-2222871</td>
</tr>
<tr>
<td>Batticaloa</td>
<td>23, New Road, Batticaloa</td>
<td>065-2222264</td>
</tr>
<tr>
<td>Colombo</td>
<td>Nawala, Nugegoda</td>
<td>011-2853930</td>
</tr>
<tr>
<td></td>
<td></td>
<td>011-2881281</td>
</tr>
<tr>
<td></td>
<td></td>
<td>011-2881360</td>
</tr>
<tr>
<td></td>
<td></td>
<td>011-2881380</td>
</tr>
<tr>
<td>Jaffna</td>
<td>Browns Road, Kokkuvil, Jaffna</td>
<td>021-2223374</td>
</tr>
<tr>
<td>Kandy</td>
<td>Polgolla, Kandy</td>
<td>081-2499370 to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2499372</td>
</tr>
<tr>
<td></td>
<td></td>
<td>081-2494083</td>
</tr>
<tr>
<td>Matara</td>
<td>Nupe, Matara</td>
<td>041-2222943</td>
</tr>
</tbody>
</table>
APPLICATION FOR EVALUATION OF QUALIFICATIONS FOR EXEMPTIONS

**IMPORTANT**

The following documents must be attached to the Application form:
(a) Certified copies of all Educational / Professional Qualifications.
(b) Certified copies of the syllabus of each subject of the course/programme to be evaluated.
(c) Certified copies of Past papers of each subject of the course/programme to be evaluated.
(d) Hand book (Student Guidebook) of the Institution from which the qualification has been obtained.

Please send the completed form to, **Dean, Faculty of Engineering Technology, The Open University of Sri Lanka, Nawala, Nugegoda 10250** by 27th June 2014.

- Please note that applicant should provide certified English translations, if the originals are in a Foreign Language.
- If you apply for Evaluation of Qualifications, please remember to ask the registration counter if you have been granted additional exemptions, when you come for registration.

INCOMPLETE APPLICATIONS WILL NOT BE ENTERTAINED.

---

**Application for Evaluation of Qualifications for Exemptions**

**Part A**

Student Personal Information:

1. Name of Student with initials

2. Full Name

3. Home Address
4. Telephone: Home Mobile

5. Email address

For Office Use Only

Exemptions Granted for the Applicant;

<table>
<thead>
<tr>
<th>Department</th>
<th>Exemptions Granted (state if common for all)</th>
<th>Signature of HOD</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Basic Training MEW3001 Can/Cannot be exempted. Signature of Training Engineer.........................

Part B

Please tick the programme/field you hope to follow at OUSL

<table>
<thead>
<tr>
<th>Programme</th>
<th>Engineering</th>
<th>Foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Diploma/Degree</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Textile</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Agriculture</td>
</tr>
<tr>
<td>Industrial Studies</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A/L qualifications

<table>
<thead>
<tr>
<th>GCE Advanced Level</th>
<th>Subject</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tick the relevant</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>Local</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>Cambridge</td>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>Edexcel</td>
<td>English/Other</td>
<td></td>
</tr>
</tbody>
</table>

Part C

List the Particulars of the Qualifications you already possess and need to be evaluated:
(If you possess more than one qualification to be evaluated, please include additional copies of Part C & Part D of this form together with relevant documents)

<table>
<thead>
<tr>
<th>Title of the Course/Programme</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of the award (ie. Qualifications)</td>
<td></td>
</tr>
<tr>
<td>Name &amp; Address of the Institution which awarded the above mentioned qualification</td>
<td></td>
</tr>
<tr>
<td>Duration of the Course/Programme</td>
<td></td>
</tr>
<tr>
<td>Year of the award</td>
<td></td>
</tr>
<tr>
<td>Is it Full time/ Part time?</td>
<td></td>
</tr>
<tr>
<td>Entry requirement to follow the course/programme</td>
<td></td>
</tr>
</tbody>
</table>
**Part D**

Details of courses/programmes mentioned in Part C

(i) Details of number of hours spent on each subject:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Year</th>
<th>Time spent (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lectures</td>
</tr>
</tbody>
</table>

(ii) List out the Laboratory experiments done in each subject (Use separate sheet if necessary)

.......................................................... ....................................
Signature of Applicant Date