



# Bachelor of Software Engineering

Prospectus 2017/ 2018

Department of Electrical and Computer Engineering  
The Open University of Sri Lanka

## **Important dates**

### **Registration for the Academic Year 2017/2018**

<i>Application period</i>	:	<i>October 22, 2017 to November 22, 2017</i>
<i>Pre-orientation date</i>	:	<i>October 28, 2017 at Colombo Regional Centre,</i>
<i>Starting time</i>	:	<i>10 am</i>
<i>Exemption application closing date</i>	:	<i>November 22, 2017</i>
<i>Selection Test date</i>	:	<i>December 10, 2017</i>
<i>Starting time and end time</i>	:	<i>2 pm - 3.30 pm</i>
<i>Venue</i>	:	<i>Colombo Regional Centre</i>

*Empowering for Independent Learning Workshop: One day to be selected from given dates between 3<sup>rd</sup> February and 14<sup>th</sup> February 2018*

*Commencement of Academic Activities: February 17, 2018*

## **Important information**

*Applications are available online at the OUSL website and fee is Rs.600.*

*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 exemption form can also be downloaded from our Faculty of Engineering website.*

## **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 can 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 the 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 five academic faculties:

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

There are nine Regional Centres in Anuradhapura, Badulla, Batticaloa, Colombo, Jaffna, Kandy, Kurunegala, Matara, and Ratnapura and 19 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 Higher Diploma in Technology, Bachelor of Technology Honours and research degrees in three specialisations: Computer Engineering, Electrical Engineering, and Electronic and Communication Engineering. The main focus of the Department is to provide a flexible curriculum in fundamental and advanced topics in the above specialisations for producing well qualified graduates ready to meet 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, thirteen Senior Lecturers, and seventeen Lecturers. In addition, there are thirty non-academic and temporary staff members in the Department.

Every year the Department produces a large number of 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 have brought value and credit to the Department of Electrical & Computer Engineering as well as to the OUSL. 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 three 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. The software engineering laboratory is located at the Colombo Regional Centre.

## **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 The 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, the BSE programme of the OUSL 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 the 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 amount of practical components 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 and Computer 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***

This is a 4-year specialised degree in software engineering according to the contents of the programme. However, one who possesses the minimum entry qualifications to the programme can complete the programme in 3 academic years. This is due to the fact that 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 (950hrs) 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.

An examples of obtaining 72 OUSL credits is 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.

There are many other 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***

The online application is available on the main webpage of the university. You have to fill the application online and submit the same. In order to facilitate filling of the application, computer facilities are provided at all centres where registration is done. A specimen of the application is given in Appendix 5. A guide for filling the application is given in appendix 4.

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. This form can be also obtained from the Programme Coordinator at the BSE office or downloaded from OUSL website. The *evaluation form and the detailed documents* 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 whether your qualifications can be considered for entry into the programme.

**Along with the application you will be given a notice indicating the date, time and the venue of the selection test and the interview. You need to bring the originals of your educational and professional certificates to produce at the interview. If any sudden changes take place with regard to the selection test and the interview, such changes will be notified in the webpage of Faculty of Engineering and you are required to visit the webpage regularly. In the online application form you must provide a correct and active email address and a telephone number for further communication.**

### ***Selection criteria***

You must sit and pass the selection test and the interview in order to become eligible to get admission to 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 email and called for registration. The final list of selected candidates will also be published in OUSL main webpage under selection test results.

### ***Registration for BSE***

When you are selected for the BSE programme you will be called for registration, along with a registration pack. In this pack you will find a voucher for the payment of tuition fees along with other fees and payment information. Payment 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.

The actual academic year of the programme will start on February 17, 2018. English for Academic Purposes (EGAP), a separate course offered by the Department of Language Studies and will start in March 2018.

## **Fees**

Students have to pay course fees as per below stated.

- 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)
- Per Credit fee – Rs. 2700/=
- Payment for the EGAP course only (course to be completed before the academic year): Rs.4800/=
- Exemption fee per credit- Rs. 60/=
- Fees per training module (Level 5,6) – Rs. 5,000/=
- Tuition fee DIST programme – Rs. 2300/=

**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.

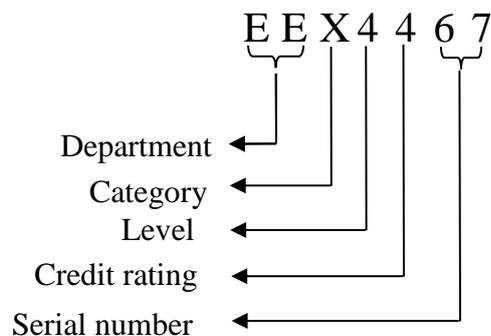
## Courses

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 [given in Appendix 2], either by gaining exemptions or by successful completion.

### 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 EEX4467 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 four (4). 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:

Department	Code
Electrical and Computer	EE
Textile and Apparel	TA
Mathematics and Philosophy	MH

The code **VT** 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.

## **Category of Courses**

Courses and other requirements fall into distinct *Course Categories* with specific alphabetical letters denoting them:

Engineering Courses	X
Engineering projects	Y
Mathematics	Z
Industrial courses	I
Management	M
General courses	J
Industrial placement	W
Computer literacy	K
Language Courses	E

## **Course Levels**

Each course is also assigned a *Level*, between three (3) and six (6). 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 level in the undergraduate programme.

## **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 50 *notional hours* of study time.

At the OUSL, the maximum number of credits a student can offer per academic year is limited to thirty eight (38).

The completion of minimum 125 credits is needed to complete the BSE Degree. The details can be found on pages 18 and 19.

## ***Courses in BSE***

List of courses available for the BSE is given below.

### **Courses Offered at Level 3**

#### **Engineering (X) category courses**

EEX3363 Introduction to computing

#### **Mathematics (Z) category courses**

EEZ3361 Mathematics for computing

### **Courses Offered at Level 4**

#### **Engineering (X) category courses**

EEX4565 Data structures and algorithms

EEX4467 Software engineering concepts

#### **Industrial (I) category courses**

EEI4562 Object oriented design and programming

EEI4364 Networking and web technology

EEI4266 Data modelling and database systems

#### **Mathematics (Z) category courses**

MHZ4360 Discrete mathematics I

TAZ4261 Probability and statistics

#### **General (J) category courses**

EEJ4360 Communication skills for engineers

### **Courses Offered at Level 5**

#### **Engineering (X) category courses**

EEX5563 Computer organization and  
operating systems

#### **Industrial (I) category courses**

EEI5361 Human computer interaction

EEI5566 Advanced database systems

EEI5567 Software quality assurance and testing

#### **General (J) category courses**

MHJ5563 Technology, society and environment

#### **Management (M) category courses**

EEM5860 Management and professional issues

#### **Mathematics (Z) category courses**

MHZ5360 Discrete mathematics II

## **Courses Offered at Level 6**

### **Engineering (X) category courses**

EEEX6563 Software construction

### **Industrial (I) category courses**

EEI6560 Software project management

EEI6565 Artificial intelligence techniques

EEI6461 Electronic commerce

EEI6567 Software architecture and design

### **Engineering projects (Y) category courses**

EEY6A89 Group Project (Software Engineering)

In addition to above courses, Industrial Training module has to be completed.

## ***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 30 weeks 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 Coordinator/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 Learning Management System, 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 lifelong learning. Therefore, the programmes offered by OUSL open up avenues for everyone, especially for employed persons. Thus 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 TMAs, laboratory work, Mini Projects, Case Studies, Presentation sessions, OQs, and CATs.

## Awarding the degree

In order to gain the degree, students have to fulfil the minimum credit requirements in each category and obtain 125 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.

Category	Letter Denoting Category	Minimum credits	Maximum credits
Industrial/Academic	I	75	88
Engineering	X	subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6 and a maximum of 30 credits being at of category I at level 3	subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6 and a maximum of 30 credits being of category I at level 3
Management	M	8	21
General	J	8	20
Mathematics	Z	11	24
Project	Y	10	23
English	E	0	5
Computer literacy	K	0	5
Total		125	
		subject to a minimum of 60 credits being at levels 5 and 6, of which at least 30 credits at level 6.	
Training modules	W	Industrial training module of at least 30 weeks duration	

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 fifteen (15) credits should be from level six.

In addition to the above requirements, students must complete the following compulsory courses as well.

EEX3363	Introduction to computing
EEZ3361	Mathematics for computing
EEX4565	Data structures and algorithms
EEX4467	Software engineering concepts
EEI4562	Object oriented design and programming
EEI4364	Networking and web technology
EEI4266	Data modelling and database systems
MHZ4360	Discrete mathematics I
TAZ4261	Probability and statistics
EEJ4360	Communication skills for engineers
EEX5563	Computer organization and operating systems
EEI5361	Human computer interaction
EEI5567	Software quality assurance and testing
EEM5860	Management and professional issues
MHZ5360	Discrete mathematics II
EEI6560	Software project management
EEI6567	Software architecture and design
EEX6563	Software construction
EEY6A89	Group Project (Software Engineering)

***And the training module,***

EEW5011	Industrial training module (Software Engineering)
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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 which is 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 cash.**

## **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 your personal 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, Jaffna, 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, Jaffna, 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 separate computer lab for software engineering is located at Block 12 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. When requesting for temporary residential facility you have to get the hostel form certified by the relevant academic coordinator or a senior academic staff member from the relevant department by producing your student record book.

### ***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 five 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

<b>Dean of the Faculty:</b>	Dr. K.A.C. Udayakumar
<b>Assistant Registrar:</b>	Mr. E.A.D. Sampath Udayanga
<b>Training Engineer:</b>	Eng. I.M. N. P. Illangakoon

## Heads of the Departments relevant to the BSE programme

<b>Department of Electrical and Computer Engineering:</b>	Dr. (Mrs). H.U.W. Ratanayake
<b>Department of Mathematics and Philosophy of Engineering:</b>	Mr. C.P.S. Pathirana
<b>Department of Textile and Apparel Technology</b>	Prof. C.N. Herath

## BSE Office

<b>Chief Academic Coordinator</b>	Dr. (Mrs.) D. D. M. Ranasinghe
<b>Programme Coordinator</b>	Eng.(Ms.) Jasmine Nanayakkara

## Staff of the BSE programme

### OUSL staff - Department of Electrical and Computer Engineering

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<b>Dr. L.S.K. Udugama</b> <i>MSc (Donetsk Polytechnical Institute ), PhD (Donetsk State Technical University), MIEEE</i> Senior Lecturer – Gr. I	<b>Dr. (Ms.) D.D.M. Ranasinghe</b> <i>BSc (Colombo), PhD (OUSL)</i> Senior Lecturer – Gr. I
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<b>Mr. K.A.R.D. Gunaratne</b> <i>Dipl. Ing. (Ilmenau)</i> Lecturer	<b>Eng. (Ms) G.S.N. Meedin</b> <i>BTech (Eng) (Hons) (OUSL), AMIE(SL)</i> Lecturer (Probationary)
<b>Ms. B.K. Werapitiya</b> <i>Bsc(MIS)(Hons)(Dublin), PGDip(ISM)(Colombo)</i> Lecturer (On Contract)	<b>Ms. W.A.S.N. Perera</b> <i>BSc (Hons)(IT), (Moratuwa)</i> Lecturer(On contract)
<b>Ms.S. Rajasingham</b> <i>BS in Computer Science (West Georgia)</i> Lecturer (On Contract)	<b>Eng.(Ms). J. Nanayakkara</b> <i>BTech (Eng) (Hons) (OUSL),MBA (Peradeniya), AMIE(SL)</i> Lecturer (On Contract)

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Department of Mechanical Engineering

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**Mr. C.P.S. Pathirana**  
*BSc (Special) (Hons) (Ruhuna),*  
*MSc (SJP)*  
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Department of Mathematics and Philosophy of  
Engineering

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*BA (Hons) in English & ELT*

**Ms. M.I. Sudasinghe**  
*BSc Agric. Eng (Hons) (Ruhuna), M.Phil (Peradeniya)*

**Mr. P. S. Haddela**  
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# Appendix 1

## Schedule 1(a) -Recognized qualifications for obtaining necessary credit exemptions towards eligibility for the admission to the Program of Study.

Qualification	Courses Exempted
Pass in any subject in the G.C.E.(A/L) Sri Lanka or G.C.E.(A/L) London except Combine mathematics or Mathematics or General English or General IT (Maximum total exemptions that can be given for G.C.E. (A/L) qualifications is limited to 30 credits)	VTI2A00 (for each subject)
Pass in Combine mathematics or Pure mathematics or Applied Mathematics or Mathematics in G.C.E.(A/L) Sri Lanka or G.C.E.(A/L) London	VTZ2A00
Completion of OUSL foundation of any faculty	VTI2A00, VTI2A01, VTI2A02
Advance Certificate in Technology (OUSL) Electrical , Electronics	VTI3F00, VTI3F01, EEX3363
Advance Certificate in Technology (OUSL) except Electrical and Electronics	VTI3F00, VTI3F01
Diploma in Technology (OUSL) Civil, Textile, and Agriculture	VTI3F00, VTI3F01, VTI4F00, EEZ3361
Diploma in Technology (OUSL) Electrical, Electronics, Mechanical, Mechatronics, Manufacturing, Automobile	VTI3F00, VTI3F01, VTI4F00, EEZ3361, EEX3363
Diploma in Technology (OUSL) Computer	VTI3F00, VTI3F01, VTI4F00, EEZ3361, EEX3363, EEX4467, EEX4565
Diploma in Information Systems and Technology (OUSL)	VTI3F00, VTI3900, EEZ3361, EEX3363
BSc/BA or equivalent University degree (except specialization in Computing)	VTI2A00, VTI2A01, VTI2A02, VTI3F00, VTI4F00
IESL (The Institution of Engineers, Sri Lanka) Part II	VTI3F00, VTI3F01
BCS (British Computer Society) Certificate	VTI2F00, VTI3500, , EEX3363, EEX4565, EEX4467
BCS (British Computer Society) Diploma (For the core module only. For optional courses additional credits will be granted)	EEX3363, EEX4467, EEX4565, VTM4500, VTI3F00
SLIIT (SL Institute of Information Technology) Certificate in IT	EEX3363, EEZ3361, VTI3C00
SLIIT (SL Institute of Information Technology) Associate Diploma in IT	EEX3363, EEZ3361, EEI4364, EEI4266, VTK3500, VTI3F00
SLIIT (SL Institute of Information Technology) Diploma in IT	VTI3F00, VTI4F00, EEX3363, EEX4565, EEX4467, EEZ3361, EEI4364, EEI4266
CMA (Certified Management Accountants)– Stage I	VTI3F00
CMA (Certified Management Accountants)– Stage II	VTI3F01
CIMA (Chartered Institute of Management Accountants) - Stage I	VTI3F00
CIMA (Chartered Institute of Management Accountants) - Advanced Diploma-Stage II	VTI3F01, VTX3399

IBSL (Institute of Bankers of Sri Lanka) Certificate in Banking and Finance	VTI3F00
IBSL (Institute of Bankers of Sri Lanka) Advance Certificate	VTI3F00, VTI3F01, VTX3399
NIBM (National Institute of Business Management) Diploma in Computer System Design (DCSD) (from 2010)	VTI3F00, EEX3363, EEI4562, EEX4565, EEX4467
NIBM (National Institute of Business Management) Higher Diploma in Computer Based Information Systems (HDCBIS) (from 2010)	VTI4F00, EEI4364, EEI4266, EEI5566, EEI5567
NIBM (National Institute of Business Management) DCSD and HDCBIS (from 2010)	VTI2A00, VTI3F00, EEX3363, EEI4562, EEX4565, EEX4467, VTI4F00, EEI4364, EEI4266, EEI5566, EEI5567
NDT(National Diploma in Technology) Electronic & telecom or NDES(National Diploma in Engineering Sciences) (Old curriculum)	VTI3F00, VTI3F01, EEZ3361, EEX3363
Completion of first and second year of NDT in any field	VTI3F00, VTI3F01, EEZ3361
NDES (Old curriculum) in any field	VTI3F00, VTI3F01, EEZ3361, EEX3363
NDES (New curriculum) in any field except (Electronics, power or Telecommunication)	VTI3F00, VTI3F01, VTI4500, EEZ3361
NDES (Electronics, power or Telecommunication)(New curriculum)	VTI3F00, VTI3F01, VTI4500, EEZ3361, EEX3363
NDES (Power, civil, mechanical) (Old curriculum)	VTI3F00, VTI3F01, EEZ3361
Completion of 1 <sup>st</sup> and 2 <sup>nd</sup> phases of NDES (New curriculum) 2003 Power, Electronics or Telecommunication	VTI3F00, EEZ3361
HNDE (Higher National Diploma in Engineering) (Electrical Power/Electronics)	VTI3F00, VTI3F01, EEZ3361, EEX3363
NDICT (National Diploma in Information and Communication Technology)	VTI3F00, VTI3F01, EEX3363
Diploma in System Design and Programming, Vocational Training Authority (VTA)	VTI3F00, VTI3F01, EEX3363
HNDIT(Higher National Diploma in IT) Semester I	EEX3363, VTI3C00
HNDIT(Higher National Diploma in IT) Semester II	EEX4565, EEX4467, VTI3600
HNDIT(Higher National Diploma in IT) Semester III	EEI4266, VTI4C00
HNDIT(Higher National Diploma in IT) , IT2004 Introduction to Communication and Computer Networks and IT4103 Web programming	EEI4364
Higher National Diploma in Information Technology (HND IT), SLIATE, mathematics for Computing &GCE A/L combine mathematics – (New syllabus from 2010)	EEZ3361
HNDIT(Higher National Diploma in IT) Semester III with IT 3103 Object Oriented Analysis and Design	EEI4562
HNDIT(Higher National Diploma in IT), IT4301 Software Testing and IT4303 Software Quality Management	EEI5567
BIT – Bachelor in Information Technology (University of Colombo) 1 <sup>st</sup> Semester	EEX3363

BIT – Bachelor in Information Technology (University of Colombo) 1 <sup>st</sup> year – Diploma in IT	EEX3363, MHZ4360, EEI4266, VTI3F00, VTK3700
BIT – Bachelor in Information Technology (University of Colombo) 3 <sup>rd</sup> Semester	EEX4467, VTI3A00
BIT – Bachelor in Information Technology (University of Colombo) 2 <sup>nd</sup> year – Higher Diploma in IT	EEX3363, MHZ4360, EEI4266, EEX4467, EEX4565, VTI3F00, VTK3600, VTI4F00
BIT - Bachelor in Information Technology (University of Colombo) IT3303 - Mathematics for Computing II	EEZ3361
BIT - Bachelor in Information Technology (University of Colombo) IT3503 - Web Development Techniques and IT4503 - Data Communications & Networks	EEI4364
ACS (Australian Computer Society) Diploma in IT (New syllabus from 2006)	EEX3363, EEX4467, EEI4266, VTI3600, VTI3F00
ACS (Australian Computer Society) Diploma in IT (Old syllabus)	EEX3363, VTI3F00, VTI3501
OUSL Faculty of Engineering Technology MPZ3230	EEZ3361
OUSL Faculty of Engineering Technology MPZ3231	EEZ3361
OUSL Faculty of Engineering Technology MPZ3132	EEZ3361
Diploma in Information Systems and Technology (OUSL) ECX3163	EEX3363
Diploma in Information Systems and Technology (OUSL) ECZ3262	EEZ3361
OUSL Faculty of Engineering Technology MPZ4230	TAZ4261
OUSL Faculty of Engineering Technology ECX3233	EEX3363
OUSL Faculty of Engineering Technology ECX4235	EEX4565
OUSL Faculty of Engineering Technology ECX4237 or ECX4247	EEX4467
OUSL Faculty of Engineering Technology ECX5236 and ECX5235	EEX5563
OUSL Faculty of Engineering Technology ECX5267	EEI5567
OUSL Faculty of Engineering Technology MPJ5233	MHJ5563
NCC (National Computing Centre) – Advance Diploma (IADCS)	EEI4364, EEI4266, VTI3F00, VTI4A00
NCC (National Computing Centre) - Diploma (IDCS)	EEX3363, EEX4467, VTI3F00, VTI3800
NCC (National Computing Centre) IDCS and IADCS	VTI2A00, VTI3800, EEI4364, EEI4266, VTI3F00, VTI4A00, EEX3363, EEX4467
AAT- Association of Accounting Technicians (Sri Lanka) - Stage I	VTI2A00
AAT- Association of Accounting Technicians (Sri Lanka) - Stage II	VTI3F00
AAT- Association of Accounting Technicians (Sri Lanka) - Stage III	VTI3F00, VTI3F01

A course at level 3 or 4 completed at OUSL	Equivalent number of virtual credits at the relevant level of the completed course if not already listed
Successful completion of 1 academic year (or 2 semesters) of a Bachelors Degree Programme in any other state University/Institute.	30 credit exemptions in level 3

## Appendix 2

### Prerequisites of the courses

CR - Concurrent Registration

EL - Eligibility

P - Pass

CA- Pass in Continuous Assessment ( $X \geq 40\%$ )

### Courses offered at level 3

If not mentioned otherwise, prerequisites for all courses at level 3 are FDE3020 (CR), LEE3410 (CR) or VTL1501.

Course Code	Course Title	Prerequisites
<b>Engineering (X) category courses</b>		
EEX3363	Introduction to computing	None
<b>Mathematics (Z) category courses</b>		
EEZ3361	Mathematics for computing	None

### Courses offered at level 4

If not mentioned otherwise, prerequisites for all courses at level 4 are {EDE3001 (EL) or FDE3020 (CA)}, {LSE3204 (EL) or LEE3410 (CA) or VTL1501}

Course Code	Course Title	Prerequisites
<b>Engineering (X) category courses</b>		
EEX4467	Software engineering concepts	[EEX3363(CA) or {EEX3363(CR) and VTX3399}] or ECX3163 (EL), EEX4565(CR), EEI4562 (CR)
EEX4565	Data structures and algorithms	[EEX3363(CA) or {EEX3363(CR) and VTX3399}] or ECX3163 (EL), MHZ4360 (CR)
<b>Industrial (I) category courses</b>		
EEI4562	Object oriented design and programming	[EEX3363(CA) or {EEX3363(CR) and VTX3399}] or ECX3163 (EL), EEX4565(CR)
EEI4364	Networking and web technology	[EEX3363(CA) or {EEX3363(CR) and VTX3399}] or ECX3163 (EL)
EEI4266	Data modelling and database systems	[EEX3363(CA) or {EEX3363(CR) and VTX3399}] or ECX3163 (EL)
<b>Mathematics (Z) category courses</b>		
MHZ4360	Discrete mathematics I	EEZ3361(CR) or VTZ1300
TAZ4261	Probability and statistics	None
<b>General (J) category courses</b>		
EEJ4360	Communication skills for engineers	None

### Courses offered at level 5

If not mentioned otherwise, prerequisites for all courses at level 5 are {EDE3001(P) or EDE3020(P)}, {LSE3204 (P) or LEE3410 (P) or VTL1501} or EEJ4360 (CR).

Course Code	Course Title	Prerequisites
<b>Engineering (X) category courses</b>		
EEX5563	Computer organization and operating systems	EEX3363(P), EEZ3361(CA) or ECZ3161 (EL), MHZ4360(CA) or MPZ4160 (EL)
<b>Industrial (I) category courses</b>		
EEI5361	Human computer interaction	EEX4467 (CA) or ECX4267 (EL)
EEI5567	Software quality assurance and testing	EEX4467(CA) or ECX4267 (EL)
EEI5566	Advanced database systems	EEI4266(P)
<b>Mathematics (Z) category courses</b>		
MHZ5360	Discrete mathematics II	MHZ4360(CR), EEZ3361(P) or VTZ1300
<b>General (J) category courses</b>		
MHJ5563	Technology, society and environment	None
<b>Management (M) category courses</b>		
EEM5860	Management and professional issues	None

A pre-requisite for all courses at level 5 is EEJ4360(CR)

### Courses offered at level 6

If not mentioned otherwise, prerequisites for all courses at level 6 are {EDE3001 (P) or EDE3020 (P)}, {LSE3204 (P) or LEE3410 (P) or VTL1501} or EEJ4360 (CA).

Course Code	Course Title	Prerequisites
<b>Engineering (X) category courses</b>		
EEX6563	Software construction	EEX3363(P), EEX4565(CA), EEX4467(CA) or ECX4267 (EL), MHZ4360(CA) or MPZ4160 (EL), MHZ5360(CR)
<b>Industrial (I) category courses</b>		
EEI6560	Software project management	EEI5567(CA)
EEI6461	Electronic Commerce	Pass in 15 credits at level 4 and above including EEI4364
EEI6567	Software architecture and design	EEX6563(CR), EEX4467(P)
EEI6565	Artificial intelligence techniques	EEX4565(P), MHZ4360(P)
<b>Projects(Y) category courses</b>		
EEY6A89	Group Project (Software Engineering)	30 credits from I or/and X category at Level 4 and above, EEI6560(CR), EEI6567(CR)

- A pre-requisite for all courses at level 6 is EEJ4360(EL)

## Part 2: List of training modules

Each training module is given a code that reflects the academic department that administers the training module (first two letters), and the level (third letter).

Module Code	Module Title	Prerequisites	Duration
EEW5011	Industrial Training Module (Software Engineering)	None	30 weeks

## Part 3: Schedule 1(c) - Compulsory course combinations for the Degree and the Higher Diploma

### Compulsory course combination for the Degree

Level	Courses
3	EEX3363 EEZ3361
4	EI4364 EII4266 EII4562 EEX4565 EEX4467 EEJ4360 MHZ4360
5	EI5361 EII5567 EEX5563 EEM5860 MHZ5360
6	EI6560 EEX6563* EII6567 EEY6A89
<b>Training module</b>	
	EEW5011*

### Compulsory course combination for the Higher Diploma

<b>Level</b>	<b>Courses</b>
3	EEX3363
4	EEI4364 EEI4266 EEI4562 EEX4565 EEX4467 EEJ4360 MHZ4360

In place of courses asterisk marked (\*) the following alternative course/courses could be considered in satisfying the compulsory list.

<b>Listed course/s</b>	<b>Alternative course</b>
EEX6563	ECX5265
<b>Listed training module/s</b>	<b>Alternative training modules/s</b>
EEW5011	ECW4280 and ECW 4281

# Appendix 3

## Scheme of Assessment

Below given information are extracted from relevant Rules and Regulations applicable to Bachelor of Software Engineering honours degree programme.

### 1 Scheme of Assessment

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

1.1.1 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.

Overall Continuous Assessment mark (X%), referred hereinafter OCAM for a course shall be determined based on composite mark computed using different Continuous Assessment components, in a manner determined by the Faculty.

The OCAM for any course obtained by a student is valid only for the academic year it was obtained and the immediately following academic year, provided that such mark is greater than or equal to 40%.

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

For courses offered by the Faculty of Engineering Technology;

$$Z = 0.5X + 0.5Y, \text{ if } Y \geq 40 \text{ and } X \geq 40$$

$$Z = \min \{X, Y\}, \text{ if } Y < 40 \text{ or } X < 40$$

## Grades allocation

$85 \leq Z$ :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

A+, A, A-, B+, B, B-, C+, and C, constitute Pass grades.

## Calculation of Grade Point value from Grades

Grade	Grade Point Value	Grade	Grade Point Value
A+	4.00	C+	2.30
A	4.00	C	2.00
A-	3.70	C-	1.70
B+	3.30	D+	1.30
B	3.00	D	1.00
B-	2.70	E	0.00

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.

- 1.1.2 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 pass grade subject to Section 2.1.6 of the Rules.
- 1.1.3 A student who has failed to obtain at least 40% for X of any course is deemed to have failed that course and shall be awarded the grade F, irrespective of the marks obtained for Z; invalidating the grades obtained by calculating the grade point value.
- 1.1.4 A student who has been awarded a grade F for any course cannot count that course towards his/her credit requirements unless he/she repeats that course by re-registering for that course and obtain a pass grade subject to Section 2.1.7 of the Rules.
- 1.1.5 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.
- 1.1.6 A student who withdraws from a course by a written communication addressed to the Registrar within a period of two months from the commencement of the Programme of Study 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 Programme of Study shall be as determined by the Senate for the purpose of this Rule.
- 1.1.7 A student, who has obtained 40% or greater for X for a course may postpone sitting the Final Examination of that course, to the immediately following academic year, without being considered as re-sit candidate. Such a student shall be awarded the grade RX in respect of that course in which he/she is so absent.
- 1.1.8 The assessment of each individual student in a course, in accordance with the Rules, shall be carried out by a Panel of Examiners constituted as follows:  
Dean of the Faculty of Engineering Technology (Chairperson),  
Deans of the other relevant Faculties  
Heads of Department in the relevant Faculty,  
Chief Examiner(s),  
Setting Examiner (s),  
Moderating Examiner(s) and  
Marking Examiner(s)

The Senior Assistant Registrar/Examinations shall function as the Secretary to the Panel of Examiners.

- 1.1.9 The assessment of training modules shall be carried out in accordance with the Faculty approved guidelines, by an Assessment Panel appointed by the Faculty of Engineering Technology.
- 1.1.10 A student who is successful at the Final Assessment shall be obtained a “Pass” in respect of that training module and no credits will be granted.
- 1.1.11 A student who he/she is unsuccessful at the Final Assessment shall be considered as “Fail”, and shall be required either repeat the training modules or meet the requirements as recommended by the Examiner(s), and obtain a “Pass”.

## 2 Awards

There shall be two awards in the Programme of Study as referred to in Section 3.1 of the Rules of Bachelor of Software Engineering Honours Degree, and in Section 3.2 of the Rules of Higher Diploma in Software Engineering.

### 2.1 Award of Bachelor of Software Engineering Honours Degree

- 2.1.1 A candidate who obtains a minimum of hundred and twenty five (125) credits with grade C or above from level 3 and above, and satisfies the training requirements for the award of the Degree as specified in Section 3 and Section 4 of the Regulations, and satisfies any other academic requirements imposed by the Senate, and supplicates for the award of the Bachelor of Software Engineering Honours Degree in a prescribed form, shall be awarded the Degree.
- 2.1.2 A candidate who satisfies the requirements specified in the Section 3.1.1 of Regulations within a maximum stipulated period as determined by the Senate shall be awarded the Degree with:
  - First Class Honours, or
  - Second Class Honours (Upper Division) or
  - Second Class Honours (Lower Division) based on Grade Point Average computed in accordance with the guidelines given in Section 3.1.6 of the Rules.
- 2.1.3 A candidate who satisfies the requirements specified in Section 3.1.1 in a period exceeding the stipulated maximum period referred to in Section 3.1.2 of the Rules shall be awarded the Degree with a Pass.
- 2.1.4 Such award in respect of each student shall be recommended to the Senate by a Board of Examiners constituted as follows:
  - Vice Chancellor (Chairperson),
  - Dean of Faculty of Engineering Technology,
  - Heads of Departments that offer courses of the Study Programme,
  - Chief Examiners and Setting Examiners of all courses
  - The Senior Assistant Registrar/ Examinations shall function as the Secretary to the Board of Examiners.
- 2.1.5 The Board of Examiners shall also recommend the award of medals and prizes if any to the

Senate.

- 2.1.6 Grade Point Average (GPA) shall be computed by considering the courses at levels 4, 5 and 6 for a candidate who has satisfied the conditions for the award of the Bachelor of Software Engineering Honours Degree in accordance with Section 3.1 of the Regulations, in line with the procedure set out in Sections 3.1.6 (a), 3.1.6 (b), and 3.1.6 (c) of the Rules.
- 2.1.6.(a) The courses at levels 5 and 6 that proceed towards the calculation of credits for the award of the Degree of Bachelor of Software Engineering Honours, in accordance with Section 3.1 of the Regulations, shall be allotted Grade Point Values (GPV) as stipulated above according to the Rules.
- 2.1.6.(b) The courses shall be listed in a priority order according to the Grade Point Values by taking all compulsory courses at levels 5 and 6 first, then non-compulsory courses at levels 5 and 6, and of the specialization, if applicable.
- 2.1.6.(c) For the computation of GPA, the courses shall be selected from the list of courses in Section 3.1.6(b) in the order of listing such that the sum of the credits of the courses thus selected is sixty three (63). When, exactly sixty three (63) credits cannot be obtained, the courses shall be selected to the nearest value below 63, and the remainder credit shall be taken as a *Part Credit* of the next course in the list in Section 3.1.6 (b).

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

$$GPA = \frac{\{\sum(CreditRatingoftheCourse) * (GPV)\} + (PartCreditoftheCourse) * (GPV)}{63}$$

- 2.1.7 A candidate shall be awarded the Degree of Bachelor of Software Engineering Honours according to the GPA obtained and subject to conditions stipulated in Sections 3.1.2 and 3.1.3 of the Rules as follows:

3.00 > GPA ≥ 2.00: Pass

3.30 > GPA ≥ 3.00: Second Class Honours (Lower Division)

3.70 > GPA ≥ 3.30: Second Class Honours (Upper Division)

GPA ≥ 3.70: First Class Honours

## 2.2 Award of Higher Diploma in Software Engineering

- 2.2.1 A candidate who obtains a minimum of sixty five (65) credits with grade C or above at level 3 and/or above, and satisfies the training/project requirements for the award of the Higher Diploma as specified in Section 3 and Section 4 of the Regulations, and supplicates for the award of the Higher Diploma in Software Engineering in a prescribed form, shall be awarded such Higher Diploma.
- 2.2.2 Such Award in respect of each candidate shall be recommended to the Senate by a Board of Examiners constituted as follows:

Dean of Faculty of Engineering Technology (Chairperson),  
Heads of Departments in the Faculty of Engineering Technology,  
Chief Examiners and  
Setting Examiners of all courses in the programme

The Senior Assistant Registrar/Examinations shall function as the Secretary to the Board of Examiners.

2.2.3 The Board of Examiners shall also recommend the award of medals and prizes, if any, to the Senate.

### 3 Exemptions

Exemptions will be granted as specified in Appendix 1. Providing exemptions other than those specified in Appendix 1 will be granted with the approval of the Board of Faculty of Engineering Technology and the Senate.

# Appendix 4

## General information needed for application

Before you start filling the online 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. Form will be available online only during the application period.

When filling out the form online please follow the directions given on the webpage. The information below will assist you in filling different categories.

### A. PROGRAMME CHOICE

#### A1. Programme Code

Table below shows the Programmes and the Specialisations available in the academic year 2017/18. Programme codes and the specialization codes too are given in the Table.

PROGRAMME	SPECIALISATION	PROG. CODE	
Master of Technology	Construction management	MC	00
	Apparel Production & Management	MW	00
Postgraduate Diploma in technology	Construction management	PC	00
	Apparel Production & Management	PW	00
Bachelor of Technology Honours in Engineering	Civil Engineering	BT	01
	Computer Engineering	BT	02
	Electrical Engineering	BT	03
	Electronic & Communication Engineering	BT	04
	Mechanical Engineering	BT	05
	Mechatronics Engineering	BT	06
	Textile and Clothing Engineering	BT	07
	Specialisation not yet decided	BT	00
Bachelor of Industrial Studies Honours	Agriculture	BI	11
	Apparel Production & Management	BI	12
	Fashion Design and Product Development	BI	33
	Textile Manufacture	BI	13
Bachelor of Software Engineering Honours	Software Engineering	BS	00
Diploma in Information Systems and Technology	Information Systems and Technology	DS	00
Certificate in Industrial Studies	Apparel Technology	CI	21
	Animal Husbandry and Aquaculture	CI	41

Programme Code consists of four boxes. Boxes 1 & 2 are for writing the Programme. For example for the Software Engineering programme you should write the code corresponding to "Bachelor of Software Engineering Honours" Programme, that is **BS**, in the first two boxes as shown below.

B	S	0	0
---	---	---	---

Boxes 3 & 4 are for writing the Specialisation. There are no specialization, you may keep these boxes blank.

#### A2. Academic Year

Write the following numbers in the relevant boxes

2	0	1	7	/	1	8
---	---	---	---	---	---	---

#### A3. Programme Name

B	A	C	H	E	L	O	R		O	F		S	O	F	T	W	A	R	E		E	N	G	I
N	E	E	R	I	N	G		H	O	N	O	U	R	S										



**B8. Postal Code**

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

**B9. Gender**

Write 'X' in appropriate box.

**B10. Civil Status**

Write 'X' in appropriate box.

**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 (ten digits) 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 GCE (A/L) results of three main subjects and General English with subject code, grade and year of obtaining the results.

Subject	Code	Subject	Code	Subject	Code
Physics	01	Agriculture Science	08	Higher Mathematics	11
Chemistry	02	Biology	09	Common General Test	12
Mathematics	07	Combined Mathematics	10	General English	13
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 GCE (O/L) results with subjects, grades and year of obtaining the results

**C3. Other Relevant/ Higher Academic Qualifications**

If you have any Relevant/Higher academic qualifications listed in Student Guidebook 2017/2018 you may list here indicating the name of the institution and year of obtaining the qualification. You may ignore the *Qualification Code* and *Institution Code*.

**C4. Relevant Professional Qualifications**

You may write your Professional Qualifications. You may ignore *Qualification Code & Title Code*.

Completing this part is very important. You will be called for the interview, if you have adequate one year full time equivalent study after GCE A/L or equivalent.

**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). You may ignore *Org. Code & Title Code*.

**E. SELECTION TEST**

E1. This section is applicable to you only if you intend to enrol in Bachelor of Software Engineering (BSE) programme of the Faculty of Engineering Technology.

## Appendix 5 – Sample application form (As seen on the OU web site)



**The Open University of Sri Lanka**  
Online Application Process

**1. New Applicants**

If you are a new applicant for an OUSL programme, you should only register once by creating a new account. To do that, click [Create New Account](#). Once you create your account, you can log in by entering your Username and Password.

**2. Returning Applicants**

If you are an existing OUSL student with a previous on-line account with us, simply enter your login account details below (ie, Username and Password) and click 'Login' to proceed.

Username

Password

[Create New Account](#)

### New User Creation

**\* Mandatory fields . අනිවාර්ය කිරීමට වටිනාකමක් ඇති ක්ෂේත්‍රයන්**

**Account Details**

You can use your own Username and Password ,A password must have at least six (6) characters.

Username\*

Password\*

Confirm Password\*

**Personal Details**

Title\*

Initial\*

Last Name\*

Name Denoted by Initial\*

Address Line 1\*  1st line of your address,අවසන් පිවිසීමේ පහළම පෙට්ලිය , උතුරු පළාතේ 1st වැටුප්

Address Line 2\*  2nd line of your address,අවසන් පිවිසීමේ දෙවන පෙට්ලිය , උතුරු පළාතේ 2 වැනි වැටුප්

Address Line 3  3rd line of your address,අවසන් පිවිසීමේ තුන්වන පෙට්ලිය , උතුරු පළාතේ 3 වැනි වැටුප්

NIC/Passport No\*

Date Of Birth\*

Gender\*

E mail\*  Your Email or any other

Telephone - Mobile\*  Your Mobile or any other

Telephone - Fixed

Country

I have double checked the above mentioned details and they are correct according to my knowledge.(ඉහත සඳහන් කරුණු සියලුම දත්ත පරීක්ෂා කළ බවට තීරණය කළ බවට සහතික කරමි.)



## Welcome to The Open University of Sri Lanka On-line Application System

[Edit Account details](#)

[Programme Details](#)

[Add New Application](#)

[My Applications](#)

[Log Out](#)

Logged as varunakumara

Monday, 17th October 2016

## My Application Details

No previous application(s) found, Please click [Add New Application](#) for new application

No	App No	Programme	Application Fee	Date Applied	View	Payment	Selection Test Admission	Docs & Past papers
----	--------	-----------	-----------------	--------------	------	---------	--------------------------	--------------------

## Select Payment Method



[Credit Card Payment](#)



[Cash Payment](#)

### Credit Card Payment Instructions

1. Click the Credit card payment option above,
2. You can use credit/debit card (online payment activated) for payments.
3. We accept only "Mastercard" or "Visa" type credit/debit cards

### Cash payment Instructions

1. Click the Cash payment option above,
2. Note the application number which will display under the application details.
3. Make the payment to the nearest [DUSL center](#) and make sure to obtain payment receipt.



[eZcash Payment](#)

### Cash payment Instructions

1. Click the eZcash payment option above,
2. Use valid Dialog eZcash number and pin code .

## Application for Evaluation of Qualifications for Exemptions

### **The Open University of Sri Lanka- Faculty of Engineering Technology** **Application for Evaluation of Qualifications for Exemptions**

Who needs to apply for Evaluation of Qualifications?

Only those who possess qualifications **NOT** listed in the following schedules need to apply.

- (i) Exemptions applicable to Technology (Engineering) Programme of study
- (ii) Exemptions applicable to Industrial Studies Programme of study
- (iii) Exemptions applicable to Software Engineering Programme of study

#### **IMPORTANT**

Please note that only full qualifications are considered and part qualifications will not be accepted. You are advised to check your qualifications with relevant departments and apply only if necessary.

#### **The following documents must be attached to the Application Form:**

- (a) Certified copies of all Educational/Professional Qualifications
- (b) Certified copies of the Syllabi 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 each qualification has been obtained

**Note: The exemption form can be downloaded from the faculty webpage: <http://www.ou.ac.lk/eng/>**



Relevant course/subject/program qualified		Relevant course in OUSL programme from which, exemption is requested	
Course title	Course code	Course title	Course Code

### **Part C**

**List the Particulars of the Qualification you already possess and that 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)

Title of the Course/Programme	
Title of the award (i.e. Qualification)	
Name & Address of the Institution which awarded the above mentioned qualification	
Duration of the Course/Programme	
Year of the award	
Is it Full time/ Part time?	
Entry requirements to follow the course/programme	

### **Part D**

**Details of courses/programme mentioned in Part C**

**1. Number of hours spent on each subject (Use separate sheet if necessary)**

Subject	Year	Time spent (Hours)			
		Lectures	Tutorials	Lab Work	Training

**2. List out the Laboratory experiments done in each subject to be evaluated (Use separate sheet if necessary)**

.....  
Signature of Applicant

.....  
Date

**For Office Use Only**

**Exemptions Granted for the Applicant:**

<b>Department</b>	<b>Qualifications considered</b>	<b>Exemptions Granted</b> (State if common for all)	<b>Signature of HOD</b>	<b>Date</b>